Using the DNRME Queensland Geocoder.

Overview

The Queensland Geocoder is an application to validate addresses, land parcels (Lot Plan) or find addresses from a geo-coordinates. The application can process both single and batch requests for Queensland related information.

Details on single request use.

For batch processing the geocoder accepts a coma delimited (.csv) file containing no more than 5000 requests for any validation type. Each request is sequentially passed through the Department of Natural Resources and Mines (DNRME) public version of the Property Location Service Plus.

Details on batch request use is here.

The batch request can be set to be Automatic or Interactive.
Automatic setting only accepts responses that have a single candidate returned and a high confidence value.
Any request not meeting the criteria need to be reprocessed as single request or as Interactive batch.

Batch output choice includes

1. Coma delimited (.csv) and/or
2. Spatially enabled .kml that can be viewed in the Queensland Globe or Google Earth application.

A validated address displays a confidence level for each returned address and other parameters. (see output examples link on Queensland Geocoder home page)

Note – DNRME Queensland Globe details can be found at https://www.business.qld.gov.au/running-business/support-assistance/mapping-data-imagery/queensland-globe

The application has limited support. Should you find the application isn't working email OpenData@dnrme.qld.gov.au

About DNRME addresses

Data used to validate your addresses comes from the Queensland Address Management Framework (QAMF) database, which is compiled from Local Government Authority supplied address information. The database used by the service is updated on a daily basis. The data is reliant on LGAs providing data in a timely manner. Some Indigenous Communities have no addresses at present. Similarly not all gated communities have addresses to internal "street" addresses. The department continues to liaise with authorities to rectify the situation.

Browsers and Operating Systems

The Batch Geocoder is designed to run on modern browsers such as

- Chrome
- Firefox
- Safari and

Note : Edge and Internet Explorer are not supported.

And on the following operating systems

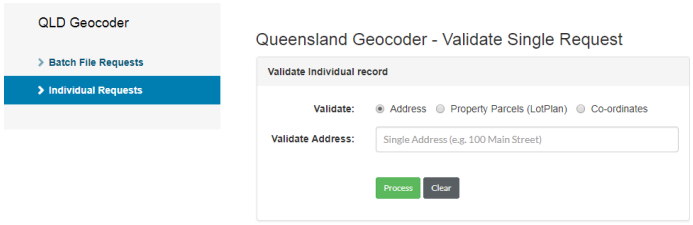
- Windows
- MacOS and

Note: Linux OS should work but the application has not been tested on the platform.
If you encounter difficulties with any browser, please try another in the list as a work around for the problem. You may have to allow 'popups' and non-secure (http) protocols to get the full functionality of the geocoder.

The service is offered free to the Public for Queensland address information only.
No additional support is offered for this service

The service may be changed without notice.

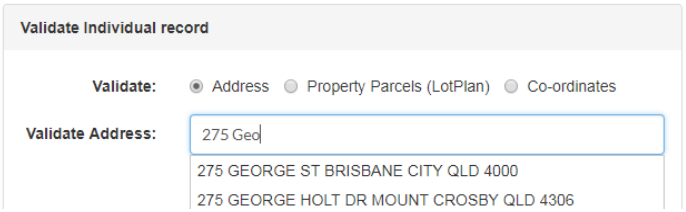
Single request to Geocoder



- Select the “Individual Requests” link
- Select the radial button for function required

To use Validate Address
Start typing your address in input filed.
A list of suggestions (up to 50) will appear.
Select an address from list and click-on the “**Proceed**” button.

Note: Keep entering the address you require if it is not shown in auto complete list. When address entry is complete, click-on the “**Proceed**” button to produce a list of candidate addresses.



Validate Property Parcel
Enter the Lot and Plan Number in the respective input field.
Select the “**Proceed**” button
All addresses on the parcel will be shown. Use the Geocode type to identify the type of address displayed. “PC” (Parcel Centroid), “BC” (Building Centroid),”PAP” (Property Access Point) etc. Note “Common Area” of a property is shown as Lot 9999.

