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**Data Driven** 

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The information in this presentation that relates to exploration targets, exploration results, mineral resources or ore reserves is based on information compiled by Peter Geerdts, a competent person who is a member of the Australian Institute of Geoscientists (AIG). Peter Geerdts is the Chief Geologist of Alderan Resources Limited. Peter Geerdts has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC Code (JORC Code). Peter Geerdts consents to the inclusion of this information in the form and context in which it appears.

## Overview: A unique opportunity



- ✓ Scale large Cu-Mo porphyry system and associated deposits at the heart of a significant mining district
- ✓ De-risked historic mining and drilling
- ✓ Options at least 4 advanced exploration targets with economic potential
- ✓ Infrastructure exceptional first world infrastructure on the doorstep
- Jurisdiction one of the best mining jurisdictions in the USA and globally
- ✓ Timing the copper recovery?
- ✓ Tight capital structure Directors and Management to hold over 50% of the Company on listing
- ✓ Strong news flow Launching into a 10,000m+ drill program and induced polarisation survey post listing



## **Board of Directors and Senior Management on Listing**





#### Nicolaus Heinen, Chairman

- Founder of Alderan Resources, Belgrave Capital Limited and Universal Copper LLC
- Investor and entrepreneur with 25 years experience in corporate finance and capital markets with Oppenheim jr. & CIE, Rhein Trust



#### Don Smith, Executive Director & COO

- Geologist and entrepreneur with 20 years experience in the mining industry
- Extensive experience in operational, project development, exploration and consultant roles



#### **Christopher Wanless, Executive Director** & CEO

- Founder of Alderan Resources Ltd and General Mining Corporation
- Over 10 years experience in the resources sector as a Manager, Investor and Director. Degrees in Law and Economics



#### Tom Eadie, Non-executive Director

- Geologist, geophysicist and founding chairman of Syrah Resources, Copper Strike, Discovery Nickel and founding Director of Royalco Resources
- Executive Manager of Exploration & Technology, Pasminco Limited



#### **Brett Tucker, Company Secretary**

 Brett is a chartered accountant and has acted as Company Secretary to a number of ASX Listed and private companies



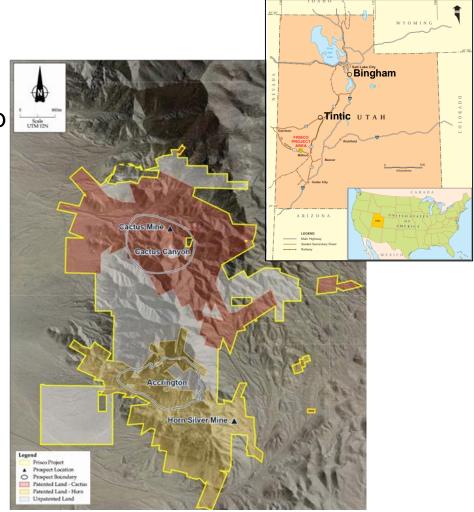
#### **Peter Geerdts, Chief Geologist**

- Founder of Alderan Resources
- Geologist with global experience across green and brownfields projects including Porphyry copper-gold

## An Ideal Location: endowment, jurisdiction & infrastructure



- 62% of global copper resources are found in the eastern Pacific Rim<sup>1</sup>
- Utah is consistently one of the top 10-15 global jurisdictions for investment attractiveness<sup>2</sup>
- A State with a long mining history
- Sealed roads, rail & power plants in close vicinity
- Targets are predominantly on private (patented) land with a single landholder



<sup>1.</sup> Source: A Global Assessment, April 2014, United States Geological Survey

<sup>2.</sup> Fraser Institute Global Survey 2015, 2016

# The Frisco Project – a historical mining district



- Abundant historical mines and workings
- Majority of past production from the Cactus and Horn Silver Mines
- Little exploration since the 1970's
- First Company to hold rights to explore over the whole system
- No use of modern geophysics until 2016 (Alderan)





