

Exercise Evaluation Report

WAIKATO DISTRICT SAREX 2024

Location: Kauaeranga Valley, Thames

Date: 8th March 2024 to 10th March 2024

Report version: FINAL

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Contents

1. Executive Summary	3
1. Recommendations	4
2. Introduction	5
3. Background	6
4. Evaluation Methodology.....	11
5. Findings	12
6. Conclusions	14
7. Appendix	17

Executive Summary

The Waikato Police District SAREX was held in the Kauaeranga Valley from Friday the 8th of March 2024 to the Sunday 10th March 2024.

The Friday night was dedicated to a meet and greet exercise prior to camping for the night.

The Saturday was dedicated to a number of SAR related workshops of which the participants rotated through, covering all of the topics offered.

The Sunday was solely for Helicopter Safety, briefing, winching and a live flight.

The SAREX was put together by the Waikato District SAR Coordinator and the Assistant Coordinator, in collaboration with landsar members from some of the Waikato groups.

The planned outcomes of the SAREX was primarily field team focused with practical exercises.

All of the objectives of the exercise were met.

Recommendations

All of the objectives of the exercise were met.
No recommendations have been identified relating to those objectives.

Recommendation 1

That the NZSAR SAREX Planning template document is used as the basis of a SAREX plan.

See comments paragraph 3.4. No SAREX aim was documented.

Recommendation 2

That the Waikato district consider an operation style of exercise for the following year to practice the skills learnt from this year.

See conclusion- general.

Recommendation 3

Invite a member of the Waikato Police Executive group to visit the next District SAREX to demonstrate the relationship between the SAR partners and the Police organisation.

See comments objective 2.

Introduction

The Waikato District SAREX of 2024 was held between the 8th March 2024 and the 10th March 2024.

The SAREX was held in and around the Department of Conservation visitors centre in the Kauaeranga Valley, Thames.

The exercise was planned by a planning committee consisting of Landsar members within the Waikato Landsar groups and the Waikato Police SAR squad.

The exercise started on the Friday of 8th March. The afternoon was largely a time to set the exercise up with a meet and greet period during the Friday evening. Accommodation for those attending the attending the SAREX was in tents in an adjacent DOC camping area.

The exercise proper began on Saturday the 9th of March with 4 workshop-based activities of 1 hr. 45 minutes duration each. Which consumed that day.

All of the workshops were practical, hands-on activities and included River crossing, Radios, Ropes, knots and stretcher, and Wander search/directional finding

The content of the workshops were based on the landsar competency framework and on SAR best practice.

The evening included a presentation and demonstration of the Waikato SAR dog team.

The second day, 10th March consisted of the de-brief of the previous day's workshop activities and followed a helicopter briefing by RNZAF NH90 crew, including safety, followed by a winch in, short flight and winch out for all participants.

The exercise concluded in the mid-afternoon of the 10th March.

Background

The evaluator was contacted early and was asked advice in regard to setting the objectives for the exercise by the Planning committee.

It was agreed that the evaluator will observe each of the workshop activities during the weekend.

Background to the Exercise

The perceived need by the SAREX planners was that district SAREX groups lacked the refreshed skills on all the subjects of the workshop activities and the skills knowledge of working with the RNZAF NH90 aircraft and crew, including safety. All the activities were aligned with the LandSAR competency framework and on SAR good practice.

Dates, location, organising agency(s), key people

The exercise was held adjacent to the Department of Conservation visitor centre in the Kauaeranga Valley, Thames between the 8th and 10th March 2024.

The plan was prepared by Waikato Police SAR Coordinator and the District SAR Assistant Coordinator.

The Planning committee, while not specifically named, included members of various Waikato Landsar groups and the Waikato Police squad.

Participating organisations

The participants of the exercise consisted largely of the 7 groups of the Waikato Police District. These numbers were of approximately 55 individuals. In addition there were about 22 others, including presenters and tutors of the workshops and activities. These included AREC members, RCCNZ, Waikato Outdoor training and Police squad members. It does not include RNZAF numbers. These were of 4 crew members with an unknown number of support staff(refuelers and engineers).

Exercise aim

The planning documents do not specify a particular aim of this SAREX, however from the nature of the objectives it can be seen that the aim was to “Learn or refresh SAR field skills including River crossing, radios, ropes and stretcher, wander search and directional finding and helicopter safety.”

Exercise objectives

The objectives of the exercise were set by the committee as

2024 Land SAREX OBJECTIVES

Theme	Objectives	Contributing Objectives	KPI
Integrated response	SAR partners collaborate effectively	Appropriate agencies are selected for and participate in the SAR exercise	<ul style="list-style-type: none"> All agencies required for the exercise participate (LandSAR, Police, AREC, RCCNZ) All agencies participating collaborate effectively Liaison arrangements for inter-agency engagement are maintained
Relationships	Strengthen interagency relationships	Relationships between Police and SAR groups and AREC, are strengthened	<ul style="list-style-type: none"> LandSAR representatives are engaged during exercise planning All agencies and key Police and SAR group personnel engage positively All agencies understand and are given appropriate responsibilities within the response structure
Risk Management	Risks are identified, removed, minimised or managed	Risk management systems and processes are defined and communicated by each activity	<ul style="list-style-type: none"> Operational risks are analysed Risk management systems and processes appropriate to the nature and complexity of the situation are defined Briefing information appropriately addresses identified risks
		Risk awareness and management is demonstrated by all exercise participants	<ul style="list-style-type: none"> All participants understand their personal responsibilities in regard to risks Risk management systems and processes appropriate to the nature and complexity of the situation are defined Briefing information appropriately addresses identified risks
Field Response	SAR operational personnel refresh	SAR personnel to review message	<ul style="list-style-type: none"> Participants understand the use of a two-way radio

	and practise communication techniques to be utilised in a search and rescue operation.	handling and the practical use of communication equipment and functionality.	demonstrating using phonetics, radio protocols and scanning functions. <ul style="list-style-type: none"> • Participants understand the set up and use of repeaters and linking radios.
	SAR operational personnel refresh and practise search and rescue skills	SAR personnel to carry out a practical scenario using WanderSearch to locate the missing party.	<ul style="list-style-type: none"> • Participants develop an understanding of the people who wear WanderSearch devices. • Understand the range the devices have. • Develop confidence in using the tracking equipment.
		SAR personnel to carry out a practical scenario using Directional Finding Equipment to locate the missing party.	<ul style="list-style-type: none"> • Participants understand the range the devices have. • Develop confidence in using the tracking equipment.
		SAR personnel participate in a river crossing and pack float scenario.	<ul style="list-style-type: none"> • Participants demonstrate appropriate river crossing techniques. • Understand river characteristics, dynamics, and hazards. • Demonstrate river crossing techniques with a stretcher. • Demonstrate pack floating and escape techniques.
		SAR personnel review recovery techniques using ropes, appropriate knots and a stretcher.	<ul style="list-style-type: none"> • Participants demonstrate tying general knots and hitches for search and rescue use. • Safely manoeuvre a loaded stretcher across and through rough terrain. • Safely belay a loaded stretcher up and down and moderate slope.
		Helicopter safety and risk management systems and processes are defined and practised.	<ul style="list-style-type: none"> • Participants operate safely around helicopters. • Demonstrate safe procedures for loading and unloading personnel.

		<p>Familiarisation of live flight.</p>	<ul style="list-style-type: none"> • Participants can describe likely hazards around a landing zone. • Participants will have first hand experience with flight being exposed to noise and the effects of motion sickness in flight. • Participants will be familiarised with the Kauaeranga Valley terrain from the air encompassing situational awareness of the Pinnacles Hut.
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Exercise Scenario

The SAREX was run on the first day with four workshops run contemporaneously.

The first was the River crossing.

This was presented and facilitated by Outdoor Training Waikato. This is a private organisation specialising in outdoor training including bushcraft.

The workshop included instruction on river crossing, safety, river characteristics, dynamics and hazard, river crossing techniques, mutual support and solo river crossing with a stretcher and a Pack float.

The training and facilitating was in line with SAR best practice and with the landsar competency framework.

The second was radios

This was facilitated by AREC members

The workshop included

Radio maintenance and care

Radio set up and channel selection

Radio protocol

Set up of repeaters and linking repeaters

Phonetics and practical message handling

The training and facilitating was in line with SAR best practice and the landsar competency framework.

The third was Rope and Stretcher

This was facilitated by a specialized and experienced Landsar member.

The workshop included

Rope care

Ropes, tapes and slings of various types and suitability

Carabiners, types characters and suitability

Basic knots, Italian Hitch, Tape bend and Figure eight.

Practical exercise carrying and securing a stretcher up a slope.

This training and facilitating was in line with SAR best practice and the Landsar competency framework.

Fourth was Wander search and Directional finding

This workshop was divided into each of these subjects, run contemporaneously with the teams splitting in two.

