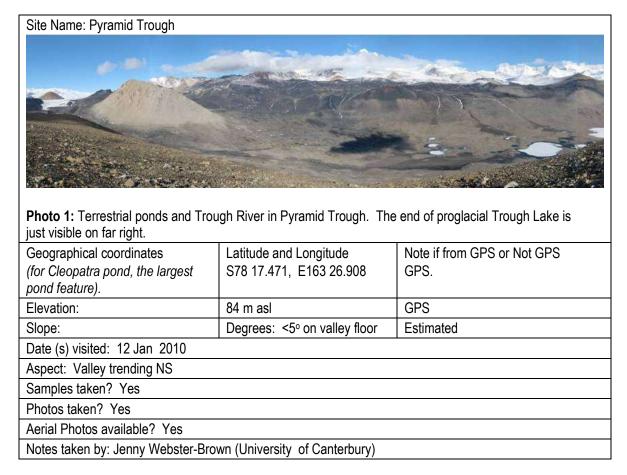
LGP Baseline Measurements 09/10 Season

General Site Description



Soil Parameters

Geomorphological characteristics	□ Pro-Glacial	□ Slope
	☐ Nival - Chionophilous	□ Plateau
	□ Periglacial	□ Valley
	□ Fluvial	□ Landslide
	□ Coastal	□ Scree slope
	□ Fell-Field	□ Rock wall
Rock Lithology	□ Siliceous rock	Rock type: Basalt, scoria,
	□ Calcareous rock	basement gneiss(?) and
		intrusive.
Soil Typology	□ Soil Absence	□ Mineral soil
	□ Soil Presence	□ Organic soil
Surface Lithology	□ Outcropping Rock	
	□ Loose Material	
	□ Glacial	

	□ Fluvial
	□ Eolic
	□ Coastal
	□ Scree Slope, Debris
Surface Texture	10 % Blocks (∅>25cm)
	30 % Pebbles (5cm< \varnothing <25cm)
	50 % Gravel (0.2cm< ∅ <5cm)
	10 % Sand and finer material (∅ <0.2cm)

Vegetation

Plants and Lichens:	Rare black and yellow lichens seen, gold/green moss on wet
	delta area near Cleopatra Pond (Bryum?)

Fauna

Mammals	None seen
Birds	None seen
Invertebrates	None seen

Glacial

Ablation/accumulation	N/A
Ice temperature	N/A
Snow pit measurements	N/A

Aquatic Non-Marine Systems

Types of water bodies:

Terrestrial ponds, some (fresh) linked by Trough River, others isolated and more saline.

Photo 2. Saline pond in upper reaches of Pyramid Trough, showing remnant ice plugs in base of pond.



Sketch/map of water bodies and catchment. Include orientation. Pyramid Trough in relation to KC and The Bulwark	
Size and depth: Ponds range from diamm to >100m diamm.	m <10m Estimate or actual: measured
Inflows and outflows (for non run Other terrestrial ponds fed by (fo Duration and spatial distribution dried cyanobacterial mat on soil Isolated habitat or part of a connection of the control of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a connection of the cyanobacterial mat on soil Isolated habitat or part of a cyanobacterial mat on soil Isolated habitat or part of a cyanobacterial mat on soil Isolated habitat or part of a cyanobacterial mat on soil Isolated habitat or part of a cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of a cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat on soil Isolated habitat or part of the cyanobacterial mat or part of the cyanob	ning systems): Trough River links features in the base of valley. Imer) snowbank or subsurface (permafrost) melt. If free water: Semi permanent (>5-10 yrs?) ponds. If Yes - evidence includes discoloured rock, salt precipitation and surface around terrestrial ponds and glacier margin ponds Interestrial ponds and glacier margin po
Ice cover:	 Fresh ponds in base of Valley typically had partial ice cover, with open moat Other more saline ponds, typically no or little ice cover. Thickness: 1-5?m in centre, <5cm on moat Transparency: permanent ice = opaque with some snow cover, moat ice transparent.)
Water properties. (to be recorded at intervals over the season)	 Clarity: Close to 100% (estimated) Colour: None Foams: Seen in ponds/streams with cyano mats Conductivity (measured): 43 - 8300 uS/cm Temperature (measured): 6.0 - 9.3°C

Bed characteristics	Cubatrata (%)	
Deu characteristics	- Substrate (%)	
	o Cobbles 50%	
	o Gravel 30%	
	o Sand 20%	
	o Silt 0%	
	 Vegetated (% cover) Variable 0 - 100% 	
	o cyanobacterial mats	
	Colour – orange, green/black, pink,	
	brown, purple, ruby	
	■ Thickness – 0.5mm – 30mm (thick)	
	 Gross morphology (flat, pinnacle, 	
	globular, discoid)	
	 Encrusting: yes - purple mat 	
	 Mosses - Yes - green/gold 	
	o green algae - Yes - trailing	
Others	Animal observation: Rotifers observed, good habitat also for	
	nematodes & tardigrades but not looked for.	
Sample collection and	Samples of water, sediment, salt and mats were collected as part	
preservation	of our research. Chemical and biological analysis is being	
	undertaken	

Aquatic Marine Systems N/A

Environmental (AWS): Bratina Is AWS is the closest.