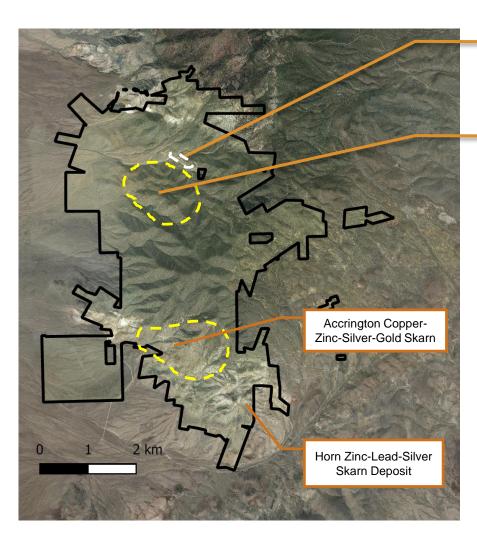






# The Frisco Project: Cactus Cu-Au-Ag breccia pipes and Cactus Canyon Cu-Mo-Au porphyry target





Cactus Copper-Gold-Silver Breccia Pipe Deposit(s)

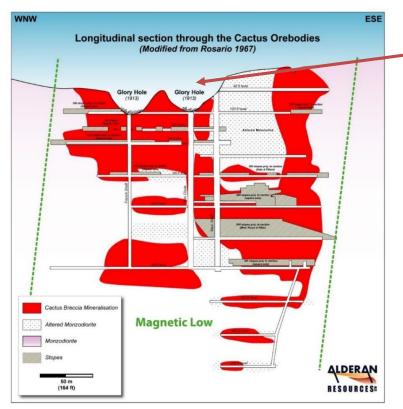
Cactus Canyon Copper-Molybdenum-Gold Porphyry Prospect



## Cactus Breccia Pipe – a historic Cu-Au-Ag mine



- A historical copper-gold-silver mine with production of 1.272mt at <u>recovered</u> grades of approximately 2.07% Cu, 0.33 g/t Au, 7.36 g/t Ag
- Mineralisation hosted in a tourmaline breccia pipe, one of three, within an area of approximately 1000m by up to 400m and individual pipes up to 300m in length
- Over 50 drill holes across the Cactus-New Year and Comet breccia pipes





### Cactus Breccia Pipe – historical drilling



- Increase in thickness at depth with deepest hole intersecting 130.45m @ 0.76% Cu
- Multiple mineralised pipes across 1000m by up to 400m corridor
- Limited assays for gold despite historical gold production

Hole_ID	Depth	M From	М То	Interval	Cu%
DDH4	303.6	27.4	47.6	20.1	2.4
	And	173.4	175.9	2.4	5.35
	And	183.2	203.6	20.4	1.48
DDH5	217.9	153.3	178	24.7	1.50
DDH6	357.2	172.5	179.8	7.3	2.66
	And	213.4	227.7	14.3	1.48
		230.1	239.6	9.5	1.33
DDH8A	251.5	207.9	251.5	43.6	1.69
DDH8B	281	218.2	256.6	38.4	1.40
R-12	89.2	39.6	62.5	22.9	1.84
	And	69.3	89.2	19.8	0.68
R13B	82.3	22.9	35.1	12.2	2.64
	And	42.7	68.6	25.9	1.62
R-14	38.1	1.5	24.4	22.9	2.06
UDH602	153	37.2	62.5	25.3	1.22

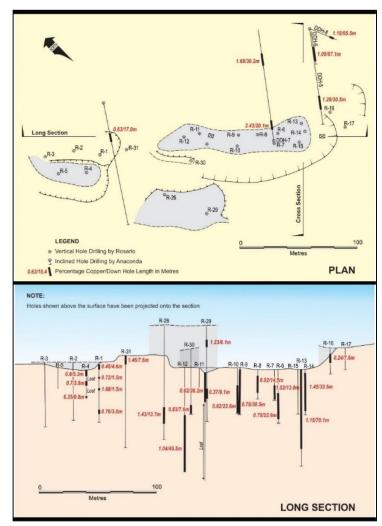


Table of significant historical drill results (0.5% cut-off)

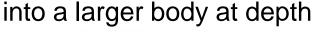
Plan and Long Section of the Cactus Pit Area (0.5% cut-off)