The wander search was facilitated by members of the Waikato Police SAR Squad.

The session included

A discussion on types of missing persons that the wander search system is used and a breakdown of common behaviours of those types.

An explanation and demonstration on the use of wander search equipment.

A practical exercise to locate wander search beacons using the equipment in smaller groups.

The Directional Finding session was facilitated by a representative of RCCNZ.

The session included

An explanation of the use of the equipment, what it is used for.

A demonstration on the use of the equipment

A practical exercise to locate a training EPIRB.

The SAR dogs session was facilitated by the Waikato Landsar dog handler and included

A talk on the use and limitations of Dogs as a search tool and what they can achieve

A practical demonstration of how the handler and dog work as a team.

This session did not include any practical exercise for the participants and no objectives of the SAREX related to this session

The Helicopter safety session on the second day included

A safety briefing for Helicopters in general and then specific to the RNZAF NH90 aircraft.

A training session on winching in and winching out.

An aircraft flight, including winching in and winching out from the Helipad

Evaluation Methodology

The agreed outcomes of the evaluation activity

It was agreed that the evaluator would evaluate the SAREX as a whole, measured against the objectives set by the planning committee

Evaluation scope

All of the workshops and SAREX sessions were observed by the evaluator and comments sought by participants during the period of the SAREX relating to the objectives set.

Aspects of the exercise observed, what was not observed

All of the SAREX was observed during the SAREX days

The process followed in preparing and submitting the report

The SAREX planning committee meet via teams meeting and suggestions were made in respect to setting the objectives. The committee saw the opportunity to align the SAREX with the Landsar competencies, while achieving the objectives for the Waikato District SAR groups.

Other information

The workshops were observed in a reverse order to participants to observe different teams as they completed those workshops.

Findings

All of the Agencies required in the KPI attended and participated with the SAREX, Those include Police, Landsar, AREC and RCCNZ but also included RNZAF NH90 crew and the Waikato District Rapid Relief Team.

Each of those organizations demonstrated a strong collaboration, particularly the AREC crew, of which there has been little collaboration in previous years.

The SAREX also demonstrated a strong relationship with DOC in this district.

All of the agencies were fully engaged, and all of the participants were fully engaged during the exercise, including those from Police and landsar groups.

All agencies were engaged in delivering some content of the SAREX, including RCCNZ delivering the session on directional finding.

Outside agency Outdoor Education Waikato, was employed to deliver the river crossing workshop. This gave an outside perspective on river crossing but aligned to SAR best practice and the landsar competencies.

Risk assessments had been completed for each of the workshops and documented within the SAREX Plan.

The initial SAREX briefing included overall risk assessments

Each of the workshops, and in particular the river crossing workshop and the ropes-stretcher workshop held a safety briefing during the workshop, prior to activities.

A Safety Manager had been appointed at the beginning of the SAREX and managed risks as they arose. No new risks were identified.

Participant's were made aware of risks throughout the exercise.

The risks were managed throughout the exercise, through the workshops and various sessions

participants were shown and practiced the required skills, including the use of radios, radio protocols and setting up repeaters and linking repeaters.

Participants were made aware of the various categories of people who wear wander search beacons and their behaviors. They understood and practiced the receiving equipment and practiced their user.

Participants were described the directional finding equipment and the limitations and uses and then practiced the skills in a practical exercise to locate an Epirb.

Participants were shown the three most used knots, Italian Hitch, tape Bend and Figure Eight. Each participant practiced these knots. Using these knots the participants practiced maneuvering a stretcher up a slope, belaying as they went.

Participants received a safety briefing on operating around helicopters in general and then specifically around the RNZAF NH90 aircraft. They received instruction on safety putting on the harness in preparation for winching.

These were practiced in a practical exercise which included live winching into the aircraft, a short flight and then winching out of the aircraft.

The participants of this SAREX all enjoyed the experience. During the de-brief the common theme was one of learning or refreshing the various topics that were undertaken. All of the comments were very favorable and all expressed learnings from it.

The final agency involved in this SAREX was the Waikato Rapid Response team, who provided the catering of the lunch during the Saturday of the exercise. This team has previously been utilized during operations. This SAREX strengthened the relationship between the Waikato SAR community and the rapid Response Team.

Conclusions

Objective 1

Integrated Response

SAR partners collaborate effectively

Appropriate agencies are selected and participate in the SAR exercise.

Objective MET

A range of agencies were involved in this SAREX. These include participants from each of the 7 Landsar groups in the Waikato district, AREC, RNZAF and Police SAR squad. In addition agencies contributed to managing and facilitating the workshops including Police SAR Squad, RCCNZ, AREC, Landsar and a private trainer Outdoor Education Waikato. In addition the catering included the Rapid Relief team from the Waikato. The organising of this exercise also demonstrated a strong relationship with the Department of Conservation.

The most significant for the Waikato District has been the inclusion of AREC. In previous years this organisation has been ineffective in its ability to support SAR exercises and operations. However this exercise provided that opportunity to do so, and the AREC organisation demonstrated their ability to be both effective and capable.

Objective 2

Relationships

Strengthen interagency relationships

Relationships between Police and SAR groups and AREC are strengthened.

Objective MET

The relationship between the Police and the 7 Waikato Landsar groups was demonstrated as very sound. This was demonstrated throughout the workshops as both the Police and landsar members worked together as they progressed through the day.

The relationship between the Police and AREC and Landsar with AREC has been very weak for many years. AREC in previous years did not have the organisational strength to offer Police and Landsar the support that they provide on other Police Districts.

However this SAREX demonstrated a significant change within that organisation for the better, displaying that there was a real effort on their part to provide that support.

This in turn strengthened the relationships with both the Police and Landsar groups, and particularly during the radio workshop, facilitated by the AREC group.

This exercise also demonstrated a strong relationship between Police and the Department of Conservation, who although did not attend, readily supported that SAREX by providing resource for it to progress at this location.

It also demonstrated a relationship between the Police and RNZAF through their NH90 crew. Primarily through the Helicopter session, facilitated by that crew.

These relationships could have been strengthened with an invitation and attendance of a member of the Waikato Police District leadership group to demonstrate a higher level commitment to the Waikato SAR community.

OBJECTIVE 3

Risk Management.

Risks are identified, removed, minimised or managed.

Risk management systems and processes are defined and communicated by each activity.

Objective MET

Risk management was well managed. This was demonstrated through the SAREX, beginning with the initial overall briefing where generic risks were identified and included during the briefing.

A dedicated safety officer was appointed.

Each of the workshops carried out their own safety briefing, prior to the beginning of their sessions.

The sessions on Rope and Stretcher and River Crossings included safety briefings between activities of their respective sessions to reinforce safety messages that specifically related to their activities.

Objective 4

Field response.

SAR operational personnel refresh and practice communication techniques.

SAR personnel to review message handling and the practical use of communication equipment and functionality

SAR operational personnel refresh and practice Search and Rescue skills

SAR personnel carry out a practical scenario using wander search to locate missing party.

SAR personnel carry out a practical scenario using Directional Finding equipment to locate a missing party.

SAR personnel participate in river crossing and pack float scenario.

SAR personnel review recovery techniques using appropriate knots and stretcher.

Helicopter Safety and risk management systems and processes are identified and practiced

Familiarisation of live flight

Objective MET.

This objective was met with the combined effort of all the workshops and sessions

The River crossing workshop was facilitated by an outside private organisation and was pleasing to have an outside agency deliver that session. It reinforced SAR best practice.

The Ropes and Stretcher workshop, facilitated by experienced Landsar volunteers covered the basic knots, ropes, straps and basic techniques of moving a stretcher up a slope.

The Radio workshop was facilitated by AREC members and covered basic radio care and hand held radio use. It included setting up repeaters, linking repeaters and basic message handling.

The Wander search and Directional finding sessions were both practical exercise to locate beacons after a short description of the equipment and uses.

