

RFI and Corrective Measures Evaluations

Pro2Serve is currently providing environmental and engineering support to Los Alamos National Laboratory (LANL) under two contracts: 1) a \$1.7 million contract to complete a RCRA Facility Investigation (RFI) of Material Disposal Area (MDA) A, and 2) a \$400,000 contract to perform a RCRA Corrective Measures Evaluation (CME) for cleanup of Material Disposal Areas (MDAs) G and L. The three MDAs have wastes disposed of in pits, shafts, trenches, impoundments, underground tanks, and container storage pads. Waste types include both organic and inorganic RCRA and TSCA hazardous wastes and low level radioactive waste.

Material Disposal Area A, RCRA Facility Investigation

Pro2Serve provided necessary planning and permitting documents and performed the RFI fieldwork including geophysical and radiological mapping surveys, surface and subsurface soil sampling, bedrock fracture trace analyses, and soil vapor sampling and analyses. Collection of some samples included drilling 45-degree angle borings and sampling beneath a Hazard Category II nuclear facility.

After sample analysis, Pro2serve Samples determined the nature and extent of soil and vapor contamination at the site and compared exposure point concentrations compared to New Mexico Environment Department (NMED) screening levels to determine if contaminants pose current or potential risk to human or ecological receptors.

Pro2Serve completed the data analysis, risk evaluation, and preliminary remedial alternatives analysis and submitted the completed RFI Report to NMED within seven weeks of completion of the field program.

Material Disposal Areas G and L, Corrective Measures Evaluations

Pro2Serve is providing engineering and modeling expertise to identify and evaluate various corrective action alternatives to manage risks to acceptable levels for two mixed waste material disposal areas. The evaluations constitute CMEs. Upon review of the existing RFI, it was learned that a significant area and volume of contaminated equipment and materials were not characterized, and possible releases of contamination to the environment were not fully investigated. Pro2Serve has initiated an investigation to complete evaluation of the nature and extent of contamination.

The existing RFI included preliminary remediation alternatives. Pro2Serve is currently preparing RCRA CMEs for restoration of MDAs G and L. We have identified technologies beyond those presented during the RFI and are currently screening these for effectiveness, implementability, and cost; identifying the most suitable technologies for further development into fully protective corrective measure alternatives, and screening them to determine the most suitable combination of alternatives; and applying value engineering concepts that balance technical needs and cost savings. Through effectively applying the VE processes, lessons learned, and our extensive experience with chemical and radiological contamination, Pro2Serve is reducing project costs and facilitating an expedited project completion.

