

# **The Official Newsletter of the Auckland VHF Group Inc. Spectrum**



Greg ZL1GSG is calibrating his Nano-VNA  
with Mark ZL1UMK and Stephen ZL1SRH watching the procedure

The Meeting(s) Agenda	— page 3
President's Column & SGM details	— page 4
Minutes of March Meeting	— page 5
Checking members' Antennae with a VNA	— Page 6
DX Weekend Results	— page 7
Invitation to the 50th Anniversary	— page 8
What is the purpose of SOTA ?	— page 9
AREC News	— page 12



# Auckland VHF Group Inc.

## Branch 66 NZART

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Clubrooms: 30 Hazel Ave, Mt Roskill

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	Mark Howie	ZL1UMK	022 047 3240	mark@aucklandvhf.org
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ZL1VHD Dstar gateway administrator:		Laurie ZL1ICU	634 5130 0274 817463	perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :		<a href="http://zl1vhd.dstar.org.nz">http://zl1vhd.dstar.org.nz</a>		

### Club News and Net:

The combined Auckland VHF Group and Auckland Regional Branch News and Net are held on 146.625 MHz and 439.875 MHz at 8.15 pm each Sunday or after the ZL6A National Broadcast on the last Sunday of the month.

Club meetings are held at the Clubrooms at Hazel Avenue, on the second Monday of each month at 7.30 pm. For other details, listen to the News and Net each Sunday evening.

**SPECTRUM** is the official journal of the Auckland VHF Group Inc. Opinions expressed are those of the authors and do not necessarily reflect club points of view. The closing date for SPECTRUM articles is by the 1st of each month. Articles to be submitted to the editor Peter ZL1UKG  
**[spectrum@aucklandvhf.org](mailto:spectrum@aucklandvhf.org)**

# **Auckland VHF Group (Inc) Branch 66**

## **Notice of General Meeting**

At the Hazel Avenue Club Rooms  
(Located on the left at the end of Hazel Avenue)

A short meeting of Auckland AREC members will take place at the VHF Group Clubrooms from 6:30 pm prior to the Meeting. Vaughan ZL1VH will discuss the DMR radios now used. AREC is developing a training syllabus. Once it is available there will be Study sessions and exercises. Come along if you are interested.

**The Auckland VHF Group Meeting will be held on Monday 11 April at the Clubrooms, 30 Hazel Avenue from 7.30pm onwards**

### **An SGM is required to confirm Financial Reports**

This will be followed by the usual Meeting beginning with  
**Our guest speaker is Jort Bloom who will share his knowledge of the Arduino.**

**He may be joined by Chris Anderson who has a wealth of knowledge using the Arduino.**

All welcome.

In keeping with current Covid restrictions, masks are to be worn.

### **Coming Events:**

- Sat 21 May, Radio Electronics Group annual new & used equipment Sale at the Glenview Club, 211 Peacockes Road, Hamilton, Vendors from 8:30, Doors open from 10 am.  
\$2 entry ticket with Door Prices and Refreshments.
- Sat 28, Sun 29 May Ham Cram Course North Shore Radio Club.  
Please email **training@nsrc.nz** for more information.

## Auckland VHF Group President's Column

### VHF Group Presidents Report April 2022

We have been out boating for the week-end, so the only radioing we have done is with Coastguard.

As you will read elsewhere in this edition, Vaughan is going to come an hour early (6.30) to our general meeting on 11th April and address anyone interested in AREC, to show us how to use our DMR radios and discuss what he knows. The AREC organisation is developing its training syllabus, and once that arrives we will be having study sessions and exercises in preparation for the nation's next disaster! So do come along for that, if you want to get involved.



My second SuperEight 70cm aerial we tested at our meeting last month didn't work, which puzzles me. It is made with stainless steel strapping, and is the same dimensions as the mild steel prototype which did work! I guess I need to remove the reflector and director and check out the basic figure eight loops. They are two full wave loops (100 Ohms each) in parallel. Should work. Did work!

