



## Professional Development

As EP Analysis is a independently owned business, we are flexible in our services and are happy to accommodate your needs. If you have any special projects or unusual jobs please feel free to contact us and we will try to help.

## Professional Memberships and Affiliations

NATA

ASPAC

GLOBAL PROFICIENCY

LEADA

CASANZ

ADIA

Publications: J. Justin Gooding, Alison Chou, Freya J. Mearns, Elicia (Leh-See) Wong and Kellie L. Jericho, (2003) *The ion gating effect: using a change in flexibility to allow label free electrochemical detection of DNA hybridisation*. The Royal Society of Chemistry, 2003, pp 1938-1939

# EP Analysis

Business Profile



## A Unique Combination with experience in Industrial Field Service Work, coupled with Analytical Services.

EP Analysis offers an environmental sampling and analysis service useful for clients who need sampling and raw data in their environmental studies. We provide raw data in formats usable to consultants including Piper Diagrams, Durov Diagrams and Time Plots (for monitoring). Providing raw data only, we are a useful tool for consultants who need the field work taken care of so they can concentrate on interpretations and recommendations for their clients.

We also have a laboratory in Cummins which is equipped for a range of water, plant, dust and soil analysis. We are involved in proficiency testing programs through our affiliation with ASPAC and are NATA accredited for a range of sampling and analysis methods.

**NATA Accreditation No: 17220**

Situated on Eyre Peninsula we can assist in non-routine or routine sampling and save clients from making trips over here for quick investigations or long term monitoring services.

### Key Staff and Relevant Experience

#### Technical and Laboratory Manager, Kellie Taylor

Oil and Gas; Laboratory (drilling fluids and water analysis and R&D), Field Services, drilling for Oil/Gas/Coal Seam Methane.

Mining; Laboratory (ore analysis), environmental rehabilitation of sites post drilling, site preparation, exploration drilling, sample preparation.

Environmental; Project management, Environmental quality assessments (Groundwater), sampling and testing Soils/Waters/Dust.

Biology; Laboratory (Bacterial Growth, Media Preparation & Sampling)  
Agricultural; Laboratory (Nutrient Analysis of Soil/Plant Tissue and Water)

#### Field Manager, Anton Taylor

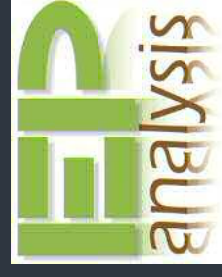
Mining; Shut Down work, maintenance and mechanical repairs on mobile equipment up to 300 tonne.

Environmental; sampling Soils/Waters/Plant Tissue and Dust.

Oil and Gas; Well Services, Shut Down work and Offshore Maintenance.

Agriculture; Broad Acre Farming.

Construction; Installation of Mills/Conveyor Systems/ Process Plants and Maintenance and mechanical repairs on Plant and Construction equipment.



**Solutions for Regional Investigations.**

EP Analysis contract sampling and laboratory services are independent and offer a tailored service to:

- Agriculture
- Aquaculture
- Environmental
- Mining
- Waste Industries



26 Railway Tce, Cummins, SA, 5631  
Telephone: 0428 762972 or 0439 188 354  
Email: [info@epanalysis.com.au](mailto:info@epanalysis.com.au)  
Website: [www.epanalysis.com.au](http://www.epanalysis.com.au)





## Sampling Equipment Overview

Gemco 210 Drill Rig  
 Micropurge Sampling Kit  
 Water Grab Sampler  
 Discrete Water Sampling Kit  
 Solinst Water Level Meter  
 TPS pH, Temp, Cond, Sal, DO Meter  
 Dust Deposition Gauges as per AS3580.10.1  
 0-10 cm push sampler  
 0-30cm push sampler

Please note: we are also able to offer supply of Dust Deposition Gauges as per AS/NZS 3580.10.1:2003



## Services Available

Ask us about Tailoring Packages to your needs.

Some highlights from our NATA scope include accreditation to sample all water bodies including;

Seawater, Groundwater, Surface Water, Trade waste including field measurements (pH, EC, DO, Temp, Turbidity) of each.

Contaminated Soil and Heavy Metal Soil sampling.

Air Monitoring Equipment siting and Deposited Dust Monitoring.

For the Acid Sulfate Soils, accreditation for pH<sub>i</sub> and pH<sub>tox</sub>.

Routine water monitoring analysis including pH, EC, TDS, Major Ions, Nitrogen and Phosphate.

An overview of our services includes:

**Sampling**  
 Groundwater  
 Seawater  
 Surface Water  
 Dust  
 OH&S  
 Contaminated Soils  
 Heavy Metals in Soils  
 Geotechnical

**Monitoring**  
 Water Quality  
 Groundwater Level  
 Ambient Air  
 Dust – including supply of equipment.

“Applying Science in Industry is about getting results that are relevant to a problem or situation at hand without interfering with productivity.”

