

**COLORADO VOLUNTARY CLEANUP (VCUP)
AND RESOURCE CONSERVATION RECOVERY ACT (RCRA) STREAMLINED
CORRECTIVE ACTION PLAN SITES PROJECT CAPSULES**

1. VCUP Application - Shopping Center, Aurora, Colorado

While at another firm, Paragon personnel performed assessment relative to a dry cleaners site in strip mall shopping center. The team performed site assessment and historical review; installed monitoring wells along sewer lines on and off property in city rights of way. Installed in-situ air sparge (IAS) and soil-vapor extraction (SVE) wells; performed pilot testing; submitted Voluntary Clean-up (VCUP) Application for IAS, SVE and monitoring. The VCUP application was approved by Colorado Department of Public Health and Environment (CDPHE). The team designed, specified, bid and operated IAS and SVE system at the site.

2. VCUP Application - Shopping Center, Boulder, Colorado

While at another firm, Paragon personnel performed assessment relative to numerous off-site and historic dry cleaning/solvent sources that were impacting a large shopping center property. The assessment involved a direct-push groundwater survey with on-site analyses of volatile organic contaminants (VOC) from approximately 50 probe locations as well as included installation of soil borings and monitoring wells and coordination with local government regarding access. The on-site petroleum hydrocarbon contamination was separated from a former underground storage tank from the VOC contamination. Reimbursement funding for the petroleum portion of the assessment was obtained from the Petroleum Storage Tank Fund. No-Action-Determination Status was obtained from the CDPHE through the VCUP process since VOC contamination was shown to be from off-site sources.

3. VCUP Applications – Property on the Site of a Former Reduction Works, Colorado Springs, Colorado

Paragon attended meetings with attorneys, the CDPHE and the Environmental Protection Agency; performed site visit; and reviewed technical documents. Assessment tasks included preparation of a VCUP Risk Assessment Report for entire site; a tenant walk through; completing test pit excavations; collecting and logging soil samples; reviewing test pit soil sample results, coordinating and observing drilling activities; and developing and sampling groundwater monitoring wells. Based on the assessment results and meetings with the regulatory agencies, Paragon developed a strategy of completing VCUPs for smaller parcels to carve out the impacted portions of the larger property.

Paragon prepared a VCUP assessment dated June 10, 1999 relative to Lot 1 at Midland Greens. Field activities consisted of excavating nine (9) test pits; installing three (3) groundwater monitoring wells; completing one (1) soil boring on the Lot 1 property and coordination with the CDPHE. No-Action-Determination Status was granted by the CDPHE for Lot 1 in 1999 based on these assessment results.

Paragon prepared a VCUP assessment dated June 30, 2000 relative to Lot 3 at Midland Greens. Lot 3 is located at the southwest portion of the Midland Greens property. Six (6) test pits and three (3) monitoring wells were installed at Lot 3. Based on the subsurface assessment performed for Lot 3, the CDPHE granted No-Action-Determination Status for Lot 3.

4. VCUP Application - Property, Adams County, Colorado

Paragon performed file reviews at CDPHE; coordinated regarding sampling schedule, site plan, database and historical review; traveled to/from site; collected and analyzed groundwater sample; coordinated with CDPHE and finalized and submitted VCUP report and obtained No-Action-Determination Status from the CDPHE.

5. VCUP Application – Fleet Maintenance Center, Denver, Colorado

Paragon performed a VCUP assessment that include assembling historic and technical information; drilling and sampling wells inside building, and successfully petitioned for No-Action-Determination Status while separating off-site solvent contamination from on-site petroleum contamination.

6. VCUP and Redevelopment Act Application – Former Amoco Station, Northglenn, Colorado

Paragon installed soil borings and monitoring wells; collected and analyzed soil and groundwater samples; identified VOC and petroleum contamination in groundwater from used-oil tank; prepared database and historical review; coordinated with CDPHE; performed a risk assessment; and finalized and submitted VCUP report. A No-Action-Determination Status was obtained from the CDPHE based on the risk assessment presented in the VCUP Application.

7. VCUP Application – Dry Cleaner, Denver, Colorado

Paragon performed a VCUP assessment that include assembling historic and technical information; drilling and sampling wells inside building, and successfully petitioned for No-

Action-Determination Status while separating off-site solvent contamination from on-site petroleum contamination.

8. VCUP Application – Dry Cleaner, Grand Junction, Colorado

Paragon performed a VCUP assessment that include assembling historic and technical information; drilling and sampling wells inside building, and successfully petitioned for No-Action-Determination Status while separating off-site solvent contamination from on-site petroleum contamination.

9. RCRA Streamlined Corrective Action Plan (SCAP) – Former Car Dealership, Golden, Colorado

VOC contamination in groundwater associated with a used-oil tank was discovered during routine drilling activities. Paragon installed bracketing and in-plume monitoring wells; collected and analyzed soil and groundwater samples; performed quarterly monitoring; completed a database and historical review; coordinated with the CDPHE; performed a risk assessment; and finalized and submitted RCRA SCAP report and quarterly monitoring reports. No-Further-Action Status was obtained from the CDPHE based on sampling results, natural attenuation and the risk assessment.

10. RCRA SCAP – Dry Cleaner, Denver, Colorado

Paragon performed a review of prior technical reports installed monitoring wells; collected and analyzed soil and groundwater samples; collected and analyzed interior soil samples; performed quarterly monitoring; completed a database and historical review; coordinated with the CDPHE; performed a risk assessment; and finalized and submitted Stream-lined RCRA CAP quarterly reports. No-Further-Action Status was obtained from the CDPHE based on sampling results and the risk assessment.

11. VCUP Application – Property, Wheat Ridge, Colorado

Paragon performed a review of prior technical reports; collected and analyzed groundwater samples; completed a database and historical review; coordinated with CDPHE; performed a file review at the Oil Inspection Section (OIS); completed a risk assessment; and submitted VCUP Application. No-Action-Determination Status was obtained from the CDPHE based on sampling results and the risk assessment.