See you Monday

Cheers, Matthew King      022 6493310

## **Minutes of the March General Meeting of the Auckland VHF Group Inc., held on Monday 14 March at the Clubrooms, Hazel Avenue, Mt. Roskill**

The meeting commenced at 20:15 following the Antenna Testing conducted outside

**Present:** Matthew ZL1YOT, George ZL1TUX, Basil ZL1TOW, Vaughan ZL1VH (Secretary),  
Darryl ZL1TCI, Greg ZL1GSG, Margaret ZL1AYV, Stephen ZL1SRP, Mark ZL1UMK,  
Philip ZL1PSH, Brian ZL1UXB

**Present Via Teams:** Teams was not used.

**Apologies:** ZL1TIA

### **Minutes of the March 2022 General Meeting**

These were published in the March 2022 issue of Spectrum on pages 5 and 6.

Motion: "That the minutes of the November General Meeting, having been published, be taken as a true and correct record of that meeting." Moved ZL1YOT Seconded ZL1GSG Carried

Matters Arising: ZL1VH reported that the forest land that includes our Klondyke site has been put back on the market. It was taken off late last year due to the Covid virus. The sale is expected to be concluded by the end of March/early April.

**Reports:** There were no reports.

### **General Business**

1. Basil ZL1TOW suggested that we obtain a copy of the Information Memorandum relating to the property being offered for sale at Klondyke. Our interest in the land in the form of our Licence to Occupy should be included so potential purchasers can be informed.
2. Darryl ZL1TCI had brought along a Excera DMR repeater with power supply. The repeater uses an Excera EM8100 VHF (153 MHz) DMR mobile transceiver and is configured to use DMO mode (Direct Mode Operation. This makes use of the two time slots in the DMR radio to receive on Time Slot 1 and transmit the voice packets on time slot 2 using just a single frequency. In practice, there is a very small time delay (30 milliseconds) as the DMR radio receives the voice packet on one time slot and re-transmits on the other time slot.
3. ZL1TIA has offered the Group a mini-Spectrum Analyser to raise funds for Klondyke. The aim is to raise \$1000.00 for Klondyke. The Committee has researched the rules relating to selling the raffle tickets and have suggested \$10.00 per ticket.
4. Meeting concluded with a general discussion on the National System, DMR radios and possible ways to upgrade.

Meeting Closed at 20:30

## Antenna Testing

Greg ZL1GSG brought along a Mini-VNA and Mini-Spectrum Analyser. Using these the antenna under test could be swept to determine its resonant frequency and using the beacons at the clubrooms as a signal source, albeit at bit too strong a signal, some idea of the antennas receive response could be obtained.

Only two members brought antennas to be tested: Vaughan ZL1VH brought along a 6m horizontal "squalo" antenna which turned out to be resonant on 51 MHz. His other antenna was a 3-element Yagi built a few years ago for a quick direction finding job. This turned out to be resonant at 153 MHz and needed "stretching" to get it down to the 2m band.

Matthew ZL1YOT brought along his latest iteration of a figure-8 antenna. The Super Eight antenna is basically two 100 Ohm loops fed in parallel, with similar but slightly smaller director in front, and slightly larger reflector behind. Designed on 4NEC2, gain predicts 12dB. Some of the settings he was not sure of, like element diameters, and using stainless straps rather than round rods.

The driven element on its own has a small reactance, which is negated by the reflector and director. The first prototype resonated a bit high, so I made the second one slightly larger and it was spot on. 70cm. This model is made of stainless pipe straps, but Matthew advises that he's screwed up somewhere and it's not right. Tried swapping the dialectic holding the two feed points, to no avail, tried different coaxes. Not fixed.

ZL1YOT with his Super-8 Loop



ZL1VH's 3-element Yagi on test





## Results of the 2022 DX Weekend Contest – 12/13 February

VHF-UHF-SHF-EHF Contests, as administered by the Auckland VHF Group Inc; on behalf of all VHF groups, including all New Zealand radio amateurs and supported by NZART.

