



**NORTH COAST
PETROLEUM**

PRELIMINARY HAZARD ANALYSIS

24 Glen Innes Road, Inverell, NSW, 2360

North Coast Petroleum propose to install 2×110kL underground petroleum storage tanks at 24 Glen Innes Road, Inverell, NSW, 2360. The PHA below is designed to address the provisions of State Environmental Planning Policy (Resilience and Hazards) 2021.

Preliminary Hazard Analysis

Project: North Coast Petroleum, 24 Glen Innes Road, Inverell, NSW, 2360

Description/Activity: 2×110kL underground petroleum storage tanks

Likelihood (L)		Consequences (C)	
Rare	5	Insignificant	5
Unlikely	4	Minor	4
Moderate	3	Moderate	3
Likely	2	Major	2
Almost certain	1	Extreme	1

Overall Risk Rating (L) × (C)

Score	Response Required
1 to 6	Immediate Action Required
7 to 14	Review Action Required ASAP
15 to 25	Acceptable risk – no need for action

Certification against AS1940 for Flammable and Combustible Liquids Storage

No.	Hazard		(L) 1->5	(C) 1->5	(L)×(c)	Action Required (Y/N)
1	Overfill of tank	The underground storage tanks have fill points fitted with liquid tight connections with 100nb camlocks. The tanks will be fitted with overfill protection valves. Firefighting equipment is provided for the tanks in accordance with AS 1940 and are located in close proximity to the tanks and associated fill points.	4	4	16	N
2	Fire at fill point	All delivery tankers carry at least a single powder type extinguisher which is available near the fill points during product delivery. Additional fire equipment is located within close proximity. The filling arrangement for the end-of-line assembly comprising a no-return valve, manual shut-off valve and cap with witness hole installed.	5	4	20	N
3	Fire on site	In the event of a fire, the pumps and associated line work will be shut down via emergency cut-off switches installed or at the main switch board.	5	3	15	N
4	Leak in pipework	Pipe work associated with the installation of the new tanks will have its own containment, to prevent any possible leaks from contaminating the site as well preventing any offsite migration.	5	4	20	N
5	Leaking tank	The structural integrity of the tanks will be tested prior to the tank being commissioned. A maintenance schedule will be kept for the new tanks in accordance with AS 1940.	5	4	20	N
6	Ruptured fill hose	Extremely unlikely event. The tanker hoses are pressure tested and/or replaced regularly. The tankers are fitted with an emergency stop system. The tanker standing area is specifically set up for the containment of spills.	4	4	16	N

7	Equipment wear and tear	Routine maintenance checks are carried out on the tanks and associated equipment to maintain that everything is in a safe and working condition. Delivery drivers report anything that requires rectification.	4	4	16	N
8	Vandalism of equipment	The site is fitted with security cameras.	4	5	20	N
9	Fire on adjoining property	Should a fire on an adjoining property impact the site, the underground tanks can be shut down at the main switchboard. The tanks are also provided with fire protection in accordance with AS 1940.	5	3	15	N
10	Site contamination	All preventative measures are in place to ensure that there are minimal to zero impacts from the installation of the new tanks and their associated products. The new tanks are self-bunded to ensure that all products are contained in the event of a leak.	4	4	16	N
11	Flood prone land	The proposed tanks are anchored down and will always contain enough product, thus mitigating any direct implications of the land being subject to potential flooding.	5	5	25	N