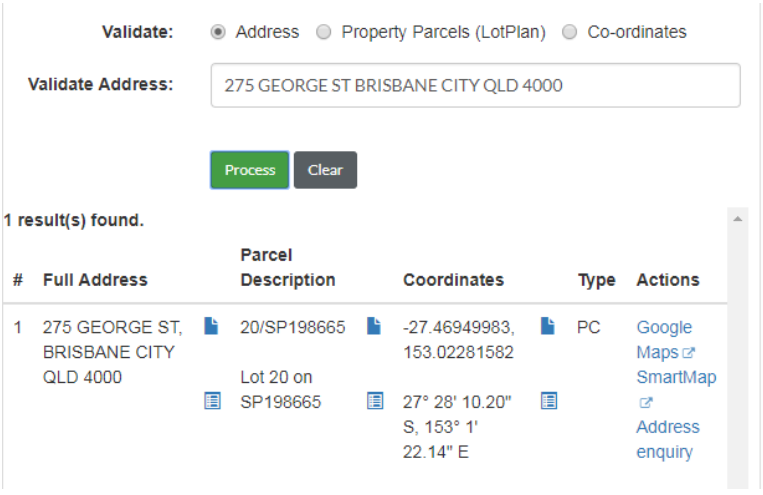
Validate Co-ordinate

- Enter fields in the respective input field.
- Select the “Proceed” button
- The closest address to the co-ordinate will be returned.
  Where no address is found within 250 metres the service will return
  - the address of the Land Parcel if one has been allocated by Local Authority
  - a parcel without address will show Lot Plan, Locality and Local Authority.

HINT : If an address has a Building/Complex name linked, it will be displayed in brackets at the end of the address. eg. 1183 NIAGARA RD, DIAMONDY QLD 4410 (RIDGEVIEW).
Entering a bracketed name eg (RIDGEVIEW) in the address input line by itself will not give auto options, but on “**Proceed**” the address linked to the Building/Complex will be displayed if it is in the address database.
With an individual address request it is best to use a comma (and space) between the address line and locality. Eg 123 Abc St, East Brisbane. This just helps logic determine if the “East” in this request belongs to the road name or locality.

Request results

After “Proceed” button is clicked-on a matrix of information is returned.



The results count is displayed.
Individual result candidates are shown in a scrollable matrix.
Each result has a link to

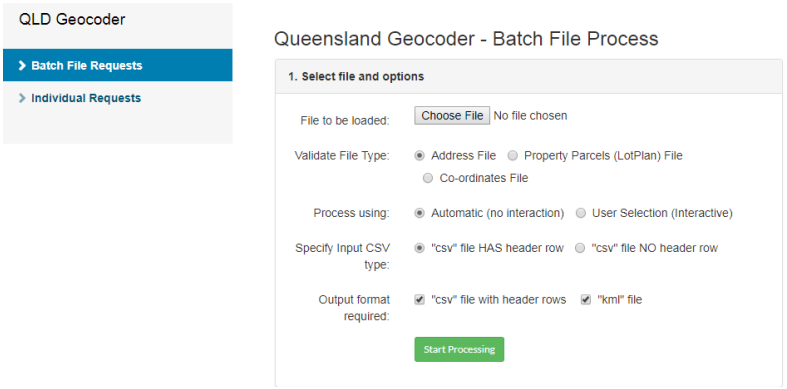
- Display location on map service
- Draw a Smart Map of parcel
- Send an address enquiry

Icons and are paste ready containers of the returned data. Click on the icon and then paste comma delimited or formatted text into an application of choice.
The type of Co-ordinate is also shown – (PC –Parcel Centroid, BC – Building Centroid etc)

Please note that screens may change depending on browser used.

To use the batch geocoder follow the following steps

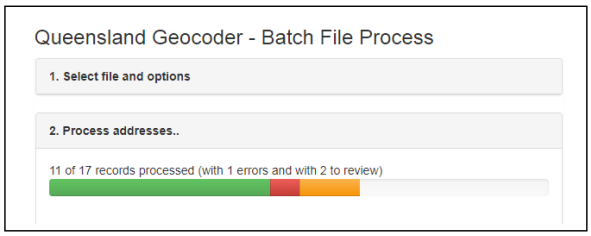
1. Select the .csv file to be processed
    a. Indicate if the file has a header record or not. (see Batch Geocoder Examples link)
    b. Indicate the type of validation to be performed
    c. Indicate whether user interaction is required
    d. Indicate the output format (csv, kml or both)