Overall Winner	Station	Points	Greatest DX Stations	Distance
	ZL4OL	1644	6m ZL3NW – ZL4OL	308 km
	ZL1SWW	347	2m ZL1DI – ZL2TC	387 km
	ZL2VS	237	70cm ZL1AKW- ZL1SWW	154 km
	ZL1DI	180	23cm ZL4OL - ZL3NW	308 km
	ZL1GSG	17		
	ZL1TPH	12		

Band winner	Station	Points
6 m (50MHz)	ZL4OL	162
	ZL2VS	15
	ZL1SWW	11
	ZL1GSG	3

Band winner	Station	Points
2 m (144MHz)	ZL4OL	479
	ZL1SWW	206
	ZL1DI	180
	ZL2VS	177
	ZL1GSG	6

Band winner	Station	Points
70 cm (432MHz)	ZL1SWW	114
	ZL2VS	30
	ZL1GSG	8

Band winner	Station	Points
23 cm (1296MHz)	ZL4OL	1003
	ZL1SWW	16
	ZL2VS	15
	ZL1TPH	12

### Active Stations (28 in total)

ZL1AKW, ZL1AVZ, ZL1BQE, ZL1BRL, ZL1DI, ZL1GSG, ZL1HI, ZL1PR, ZL1SWW, ZL1TBG, ZL1THH  
ZL1UET, ZL1VH

ZL2ALW, ZL2JBK, ZL2MF, ZL2TC, ZL2VS

ZL3DC, ZL3JJ, ZL3LM, ZL3MH, ZL3NW, ZL3RC

ZL4DK, ZL4ES, ZL4LV, ZL4OL

**Check Log** ZL3RC

### Operator Comments

The weather was frankly disgusting and very few stations were around on the Sunday especially. Staying at home would have been the sensible thing to do.

The weather was too bad to out portable like planed so worked from home. Highlights were working Auckland on 2meters from home in Marton. Went to contest site on Saturday with good intentions. Thought I would wait until the rain stopped???. That did not happen. It went from light rain to a continuous torrential downpour, and did not let up. Went home about 1600hrs. Too wet to put up

antennas and tent.

(wimped out sorry). Gravel road was starting to show signs of wash out, so best I didn't stay. Had a listen from home, none of my VHF antennas are high enough for decent long range reception. Did not hear any one, not even ZL4AA or ZL4DK. Assume I was not the only one rained off.

Disgusting weather (Dova) for everyone put everyone off from doing the contest in the field. All stations worked were from home stations. Great to hear the boys from the Whanganui area. Proves what can be done from home circa 350 + km. Windy as hell in Auckland but lucky everything stayed upright!

Great to see that ZL1DI was out there and portable in Auckland.

Thanks to all that participated

Simon, ZL1SWW

Greg, ZL1GSG

### **Brendon Reid has invited you to AK VHF Club - 50th Anniversary of opening of clubrooms**

Title: AK VHF Club - 50th Anniversary of opening of clubrooms

Location: Hazel Ave Clubrooms

When: Saturday, 29 October 2022 2:00 pm – 4:00 pm

Organizer: Brendon Reid <Brendon@aa.net.nz>

Description: Join us for finger food and refreshments to celebrate the 50th Anniversary of the opening of the Hazel Ave Clubrooms

View a demonstration of the National System Radio Repeater Network.

See the latest SDR Radio in Operation Watch a Microwave Contest Station in action

Meet some of the characters who have made the Auckland VHF Club what it is today.

Attendees: aucklandvhf <aucklandvhf@googlegroups.com>

Join us for finger food and refreshments to celebrate the 50th Anniversary of the opening of the Hazel Ave Clubrooms

View a demonstration of the National System Radio Repeater Network

See the latest SDR Radio in Operation Watch a Microwave Contest Station in action

Meet some of the characters who have made the Auckland VHF Club what it is today.

If you are unable to attend in person for any reason,  
please join us via the teams link <https://tinyurl.com/3zpt2td8>



## **Summits on The Air (SOTA) Part 1**

*By Philip Sharp ZL1PSH*

Phil began explaining. "SOTA is a great award program – " "Yea right!", interrupted Chris. "You lug a radio, food and water up a blink'ng mountain, throw up a primitive antenna, make a few QSOs, only to come back down the mountain. Where's the fun in that?" Phil, surprised at his friend's intensity, said "There is a lot more to SOTA than transmitting from summits. You..." Chris, interrupted again - "And what's more, if I don't make four QSOs, I don't get any points, it's just as bad as the high jump at the Olympics!" "You're right Chris, three QSOs, no points. But an operator almost always gets four QSOs." Phil stopped at this point as Chris was clearly not interested in another point of view.

