Risk Assessment and Control Measures

Level of diver competence					
Identified Hazard	**Assessed Consequence**	**Assessed Likelihood**	**Assessed Risk**	**Risk Control**	**Assessed Risk After Control**
No proof of competence inexperience is specific system of work	1	B	Extreme	Ensure copies are held of each diver's appropriate proof of competency. Undertake and record a training program for each diver including: • Induction • Site and/or task specific training Ongoing review and training.	CR

Environmental condition					
Identified Hazard	**Assessed Consequence**	**Assessed Likelihood**	**Assessed Risk**	**Risk Control**	**Assessed Risk After Control**
Strength and direction of wind (consider emergency response)	2	B	High	**If there is a significant adverse change in the environmental conditions affecting the diving from the work assessed in this document, the risk assessment process must be undertaken again.** Daily weather reports checked. Divers briefed and sites selected according to wind	CR
Current and tide	2	A	Extreme	Daily tides checked, divers briefed and sites selected according to current and tide	CR
Underwater Visibility	3	B	High	Daily visibility checks, divers briefed, sites selected according to visibility	CR
Entrapment Hazard	3	B	High	Divers to avoid entrapment situations	CR
Depth of Worksite	2	B	High	Monitor depth, do not exceed planned maximum	CR
Water Temperature	4	B	Moderate	Monitor	CR
Time of Day	4	B	Moderate	Monitor – last dive by 17:00	CR
Underwater Terrain	4	B	Moderate	Monitor – sea depths	CR
Atmospheric Temperature and Humidity	4	B	Moderate	Monitor	CR
Contaminants	2	E	Moderate	Monitor	CR
Isolation of Dive Site	1	A	Extreme	Daily radio checks, regular first aid equipment checks and currency of workers' first aid certificates. See emergency and rescue plans.	CR

Hyberbaric/ physiological hazards					
Identified Hazard	**Assessed Consequence**	**Assessed Likelihood**	**Assessed Risk**	**Risk Control**	**Assessed Risk After Control**
Frequency of diving, inc repeat diving, multi day diving.	1	A	Extreme	Ensure all diving is consistently and conservatively carried out in accordance with one appropriate set of dive tables. Ensure appropriate plant is selected and used. Ensure an appropriate system of worked is adopted (see section above) Ensure factors that increase the risk of decompression illness are monitored and minimised eg dehydration, multiple day diving, multiple ascents. Ensure a dive safety log is kept for each dive and signed as required. Monitor logs to ensure one set of dive tables is followed consistently and conservatively. Ensure each diver keeps a personal log of dives.	CR
Depth of Dive	1	A	Extreme	As above	CR
Duration of Dive	1	A	Extreme	As above	CR
Breathing Gas	1	A	Extreme	Ensure breathing gas quality is tested routinely eg every 6 months Ensure gas supply systems, including compressors and filters are appropriate and maintained in accordance with the manufacturer's instructions. Ensure gas intakes are appropriately constructed and inspected daily Where gases other than air are used, ensure each diver has proof of appropriate additional competencies, ensure appropriate equipment is used and ensure appropriate systems of worked are documented and strictly adhered to. Note there are specific risks associated in diving with gases other than air. Specific assessment and control of these risks will be required.	CR
Exertion Required to Reach Dive Site	3	C	Moderate	Ensure each diver has an adequate air supply eg for a demand gas supply device, the minimum pressure shall be 700kPa plus 10kPa for every meter of the diver's working depth	CR
Exertion Required to Conduct Task	3	C	Moderate	See above	CR

Task related conditions					
Identified Hazard (Consider Complexity, non-routine nature)	**Assessed Consequence**	**Assessed Likelihood**	**Assessed Risk**	**Risk Control**	**Assessed Risk After Control**
Diving systems includes: Appropriate plant: eg air supply, secondary air supply, emergency air supply, personal protective equipment, air hose and attachments, weight system Appropriate personnel: eg numbers, fitness, competence, roles, responsibilities, duties Appropriate systems of work: eg decompression management systems, dive planning, communications, logging of dives, equipment inspection and maintenance, record keeping Appropriate emergency systems.	1	A	Extreme	Develop an appropriate diving operations manual addressing: • Training, supervision, experience and selection of employees, including staffing levels • Organisation and planning before, during and after the dive • Selection of appropriate plant • Selection of the appropriate form and level of communication • Personal protective equipment In selecting and using appropriate plant, an appropriate standard eg AS/NZS 2299.1 should be followed. Ensure each item of plant is used appropriately with regard to: • Design eg manufacturer's specifications • Installation eg manufacturer's instructions • Inspection eg pre-use checklists • Use eg diving operation's manual • Maintenance eg manufacturer's instructions • Repair eg manufacturer's instructions **If there is a significant change in the way the work is to be done from the work assessed in this document, the risk assessment process must be undertaken again.**	CR

Excessive Noise	2	B	High	Hearing protection for dory driver	CR
Immediate Pre Dive Fitness	2	A	Extreme	Ensure copies are held of each diver's certificate of medical fitness to dive. Ensure work is not contrary to any limitations. Ensure divers are fit daily. Monitor hydration, alcohol, drugs.	CR
Altitude Exposure	1	C	Extreme	Follow flying after diving advice	CR

Associated activities hazards					
Identified Hazard	**Assessed Consequence**	**Assessed Likelihood**	**Assessed Risk**	**Risk Control**	**Assessed Risk After Control**
Manual Handling	2	B	High	Minimise lifting by divers, when lifting is necessary use proper lifting technique. Minimise heavy work for divers post dive.	CR
Boat Handling	1	A	Extreme	Ensure each worker associated with the dive work eg dory drivers is competent for the work. Hold proof of competency. Undertake and record a training program for each associated worker including: • Induction • Site and/or task specific training • Ongoing review and training. Ensure appropriate measures are taken to minimise or prevent damage or injury to the diver or equipment eg propeller guards, ladders	CR
Dive Site Entry*	3	D	Low	As above	CR
Dive Site Egress*	1	B	Extreme	As above	CR
Crane / Winch Operations	Not applicable				
Rigging	Not applicable				
Topside Plant*	1	A	Extreme	Maintenance, inspection and monitoring of whole surface supply system	CR
Dive Platform	Not applicable				