



**NORTH COAST
PETROLEUM**

PRELIMINARY HAZARD ANALYSIS

60 Hare Street, Casino, NSW, 2470

North Coast Petroleum propose to install 1x70kL Double Walled Self Bunded fuel tank at an existing service station. The PHA below is designed to address the provisions of Chapter 3 of SEPP (Resilience and Hazards) 2021.

Preliminary Hazard Analysis

Project: Liberty Browns Caravan Park, 60 Hare Street, Casino, NSW, 2470

Assessment Ref No:

Description/Activity: 1x70kL Double Walled Self Bunded fuel tank

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 AS1940:2017 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 tank have fill points fitted with liquid tight connections with 100nb camlocks. The tank will be fitted with overfill protection valves. Firefighting equipment is provided for the tank in accordance with AS 1940:2017 and are located in close proximity to the tank and associated fill point.	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 point 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 tank 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 tank will be tested prior to the tank being commissioned. A maintenance schedule will be kept for the new tank in accordance with AS 1940:2017.	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 tank 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 tank can be shut down at the main switchboard. The tank is also provided with fire protection in accordance with AS 1940:2017.	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 tank and its associated product. The new tank is 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 tank is anchored down and will always contain enough product, thus mitigating any direct implications of the land being subject to potential flooding.	4	5	20	N