



## The Evolution of 3 Phase Decontamination™ for Extraction

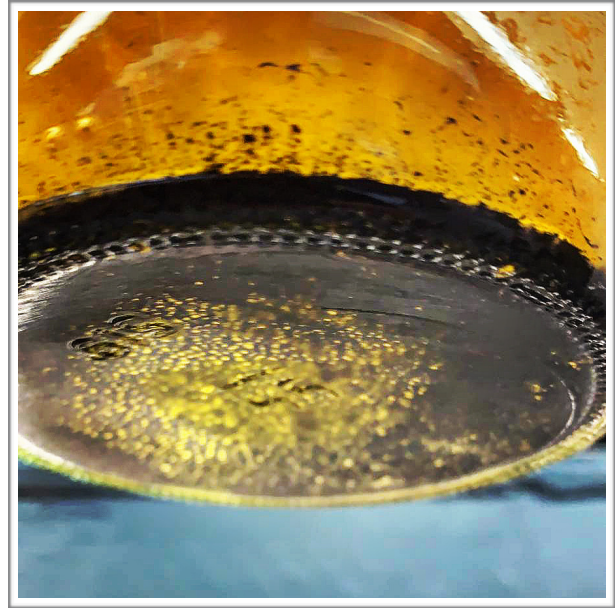
In the early days of chemical extractions the industrial handling of instrument grade gases caused health, safety and compliance concerns for extractors. Standards such as FDA CFR Section 211.80 to Section 211.94 called for the cleaning and disinfection of medical cylinders such as Oxygen and Nitrogen, but these gases do not have the inherent petroleum exposures found in Butane, Propane and Isobutane. Traditional cylinder cleaning standards were simply not good enough for extraction.

We set out to find a better way. Working closely with chemical and petroleum engineers, cylinder manufacturers and Purdue University the goal was to engineer a solution designed to maintain a chain of custody that would meet and exceed 99.5%+ instrument grade standards.

After extensive research and development we found a combination of techniques used in the food, chemical and pharmaceutical industries were most effective for regular decontamination of instrument grade LPG cylinders. This research led to the development of our revolutionary **3 Phase Decontamination™** cleanings. "By partnering with an industry leader with 70+ years experience in the North American cylinder market, we were able to quickly build our first cleaning facility and bulk storage site" said President and CEO of Solvent Direct, Lexis Shontz. "This facility was specifically engineered to maintain instrument ratings from the refinery all the way to the end user for extraction gases by effectively cleaning every cylinder, before every refill."

Solvent Direct hydrocarbon specialists carefully disassemble, inspect, decontaminate and dry the entire LPG cylinder and all its parts before every refill preventing the transfer of toxic heavy metal accumulations, cross contaminations and other industrial waste particulate commonly found in industrial LPG cylinders. At Solvent Direct, we certify every cylinder to ensure a complete decontamination of the cylinder before every refill. Certifications are signed off by our technicians on the Certificate of Decontamination which accompanies the Certificate of Analysis.

With a clean COA and a clean COD, Solvent Direct clients are confident the instrument rating remains unaffected by mystery oil accumulations lurking inside LPG cylinders and no longer need to waste time and money distilling out toxic waste accumulations and cancerous heavy metals before running. "Building Solvent Direct organically from the ground up means we have complete control over our supply chain and we make decisions in the interest of safety, purity, staying ahead of industry standards and never based on outside influence. This is our commitment to you."



**Example: industrial waste collected from a "cleaned" cylinder. Not all cleanings are the same.**