

Downloading shape files, CSV, linking into Google Earth etc

The map server allows access to WGS 84 and NZTM projections and can also output in many different formats with:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id  
?service=WFS&version=1.0.0&request=GetFeature&typeName=layer&outputFormat=format
```

Output formats:

GML2	outputFormat=GML2
GML3	outputFormat=GML3
Shapefile	outputFormat=shape-zip
JSON	outputFormat=application/json
JSONP	outputFormat=text/javascript
CSV	outputFormat=csv

e.g. to get a **shapefile** of trap locations:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id  
?service=WFS&version=1.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-traps  
&outputFormat=shape-zip
```

KML (you can link this directly into Google Earth):

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id  
?service=WFS&version=2.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-traps  
&outputFormat=application/vnd.google-earth.kml+xml
```

CSV:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id  
?service=WFS&version=2.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-traps  
&outputFormat=csv
```

You can also view features directly in **OpenLayers**:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?service=WMS&version=1.1.0&request=GetMap&layers=trapnz-projects:my-projects&bbox=174.94,-41.5,174.95,-41&width=708&height=768&srs=EPSG:4326&format=application/openlayers
```

Notes:

The WFS server is set to return a maximum of 10k features per request. If you have more that, you will need to use software (e.g. ArcGIS Pro, or QuantumGIS) to page requests, or include `count` and `startindex` parameters .

[See the WFS specification.](#)

The shapefile format has a number of limitations - see the [Geoserver documentation](#). Datetime fields are not supported - only the date will be included.

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