

Transport for NSW
Environment Branch | Safety, Environment & Regulation
Northern Project Office



Scott Lawrence
Environment Manager

21 October 2020

Reference: | 0349912_CHB_211020

Dear Scott

Subject: Pacific Highway Upgrade Coffs Harbour Bypass – Environmental Representative

I am pleased to accept Transport for NSW's nomination for the role of Environmental Representative for the Coffs Harbour Bypass project. I confirm that I have had no direct or indirect role in the preparation of the EIS and Submissions Report and the construction, design and delivery of the project.

I have been the Department of Planning, Industry and Environment (DPIE) approved Environmental Representative on 11 projects and provide my curricula vitae for you information and submission to DPIE.

If you require any further information please do not hesitate to contact me.

Yours sincerely,

Murray Curtis
Partner

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Partner

Murray Curtis is an ERM Partner in the Australia and New Zealand business. Murray has professional qualifications in environmental engineering with over 30 years of project experience in Australia, South Pacific and Asia.

Murray specialises in provision of development permitting and compliance. Murray has directed and/or managed over 500 impact assessment and planning projects including environmental impact assessments, management plans, statutory and strategic planning, remediation strategies, compliance and due diligence audits and infrastructure options and feasibility studies.

Murray specialises in the assessment of greenfield projects that have the potential to impact on the biophysical, social and cultural heritage aspects of the local and regional environment.

Murray has also conducted specialist investigations into environmental noise impacts, noise control and compliance, flooding and drainage, wastewater quality, groundwater characteristics acid sulphate soils, hydrocarbon and heavy metal soil contamination and effluent reuse schemes.

Murray has twenty years' experience in environmental and compliance oversight of major infrastructure and wind farm construction projects on behalf of regulatory authorities and principle proponents. These roles also included the management and facilitation of community and government agency stakeholder involvement. Murray is a member of the Lead Auditor Panel for Transport for NSW.

Murray has provided expert evidence for Land and Environment Court proceedings relating to stormwater drainage, noise and traffic matters.



Experience: 30+ years' experience in environmental consultancy, project management and research.

- 25 years as an environmental consultant to the natural resource, infrastructure, property development, agriculture and other industries.
- 9 years as Operations Manager and/or project manager of geophysical consultancy services to the mining and oil and gas industries.
- Expert evidence at Land and Environment Court.
- Environmental scoping assignments, investigations, impact assessments and management plans for more than 500 projects.
- ERM Lead Auditor for environmental due diligence and compliance audits including a multi audit assignment in Korea.
- Construction environmental management on linear infrastructure, renewable energy, extractive industry and property development projects including representing government authorities on major road, transmission line and wind farm projects for the past 20 years.
- Work across Australia as well as Papua New Guinea, Malaysia, Singapore, Myanmar, Korea and Fiji.

LinkedIn: <https://www.linkedin.com/in/murray-curtis-40339b5b/>

Email: murray.curtis@erm.com

Professional Affiliations & Registrations

- Member Institute of Engineers Australia

Fields of Competence

- Project direction and management
- Environmental and social impact assessment, and management
- Construction environmental management
- Compliance and due diligence auditing
- Water and soil management
- Pollution control investigations
- Environmental noise assessment (OHS, transport & industrial)
- Contaminated site investigation and remediation

Education

- Bachelor of Engineering 1994 (Honours Class 1) (Natural Resource Engineering), University of New England, Australia
- Advanced Certificate in Management Seaforth TAFE 1986
- Certificate on the Practice of Foreign Trade Import – Export College of Australia 1985

Languages

- English, native speaker

Key Industry Sectors

- Government
- Power
- Extractive
- Oil and Gas
- Agriculture
- Chemical
- Manufacturing

RMS Experience

- 20 years continuous service to RMS as Environmental Representative, environmental compliance auditor and due diligence assessments.
- EIS team member for Pacific Highway Upgrades Karuah to Bulahdelah and Moorland to Herons Creek as well as the Oxley Highway Deviation EIS.
- Community Liaison Manager during route development and EIS phase for Pacific Highway Upgrade Moorland to Herons Creek.
- Operational noise modelling and impact assessment for Alstonville Bypass.
- Consistency Reviews and Environmental Assessments for changes to designs on the Pacific Highway Coopernook Bypass and Coopernook to Moorland projects.
- Preparation of numerous REFs for RMS projects including bridge upgrades, road widening, lay-bys, and intersection upgrades etc. (e.g. Oxley Highway Stage 1 Interchange, Pacific Highway Taree Bypass Fauna Fence Maintenance, New England Highway Blanford Bridge Upgrade).
- Operational noise monitoring and development of dwelling treatment options for Pacific Highway Upgrade Coopernook Bypass.

Environmental scoping assignments, impact investigations and assessments, and management plans:

Infrastructure

- Feasibility study, impact assessment, pollution control design and government approvals for the DirectLink HVDC converter stations and 65km powerline installation linking the NSW and Queensland power grids.
- Route option, impact assessment and government approvals for the State Major Project - Lismore to Mullumbimby Electricity Network upgrade including 110km powerline and construction of eight new or upgraded zone substations.

