

PROJECT PROFILE

REMEDIAL INVESTIGATION/FEASIBILITY STUDIES FOR AVIANO AIR BASE

The Aviano Air Base is Italy's oldest airport, having been in continuous operation since 1911. Aviano Air Base is located in the northeastern part of Italy, at the base of the Italian Alps, about 32 kilometers north of Pordenone. Aviano Air Base has an aging infrastructure, much of which was constructed in the 1950s through the 1970s.



D'Appolonia drilling/sampling operations at Aviano Air Base.

Since 1995, D'Appolonia has investigated subsurface contamination and developed remedial cleanup designs for 18 separate areas located at sites for which the Aviano Air Base is responsible. Of these 18 sites, eight were lo-

cated within the facility itself and an additional ten sites, referred to as Geographically Separate Units (GSUs), were located away from the base. The D'Appolonia studies were conducted as part of multiple contracts, which through 1999 were held directly with the U.S. Air Force in Europe (USAFE). Since 1999, this work has been performed in association with CH2M Hill. D'Appolonia's billings since 1995 related to Aviano Air Base environmental studies have exceeded \$7.5 million.

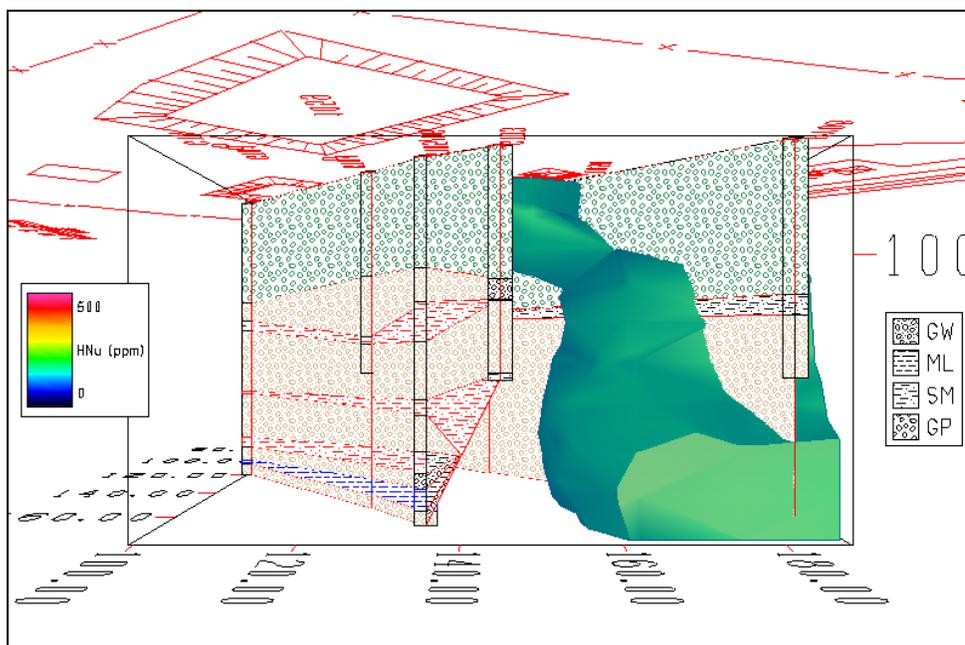
D'Appolonia has been responsible for numerous Remedial Investigation/Feasibility Studies (RI/FSs) at the Aviano Air Base. These efforts typically included a review of historical documenta-

tion, geophysical surveying, soil gas measurements, sediment sampling/analysis, drilling and sampling and monitoring well installation and sampling/analysis. This work has included field activities:



Geophysical surveying at Aviano Air Base.

- 3.2 hectares of geophysical coverage including EM-61 deep metal detection, DC resistivity profiles, EM-31 conductivity measurements, and ground penetrating radar;
- 548 borings totaling more than 5,000 meters of drilling;
- 168 test pits excavated for surficial sampling; and
- 1195 samples collected for external laboratory analysis.



Three-dimensional view of soil gas plume at the POL Yard area. The plume is superimposed on a fence diagram of the subsurface soil horizons. This type of modeling was used as a tool for remediation planning.

All of the RI/FS work has involved development of comprehensive Work Plans, including the Quality Assurance Project Plans (QAPPs) and Health and Safety Plans (H&SPs), prepared in accordance with Air Force Center for Environmental Excellence (AFCEE) standards, as well as Italian National standards and U.S. Environmental Protection Agency standards.

In addition to the RI/FS studies, a program of bioventing for intrinsic remediation was implemented at the Aviano Air Base POL Yard site. D'Appolonia also designed a composite cap system for the former Fire Pit. Since the work initiated in 1995, D'Appolonia has continuously held contracts for environmental studies that are projected to extend at least through 2007.