### **Introduction**

Summits of the Air (SOTA) is a UK award program that almost any ham can participate in. You do not need to be a fit hiker, not even a hiker. You can be a dedicated armchair operator and still earn awards and get much enjoyment from participating in SOTA.

An operator can be an activator, a chaser or a short-wave listener (SWL), and can switch between the three roles as they wish. Activator's drive, motorcycle, cycle, hike, climb or fly to summits and contact chasers. Chasers and SWLs can operate from almost anywhere; many operate from their home shack. If an activator makes QSOs with four different chasers in one day from a summit, the activator is said to have qualified the summit and scores 1, 2, 4, 6, 8, or 10 points. The exact number of points depends on the height of the summit above sea level. A chaser gets the same points as an activator but needs just one QSO with any activator on the summit to get the points. If a SWL hears a QSO between an activator and a chaser, the SWL earns the same points as the activator (and chaser).

An activator can score the points for a summit once a year only; a chaser or SWL can score for a summit once a day.

### **Associations**

Each country participating in the SOTA awards program is divided into one or more associations. For example, New Zealand has five associations (North Island, South Island, Chatham Islands, Kermadec Islands, and the Sub-Antarctic Territories), and Australia has nine associations. These associations are used in part to fine-tune the general SOTA rules so that differences in topography do not unduly disadvantage operators in some parts of the country. For instance, the South Island has more high summits than the North Island. A summit must be higher in the South Island than the North Island to get the same number of points.

### **Awards**

#### **All Summits Award**

With the All Summits Award, certificates are available for accumulating 100, 250, 500, 1000, 2500, 5000, ... points. There are separate certificates for activators, chasers and SWLs. The following trophies are also available:

- \* The "Mountain Goat" trophy for scoring 1000 activation points.
- \* The "Shack Sloth" trophy for scoring 1000 chaser points.
- \* The "SWL" trophy for scoring 1000 SWL points.

#### **Unique Summits Award**

For the Unique Summits Award, each summit counts once only, regardless of the number of times the operator has scored points for the summit. Certificates are available for accumulating 100, 250, 500, 1000, 2500, 5000, ... different summits. There are separate certificates for activators, chasers and SWLs.

#### **Summit to Summit Award**

Certificates are available for accumulating 250, 500, 1000, 2500, 5000, ... points for QSOs when the chaser is on a summit. As well as earning summit to summit points, operators often earn chasing points and sometimes activation points.

### SOTA Complete Award

Certificates are available for both activating and chasing 100, 250, 500, 1000, 2500, ... different summits. The activation and chasing of a summit can be years apart.

### Mountain Explorer Award

The Mountain Explorer Award is for qualifying two summits in each of a prescribed number of associations. Some levels of the award require the associations be spread across two or more continents.

### Mountain Hunter Award

This award is for chasers and SWLs. It is awarded for chasing at least one summit in each of a prescribed number of associations. There are separate awards for 'all bands' and '70 MHz and above' (the 4m band is used in the UK). Some levels of the 'all bands' award require the associations be spread across two or more continents.

### Microwave Award

The Microwave Award is available for each of the microwave bands 1.2, 2.3, 3.4, 5.6, 10, 24, 47, 76, 123, 136, & 248 GHz. For each band, certificates are available for distances of 50km, 100 km, 150 km, ..., up to 1000km. Endorsements are available for the mode and a summit-to-summit QSO. Competitors in NZART VHF contests can earn this award during some contests.

### Examples of certificates

The webpage <https://vk1nam.wordpress.com/sota-award-certificates/> of Andrew VK1AD has images of SOTA certificates he had earned.

### SOTA in Auckland

I find it surprising, given Auckland has a population of around 1.5m million and nine NZART branches, that SOTA has a low profile in Auckland. The profile would undoubtedly be increased by having more activators and chasers. Increasing the number of activators brings two benefits: there would be more points available to chasers and SWLs, and activators would earn more summit to summit and chaser points. Increasing the number of chasers means activators are more likely to qualify a summit and this encourages activators to qualify further summits, leading to more points for chasers. Hence, there is a symbiotic relationship between activators and chasers. SWLs benefit from more activators and chasers.