General

The Waikato Police District Coordinator, Assistant Coordinator and senior Landsar representatives have discussed the need for next year's SAREX to be an operational scenario based exercise, to practice skill learnt during this SAREX

Appendix

Waikato District Land SAREX 2024 8th to 10th March 2024

Venue details	2
Attendance planning and PolSAR assignments	3
Accommodation	4
Registrations	5-6
Workshop details	7-12
Health and Safety	13-16
Catering	17
Timetable	18-19
Equipment required	20
Opening notes	21
Objectives	22-23
Land Search and Rescue Karakia	24-
	25

10/01/24 Site recce with AT (Police), ED (LSAR GVS), MG (TAPSAR) and LH (Police)
0800-1100

Site visit for:

Kauaeranga Visitor Centre

Phone:

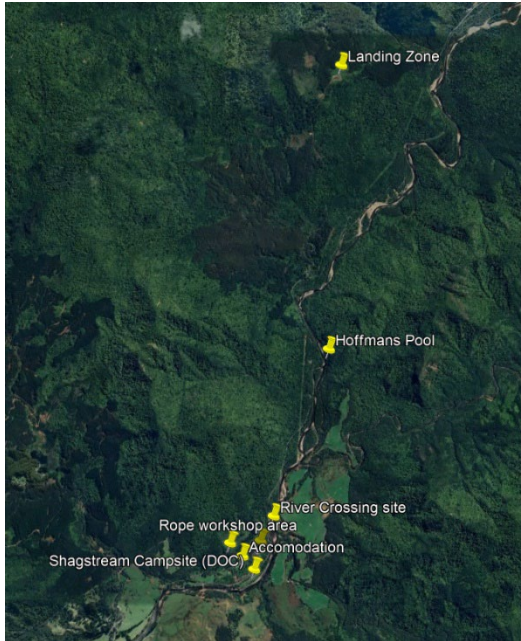
+64 7 867 9080

Email:

kauaerangavc@doc.govt.nz

Address:

995C Kauaeranga Valley Road
Thames 3577



Attendee planning - estimated at end of Jan 24- (confirmed by 26th Jan)

Group	Numbers attending	Contact person
Waihi	8(7)	Darren Butler
TPW	6(7)	Bryan
Te Aroha/Paeroa	9 (4)	Laurette
Waitomo	4(3)	Alon Pearson
Hamilton	27(14)	Russell Lamb
KSAR	12 (10)	Dean
Thames	7(7)	John
Police	15 (16)	Alton
Instructors	7	AREC (2), RCCNZ (1), OTW (2), guests-GSO, AREC rep
NZSAR	1	Vince - evaluator
LandSAR Dogs	3(3)	Graeme, Matt and Pete
TOTAL estimated	96 (83)	81 persons registered at 29/2/24 * numbers varied slightly on day

Police SAR Squad assignments:

NAME (yellow=oncall)	Arriving	NOTES	Friday	Saturday Assignments	Sunday
Alton TREML	Sat AM		OCSAR	OCSAR	OCSAR
Warren SHAW	Fri	SAR ute and Police Equinox (take light bar cover)	Safety officer	Safety officer	Safety officer
Mark HARRISON	Fri	Can bring own 4wd		LandSAR Dogs	
Brian CONNORS	Fri			River and WanderSearch assistant	
Brad YORK	Fri			Team 1	
Ross MORATTI	Fri			LandSAR Dogs	
Matt BURKE	Fri			Team 2	
Peter KARAM	Fri			WanderSearch and River assistant	
Leigh CLARKE	Fri			Team 3	
Richard CREASE	Fri			Team 4	
Otis WALKER	Fri	(Happy to help with dogs)		Team 3	
Emma PETCH	Fri	WanderSearch module - lead		WanderSearch module - lead	
Leon BALVERT	Fri			Team 1	
Andrew COCHRANE	Fri			Team 2	
Logan HUGHES	Fri			Team 4	
Lynette HORN	Fri	DSARAC		DSARAC	

- Rosters checked and confirmed by WFM 6/2/24

Plan B – if PK needed for a job – Otis to help with WanderSearch, Brad or Matt to help with river

Alton, Warren and Lynette to show guests around and general overview of stations

Accommodation:

2 houses onsite that will sleep 20 people. Located 150m from the DOC centre. Self-contained houses with 3 bunks rooms in each (Sleeps 4,4 and 2) plus small sleepout that has queen bed and single bed.

House one	Kauri Cottage	Room	House two	Cookson Cottage	Room
Steve MAIN	AREC	A	Warren SHAW	Oncall SAR	A
Ron DAWSON	AREC		Peter KARAM	Oncall SAR	
Rob Mc MILLIAN	AREC		Leon BALVERT	Oncall SAR	
Colin ROWLINSON	HSAR		Logan HUGHES	Oncall SAR	
Graeme HILL	LandSAR Dogs	B	Emma DOCHERTY	GVS	B
Matt HASSARD	LandSAR Dogs		Lynette HORN	DSARAC	
Pete HOSKIN	LandSAR Dogs				Living room
Keith ALLEN	RCCNZ	C			

Vince Ranger	Evaluator (sml room) between two houses
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Kauri Cottage

Facilities

Sleeps maximum of 10 people:

Room A: 2 sets of bunks, 4 people

Room B: 2 sets of bunks, 4 people

Room C: 1 set bunks, 2 people

Cookson Cottage

Facilities

Sleeps maximum of 8 people:

Room A: 2 sets of bunks, 4 people

Room B: 1 set bunks, 2 people

Living room: 1 set of bunks, 2 people

What to bring

You need to bring your own linen.

Check in and out time

Check in after 3.00 pm, check out before 11.00 am.

** some camping around DOC houses allowed.

Alton TREML	Police SAR	Own tent
Brian CONNORS	Police SAR	Own camp trailer
Emma PETCH	Police SAR	Own tent
Andrew COCHRANE	Police SAR	3 room tent (use for RC area)
Otis WALKER	Police SAR	Own tent
Leigh CLARKE	Police SAR	Own tent
Mark HARRISON	Police SAR	TBC
Brad YORK	Police SAR	Camp
Ross MORATTI	Police SAR	Bunk pref
Matt BURKE	Police SAR	Camp
Richard CREASE	Police SAR	Camp

Shagstream Campsite – now booked out for SAR for the weekend. Located 200m across the road from the DOC centre.

Group name	Name	Arriving –	Camp or bunk	Dietary requirements
AREC	Steve MAINLY	Fri	Bunk	Vegetarian
AREC	Ron DAWSON	Fri	Bunk	
AREC	Rob McMILLIAN	Sat	Bunk	
RCCNZ	Keith ALLEN	Fri	Bunk	
OTW	Doug Faulkner	Sat	N/A	No cheese
OTW	Shaun HODSON	Sat	N/A	Gluten Free
NZSAR	Vince RANGER	Fri	Bunk	
Police SAR	Brian CONNORS	Fri	Camp	
Police SAR	Emma PETCH	Fri	Camp	
Police SAR	Andrew COCHRANE	Fri	Camp	
Police SAR	Otis WALKER	Fri	Camp	
Police SAR	Leigh CLARKE	Fri	Camp	
Police SAR	Alton TREML	Sat	Camp	Keto
Police SAR	Lynette HORN	Fri	Pref bunk	Coeliac
Police SAR	Warren SHAW	Fri	Bunk (on-call)	
Police SAR	Peter KARAM	Fri	Bunk (on-call)	
Police SAR	Leon BALVERT	Fri	Bunk (on-call)	
Police SAR	Logan HUGHES	Fri	Bunk (on-call)	
Police SAR	Mark HARRISON	Fri		
Police SAR	Brad YORK	Fri	Camp	

Police SAR	Ross MORATTI	Sat		
Police SAR	Matt BURKE	Fri	Camp	
Police SAR	Richard CREASE	Fri	Camp	
KSAR	Tammy Greig	SAT	Camp	NIL
KSAR	Emma Summers	SAT	Camp	NIL
KSAR	Justin Murphy	SAT	Camp	NIL
KSAR	Tessa Darwin	SAT	Camp	NIL
KSAR	Regan Crosland	SAT	Camp	NIL
KSAR	Georgia Teklenburg	SAT	Camp	NIL
KSAR	Glennis Drane	SAT	Camp	NIL
KSAR	Darren Baily	SAT	Camp	NIL
KSAR	Mike Naylor	SAT	Camp	NIL
TAPSAR	Pauline Cannon	Fri	Camp	Poppy seeds, sesame – oils and seeds
TAPSAR	Sarah Daroux	Sat	Camp	Cocoa, chocolate, Vegetarian
TAPSAR	Mike Gilmer	Fri	Camp	DF, GF
TAPSAR	Andrew Herbert	Fri	Camp	
TPW	Sam Shepherd	Fri	Camp	Nil
TPW	Frances Brown	Fri	Camp	Nil
TPW	Christine Soffe	Fri	Camp	Nil
TPW	Mike Morrison	Sat	Camp	Nil
TPW	Kevin Daly	Sat	Camp	Wheat and Dairy
TPW	Trevor Jury	Sat	Camp	Nil
TPW	Bryan Farquhar	Sat	Camp	Nil
Waitomo	Dale Rendall	Fri	Camp	Nil
Waitomo	Daniel Joost	Fri	Camp	Nil
LandSAR Dogs	Graeme HILL	Fri	Bunk	Nil
LandSAR Dogs	Matt HASSARD	Fri	Bunk	Nil
HSAR	Codi Merito	Sat	camp	
HSAR	Alan Gregory	Sat	camp	
HSAR	Karen Ellis	Fri	camp	
HSAR	Vince Ellis	Fri	camp	
HSAR	Shane Carmichael	Fri	camp	
HSAR	Aarad Russell	Fri	camp	
HSAR	Nicky van Praagh	Fri	camp	
HSAR	Sam Edwards	Fri	camp	
HSAR	Matt Brown	Fri	camp	
HSAR	Brittney Hill	Sat	camp	
HSAR	Waveney Parker	Fri	camper van	allergy to orange
HSAR	John Evans	Sat	camp	
HSAR	Bill Malone	Sat	not staying	
HSAR	Haddon Gilling	Sat	camp	gluten free(yeast)
HSAR	Isaac gilling	Sat	camp	
HSAR	Ellen Garrity			

