

IONISING RADIATION AND NORM



MARKET SECTORS



Government



Construction



Property



Waste Management



Resource



Defence

WHAT CAN EPIC DO?

Epic Environmental provides professional advice, assessment and monitoring services on matters relating to the safe use and impact of radiation sources on humans, biota and the environment. We have a multidisciplinary team of skilled and qualified experts, meeting industry requirements for the provision of radiological services.

RADIATION SOURCES

Whether in the resources, industry, medical, research or government sector, many organisations don't realise they may have a need to manage the impacts of ionising radiation. Be it the presence of naturally occurring radioactive materials (NORM), production and processing facilities or waste streams, transporting and disposing of radiopharmaceutical wastes, or meeting regulatory obligations, Epic can guide you on this journey.

Epic facilitates an integrated service delivery platform, combining experts from both health physics and environmental sciences to provide an unprecedented approach in service delivery. We can provide a methodology (including use of our advanced environmental radiation survey spectrometers) that will meet government requirements and deliver on cost and time targets.

Epic has the capability to address your needs and provide sound, cost-effective solutions.

OUR SERVICES INCLUDE

Our radiation health physicist is accredited to certify radiation devices and facilities, is licensed to use and transport radiation sources, and is an authorised Radiation Safety Officer (under the Queensland Radiation Safety Act 1999 and Regulation 2010).

- Environmental radioactivity baseline studies (including reconstruction) and risk assessments including exposure pathway assessments
- Assessment, remediation and rehabilitation of NORM impacted sites
- Expert audit support and investigations on land contaminated by radioactive materials
- Radiation dose reconstruction (post incident or exposure)
- Decontamination and decommissioning of radiation facilities
- Regulatory compliance and surveillance monitoring programs
- Compliance testing (Queensland) of radiation devices and facilities to meet regulatory obligations
- Radiation safety audit and training
- Radioactive waste consolidation and disposal
- Radiobiology and the impact of radioactivity on non-human species
- Assessment of radioactivity in air (radon), foods, groundwater and soils.

OUR EXPERIENCE

With more than 30 years' experience in regulatory, technical and professional health and medical physics service delivery, and with the support of a multidisciplinary team of environmental scientists and engineers, Epic can provide an affordable and fit-for-purpose approach to assist with your project or regulatory compliance needs.

- **Sibelco – Minjerribah** Preparation of environmental site assessments and risk assessments to assess the suitability of mining leases for final land use and demonstrate surrender compliance with the relevant environmental authority. Advice and classification to maximise recovery and re-use of Virgin Excavated Natural Materials (VENM) and Excavated Natural Materials (ENM) generated by a project
- **APP – Byron Bay** Expert peer review services to address and optimise remediation of land contaminated with NORM-impacted heavy mineral sand residues. Minimisation of wastes going to landfill, through innovation, advice and rational and experienced waste classification with associated reduction in landfill resource use, energy use and community impacts
- **McKavanagh Engineering Services** Develop and deliver a focussed radiation safety training program for radiation safety officer applicants.
- **Property of NSW – Byron Bay** Preparation of an environmental site assessment of historical radiological fill material to outline potential environmental liabilities and site management requirements.