

## JAMES ROY MURRAY III, PE

### Education

BS – Civil Engineering, Texas A & M University, 1985

### Professional Licenses

Professional Engineer – Texas, license no. 73860  
Professional Engineer – Maryland, license no. 17665



*J. Roy Murray*

### Professional Affiliations

Solid Waste Association of North America  
Texas Solid Waste Association of North America

### Professional Experience

Mr. Murray has four decades of experience in civil and environmental permitting, design and construction including municipal and industrial solid waste landfills and associated systems, liner systems, leachate collection systems, utilities, roadways, hydrologic analysis and hydraulic design including open channel systems, storm drainage pipe systems, culverts, bridges, basins, and other systems for the conveyance and control of stormwater. He has served as design and Certifying Engineer for over 50 landfill cell construction projects.

Mr. Murray wrote manuals for the operation, design and construction of municipal solid waste landfills for a Commission of Central American countries and USAID. He also has extensive experience in landfill design, operation and construction, having served for over 30 years as a consultant preparing landfill expansion permit applications. Mr. Murray has served as an expert witness and provided legal support for landfill permits. He has also served as a resident engineer for several landfill facilities in Texas. Responsibilities included project management of permit amendments and modifications, compliance and construction. Selected projects representative of Mr. Murray's experience include:

#### **Environmental Design and Permitting**

**Oil and Gas Waste Processing and Disposal Facilities, Greenfield Facility Design.** Design Engineer and project manager for the preparation of design plans and technical specifications for an initial landfill facilities, including: roads; drainage channels, ponds, culverts, site utilities; perimeter fencing; landfill disposal cells and other processing facilities for 7 greenfield facilities.

**DeWitt County, Texas, Oil and Gas Waste Separation and Disposal Facility, Permit Expansion.** Design Engineer and project manager for the preparation of a permit renewal and expansion of a 200-acre oil and gas waste separation and disposal facility.

**Oil and Gas Waste Processing and Disposal Facilities, Permit Revision and Renewal.** Design Engineer and project manager for the preparation of permit revisions and renewals for 6 oil and gas waste processing and disposal facilities.

**Oil and Gas Waste Processing and Disposal Facilities, Disposal Cell Design and Construction Quality Assurance.** Design Engineer and project manager for the preparation of design plans, bid documents and CQA for 15 disposal cells at oil and gas waste processing and disposal facilities.

**Williamson County, Texas, Expansion Permit Application.** Design Engineer and project manager for the preparation of a vertical and horizontal expansion permit application for a 575-acre landfill in Hutto, Texas.

**Webb County, Texas, Greenfield Landfill Permit Application.** Design Engineer and project manager for the preparation of a 500-acre greenfield site permit application for a landfill in Laredo, Texas.

**Williamson County, Texas, Expansion Permit Application.** Design Engineer and project manager for the preparation of a vertical and horizontal expansion permit application for a 575-acre landfill in Hutto, Texas.

**Bexar County, Texas, Vertical Expansion Permit Application.** Project Manager for the preparation of a 30 foot vertical expansion permit application for a landfill in Converse, Texas.

**Bexar County, Texas, Horizontal Expansion Permit Application.** Project Manager for the preparation of a 700 acre horizontal expansion permit application for a landfill in Converse, Texas.

**Galveston County, Texas, Expansion Permit Application.** Design Engineer and project manager for the preparation of a horizontal and vertical expansion permit application for a landfill in League City, Texas.

**Cameron County, Texas, Expansion Permit Application.** Design Engineer and project manager for the preparation of a horizontal and vertical expansion permit application for a landfill in Brownsville, Texas.

**Victoria County, Texas, Grit Trap Waste Permit Application.** Design engineer and project manager for a grit trap waste permit application at a waste water treatment facility in Victoria, Texas.

**Vera Cruz, Mexico, Industrial Waste Facility Design.** Design Engineer and project manager for the preparation of design plans and technical specifications for a 22-acre industrial waste landfill disposal cell for a landfill in Jaltipan, Vera Cruz.

**Butler County, Ohio, Superfund Site Design.** Design Engineer for the design and preparation of construction plans, specifications, and construction documents for temporary stormwater facilities associated with three 8-acre low level radioactive material disposal cells in Fernald, Ohio.

Design Engineer and project manager for the preparation of design plans and technical specifications for over 30 landfill disposal cell construction projects.

Design Engineer and project manager for the preparation of design plans and technical specifications for over 7 landfill final cover construction projects.

Project manager for the preparation of design plans and technical specifications for leachate evaporation ponds and leachate forcemain systems at 6 landfills.

## **Construction Quality Assurance**

Certifying engineer for over 43 cell construction project consisting of over 300 acres of composite liners.

## **Expert Witness and Legal Support**

Provide expert witness services in an administrative hearing in support of a 499-acre greenfield landfill permit amendment in Laredo, Texas. Mr. Murray provided testimony in support of many aspects of the proposed facility's location and design. This included testimony on traffic, flood plains, landfill layout, stormwater analysis and design, landfill gas monitoring system, leachate collection system, and site operating plan.

Provide expert witness services in an administrative hearing in support of a 373-acre landfill expansion permit amendment in Hutto, Texas. Mr. Murray provided testimony in support of many aspects of the proposed facility's location and design. This included testimony on surrounding land use, traffic, flood plains, landfill layout, stormwater analysis and design, landfill gas monitoring system, leachate collection system, and site operating plan.

Provide expert witness services in an administrative hearing in support of a landfill expansion permit amendment in Austin, Texas. Mr. Murray provide expert witness support for the landfill stormwater analysis and design.

## **Publications and Presentations**

Murray, J. R., "Manual De Protocolo De Construccion Nuevos Rellenos Sanitarios Con Revestimientos Compuestos (Construction of New Sanitary Landfills with Composite Liners)", Comision Centroamericana de Ambiente Y Desarrollo and United States International Development (USAID), November 30, 2010.

Murray, J. R., "Manual De Protocolo De Operacion Nuevos Rellenos Sanitarios Para Desechos Solidos (Inspection Protocol for Construction and Operation of Landfills, Operation of New Sanitary Solid Waste Landfills)", Comision Centroamericana de Ambiente Y Desarrollo and United States International Development (USAID), September 2011.

Murray, J.R., "Leachate Evaporation Ponds: Planning and Design" SWANA Webinar, November 12, 2014.

Murray, J.R., "Leachate Evaporation Ponds: Planning and Design" SWANApalooza, Landfill Symposium, New Orleans, Louisiana, March 15, 2015. Gardner, R. B., & Rogoff, M. J., "Trends in Solid Waste Collection Part I- What's the Future", MSW Management, March/April 2015.