HSAR	Jonah Franke			
WAIHI	Paul Ronke	Sat	Camp	Nil
WAIHI	Allan Weal	Sat	Camp	Nil
WAIHI	Robin Douglas	Sat	Camp	Nil
WAIHI	Jesse Negretti	Sat	Camp	Nil
WAIHI	Lara Beisly	Sat	Camp	Shellfish
THAMES	Barry Hards	Sat	camp	
THAMES	Chubb Quigg	Sat	camp	Gluten free but can eat normal
THAMES	Justine Braverstock	Sat	tent or home	
THAMES	Adrian Davis	Sat	campervan	
THAMES	Rachel Langman	Sat	camp	
THAMES	Maree Limpus	Sat	home	Vegetarian
THAMES	John Sanford	Sat	home	
THAMES	Jasley McSaveney	Sat	Camp	
THAMES	Wayne Vickers	Sat	Camp	
AREC	Brian Dave	Sat only		

DOC centre has classroom with small kitchen, access to deck, toilets, and a back entrance so we don't have to enter through the visitor centre throughout the day.

Conference room hire

The Kauaeranga Visitor Centre facility is available for hire for private or corporate functions. It's ideal for business meetings, team building exercises, training courses and conferences.

The venue is close to Thames, yet in a secluded bush setting. The building is modern and well-lit with ample parking for all sized vehicles.

Facilities

Depending on the function, maximum capacity is 60 people. We recommend 30-40 people as a maximum for comfort.

We provide a training room with tables and chairs for 60, wifi, whiteboards and a projector.

* AREC/radio workshop

129.0 Communicate using two- way radio.

129.01 Daily maintenance and recharging procedures are completed to operational requirements.

129.02 Radio is set up and used to obtain best coverage and reception.

129.03 Channel or frequency is selected.

Range: In accordance with the requirements and urgency of the message and the communications plan.

129.04 Messages are sent and received using radio protocol.

Range: as required by the organisation and/or radio licensee.

129.05 Messages are communicated and/or relayed under difficult conditions.

Range: Message must maintain the required detail and communication is acknowledged. May include but not limited to - difficult conditions, poor radio reception or difficult

environmental conditions (e.g. noise, rain, snow, or wind), may include – ‘10’ codes, phonetic alphabet evidence of two difficult conditions is required.

The content of AREC lessons will be as follows:

- Introduction to AREC

Practical Radio Lessons:

- Scanning functions of SAR Radios with practical (how to scan, when to use and what to do when repeater signal is lost)
- Set up of repeaters/linking radios with practical (where to set a repeater/link radio, Antenna set up/ connections and turning it on, checking it works)
- Nato Phenetics with practical message handling

* **WanderSearch workshop** WanderSearch

Objectives – no set LandSAR competencies

- Develop an understanding of the people who wear WanderSearch devices
- Understand the range the devices have
- Develop confidence in using the tracking equipment

Lesson plan – WanderSearch (45mins lesson time x 8)

Intro – self

Safety brief – boundaries where we are working.

Discuss the characteristics of a person with cognitive impairment (ref to LPB)

Demonstrate the devices, how they turn on, the sounds they make and how to set up the receiver.

Tracking using gain and volume to assist.

Practical tracking practice – send them out in pairs or small groups to look for devices around the DOC centre etc.

* **Directional Finding workshop** Directional Finding workshop

Objectives – no set LandSAR competencies

- Understand the range the devices have
- Develop confidence in using the tracking equipment

Helicopter Safety

130.0 Operate safely around helicopters.

130.01 Describes the hazards associated with working around rotary wing aircraft.

Range: may include but not limited to - Aircraft components, manoeuvring, approach zones.

130.02 Demonstrate safe procedures for loading and unloading personnel.

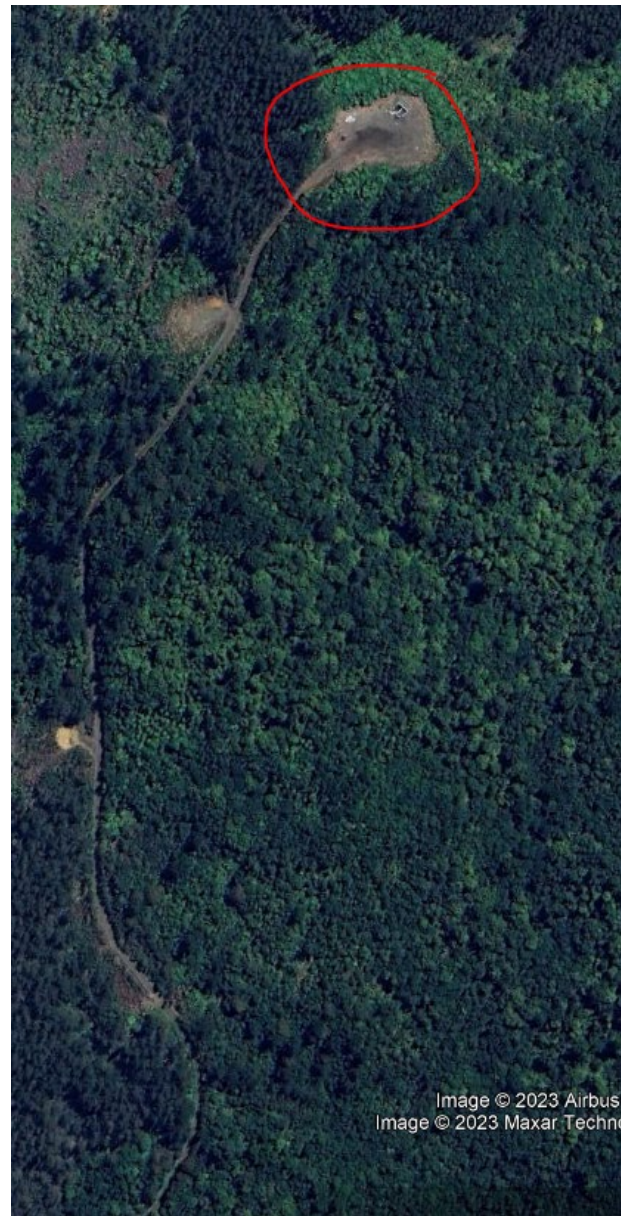
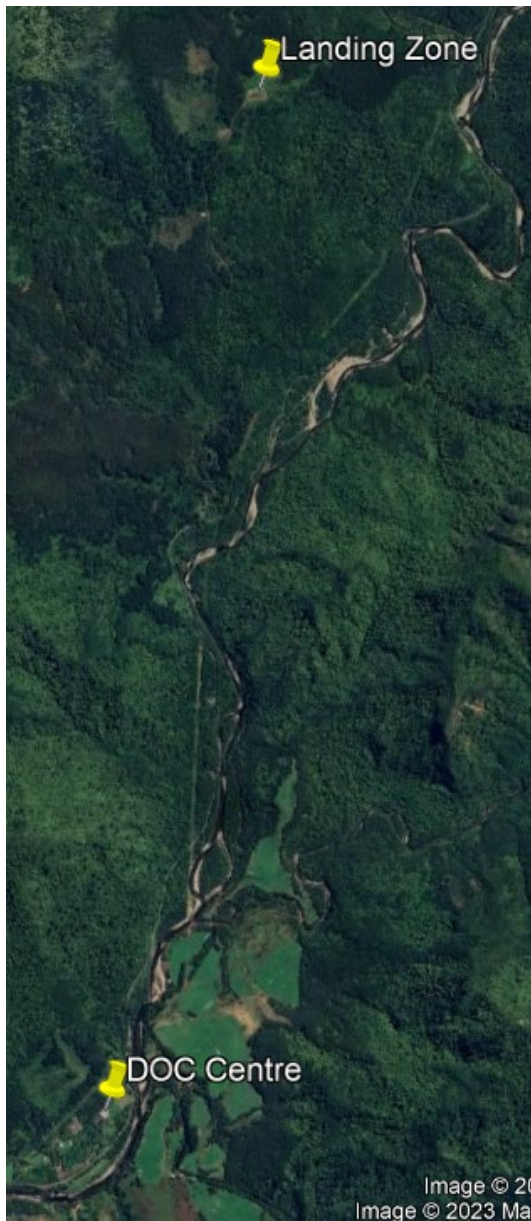
Range: may include but not limited to - Safe approach, entry, and exit including the loading and unloading of equipment.

