

map attachments

Blueskin Energy Wind Cluster

Porteous Hill

Landscape Assessment

Lucas Associates landscape architects

2015

print maps A4 portrait double-sided, bind on left



location





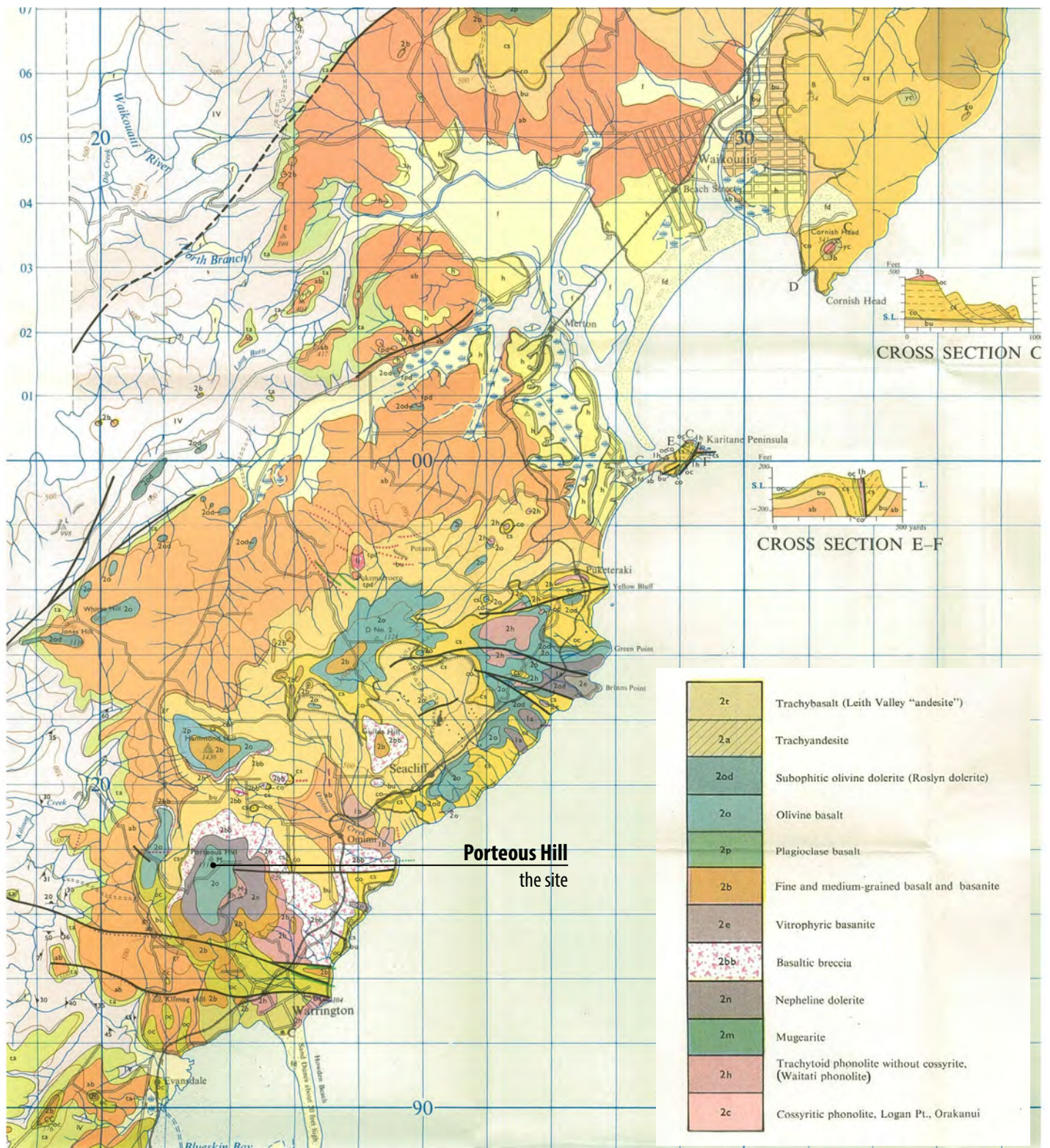
source: Topo 50, CLPA - Dunedin District Plan