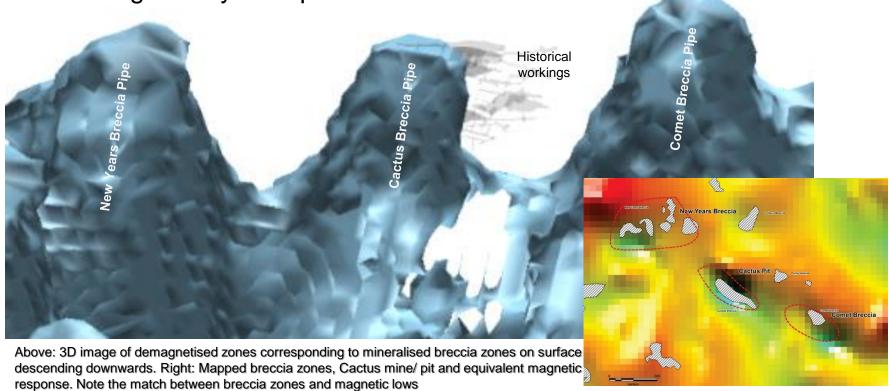
# Cactus Breccia Pipe – one of several pipes along 1000m corridor



 Strong correlation between mapped breccia, magnetic lows and mineralisation encountered in drilling and historical mining

Magnetics indicate pipes extend below known mineralisation and join

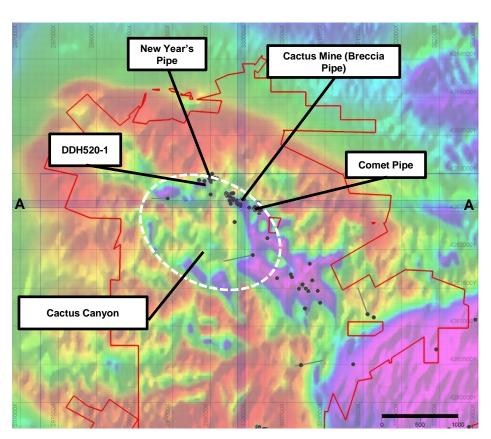




### Cactus Canyon: A significant porphyry target



- Large circular magnetic anomaly up to 1.5k-2km in diameter
- Likely representing a large scale hydrothermal system (porphyry)
- Mineralised porphyry intersected in DDH520-1 on edge of target area (30m @ 0.22% Cu, 105 ppm Mo)
- Copper bearing breccia pipes above and adjacent to porphyry target (Cactus, Comet, New Years)
- Copper bearing dykes at surface and above Cactus Canyon
- No drill testing within central area of target

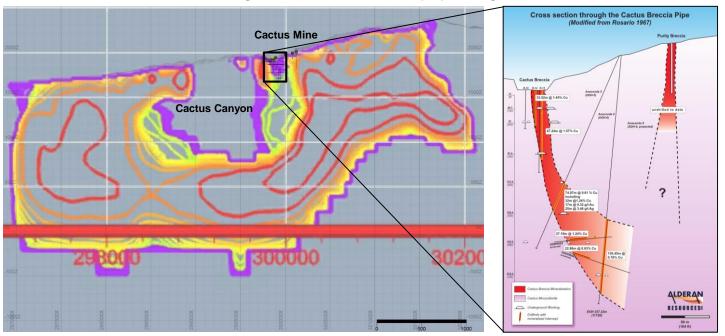


Above: magnetic image showing the location of the Cactus Canyon prospect (white circle).with respect to the breccia pipe's and historical drilling. The magnetic section A-A is shown on the following slide.

# Cactus Canyon: Breccia pipes as a vector to the porphyry



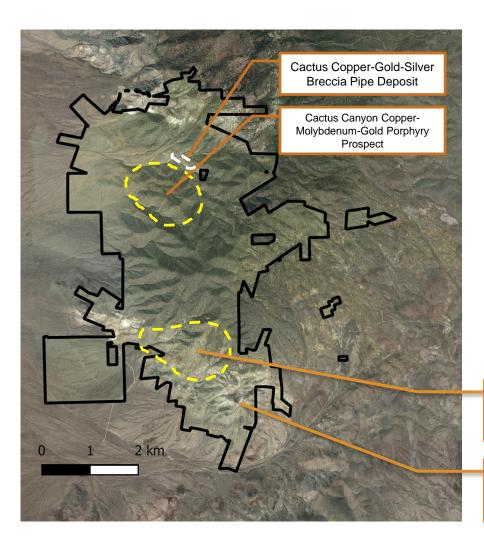
- Breccia pipes typically form contemporaneously with an underlying porphyry intrusion
- Deepest hole at the Cactus Breccia Pipe (DDH6) returned 130m @ 0.76% Cu DDH6 drilled within the margins of the porphyry target