130.03 Describe the likely hazards around a landing site.

Range: may include but not limited to – Vehicles, operating clearances, dust, unsecured items, poor visibility, uneven terrain.

130.04 Explain or demonstrate how to brace for impact and escape from an aircraft in an emergency.

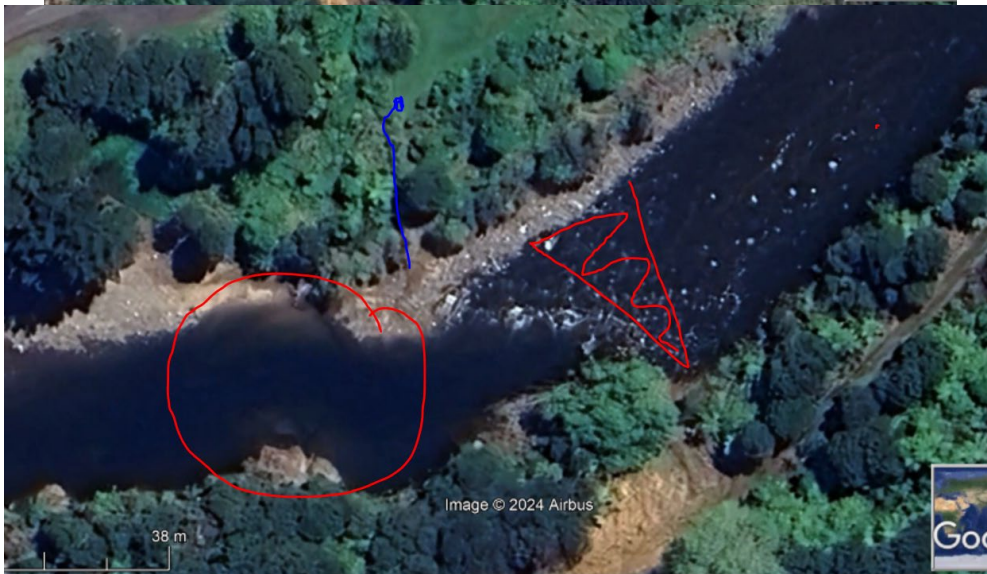
Location for helicopter landing zone: access on gravel track with locked gate (Key from DOC)



River Crossing and pack float - off the end of Shag Stream Campsite

Objectives – as per LandSAR competencies

- 4.0 Demonstrate River Crossing
- 4.01 Describe when to cross and when not to cross a waterway.
- 4.02 Demonstrate knowledge of river characteristics, dynamics, and hazards.
- 4.03 Identify an appropriate place to cross a river and justify for solo and mutual support methods.
- 4.04 Demonstrate river crossing techniques.
Range: mutual support, solo
- 4.05 Demonstrate safe river crossing technique with a stretcher.
Range: River/stream or waterway to be representative of the Groups home environment and "typical" SAR response.



Pack float option –



Beach area to teach dry land skills



Rope and stretcher

7.0 Use general purpose knots, bends and hitches for SAR

7.01 Demonstrate tying of general-purpose knots/bends/hitches for SAR.

Range: Must include – Italian hitch, tape bend, figure 8 (rethread and/or on a bight).
Where possible these should be given operational context such as a stretcher safety line.

77.0 Safely manoeuvre a loaded stretcher across variable terrain

77.01 Demonstrate care of equipment.

Range: Includes: stretcher, tapes/slings, rope and logging of equipment use.

77.02 Demonstrate manoeuvring a stretcher across or through rough terrain.

77.03 Safely belay a stretcher package up and down a moderate slope.

Range: Slope does not exceed 30 degrees, has good anchors and lower/raise meets 2-point philosophy.

Ropes site: 420m from DOC – 7min walk from hub.



Health and Safety considerations: Safety plan sent to H&S – approved 26/2/24

Task Step Break the task down into steps/sequence		Potential Risk		Controls How to make safe. Describe who does what if applicable. Align controls to the applicable risks.	Residual Risk Level (once the controls are in place)
		Hazard What can harm?	Who Causes Who could it affect? Why could it happen?		
1	Driving to and from venue	Other road users Gravel road in last section of road Poor visibility due to weather or time of the day (sunrise/sunset) fatigue		Drive to the conditions and within capabilities. Drivers to adhere to 17hour fatigue policy from LandSAR	low
2	Crossing the road between camp and hub	Being struck by moving vehicle due to road user speed, pedestrian inattention.		Observe road rules and stop, look and listen before crossing the road.	low
3	River Crossing	Heat or cold related Hypothermia from River Crossing workshop Hyperthermia from exposure to heat outside Drowning Psychological distress		Participants monitored by qualified instructors. Extra PoSAR involved as safety officer. Safety equipment present. Participants work within personal limits. Changing room facilities accessible close to event station Ability to heat to cool participants. PoSAR all have first aid certification. Mot LSAR as well. Food and water readily available Sunscreen and hats encouraged. Most participants already have some training and experience in river crossing.	Medium

Task Step Break the task down into steps/sequence		Potential Risk Separately describe each risk associated with each step		Controls How to make safe. Describe who does what if applicable. Align controls to the applicable risks.	Residual Risk Level (once the controls are in place)
		Hazard What can harm?	Who Causes Who could it affect? Why could it happen?		
4	Rope and stretcher	Slips, trips or falls Rope burn Strain or sprain Environmental injuries		Participants have suitable footwear and attire for the environment. Correct lifting techniques covered. Clear communication amongst team members when moving on uneven terrain. Activity is overseen by qualified instructor. Most participants already have some training and experience in stretcher manoeuvring.	low

Task Step Break the task down into steps/sequence		Potential Risk		Controls How to make safe. Describe who does what if applicable. Align controls to the applicable risks.	Residual Risk Level (once the controls are in place)
		Hazard What can harm?	Who Causes Who could it affect? Why could it happen?		
5	General	Medical events Allergic reactions Members of public – <ul style="list-style-type: none"> - Assault - Theft - Interfering with activity 		Participants and other guests to disclose the OCSAR of any medical conditions that may be of concern during the events planned for the dates of activity. First aid kits will be available at each workshop station and hub. Participants encouraged to carry own personal medical kits. Police SAR all have first aid certification. Defib on site. Police will be in each team and available around the venue, inc overnight. All participants to wear identifiable uniform and sign in and out. Warning around MOPs will be mentioned at opening briefing. Access for emergency services is by road. Workshop stations are a maximum 6 min walk from the DOC Centre.	low

What other risks might be on site?	Environmental – falling debris from trees, members of the public will have access around same areas and the SARex. NH90 may be working at an offsite location on the Sunday, they have their own safety plan for training agency volunteers. This training will be at a secure location, away from public access.
Have we coordinated our activities with other agencies to reduce the likelihood and consequence of an adverse event? <i>If not, why not?</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do the proposed control measures adequately manage the assessed risks and are they workable? <i>If not, what else is needed?</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What extra equipment is required?	Throw bags and float for river crossing, stretchers, defib, ear and eye protection for helicopter work
What skills and training/specialist advice is needed?	First aid, qualified river safety instructors, qualified ropes specialist – all sourced

	QID	Name	Position	Date
Reviewed by Safety Officer	WSD394	Warren SHAW	Sgt	21/2/24
Authority for task				

Catering notes:

Dinner Friday	Provider:
Selfcater	
Breakfast Sat	
Selfcater	
Snacks Sat	
Bars, fruit	
Lunch Sat	RRT
Burgers and water bottles	
Dinner Sat	Pak n Sav
cooked chickens and ham with salad bags, buns. Cake, fizzy drink	
Breakfast Sun	Pak n Sav
Cereals, with fruit and yoghurt (set up in campsite)	

****For Gluten and Dairy allergies – “Wooden Spoon” can do lunch (\$28) and dinner(\$30) boxes. Sandwich, wrap and sweet (L), meat, salad possibly garlic bread (D).**

Shopping list:

Pak n Sav: pre ordered, pick up SAT 5pm (Alton)

Pre-cooked chicken

Ham

Salads – coleslaw and potato

Buns/rolls

Canned drinks

Pak N Sav: Thurs

Breakfast cereals – Weetbix, cornflakes, muesli

Tinned fruit 420g tins x 10

Yoghurt

Fruit – apples and bananas

Snack bars - 30 boxes (enough for 2 each)

Water bottles – 7 packs of 24 (600ml) bottles (enough for 2 each)

Gluten free and dairy free snack bars from Countdown (for 6 people)

Dairy free milk

Tea, coffee, milo and milk – (from station)

Copelands – cake x2 ordered (AT to pick up Friday)

Timetable:

