

**Client:**  
Chevron  
Environmental  
Management  
Company

**Project Duration:**  
2000–2008

**Project  
Constructed  
Value:**  
\$60 million

**Parsons’  
Services:**  
Environmental  
project manage-  
ment, life-cycle  
cost evaluation,  
strategic planning,  
assessment, engi-  
neering studies,  
design, construc-  
tion and  
subcontractor man-  
agement, project  
controls, and digi-  
tal business  
solutions.



ChevronTexaco (CVX), one of the world’s largest integrated energy companies, has multiple operating divisions producing energy from natural resources throughout the world, including oil and gas exploration, production, and transportation; refining and retail service stations; and chemical manufacturing, sales, and power production. When CVX needed engineering consulting services on their extensive portfolio, Parsons was one of five key firms selected for their program. Chevron Environmental Management Company (EMC) is the organization within CVX that is responsible for managing CVX’s environmental liabilities. EMC ensures that CVX manages the cleanup of soil and groundwater contamination safely and cost-effectively. This group manages environmental remediation activities at nearly 6,000 sites within the United States. In addition to these sites, EMC represents CVX on 300 Superfund sites that have multiple responsible parties—Superfund is the Federal government’s program to clean up the nation’s uncontrolled hazardous waste sites.

EMC chose Parsons based on our commitment to safety, competitive rates, resource capacity, and quality reputation. Parsons is committed to incident-free operations (IFO) based on EMC’s tenets: assess, analyze, and mitigate risks before you act; stop unsafe behaviors and correct unsafe conditions; prevent spills or leaks of any size; and comply with applicable governmental regulations.



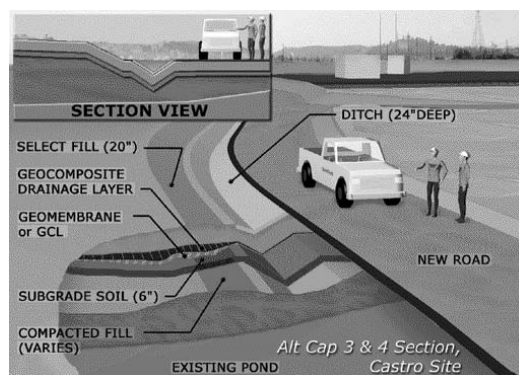
Since April 2000, Parsons has provided more than 300,000 IFO hours of environmental engineering, procurement, and construction services and has been assigned over 80 projects. We are currently retained at several major facilities in California, Mississippi, New Jersey, Ohio, and Texas. The following projects highlight our contributions to EMC.

#### *Project Controls*

Because the 15 major refinery sites represent nearly one-third of the total amount of environmental dollars spent each year by CVX, EMC recognized a need for a project controls system tailored to enter and main-

*Photo: Landfill construction, Texas*

*Graphic: Alternate cap section, California*



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tain cost and schedule data specific to these facilities. EMC turned to Parsons to design an internet-based solution called PC-MIS (Project Controls-Management Information System). PC-MIS was designed to support data entry and management of project budgets, costs, and schedules for a select group of major sites totaling \$110 million per year. Parsons developed the interfaces to support the import of cost data from other EMC consultants' accounting systems and scheduling data into PC-MIS. The PC-MIS consolidates financial reports across all RCRA sites and provides a common and single repository for project information. The project was completed on time and under budget. In addition to maintaining the PC-MIS system, Parsons is providing project cost and schedule control management on \$60 million of annualized spending on the environmental program at four major refinery sites. As part of this management control program, Parsons provides procurement and subcontract administration services and manages 100 subcontracts with \$20 million per year of expenditures.

#### *California Site*

Parsons is conducting a field investigation study for a 190-acre site at a former chemical plant in California. The site assessment data will be used to support a feasibility evaluation of the site. In addition we have conducted hydrologic and hydraulic evaluations of this site. Parsons is evaluating the hydraulic capacity of local creeks and options for handling potentially contaminated stormwater runoff. Additionally, we are the remediation contractor for filling non-regulated ponds at the plant. Parsons negotiated the

delivery and managed the placement and compaction of more than 275,000 cubic yards of clean fill. Fill material was delivered in bottom dump trailers at up to 1,100 truckloads per day. Construction value is estimated at \$2.5 million.

#### *New Jersey Site*

Parsons is responsible for a \$10-million closure of two basins located on 13 acres at a refinery in New Jersey. The project includes dewatering the basins, solidifying 60,000 cubic yards of sludge within the basins, consolidating all the solidified sludge into a two-acre site, installing a slurry wall around the site, and installing a multilayer cap. The residual sludge and impacted soil from both basins have been treated (stabilized), consolidated, and contained in the smaller two-acre former surge pond. A low-permeability slurry wall will be constructed around the entire footprint of the surge pond and keyed at least three feet into the naturally occurring clay layer underlying the area. The surge pond will then be capped with a multilayer soil and geosynthetic cover system. Parsons has worked with EMC to ensure that CVX's refinery operations are not impacted during the remedy construction.

EMC views their preferred consultants as partners in managing their extensive environmental portfolio. CVX's National Environmental Services Program allows us to use all of our resources and disciplines to solve EMC's more complex and challenging sites. As a preferred consultant, we have the opportunity to meet their needs and forge a professional relationship with a world-class company that appreciates the skill sets and expertise of our environmen-

*Left: Filling non-regulated ponds, California*



*Right: Sludge stabilization, New Jersey*