Above: cross section (A-A shown on previous slide) image showing the location of the Cactus Mine and DDH6 which ended in mineralisation within the large magnetic low. The magnetic low is interpreted to be the result of hydrothermal alteration associated with a large underlying porphyry intrusion (Cactus Canyon prospect)

# One Mineral System: Accrington Cu-Zn and Horn Zn-Pb-Ag skarn







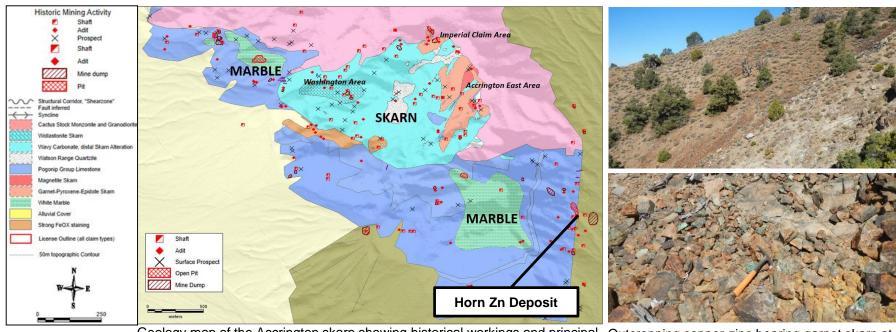
**Accrington Copper-Zinc-Silver-Gold Skarn** 

Horn Zinc-Lead-Silver Deposit

## Accrington: mineralisation and historic workings over 4km



- Large skarn with extensive historical workings and mineralisation across the central target area of 2km by up to 1.2km
- Thick intercepts of copper in historical drilling at Imperial and wide areas of copper bearing garnet & magnetite skarn mapped at Accrington East
- Large untested target at Washington with strong Cu-Zn-Pb-Au-Ag anomalism
- High grade zinc mineralisation at the historic Horn Silver Mine



Geology map of the Accrington skarn showing historical workings and principal target areas in the Washington claim and Imperial-Accrington east claim area

Outcropping copper-zinc bearing garnet skarn at Accrington East (above)

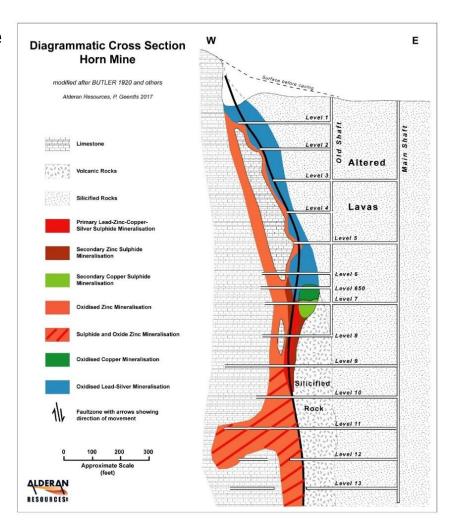
## Horn Zn Deposit: high grade mineralisation in a historic mine



- · Historical high grade lead-silver mine
- Zinc not historically mined
- Zinc recorded to lower levels of mine (350m)
- Deposit is open to depth and along strike to the north and south
- Significant historical drill and channel sample results

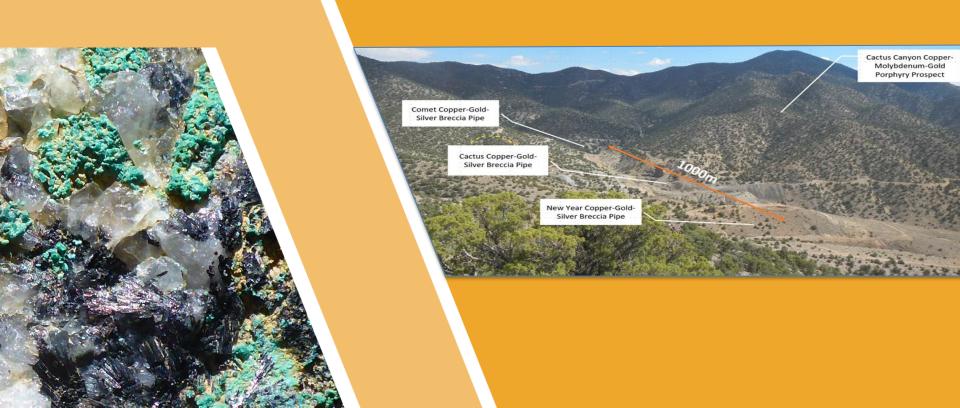
Hole_ID	From (m)	To (m)	Interval	Zn %
SF-2	282.8	286.5	3.6	5.86
	356.6	373.6	16.97	14
SF-3	358.93	362.41	3.48	18.01
	374.45	389.53	15.1	16.93