Friday 8 th March	Task	Equipment needed	Who is responsible?
	Pick up WanderSearch devices from Unit 9, Aston Business court, 45 the Boulevard	pendants	WS, EP, LH
	Food shop – Pak n Sav, Copelands		AT, PK
	SAR room gear		AT, PK, LH _u
	Radio gear from Hn EAST		PK, LB
	Dietary requirements pick up		WS, EP, LH
1230	Police arrival on site		
	Carparking and camp set up		

	Set up sites	Tape off and signage of areas	Police
	Registrations for anyone staying Fri night		Police
	Arrivals parking and campsite allocation		Police

Saturday 9th March (4x1.5Hrs)

Time	Task	Equipment needed	Who is responsible?
0800HRS	Registrations	clipboard	Pauline(TAPSAR)
0900HRS	Welcome and opening of SAREX	Maps, snacks, water	AT
0930HRS	Workshop A rotation		
1100HRS	Transition time		
1115HRS	Workshop B rotation		
1245-1400HRS	Lunch break		
1400Hrs	Workshop C rotation		
1530HRS	Transition time		
1545HRS	Workshop D rotation		
1715HRS	Pack up stations		
1730HRS	Back to hub for clean-up and change		
1800/1830	Dinner and social time		
Evening	LandSAR Dogs demo		

Workshop ideas:

- Ropes (inc knots and stretcher handling) – Mike GILMER (TAP SAR) confirmed
- River Crossing, - contact OTW two instructors attending 8/2/24
- Radios, contact AREC AT to contact
- Directional Finding, contact RCCNZ Keith ALLEN attending
- WanderSearch –Lorna –Emma POLSAR confirmed 16/2/24

Land SAR dogs have offered a demo in the evening – how the dogs operate, what we need to know as searchers, how to work with them if we are teamed up.... Contact made with Graeme HILL 01.02.24 – confirmed

Invited guests:

Police media – contacted with timetable TBC

Police – Insp FAULKNER – TBC

Workshop rotations:

	Ropes and stretcher	WanderSearch and Directional Finding	River Crossing and Pack float	Radios
A	Team 1	Team 2	Team 3	Team 4
B	Team 4	Team 1	Team 2	Team 3
C	Team 3	Team 4	Team 1	Team 2
D	Team 2	Team 3	Team 4	Team 1

Sunday 10th March

Time	Task	Equipment needed	Who is responsible?
	Breakfast	Table, food	
	Break camp		
	Carpool to LZ		
0900	NH90 – safety briefing and possible flight	Earplugs, safety glasses. Hi viz, covered footwear	
	Note from BC: I can probably pull the RNZAF PowerPoint used at Dip Flat for use. The Captain of the aircraft will be familiar with it. Of note on Helo safety all skin should be covered, I.e arms & legs preferably with cotton not plastic clothing. This is a crash vs fire thing. Cheers BC		
	SAREXdebrief		
	Return to campsite – final tidy		
	Carpool home		

Equipment needed:

station	Equipment	Sourced from	Whos responsible?
Rope and Stretcher	Ropes plus gear	Mike TAP SAR	Mike GILMER
	Stretcher	HN EAST Police Stn	
	Mule	Thames Stn	BC
	Mani	HN Police Stn	
	Gear bag example	Kip	LH
River Crossing	Tent for changing,	Andrew COCHRANE	Andrew
	Throw ropes and float	HN Police Stn	AT

	Stretcher	Thames	BC
Radios	Repeaters yellow	Thames and HN?	AREC/Ron & PK
	Link (green)	HN EAST Police Stn	PK
	Battery (orange)	HN EAST Police Stn	PK
	Whiteboard makers	HN EAST Police Stn	
Directional Finding	DF boxes x2 (TH&HN)	HN Police	
	Training EPIRBS	HN Police +RCCNZ	Keith RCCNZ and LH
	Batteries (AAx12)	purchase	
WanderSearch	Pendants (live)	Pick up from Te Rapa Unit 9, Aston Business court, 45 the Boulevard	
	Pendants (training - red)	DSARAC	LH
	Receivers x1	Te Aw station	Emma PETCH (PoISAR)
	Receivers x2	HN station	AT
Misc	Police tape		AT
	Station signage	Dean (KSAR)	LH
	Registration forms and stationery		
	LSAR flags	Emma GVS	Emma GVS
	Tracking poles (for signs)		

Welcome notes

- Overview of objectives
- Introduce evaluator – Vince RANGER

Acknowledgments

- DOC

- Planning committee – Darren BUTLER (Waihi), Mike MORRISON (TPW), Dean ALBISTON, Ron DAWSON (Thames), Mike GILMER and Pauline CANNON(TAPSAR), Emma DOCHERTY (LandSAR)
- Visiting agencies – RCCNZ, AREC, Outdoor Training Waikato
- SMEs within our organisations – Mike with ropes, Emma for WanderSearch, Ron with radio,

Health and Safety

- No Duff calls – on call team on site
- Comms plan
- Meeting points and evacuation plan
- Risks associated with MOP (reminded to have branded clothing)

Housekeeping

- Toilet locations
- Accessing into the DOC building
- Photography – if you do not allow you image to be taken or published. Please let the photographer know before heading off to starting station.
- Food and water times and availability
- Timetable – please stick closely to the timings
- Map of the station locations

Construct teams – *not sure how you want to do this? They divide into their own four groups with at least 2 PoISAR in each group?*

Opportunity for LandSAR Karakia to be shared if someone wants to lead it (offer this to LandSAR)

2024 Land SAREX OBJECTIVES

Theme	Objectives	Contributing Objectives	KPI
Integrated response	SAR partners collaborate effectively	Appropriate agencies are selected for and participate in the SAR exercise	<ul style="list-style-type: none"> • All agencies required for the exercise participate (LandSAR, Police, AREC, RCCNZ) • All agencies participating collaborate effectively • Liaison arrangements for inter-agency engagement are maintained
Relationships	Strengthen interagency relationships	Relationships between Police and SAR groups and AREC, are strengthened	<ul style="list-style-type: none"> • LandSAR representatives are engaged during exercise planning

			<ul style="list-style-type: none"> • All agencies and key Police and SAR group personnel engage positively • All agencies understand and are given appropriate responsibilities within the response structure
Risk Management	Risks are identified, removed, minimised or managed	Risk management systems and processes are defined and communicated by each activity	<ul style="list-style-type: none"> • Operational risks are analysed • Risk management systems and processes appropriate to the nature and complexity of the situation are defined • Briefing information appropriately addresses identified risks
		Risk awareness and management is demonstrated by all exercise participants	<ul style="list-style-type: none"> • All participants understand their personal responsibilities in regard to risks • Risk management systems and processes appropriate to the nature and complexity of the situation are defined • Briefing information appropriately addresses identified risks
Field Response	SAR operational personnel refresh and practise communication techniques to be utilised in a search and rescue operation.	SAR personnel to review message handling and the practical use of communication equipment and functionality.	<ul style="list-style-type: none"> • Participants understand the use of a two-way radio demonstrating using phonetics, radio protocols and scanning functions. • Participants understand the set up and use of repeaters and linking radios.
	SAR operational personnel refresh and practise search and rescue skills	SAR personnel to carry out a practical scenario using WanderSearch to locate the missing party.	<ul style="list-style-type: none"> • Participants develop an understanding of the people who wear WanderSearch devices. • Understand the range the devices have. • Develop confidence in using the tracking equipment.
		SAR personnel to carry out a practical scenario using Directional	<ul style="list-style-type: none"> • Participants understand the range the devices have.

		Finding Equipment to locate the missing party.	<ul style="list-style-type: none"> • Develop confidence in using the tracking equipment.
		SAR personnel participate in a river crossing and pack float scenario.	<ul style="list-style-type: none"> • Participants demonstrate appropriate river crossing techniques. • Understand river characteristics, dynamics, and hazards. • Demonstrate river crossing techniques with a stretcher. • Demonstrate pack floating and escape techniques.
		SAR personnel review recovery techniques using ropes, appropriate knots and a stretcher.	<ul style="list-style-type: none"> • Participants demonstrate tying general knots and hitches for search and rescue use. • Safely manoeuvre a loaded stretcher across and through rough terrain. • Safely belay a loaded stretcher up and down and moderate slope.
		<p>Helicopter safety and risk management systems and processes are defined and practised.</p> <p>Familiarisation of live flight.</p>	<ul style="list-style-type: none"> • Participants operate safely around helicopters. • Demonstrate safe procedures for loading and unloading personnel. • Participants can describe likely hazards around a landing zone. • Participants will have first hand experience with flight being exposed to noise and the effects of motion sickness in flight. • Participants will be familiarised with the Kauaeranga Valley terrain from the air encompassing situational awareness of the Pinnacles Hut.

Rapa Taiwhenua karakia (LandSAR Karakia)

Earlier this year New Zealand Land Search and Rescue was honoured to be gifted a karakia developed by Miru McLean (Ngai Tuhoe, Ngati Awa, Ngati Tāwhaki). He spent some time working getting to know our organisation and some of our volunteers, working with our Inclusivity Advisory Group.