### Analysis – Waters

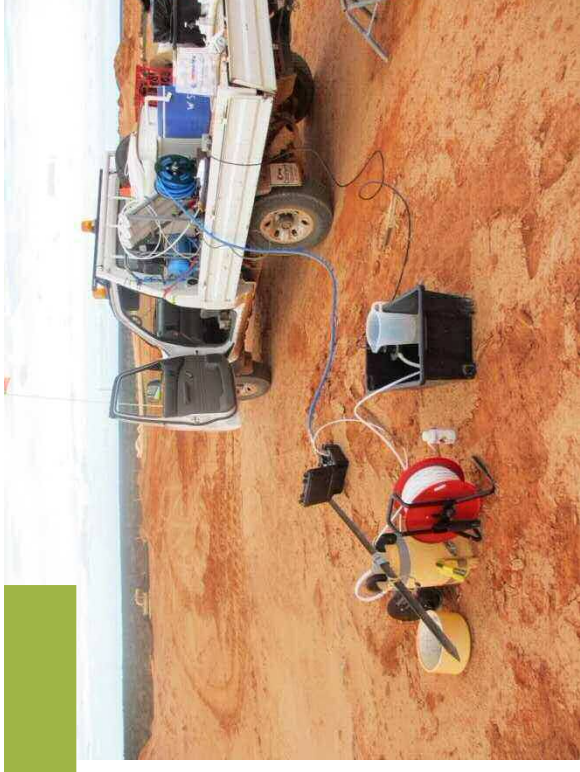
Total P, Total S  
 Nitrogen; TKN, NOx, NH3  
 Oil and Grease  
 TSS, Turbidity  
 BOD, TOC  
 PAH, VOC, BTEX, TRH  
 Phenols, PCB, OCP, OPP  
 Heavy Metals  
 E. Coli, Total Coliforms

### Analysis – Dust

Total, Insoluble, Soluble, Combustible, Ash, Heavy Metals

### Analysis - Soils

Acid Sulfate; pH<sub>f</sub>/pH<sub>ox</sub>, Scr  
 Nutrients  
 PAH, VOC, BTEX, Phenols  
 PCB, OCP, OPP  
 Leachate analysis  
 Heavy Metals  
 Microbes (eg. Phytophthora)  
 Nematodes



## Projects

**Groundwater Quality Monitoring:**  
 Quarterly groundwater sampling and analysis for a site comprising of 35 bores and 30 taps ranging in depth to 100m. Typically low recharge, Low flow sampling is performed in accordance with NEPM Groundwater Sampling /Monitoring procedures. Client is provided additional reports on field observations, trends and QAQC data.

**Groundwater sampling and analysis for a proposed landfill site:**  
 Water level monitoring, low flow purging and sampling for establishing background and trigger levels for future investigations.

**Field Technicians**  
 Assisted client with their exploration drilling programs by handling, documenting and preserving soil samples on site.

**Noise Monitoring for EIS:**  
 Assisted consultancy company in their noise collection for EIS study.

**Drinking water for human and stock requirements:**  
 Various water quality testing projects associated with individual landowners as well as Animal Husbandry consultants.

**Acid Sulfate Soil field pH for EIS:**  
 Provide client with field pH analysis.

**Dust Deposition Monitoring**  
 Assisted in the supply and installation of dust monitoring gauges as well as 5 fraction analysis and bottle exchange.

**Piezo Installations:**  
 Installation of Piezo's in restricted access, poor stability area's to monitor for leaks in dam walls.

**Contaminated Soils Investigation:**  
 Potentially contaminated Stockpile sampling and analysis for comparison to Waste Classification Data, reporting results to client with 95%UCL.

**Contaminated Soils Investigation:**  
 Assisted client in test pit logging for a proposed development site riddled with asbestos. Including soil logging, sampling, and air monitoring.

**Contaminated Soils Investigation:**  
 Drilled down, located and sampled potentially contaminated soils searn for VOC, SVOC and metals and provided client with 95%UCL for environmental contaminants as compared to NEPM Site Contamination Schedules.

**Contaminated Soils Investigation:**  
 Sample/Analyse old industrial sites for residential zoning.

## Eye on it Current Industry Trends

EP Analysis has been actively involved in alerting clients to industry news, attending various workshops, courses and information days and then forwarding information learned to interested clients.

## Presentations Clients benefit

EP Analysis is available for private industry specific presentations. Some popular topics have covered:

- ISO 17025, NATA accreditation.
- The fundamentals of Sampling and how to insure your sampling can withstand legal scrutiny.
- Common Sampling errors.
- Dust and Ambient Air Monitoring.
- Agriculture testing versus Environmental Testing.
- Agriculture testing – the benefits of Plant Tissue testing.



## Contaminated Soils – Versatile Sampling in Restricted Access sites.

GEMCO 210 DRILL RIG:  
 Suitable for Geotechnical drilling and Contaminated Site drilling this trailer mounted top drive rig is capable of a range of disturbed, undisturbed, SPT and U50 sampling to approximately 20 m. Coupled with EP Analysis's NATA accreditation for Sampling of Potentially contaminated sites for non-volatile and semi-volatile compounds, this is an ideal choice for flexibility in soil sampling needs.