- Environmental Impact Assessment training program, tools and face-to-face training of over 400 Essential Energy employees and accredited service providers.
- Site and route option studies, environmental impact assessments, environmental management, compliance, pollution control and/or government approvals for over 90 additional electricity infrastructure projects.
- Environmental impact assessment for the Clarence Valley Water Supply System including off-water storage dam, access roads and supply pipelines.
- Greater Taree and Great Lakes Small Communities Water and Sewerage Servicing Investigations and Risk Assessment.
- Cairncross Waste Management Facility EIS for the new greenfield facility servicing Port Macquarie.
- Route options assessment, environmental impacts assessment, aboriginal artefact salvage, construction management plans and oversight for the Thrumster Sewage Transfer Scheme.
- Effluent management and reuse schemes for abattoirs, dairy manufacturers, aquaculture and sewage treatment facilities.
- Environmental management planning for the Dubbo to Tamworth 150km gas pipeline project.
- Land and Water Management Plan for the Lower Murray Irrigation Areas. Strategic planning for the production of the Plan, community liaison, resource and data collection.
- EIAs, EMPs and feasibility studies for over 15 gas, water, sewer and stormwater infrastructure projects.

Extractive

- Environmental impact assessment of the State significant Jandra Quarry including processing facilities (asphalt batch plant, emulsion plant and pug mill stabilising).
- Environmental impact assessment of the State significant Yarrabee Road Quarry including rail siding and associated conveyor systems.
- EIAs for another three State significant extractive industry projects both greenfield and expansions
- EIAs of over 30 additional extractive industry projects including hardrock, conglomerate and sand extraction including dredging operations and assessment impacts due to blasting activities.

Renewable Energy:

- DPIE approved Environmental Representative for the construction and operation phases of the Sapphire Wind Farm in NSW.

- Environmental Impact Statement for the SSD Biala Wind Farm in NSW including membership of the community consultative committee.
- Environmental Impact Statement for the SSD Jupiter Wind Farm in NSW.
- DPIE approved Construction Environmental Management Plan and Decommissioning and Rehabilitation Plan for the White Rock Wind Farm in NSW.
- DPIE approved Construction Environmental Management Plan for the Sapphire Wind Farm in NSW.
- Ecological impact assessments and EPBC Act referrals for the Bango, Ungula and Golspie wind farms in NSW.
- Review of Environmental Factors for the 132kV transmission line and switching station for the Boco Rock Wind Farm in NSW.
- Pacific Highway Upgrade – Bulahdelah Bypass Early Works (3km, \$30M)
DPIE approved lead ER 2008 - 2009.
- Pacific Highway Upgrade – Karuah to Bulahdelah Stages 2&3 (23km, \$262M)
DPIE approved lead ER 2006-2009.
- Pacific Highway Upgrade - Bundacree Creek to Possum Brush (10km, \$120M)
DPIE approved lead ER 2003 -2006.
- Pacific Highway Upgrade – Karuah Bypass (10km, \$123M project)
DPIE approved lead ER 2001 -2003.
- Pacific Highway Upgrade – Taree to Cooperook (8km, \$60M)
RMS ER and Site Environmental Officer 2001 - 2003.
- Pacific Highway Upgrade – Cooperook Bypass (4km, \$70M)
DPIE approved lead ER and RMS Site Environmental Officer 2001 -2003.
- Sapphire Wind Farm DPIE approved lead ER 2016-ongoing.
- Armidale to Kempsey 132kV power line (150km)
TransGrid ER from 2003 -2004.

Due Diligence and Compliance Auditing

- Pacific Highway Upgrade – Independent Environmental Representative (see below).
- Independent Environmental Auditor – Pacific Highway Upgrade – Tintenbar to Ewingsdale Landscape and Urban Design.
- Major roadwork
- Electricity infrastructure
- Water and sewage infrastructure
- Abattoirs/agricultural processing
- Manufacturing
- Extractive industries
- Commercial/retail premises
- Defence premises

Environmental Representative (ER):

- Pacific Highway Upgrade – Woolgoolga to Ballina (155km, \$4.9B).
DPIE approved lead ER 2016 to 2020.
- Pacific Highway Upgrade – Ballina Bypass Stage 3.
DPIE approved lead ER 2017 to 2019.
- Pacific Highway Upgrade – Frederickton to Eungai Upgrade (26.5km, \$762M)
DPIE approved lead ER 2013 to 2016.
- Pacific Highway Upgrade – Kempsey Bypass (14.5km, \$618M)
DPIE approved lead ER 2010 to 2013.
- Pacific Highway Upgrade – Macleay River Floodplain Bridge (3.2km, \$185M)
DPIE approved lead ER 2010 to 2013.
- Thrumster Sewage Network Upgrade Port Macquarie (1.06km, \$3M)
PMHC/PWS lead ER to 2010 to 2014.

Example Range of Projects include:

- 20 continuous years on Pacific Highway projects
- Nickel/Cobalt mine and processing facility in PNG
- Nine Australian Army depot sites on the NSW North Coast for Department of Defence
- Three manufacturing plants in South Korea for confidential client
- Coffs Harbour Hospital for NSW Health
- Smithtown Food and Beverage Factory for Nestle
- Wingham Abattoir for Wingham Beef Exports
- Council Works Depot for PMHC.
- Macauleys Headland for DUAP.
- RTA Land Acquisition for Coffs Harbour Council.
- Transport Terminal Chipping Norton for Lupeke.
- M5 Sydney for Acacia.
- Kendall Railway Land for Rail Estate.
- Sweet Pea Road Sand Quarry for G Roberts.
- Music Festival Site Teven for Ballina Council.
- Coal loader terminal for confidential client.