coastal landscape preservation area





site location



source: W.N. Benson Geological Map of Dunedin District

Landform Components

1. Rolling to easy rolling loess mantled slopes developed on olivine basalt (Porteous soils).
2. Strongly rolling to moderately steep colluvial slopes developed on dolerite and basaltic breccia.
3. Complex strongly rolling to moderately steep slopes with rippled or hummocky surfaces of slump earthflow topography formed on Burnside and Abbotsford mudstones.
4. Steep to moderately steep basaltic hard rock slopes (Hammond Hill).
5. Isolated strongly rolling to steep basaltic hillocks.
6. Smooth strongly rolling to rolling loess mantled slopes developed on basalt.
7. Complex rolling to strongly rolling slopes of earthflow topography formed largely on Burnside Formation mudstone.
8. Smooth rolling slopes on weathered basalt.
9. Broken and slumped steep to moderately steep slopes with steep to very steep basal sea cliffs cut into sedimentary strata.
10. Steep to moderately steep side slopes on basalt and basaltic colluvium.
11. Strongly rolling broken slopes underlain predominantly by basaltic breccia.
12. Rolling to strongly rolling sand dunes forming the sand spit south of Warrington.
13. Broken rolling to strongly rolling slopes of earthflow topography developed predominantly on Concord Formation greensands.
14. Smooth rolling to strongly rolling slopes developed predominantly on Abbotsford mudstone.
15. Complex strongly rolling to moderately steep slope rippled or hummocky slopes of slump earthflow topography formed predominantly on Abbotsford mudstone.
16. Smooth rolling slopes above a steep sea cliff and reef complex formed on phonolite.



Turbine location (30m radius)



Porteous Hill landform components Scale 1:20,000 @ A4



Landform Components

1. Rolling to easy rolling loess mantled slopes developed on olivine basalt (Porteous soils).
2. Strongly rolling to moderately steep colluvial slopes developed on dolerite and basaltic breccia.
3. Complex strongly rolling to moderately steep slopes with rippled or hummocky surfaces of slump earthflow topography formed on Burnside and Abbotsford mudstones.
4. Steep to moderately steep basaltic hard rock slopes (Hammond Hill).
5. Isolated strongly rolling to steep basaltic hillocks.
6. Smooth strongly rolling to rolling loess mantled slopes developed on basalt.
7. Complex rolling to strongly rolling slopes of earthflow topography formed largely on Burnside Formation mudstone.
8. Smooth rolling slopes on weathered basalt.
9. Broken and slumped steep to moderately steep slopes with steep to very steep basal sea cliffs cut into sedimentary strata.
10. Steep to moderately steep side slopes on basalt and basaltic colluvium.
11. Strongly rolling broken slopes underlain predominantly by basaltic breccia.
12. Rolling to strongly rolling sand dunes forming the sand spit south of Warrington.
13. Broken rolling to strongly rolling slopes of earthflow topography developed predominantly on Concord Formation greensands.
14. Smooth rolling to strongly rolling slopes developed predominantly on Abbotsford mudstone.
15. Complex strongly rolling to moderately steep slope rippled or hummocky slopes of slump earthflow topography formed predominantly on Abbotsford mudstone.
16. Smooth rolling slopes above a steep sea cliff and reef complex formed on phonolite.

 Turbine location (30m radius)