Auckland and the surrounding area have summits which do not require much effort to get to. Operators new to activating can use these summits to gain the experience. The summits include the following:

1. Moir Hill. You can drive to the summit.
2. Pukekohe Hill. You can drive to the summit.
3. Manukau Heads. A ten-minute walk from the car.
4. Klondyke. A ten-minute walk from Klondyke Road.
5. Maungawhau / Mt Eden. A twenty-minute walk from the main visitor car park.
6. Puketutu. A thirty-minute walk from the road end.
7. Rangitoto Island. A sixty-minute hike to the summit from the wharf.

I have started publishing a monthly electronic newsletter called 'The SOTA Summit for SOTA in Auckland'. If you would like to be added to the distribution list for the newsletter, send me an email at [zululima1psh@gmail.com](mailto:zululima1psh@gmail.com).

**Equipment:** We will supply several handhelds and HF kits. If you wish, you can bring a handheld for 2m and/or 70cm, along with antennas for the handheld.

**Spotting Apps:** Spotting apps are used to let other operators know you have started qualifying a summit. The use of a spotting app almost guarantees you will get the four QSOs needed to qualify a summit. You can use the apps on the organizers' phones to spot yourself. Alternatively, and before the start of the activity day, you can install a spotting app on your phone. You will need to create an account on SOTAwatch. This is not difficult to do. Two commonly used spotting apps are SOTA Spotter for Android devices and SOTA Goat for IOS 6 devices.

## Auckland Introductory SOTA Day

**When:** 11:30 to 15:00, Sunday April 3. If it rains, Sunday April 10 (tbc) 11:30 to 15:00.  
Although you are welcome to attend at any time between 11:30 and 15:00, you will likely get more QSOs before 14:00.

**Where:** The summit of Maungawhau / Mt Eden.  
The orange circle in the image below shows the meeting area for the day. This area is near the intersection of the ring and spur roads.

**Parking:** Motorists are not permitted to drive to the summit of Maungawhau. The purple arrows in the map below show the two closest car parks to the summit. If these car parks are full, you will need to park on a nearby street. Parts of the roads on Maungawhau are one-way. Instead of driving, you could use public transport or be dropped off.

**Bands Used:** 2m (146.5) and 70cm (432.750 on TG99, CC1, TS1 on DMR and 432.800 FM). 2m will be the primary and 70cm the secondary. Also, 60m (5.363), 40m (7.090), 20m (14.310).

**Chasers:** You can join the fun by being a chaser. No chasers, no SOTA. You can see activator spots at <https://sotawatch.sota.org.uk/en/>

**Equipment:** We will supply several handhelds and HF kits. If you wish, you can bring a handheld for 2m and/or 70cm, along with antennas for the handheld.

**Spotting Apps:** Spotting apps are used to let other operators know you have started qualifying a summit. The use of a spotting app almost guarantees you will get the four QSOs needed to qualify a summit. You can use the apps on the organizers' phones to spot yourself. Alternatively, and before the start of the activity day, you can install a spotting app on your phone. You will need to create an account on SOTAwatch. This is not difficult to do. Two commonly used spotting apps are SOTA Spotter for Android devices and SOTA Goat for IOS 6 devices.

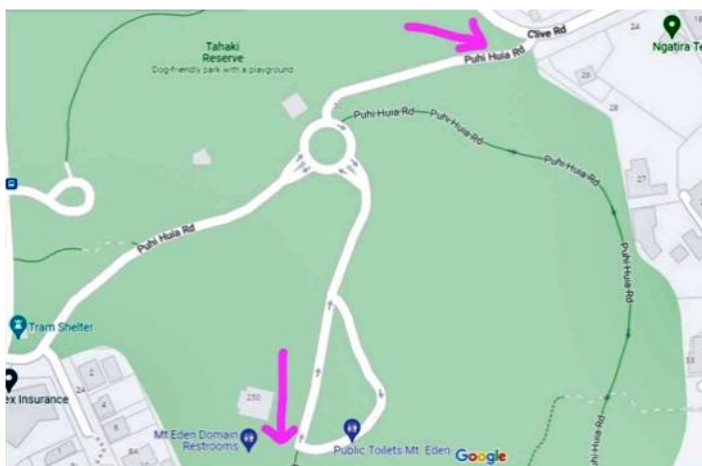
### Break-In Article

The May – June issue of Break-In will have a report on the activity day. The report will include photographs of the participants. This is your chance to help promote SOTA and amateur radio in New Zealand.

