Gabe Luna, P.G.

Project Manager

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Areas of Specialization

- Project management
- Risk-based corrective action
- Mining Operations and Compliance
- Development and implementation of soil, groundwater and soil gas sampling and monitoring programs
- Brownfield redevelopment
- Environmental site assessments
- Vapor intrusion assessments
- Regulatory policy compliance
- Conceptual site model development
- Corrective action decision making
- Environmental impact assessments
- Implementation of various remedial technologies including multiple phase extraction systems, in-site chemical oxidation (ISCO), in-situ chemical reduction (ISCR) and enhance in-situ bioremediation (EISB)
- Data evaluation and technical report writing/review
- Surface water monitoring

Overview of Project Experience

• Applied environmental project experience since 1999.

Linear Energy Infrastructure Installation (2017-Current)
 In charge of managing a team of fourteen professional geologists for a major linear energy infrastructure project in the Mid-Atlantic region. Primary duties involve the oversight of horizontal directional drills to ensure compliance with Water Obstruction & Encroachment and Erosion & Sediment Control permits. Geologists also assess impacts to surface and groundwater resources due to the accidental release of drilling fluids. Clear communication, prompt responses, flexibility and the effective management of continuously changing scenarios are required for the successful performance of the project.

Acid Mine Drainage Project, Potomac River, Maryland (2011-2014) Lead geologist for a project in western Maryland concerning a seep contributing acid mine drainage to a tributary of the North Branch Potomac River. AMD emanating from the seep was managed by a lime dozer until a sudden increase in flow rate and decrease in water quality overwhelmed the treatment system resulting in a downstream fish kill. Investigated potential causes, developed a site conceptual model and recommended additional follow-up studies for consideration by state regulators.

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Education

B.S., Environmental Geoscience University of Notre Dame, 2001

Registration/Certification

Pennsylvania Registered Professional Geologist PG005080

OSHA certified Hazardous Waste Operations and Emergency Response (HAZWOPER per 29 CFR 1910.120), 2007

OSHA 8-hour HAZWOPER Refresher Training, 2015

Numerous continuing education seminars on site assessment/ remediation issues and regulatory review for state and federal programs



Overview of Project Experience (continued)

 Environmental and Social Impact Assessment – Strip Mine, Loma Miranda Massif, Dominican Republic (2010-2013)

Lead hydrogeologist for an impact study pertaining to a proposed mountain top nickel strip mine. Designed stream and spring monitoring network to evaluate surface water flow and water quality. Implemented groundwater sampling programs. Designed extension of groundwater monitoring network within the proposed project site. Synthesized and evaluated surface and groundwater data for determination of potential impacts posed by the project. Proposed mitigative measures to reduce the severity of the impacts.

- Environmental and Social Impact Assessment Strip Mine, Nassau Plateau, Suriname (2009-2012)
 Lead hydrogeologist for a study focusing on potential impacts to groundwater and surface water resources
 due to the planned development of a bauxite strip mine. Designed, installed and collected data from an
 extensive network of groundwater piezometers and stream gauging stations. Developed hydraulic and water
 quality monitoring program and advises local technicians on implementation. Evaluate and reported on data
 collected in the field to assess impacts and offered mitigative measures.
- Lead geologist for several international environmental and social impact assessments of water resources at locations in South America, Central America and the Caribbean.
- Project manager for several sites pursuing a release of liability through Pennsylvania's Land Recycling and Environmental Remediation Standards Act (Act 2).
- Direct project experience on RCRA, CERCLA, UST, VCP and Brownfield sites.
- Experienced with Phase I and Phase II environmental assessments.
- Project manager for multiple indoor air, sub-slab vapor and soil-gas vapor studies including risk analyses and risk modeling.
- Project Manager for a groundwater and soil remediation project at an oil and coal-fired electric power generation facility in Delaware associated with a subsurface spill of 600,000 gallons of fuel oil. Guided project through remediation and risk-based closure requirements with site entering into a long-term stewardship phase.
- Project manager for a release of No. 2 fuel oil at an oil and natural gas cogeneration power plant in Bethlehem, PA. Successfully granted a No Further Action designation under Chapter 245 in less than 6 months from the time of the release.
- Managed the soil and groundwater assessment and remediation of a Maryland-based oil and coal-fired electric power generation facility associated with the subsurface spill of fuel oil. Negotiated work scopes and remedial strategies with the MDE including ISCO, Total Phase Extraction of oil and groundwater, and long-term MNA. No Further Action issued by state regulator.
- Conducted site characterization/remedial design/feasibility study/remedial implementation efforts at a
 former micro-processor manufacturing facility. Responsibilities included the development of a complicated
 conceptual site model to determine the fate and transport of chlorinated solvents within a karst
 hydrogeologic setting.
- Over 6 years of experience working with the US Geological Survey Water Resources Division as a hydrologist. Managed stream gaging stations throughout Kansas and Alaska as part of a nationwide streamflow monitoring network. Duties included the establishment of monitoring stations, performance of water quality studies and processing/reporting of hydrologic data.