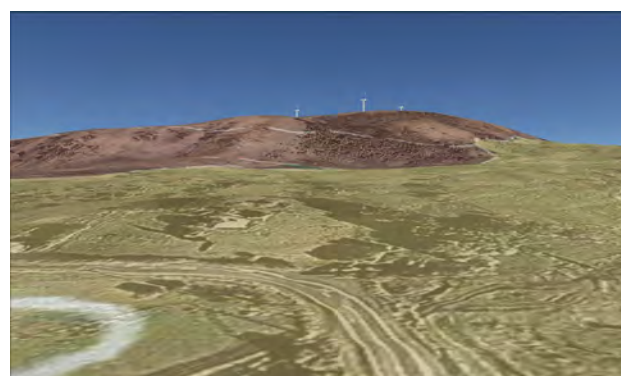
 Volcanic landform components

 Deposition landform components

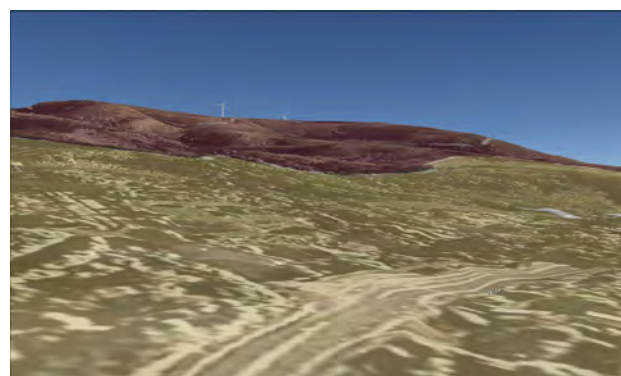
3D Views from Google Earth



view from Blueskin Bay overlooking the site



view from Omimi overlooking the site



view from Warrington overlooking the site

land typing



Porteous Hill landform components Scale 1:20,000 @ A4

0 1.0 km

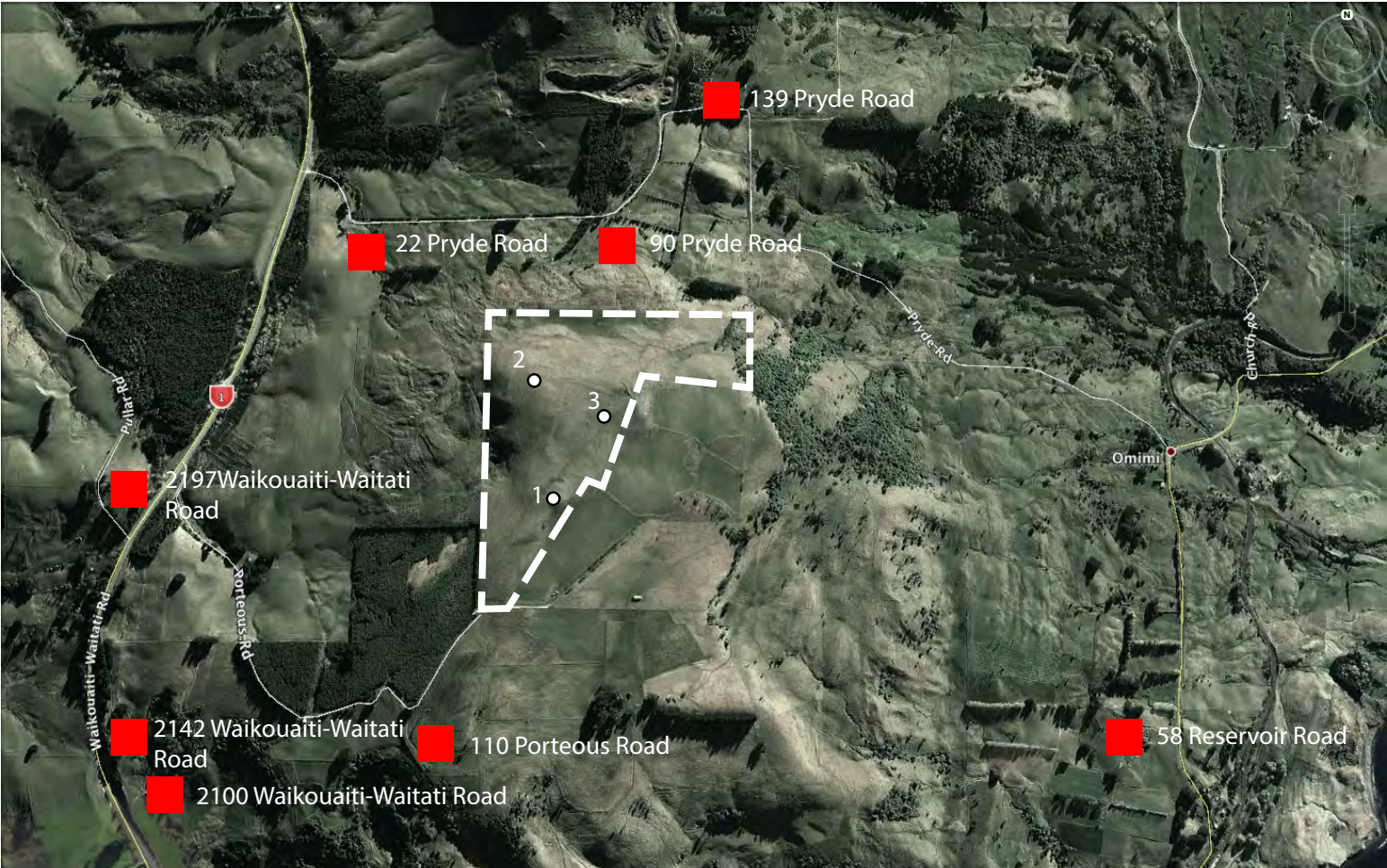


Legend

Vegetation

 Exotic Grassland	 Native Shrubland	 Native Forest	 turbines
 Herbaceous (Wetlands)	 Exotic Scrub	 Exotic Forest	

vegetation



LEGEND

-  site (24ha)
-  turbines
-  houses within 1.5 km of cluster

house sites



alternative sites considered