

Charles (Chip) P. Halbert, PE

Senior Principal



Expertise

Regulatory strategy

Environmental permitting

Air quality evaluation and permitting

Human health risk assessment

Environmental engineering

Education

MS, Environmental Engineering, New Mexico Institute of Mining and Technology

BS, Environmental Engineering, New Mexico Institute of Mining and Technology

Registration

Professional Engineer (Env.): 2002/Washington, No. 38931; Professional Engineer (Env.): 2003/Oregon, No. 74068PE

Chip has more than 19 years of experience with Landau Associates, Inc. in environmental engineering with a focus on full-service environmental permitting, air quality impact evaluations, human health risk assessment, environmental statistics, and site investigation and remediation. He has led the environmental permitting activities for several proposed and operational industrial and commercial facilities, including negotiation of permit conditions with federal, state, and local regulatory agencies. His air permitting experience includes the preparation of air emissions inventories, conducting process-based potential-to-emit (PTE) evaluations, recommending alternative process and pollution control design options for cost savings and air emissions reductions, coordinating stack testing with subcontractors, conducting health impact assessments for site-specific evaluation of risks associated with toxic air pollutants, and permit negotiation. Chip is Landau Associates' Environmental Permitting Director and has a strong track record helping clients achieve their operational goals while maintaining compliance with environmental regulations. Representative experience is summarized below.

MYTAPN v. Washington State Department of Ecology; Yahoo! Data Center, Air Quality Permitting Expertise in Support of Litigation; WA. Chip provided expert support to Yahoo! Inc. (Yahoo!) in defense of a lawsuit challenging an air quality permit issued to Yahoo! by the Washington State Department of Ecology (Ecology). The lawsuit raised 12 legal issues, contending that Yahoo! and Ecology had violated the requirements of state and federal law relating to the evaluation of and compliance with air quality standards. Chip evaluated the technical aspects of the legal challenge and prepared two declarations in support of Yahoo!'s motion for summary judgment. The Washington State Pollution Control Hearings Board granted summary judgment to Yahoo! and Ecology on all 12 legal issues.

Confidential Clients, Multiple Data Centers; Nationwide. Chip has managed the air quality permitting process for several large-scale data centers in the United States. Services have included site selection support, environmental due diligence, geotechnical engineering, environmental impacts documentation, and air quality and wastewater permitting. Air permitting processes have included evaluation of ambient air impacts associated with large backup diesel generators (combined for over 100 megawatts of generation capacity at some facilities) under minor or synthetic minor air permitting processes. Compliance with air quality standards has been achieved through coordination with facility design teams (implementing engineering controls and demonstrated using accepted air dispersion modeling practices, second and third tier health impact assessments for diesel particulate matter (DPM) and nitrogen dioxide (NO₂), and when necessary, through coordination with regulatory agencies to develop alternative statistical modeling approaches (e.g., Monte Carlo analysis).

Confidential Engine Test Laboratory; Puget Sound Area, WA. Chip managed the environmental permitting elements (air, stormwater, wetlands, SEPA documentation, Joint Aquatic Resource Permit Application, and forest practices) for the development of a new engine testing laboratory at an existing facility. Time-critical permitting elements that defined the viability of retaining this development in the Puget Sound area (instead of at an out-of-state campus) included air permitting and the permitting of waterway impacts through the US Army Corps of Engineers (USACE). Air permitting support included a health impact assessment to demonstrate compliance with risk-based criteria for DPM. LAI's re-evaluation of the proposed project approach and permitting strategy allowed permitting through the USACE to be completed in 7 months instead of 18 months.