Table of significant historical Franconia drilling results at the Horn Mine





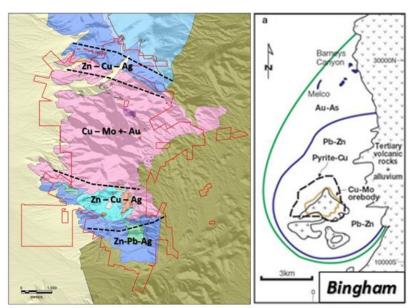
# One mineral system with multiple deposits and targets

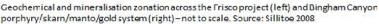


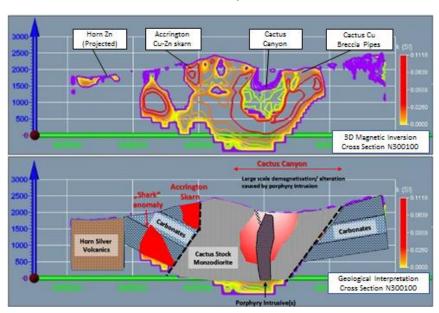
## Frisco Project – a single large, connected, mineral system



- Breccia pipes and skarns are genetically related to an underlying porphyry system at Cactus Canyon
- Distinct metal zonation at Frisco is similar to typical porphyry systems (Sillitoe, 2008)
- Large alteration and sulphide footprints at Cactus Canyon and Accrington are indicative of the size of the Frisco system
- Large systems can host significant economic deposits within adjoining skarns, breccias and the porphyry (e.g. Cananea, Bingham, Antamina, Los Bronces)







Lower images: Cross section along N300100 showing results of magnetic inversion (red colors: high magnetic response. Green and yellow colors: low magnetic response) and geologic interpretation

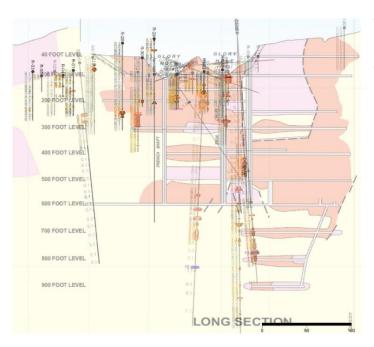




Proposed Work
Program:
high impact,
strong news flow

## **Work Program: Drilling**





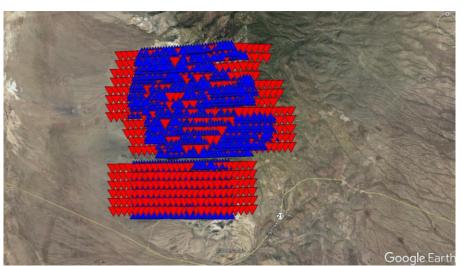


- Initial drilling to confirm historical results, establish resources and extend known mineralisation with a focus on the Cactus Breccia Pipes and Accrington
- Deeper drilling at Cactus Pipes to test porphyry Cu-Mo potential
- IP and EM survey to guide drilling

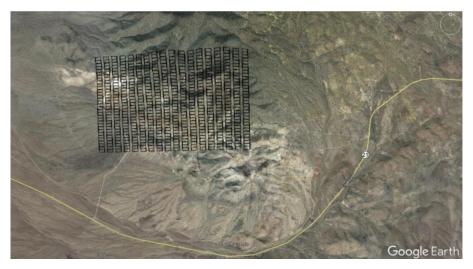
	Cactus (Cu-Au-Ag)	Cactus Canyon	Accrington (Cu-Zn)	Horn (Zn-Pb-Ag)
Planned Drilling (Meters)	5,500	1,500	4,500	3,000
Objectives	<ul> <li>Initial resource statement</li> <li>Testing depth and strike potential of Cactus, Comet and New Year</li> </ul>	Significant porphyry     Cu-Mo-Au discovery	Bulk tonnage, near surface/open pittable Cu-Zn discovery	Initial resource statement