His understanding of our mahi (work) has been reflected in elements of the non-denominational karakia, like reference to the natural environment and the safety of all of our volunteers.

Our staff, board, and Inclusivity Advisory Group, as well as some volunteers around the country have been learning the karakia, and we're looking forward to sharing it with the remainder our volunteers. We acknowledge that many of us are at different stages of their te reo journey, we encourage everyone to give it a go, and engage respectfully.

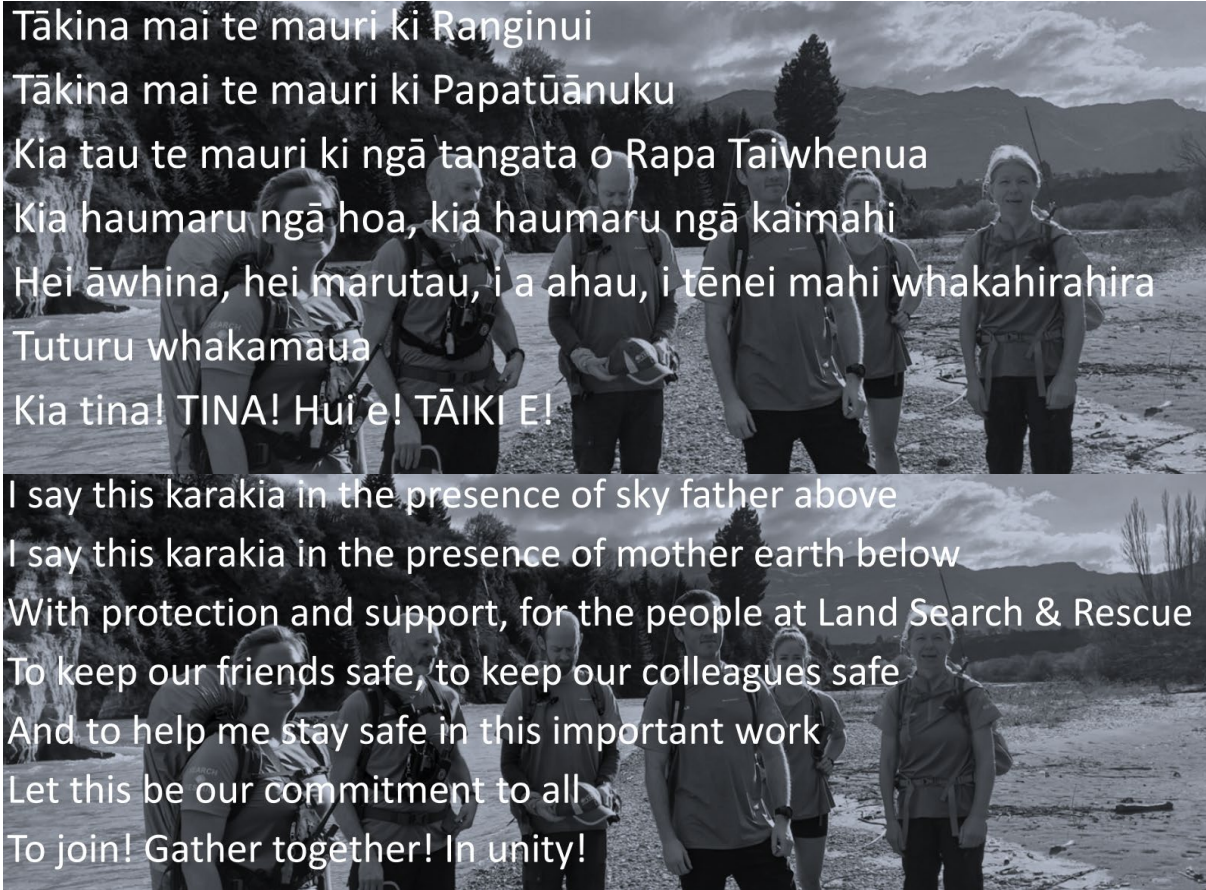
To hear more from Miru about the Karakia, [watch this video.](#)

To watch one of our volunteers, Roimata Taimana from Kūaotunu Search and Rescue talk about what the Karakia means to him, [see here.](#)

And to see some of our volunteers giving it a go, [check out this video.](#)

You can find the words of the karakia, and its [meaning here.](#)

Land Search and Rescue is developing its te ao Māori understanding (Māori worldview) to support the national organisation and staff. Te ao Māori is grounded in tikanga customary values and lore. Tikanga might be thought of as the right way of doing things according to conventions, rules or protocols. Tikanga includes principles of consensus building, respect, care, balance, intergenerational equity and relationship building. For many of our volunteers who work in local Government, Councils and Government Ministries this will be very familiar. Our national level relationships with the Government, with our funders and many of our communities have an expectation that this is understood and applied.



APPENDIX

Lesson plan – Rope and stretcher

Intro –

- Arborist for many years
- Trained in high rope rescue
- Rock climbing/mountain climbing experience
- Rope rescue in Australia

Safety brief

Caution at all times

Working around, close to steep edges

Exposed tree roots and uneven surfaces

I have direct comms with SAREXorganisers.

In the event of injury, everyone stops, those close by administer first aid, rest of the group stays where they are, wait for my direction.

At any stage, I yell stop, we ALL stop, wait for my instructions.

30 debate.....

Rope care – keep them clean, do not stand on them, small particles penetrate the protective sheath, start breaking down the internal structural fibres. Its ok for them to get wet or muddy, put in washing machine, then DRY

Slings/tapes and ropes

- Types of rope vary pending your activity, is confusing, there is lots, simply there is dynamic vs static
- load capacity, 1kn equals 100kg, 23kn rope equals 2300kg. Ropes double, tapes don't.
- End of every rope is a information tag, “no tag, no good”
- Load capacity is weight under control.
- branding, - looking for a alignment, uniformity, snags, colour change indicators
- recording of data on gear use – when and who does this. Every 6 months, best to rotate.

Carabiners

- types of carabiners – triple motion, button triple, older style screw gate
- materials – steel and aluminium

- visual inspection, cleaning
- loading – NO side loading, upside down vs right way up

Basic knots

Literally hundreds of knots

3 as per LANDSAR competencies, DON'T GO OUT CLIMBING thinking you know it all now.

- Italian hitch/Munters knot (note to self – “Italian cheeks together”)
- Tape bend
- Figure 8

Set up scenario of Manny being down a bank.

Police tape for creating channel or zone to move in a series of switchbacks rather than a straight haul.

Discuss with groups basic kit to have with stretcher, ** Kip has access to purchasing gear if groups need.

Have the mule set up as an extra if needed to accommodate for time or capacity of numbers.

Equipment:

Kip will lend his small throw bag rope.

Plan B: Kip to run if Mike is unavailable.

Mikes personal gear

Edge kit bag from TAPSAR



New Zealand POLICE Assessment Form

(Version updated September 2019)

Task: **Rope and Stretcher** Start Date: **9th March 2024**
 START TIME: **0930** DURATION: **1.5Hrs x4**
 Risk Assessment Performed by: **Lynette HORN (DSARAC-Waikato) LHZD67 and Mike GILMER (TAP SAR- LandSAR Volunteer)**
 (list all participants –name, position, QID)

#	RISK FACTOR (WHAT IS THE HAZARD?)	POTENTIAL INJURY/ILLNESS (WHAT HARM COULD OCCUR TO WHOM?)	INHERENT			CONTROL METHOD	RESIDUAL RISK			COMMENTS (e.g. responsibility & frequency of monitoring controls)
			CONSEQUENCE	LIKELIHOOD ¹			CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK	
1	Slip/trip/fall	Injury to any facet of the body	Medium	Likely	Medium	Caution at all times, indicate any danger zones to all attendees. Ensure all attendees are fit for purpose, and wearing adequate footwear.	Medium	Possible	Low	
2	Rope burn	Burn to any portion of the hand or arm	Medium	Possibly	Medium	Caution at all times, take note on hand positions, be aware of taught ropes.	Medium	Possible	low	
3	Poor Communication	Lack of clear direction	Low	Possibly	Low	Ensure directions are clear and precise. Ensure tasks allocated are fit for purpose. Encourage questions at any stage	Low	Possible	Low	
4										

¹ Inherent Risk = consequence and likelihood without controls applied

RISK MATRIX

		CONSEQUENCE				
		NEGLIGIBLE	MINOR	MODERATE	MAJOR	SEVERE
LIKELIHOOD	ALMOST CERTAIN	High Risk	High Risk	High Risk	Very High Risk	Very High Risk
	LIKELY	High Risk	High Risk	High Risk	High Risk	High Risk
	POSSIBLE	Medium Risk	Medium Risk	High Risk	High Risk	High Risk
	UNLIKELY	Low Risk	Low Risk	High Risk	High Risk	High Risk
	RARE	Low Risk	Low Risk	High Risk	High Risk	High Risk

Risk Level Key

Low Risk	Medium Risk	High Risk	Very High Risk
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RISK CONSEQUENCE TABLE

Determine the consequence of the unexpected event

CONSEQUENCE	WELLNESS AND SAFETY
Severe	Death of multiple staff, public or others outside Police.
Major	Death of individuals, extensive injury and hospitalisation.
Moderate	Significant down time and possible long-term disabilities.
Minor	Medical treatment required in single figures. Down time.
Negligible	First aid treatment required. No down time. Near misses.