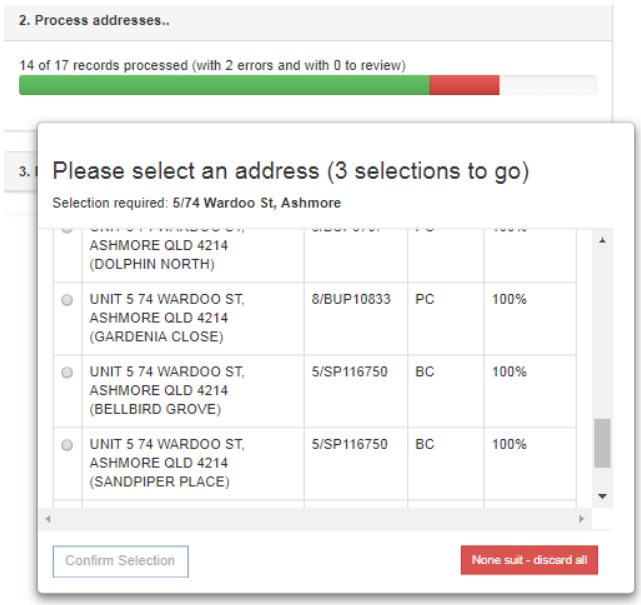
2. Process of file

Processing will begin by clicking-on the “Start Processing” button.

A progress bar is displayed showing records processed, number of errors and records to be reviewed (using single request or interactive batch method)



When using “interactive” selection the application will show you a list of candidates for consideration. You can confirm one or discard all of the candidates.



If multiple candidates are found you can choose the best match (select candidate radial button and “Confirm Selection”) or “discard all” candidates for an address if none are deemed suitable.

Processing of the address records continues in the background while you make individual selections.

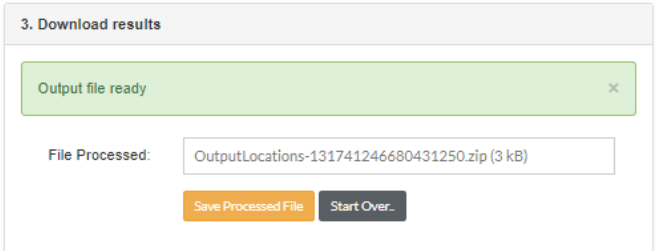
Discarded addresses will be sorted to the bottom of the output csv file but deleted from a kml file.

Any address errors encountered while processing will not stop the geocoder.

Unmatched addresses will also be sorted to the bottom of the output csv file with an appropriate comment.

HINT : Using interactive selection can be time consuming. The service will timeout after 10 minutes of selection inactivity and your work will not be saved. It is recommended that users keep the number of records processed interactively to manageable numbers and limit distractions while working on list. Best results is to “Auto” process first and then use “Interactive” to investigate auto fails.

3. .Download results



Save the processed file or archive to your computer.

Examples and explanations of Output Format files are available at the Help Content link on the Help Content links

Note - Some of the screen shots shown may differ in each browser application.

Do and Don’t for best results

- The csv input file should contain NO blank lines (CRLF) anywhere through the file
- Use of /, -
  - “/” (forward slash) is used as divider between street number and Unit, flat, or suite number
    - Eg 52/258 Spring St, Locality
  - “-“ (hyphen) is used for street number range
    - Eg 41-43 Grosvenor Terrace, Locality
      86/171-203 DAVID LOW WAY, Locality

  The service will only do single addresses at any one request. Do not concatenate multiple addresses into a single request
- Postcodes can now be used with input address. Include if known.
- Building Levels or Suites can now be used.
- Building or Complex names can be used in brackets. eg (RIDGEVIEW)
- Correct spelling is essential for best results for auto completed addresses. The service does has some extra logic available when processing a complete entered string (not using an auto suggestion address)
- Use correct abbreviations
- Use a comma and space between street and locality in single request to assist with parsing of address
  - Eg 34 Park Av, East Brisbane as opposed to 34 Park Av East Brisbane. The comma and space force the locality to “East Brisbane” rather than Street address of “34 Park Av East”
- Remember Lot 9999 represents the “Common Area” shown on a plan