## Work Program: IP and EM survey





- First IP since the 1970's
- First time IP over the whole system
- EM over entire Accrington skarn
- Historical EM and IP lines over limited areas identified strong IP and EM anomalies

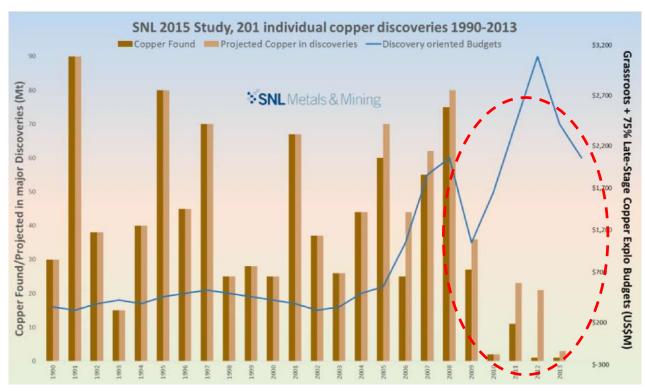


Top: proposed IP survey, blue triangles are receiver electrode locations, red triangles are current injection locations. Bottom: proposed coverage for in-loop EM surveying

## The disappearing copper pipeline: a global scarcity of good copper deposits and projects



- Few new significant copper discoveries
- Major undeveloped deposits are deep, low grade, in high risk jurisdictions or isolated from infrastructure
- Major copper discoveries in developed countries are extremely rare



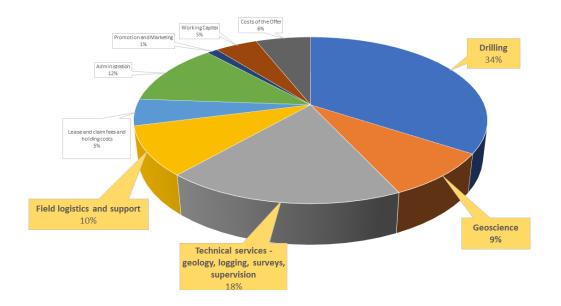
Data Source: S&P Global Market Intelligence

## **Capital Structure after IPO**



IPO Summary	Max: \$8.5m
Price Per Share	\$0.20
Shares Offered	42,500,000
Amount raised (before costs)	\$8,500,000
Total Shares on issue on completion of the IPO	107,963,908
Market capitalisation on Listing (at \$0.20)	\$21.6 million
Total options on issue at IPO	18,757,454

Significant Shareholders (% held on listing)			
Nicolaus Heinen	31,501,583 (29%)		
Kitara Investments Pty Ltd <kumova a="" c="" family=""></kumova>	12,778,333 (13%)		
Christopher Wanless	10,494,584 (9.7%)		
Peter Geerdts	5,000,000 (4.6%)		



# **Contact Details** WWW.ALDERANRESOURCES.COM.AU Christopher Wanless - CEO +61 (8) 9482 0560 info@alderanresources.com.au

# **Appendix: Cactus Breccia Pipe – Rock Types**





Cactus Mine (Glory Hole) looking south



Chalcopyrite



Massive Chalcopyrite



Tourmaline breccia

Quartz Tourmaline Pyrite Chalcopyrite breccia ore

# Appendix: Cactus Breccia Pipe & Cactus Canyon – Intrusive rocks





Chalcopyrite vein fill (DDH520-1)



Four individual, variably mineralised porphyry intrusives in drillcore (520-1, 2, 3 and 4)



Grey porphyry (right) with porphyry induced sulphide veining



Disseminated chalcopyrite (DDH520-1)



Chalcopyrite-Pyrite-Quartz veining within semi-porphyritic, silicified intrusive (from Cactus mine dump)



Chalcopyrite vein within monzonite

## **Appendix: Accrington Skarn**





Accrington East skarn looking to the SW



Accrington East skarn – looking to the NW



Chalcopyrite-Garnet Skarn



Garnet Skarn



Copper-diopside-garnet Skarn



Copper-zinc ore (Washington mine)

Copper bearing porphyry dyke (Washington)