### The Organizers

The organizers of the activity day are Soren ZL1SKL, Sasha ZL1JX and Philip (Phil) ZL1PSH. Soren has been participating in SOTA for several years and introduced Sasha and Philip to SOTA late December, 2021.

73 Philip ZL1PSH





## **Amateur Radio Emergency Communication.**

**Volunteers in radio communications.**



**Using our resources to help the community.**

### **INFORMATION**

The Auckland VHF Group has an AREC Group that works closely with Auckland Council Emergency Management. They provide advice, resources and manpower to assist in times of need. The AREC section is headed by Group Leader Matthew King ZL1YOT.

From time to time the VHF Group has training sessions and exercises. Members also assist with sports events, parades and other community activities. For further information about AREC please see the NZART web site: <http://www.nzart.org.nz/arec/>

### **JOIN BRANCH 66 AREC**

All members of the Auckland VHF Group are encouraged to join the AREC section. Your contribution, large or small is appreciated by all involved. For further information about joining Branch 66 AREC contact the Group Leader:

Matthew King ZL1YOT                      022-6493310                      mattking@gmail.com  
The Deputy Leader position is currently vacant

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### **AREC News:**

#### **AREC Auckland District Training Weekend June 11,12**

The training weekend is mainly designed for District Managers, Group leaders and their deputies, but is open to any AREC members who wish to attend.

It will run from Saturday morning until Sunday afternoon and will cover a range of topics relating to the future direction of AREC, use of the new IT systems including Training management system, Membership system, Microsoft 365 productivity tools, (Teams, Sharepoint, AREC email accounts etc). Those leaders and managers who have not yet activated or have problems with their @arec.nz accounts and need help to set up their computers and laptops will get hands on assistance.

This will also be an opportunity to meet and talk to members of the National management team about any other matters you wish. The training will be held at either Papakura Branch 65 HQ or the North Shore Radio Club rooms. (Yet to be decided)

Could you please let Andy Brill, AREC Regional Manager North know if you plan to attend so that he can make arrangements. His email address is : [RMNth@arec.nz](mailto:RMNth@arec.nz)



## AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR  
SUBSCRIPTION

### SUBSCRIPTIONS FOR 2022

THE SUBS GO TOWARDS;

- Maintenance and on-going improvements to beacons, repeaters and linking systems for the national system, including the Klondyke repeater site.
- Providing on-time and free access to spectrum magazine as soon as it is available.
- Providing facilities for good speakers and lecturers at our general meetings.
- Discounted access to our trading table goodies.
- Access to test equipment and technical help when needed.

FULL MEMBERSHIP **\$55.00**

ASSOCIATE MEMBERSHIP **\$50.00**

FAMILY MEMBERSHIP ADDITIONAL **\$20:00**

***SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)***

**REMEMBER TO KEEP US INFORMED OF YOUR EMAIL  
ADDRESS!**

**OTHERWISE WE CANNOT SEND YOU SPECTRUM!**



**Thought for the month:**

**"The most difficult thing is the decision to act. The rest is merely tenacity."**



# **AUCKLAND VHF GROUP INC.**

P O Box 10138, Dominion Rd, Auckland 1446,  
30 Hazel Avenue, Mount Roskill, Auckland,  
Web: <http://www.aucklandvhf.org>  
NEW ZEALAND



