



White Phosphorus

White phosphorus in pure form is a colorless or white, transparent, crystalline solid that has been used in poisons, smoke screens, matches, and fireworks, and has been used as a raw material in the production of phosphoric acid. It has been used in smoke-producing munitions since World War I. White phosphorus is thermodynamically unstable in the presence of atmospheric oxygen. As a result, until recently, the prospect of long-term environmental contamination from smoke munitions was considered unlikely. However, a catastrophic die-off of waterfowl at a US military facility has been traced to the presence of P4 in salt marsh sediments, and led to the realization that P4 can persist in anoxic sedimentary environments.

ALS provides quick and accurate low-level analysis of white phosphorus:

- Analysis by Method 7580 using gas chromatography
- Flame photometric detection (FPD) - a selective detector for phosphorus
- Routinely used for federal programs
- Low PQLs
- Rapid turnaround times available

	Limits in Water (7580)	Limits in Soil (7580)
Practical Quantitation Limit (LOQ):	0.05 µg/L	0.5 µg/Kg
Sampling Volume:	500 mL	4 oz
Sampling Container:	500 mL Amber glass	4 oz Amber (soil)
Preservative	4°C	4°C

SERVICE

- On-time data delivery and rapid TAT
- Experienced staff with expertise
- Available after-hours and weekends

VALUE

- Instant access to data with Webtrieve™ and Webtrieve™ Mobile App
- Custom bottle kits with pre-printed labels and COCs

RELIABILITY

- Technical experts that can answer your most difficult questions
- A real focus on quality and process control with a rigorous QA/QC program

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