RISK LIKELIHOOD TABLE

Determine the likelihood of the unexpected event

LIKELIHOOD	PROBABILITY	CHANCE
Almost certain	>95%	The event will occur in most circumstances
Likely	>65%	The event will probably occur in most circumstances
Possible	>35%	The event might occur at some time
Unlikely	<35%	The event could occur in some circumstances
Rare	<5%	The event may occur in exceptional circumstances

River Crossing – lesson plannings

Objectives – as per LandSAR competencies

4.0 Demonstrate River Crossing

4.01 Describe when to cross and when not to cross a waterway.

4.02 Demonstrate knowledge of river characteristics, dynamics, and hazards.

4.03 Identify an appropriate place to cross a river and justify for solo and mutual support methods.

4.04 Demonstrate river crossing techniques.

Range: mutual support, solo

4.05 Demonstrate safe river crossing technique with a stretcher.

Range: River/stream or waterway to be representative of the Groups home environment and "typical" SAR response.

Timetable

Saturday 9th March (4x1.5Hrs)

Time	Task	Equipment needed	Who is responsible?
0800HRS	Registrations		
0900HRS	Welcome and opening of SAREX		
0930HRS	Workshop A rotation		
1100HRS	Transition time		
1115HRS	Workshop B rotation		
1245-1400HRS	Lunch break		
1400Hrs	Workshop C rotation		
1530HRS	Transition time		

1545HRS	Workshop D rotation		
1715HRS	Pack up stations		
1730HRS	Back to hub for clean-up and change		
1800/1830	Dinner and social time		
Evening	LandSAR Dogs demo		

Workshop rotations:

	Ropes and stretcher	WanderSearch and Directional Finding	River Crossing and Pack float	Radios and SARtrack
A	Team 1	Team 2	Team 3	Team 4
B	Team 4	Team 1	Team 2	Team 3
C	Team 3	Team 4	Team 1	Team 2
D	Team 2	Team 3	Team 4	Team 1

Lesson plan - River Crossing

4.01 Describe when to cross and when not to cross a waterway.

4.02 Demonstrate knowledge of river characteristics, dynamics, and hazards. - water speed, water clarity.

4.03 Identify an appropriate place to cross a river and justify for solo and mutual support methods. entry and exit points, straps on pack harness, number in group, position in group.

4.04 Demonstrate river crossing techniques.

Range: mutual support, solo

4.05 Demonstrate safe river crossing technique with a stretcher. -discuss straps done up vs undone, discuss testing out of route first before completing a stretcher carry point A to B

Range: River/stream or waterway to be representative of the Groups home environment and "typical" SAR response.

Run Sheet (Alternate leads for each section between groups)

Task	Equipment needed	Who is responsible?
Introductions – All – 5 mins	NA	Shaun
Quick check in - how are we feeling, PPE, Can everyone swim? – 2 Mins	NA	Shaun Shaun (Team 1 and 3) Doug (Team 2 and 4)
Q when can we cross a river bed on foot? – 2 mins	Brains	Shaun (Team 1 and 3) Doug (Team 2 and 4)
River Conditions – sight, sound, stomach- 2 mins	River	Shaun (Team 1 and 3) Doug (Team 2 and 4)

Warning signs, depth, speed, turbulence, colour, boiling, strainers, eddies and slime, rainfall, dark clouds over the hills – 5 mins	River	Shaun (Team 1 and 3) Doug (Team 2 and 4)
Resources – if you have to cross what do you have on or with you to help? (leaves, sticks, packs people, ropes). 2 Mins	Each other	Shaun (Team 1 and 3) Doug (Team 2 and 4)
Body Prep – pack, boots, sticks, jewellery etc. 2 mins	River	Doug (Team 1 and 3) Shaun (Team 2 and 4)
Entry and exit points – 2 Mins	Each other	Doug (Team 1 and 3) Shaun (Team 2 and 4)
Single Person crossing – Demo – dry land 5 mins – sticks packs etc.	Land	Doug (Team 1 and 3) Shaun (Team 2 and 4)
Multiple person crossing – Demo dry land – 10 mins – packs, straps, person size and confidence order, – forward - back, caterpillar, rocklift.	Land – 3x6 groups	Shaun (Team 1 and 3) Doug (Team 2 and 4)
Single person crossing (5 mins)	River sticks and packs – Officer on throw rope.	Doug (Team 1 and 3) Shaun (Team 2 and 4)
Multiple person crossing (15 mins)	River sticks and packs Officer on throw rope	Shaun (Team 1 and 3) Doug (Team 2 and 4)
Pack Float prep 5 mins	Packs and people.	SAR person Doug and Shaun in support
Float Time – 25 mins	Packs, people, throw rope – Doug and Shaun.	SAR person Doug and Shaun in support
Quick check in - Injuries etc. 2 Mins	Brain	Shaun (Team 1 and 3) Doug (Team 2 and 4)

Extra if time allows :

Pack float.

Location – the SAREX will be based at and around the Kauearanga Visitor Centre, 995C Kauaeranga Valley Road, Thames 3577. The track leading to the river is off the end of the Shag Stream Campsite (you can drive to the start of the short track to the river)



Access to river crossing station from end of Shag Stream Campsite.

Activity	River Safety Overview	Course Director	Shaun Hodson Doug Faulkner	Supervision Structure	1-8
Date	2 December 2023	Trainee Instructor/s	Police and SAR experienced personnel.		
Activity	River Crossing	Participants	SAR – 16 per group x 4 groups	Total Participants	16

Location/venue start Include grid references	Kaureanga Valley		Location/Venue finish	Kaureanga Valley	
Access permission	Granted by DOC		Water supply	Streams and DOC offices	Toilet facilities Doc offices
Accommodation	NA	Does the area have mobile phone reception	Unreliable: Known pts by SAR	Where is the nearest reliable communication/emergency help	DOC Offices – 5 mins away.
Communications	PLB Cell ph 027 493 9154	Intentions left with		Sharon Hodson 027 8211989	

Eliminate (E) by ensuring that the hazard no longer exists, or is no longer part of the activity e.g. Do not take people under a certain age or without a certain skill set. If this isn't possible:

Isolate (I) by putting in place a process or mechanism that keeps people away from the hazard e.g. Establish a no go zone or portage, a rapid. If this isn't possible;

Minimise (M) by doing whatever you can reasonably be done to lesson the hazard, this should be to a point where you can no longer consider the

hazard to be significant			
Signiant Hazard	(E) (I) (M)	Management strategies	Whose responsibilities
Slips, trips and falls	M	Stick to tracks, advise when approaching danger areas, support system	Leader / All
River Crossings	M	Safe crossing points on Shagstream chosen. This is a river crossing short course with trained instructors and SAR / Police support crews on hand.	Leader
Lost person	M	Teach navigation. Put rules in place. Leader, tail. Keep in contact during tramp. Stay in pairs around camp. Teach leadership responsibilities	Leader / All
Accident	M	Instruct students to be careful when crossing river. Dry land demo before wet practical. Help each other over obstacles. Instruct them to point out dangers to others. e.g., slippery rocks, entry and exit points, strainers, and holes. First Aid kit on hand.	Leader/All
Equipment	M	Check poles, throw ropes and packs prior to starting.	Leader /All
Hypothermia	E	Hand out clothing lists. Remind them on layering and clothing properties. Keep an eye on the weather. Check on party members as we progress. Teach leadership responsibilities. Care over waterways.	Leader/All
Poor Hygiene	M	Remind students to wash hands after being in the river, going to toilet, before cooking meals – handling food. Covid precautions apply – minimum distancing and hand sanitisers.	Leader/all
Allergies	M	Open forum to disclose. Ask questions. Health forms	Leader
Blisters	M	Ensure new boots are broken in prior to tramp. Treat blisters at earliest opportunity. Two pair of socks	Leader. All
Environmental damage	M	Environment code. Leave the land undisturbed	Leader. All
Fears	E	Water, heights. Question students. Ensure they have no issues/concerns	Leader
Medical Issues	I	Participants requiring special attention (include description such as medical or behavioural As noted on the Intention forms: Noting Asthmatics and high functioning Autistic on board.	All
Weather	M	Check weather Check prior to trip, adequate clothing check on training night.	All