NAME				
Mr/Mrs/ Miss/Ms	Christian or given		Surname	
Address			Date:(dd/mm/yy)	
			Phone: (home)	
			Phone: (work)	
Email			Phone (Cell)	
Occupation:			Callsign:	
NZART Member	Yes/No		Branch assigned	
AREC Member	Yes/No		Branch assigned	
Family Member 1	(Name)	(Call)	(Email)	(Mobile #)
Family Member 2	(Name)	(Call)	(Email)	(Mobile #)
Family Member 3	(Name)	(Call)	(Email)	(Mobile #)
Category			To pay	
Membership	Full		\$55.00	\$
New/Renewal/Change	Associate		\$50.00	\$
Receipt #	Family (per member)		\$20.00	\$
Donations	Klondyke Refurbishment			\$
Auckland/Brynderwyn/ Klondyke/670/690	Repeater Maintenance			\$
	Data/D-Star			\$
	Beacon/Repeater/Links/ Licences			\$
	Other			\$
			<b>Total</b>	\$
Payment (Mark One →)		Cash <input type="checkbox"/>	Cheque <input type="checkbox"/>	Internet deposit <input type="checkbox"/>
Invoice/Statement required		<i>Please Advise Treasurer</i>		
Internet	To account ASB 12-3011-0830580-00. Account name is: Auckland VHF Group Inc. Include your Name/Callsign for us to track. Note: this form needs to be sent to us to update records. Email to: <a href="mailto:treasurer@aucklandvhf.org">treasurer@aucklandvhf.org</a> .			
Post	The Treasurer, Auckland VHF Group Inc., PO Box 10138, Dominion Road, Auckland 1446.			
In Person	Bring this form and payment to the next club meeting, 2 <sup>nd</sup> Monday of the month or to the Committee meeting the 4 <sup>th</sup> Tuesday of the month.			
Privacy	Unsubscribe from Email Notifications <input type="checkbox"/>		Do Not disclose contact Information <input type="checkbox"/>	

***The Auckland VHF Group Inc Branch 66 NZART***  
*gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and  
 Fixed Links license fees and the Group's repeater operations by the following  
 radio amateurs and NZART Branches for 2022*

**2021-2022, Donations for Repeater Licences and Klondyke Refurbishment**

<b>Frequency + Operation</b>	<b>Location</b>	<b>Donation</b>	<b>Donor Name</b>
<b>53.725 Repeater</b>	Klondyke Road	\$50.00	Gwynne Rowe
<b>144.253 Beacon</b>	Nihotupu	\$50.00	Terry Corin
<b>144.575 Digipeater</b>	Whitford		
<b>145.625 Data Rptr</b>	Klondyke Road		
<b>145.650 D-Star Rptr</b>	Klondyke Road	\$50.00	Terry Corin
<b>146.625 Repeater</b>	Klondyke Road	\$50.00	David Wilkins
<b>146.700 Repeater</b>	Ruaotuwheua	\$50.00	Simon Bridger
<b>146.900 Repeater</b>	Mt Puketutu	\$50.00	David Wilkins
<b>432.253 Beacon</b>	Nihotupu	\$50.00	Terry Corin
<b>438.175 D-Star Rptr</b>	Klondyke Road	\$50.00	Terry Corin
<b>438.450 Repeater</b>	Klondyke Road		
<b>438.500 Repeater</b>	North Head	\$50.00	Terry Corin
<b>439.850 Kaimai Link</b>	Klondyke Road	\$50.00	George Marr
<b>439.875 Nat System Rptr</b>	Klondyke Road	\$50.00	Soren Low
<b>439.900 Egmont Link</b>	Klondyke Road	\$50.00	Yuri Muzyka
<b>439.950 Brynderwyn Link</b>	Klondyke Road	\$50.00	Terry Corin
<b>1291.900 Repeater</b>	217 Glenfield Rd	\$50.00	Michael Sheffield
<b>DMR Rptr (Waitakere)</b>	Quinns Rd	\$50.00	Auckland Area AREC
		<b>\$750.00</b>	

**2021-2022, Donations for Refurbishment**

Franklin Radio Club	\$200.00
Terry Corin, ZL1BPA	\$1000.00
Papakura Radio Club	\$500.00
Soren Low ZL1SLK	\$100.00
Ann Walker ZL1BFB	\$100.00
	<b>\$1900.00</b>

**Total \$2,650.00**



## Klondyke Tower Donations towards Maintenance

**Target      100,000**

Name	Donation	Pledge
Donations 2018 - 2021	9444.00	
George Marr      ZL1TUJ	50.00	
Dave Dingley      ZL1TIA	205.00	

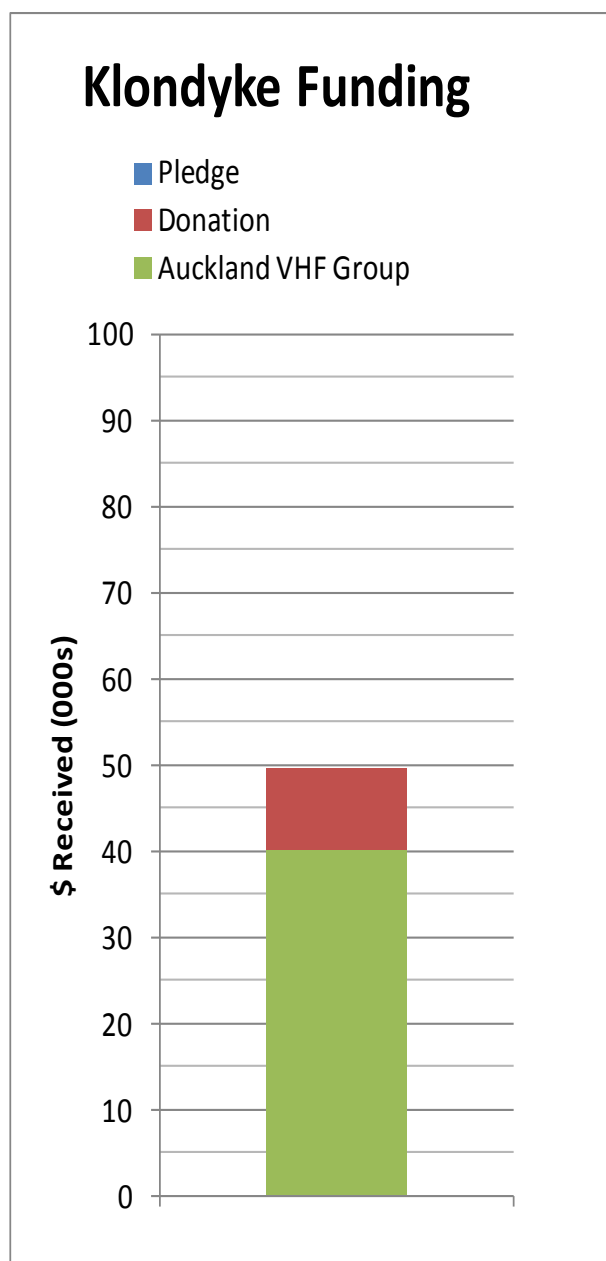
Tower      63,245.00      Other      27268.25

GST      9,486.75

Total      72,731.75      Total      27,268.25

Auckland VHF Group      40,000.00      40.00

Total	9699.00	-
Percent	9.70	0.00



## TRADING TABLE

Currently our Trading Table is only open on meeting nights.

**NEW** – Printed Circuit Board. Thanks to a generous donation from N.Z.'s last circuit board production company (now closed down), we have a large quantity of single sided fibreglass printed circuit board material in sizes ranging from 1200 x 600 down to smaller pieces. There's some double sided board as well. Come along to our May meeting if you want some – prices can be negotiated!

**NEW** – RG58C/U 50 Ohm Coaxial Cable. Thanks to a bulk purchase we are able to offer this good quality coax at a competitive price. The cable has tinned centre conductor and screen braid making it resistant to long term corrosion. The price is \$2.00 per metre with a discount for purchases of 20m or more. See Vaughan ZL1VH on meeting nights to get this quality coax cable.

The Trading Table is now on line. Navigate your way to our new look web site at <https://aucklandvhf.org/> and click on TRADING TABLE (the most right hand tab).

Wait a few seconds and the on-line version of the Trading Table will pop up. From here you can browse the various sections, dig deeper to look at what's available and even place your order online.

If you prefer to just look at the Trading Table List, just hover your mouse pointer over the TRADING TABLE and a pull down list will appear. From this you can access the full trading Table list and download it in .PDF form.

We also have heaps of parts from dismantled commercial analog TV gear – transmitters, filters, circulators, patch panels, power supplies. Too much to list individually, so come along to the clubrooms and have a look.