Valid abbreviations for Street types

Road Name Type	Abbreviation
ACCESS	ACCS
ALLEY	ALLY
ALLEYWAY	ALWY
AMBLE	AMBL
ANCHORAGE	ANCG
APPROACH	APP
ARCADE	ARC
ARTERY	ART
AVENUE	AV
AVENUE	AVE
BASIN	BASN
BEACH	BCH
BEND	BEND
BLOCK	BLK
BOARDWALK	BWLK
BOULEVARD	BVD
BRACE	BRCE
BRAE	BRAE
BREAK	BRK
BRIDGE	BDGE
BROADWAY	BDWY
BROW	BROW
BYPASS	BYPA
BYWAY	BYWY
CAUSEWAY	CAUS
CENTRE	CTR
CENTREWAY	CNWY
CHASE	CH
CIRCLE	CIR
CIRCLET	CLT
CIRCUIT	CCT
CIRCUS	CRCS
CLOSE	CL
COLONNADE	CLDE
COMMON	CMMN
CONCOURSE	CON
COPSE	CPS
CORNER	CNR
CORSO	CSO
COURT	CRT
COURT	CT
COURTYARD	CTYD
COVE	COVE
CREEK	CK
CRESCENT	CR
CRESCENT	CRES
CREST	CRST
CROSS	CRSS
CROSSING	CRSG
CROSSROAD	CRD
CROSSWAY	COWY
CRUISEWAY	CUWY
CUL-DE-SAC	CDS
CUTTING	CTTG
DALE	DALE
DELL	DELL
DEVIATION	DEVN
DIP	DIP
DISTRUBUTOR	DSTR
DRIVE	DR
DRIVE	DRV
DRIVEWAY	DRWY
EAST	E
EDGE	EDGE
ELBOW	ELB
END	END
ENTRANCE	ENT
ESPLANADE	ESP
ESTATE	EST
EXPRESSWAY	EXP
EXTENSION	EXTN
FAIRWAY	FAWY
FAIRWAY	FAWA
FIRE TRACK	FTRK
FIRETRAIL	FITR
FIRETRAIL	FTRL
FLAT	FLAT
FOLLOW	FOLW
FOOTWAY	FTWY
FORESHORE	FSHR
FORMATION	FORM
FREEWAY	FWY
FRONT	FRNT
FRONTAGE	FRTG
GAP	GAP
GARDEN	GDN
GARDENS	GDNS
GATE	GTE
GATES	GTES
GLADE	GLD
GLADE	GLDE
GLEN	GLEN
GRANGE	GRA
GREEN	GRN
GROUND	GRND
GROVE	GR
GULLY	GLY
HEIGHTS	HTS
HIGHROAD	HRD
HIGHWAY	HWY
HILL	HILL

INTERCHANGE	INTG
INTERSECTION	INTN
JUNCTION	JNC
KEY	KEY
LANDING	LDG
LANE	LANE
LANEWAY	LNWY
LEES	LEES
LINE	LINE
LINK	LINK
LITTLE	LT
LOOKOUT	LKT
LOOP	LOOP
LOWER	LWR
MALL	MALL
MEANDER	MNDR
MEW	MEW
MEWS	MEWS
MOTORWAY	MWY
MOUNT	MT
MOUNT	MT
NOOK	NOOK
NORTH	N
OUTLOOK	OTLK
PARADE	PDE
PARK	PARK
PARKLANDS	PKLD
PARKWAY	PWY
PARKWAY	PKWY
PART	PART
PASS	PASS
PATH	PATH
PATHWAY	PHWY
PIAZZA	PIAZ
PLACE	PL
PLATEAU	PLAT
PLAZA	PLZA
POCKET	PKT
POINT	PNT
PORT	PORT
PROMENADE	PROM
QUAD	QUAD
QUADRANGLE	QDGL
QUADRANT	QDRT
QUAY	QY
QUAYS	QYS
RAMBLE	RMBL
RAMP	RAMP
RANGE	RNGE
REACH	RCH
RESERVE	RES
REST	REST

RETREAT	RTT
RIDE	RIDE
RIDEG	RDGE
RIDGEWAY	RGWY
RIGHT OF WAY	ROWY
RING	RING
RISE	RISE
RIVER	RVR
RIVERWAY	RVWY
RIVIERA	RVRA
ROAD	RD
ROADS	RDS
ROADSIDE	RDSD
ROADWAY	RDWY
RONDE	RNDE
ROSEBOWL	RSBL
ROTARY	RTY
ROUND	RND
ROUTE	RTE
ROW	ROW
RUE	RUE
RUN	RUN
SERVICE WAY	SWY
SIDING	SDNG
SLOPE	SLPE
SOUND	SND
SOUTH	S
SPUR	SPUR
SQUARE	SQ
STAIRS	STRS
STATE HIGHWAY	SHWY
STEPS	STPS
STRAND	STRA
STREET	ST
STRIP	STRP
SUBWAY	SBWY
TARN	TARN
TERRACE	TCE
TERRACE	TER
TERRACE	TERR
THOROUGHFARE	THOR
TOLLWAY	TLWY
TOP	TOP
TOR	TOR
TOWERS	TWRS
TRACK	TRK
TRAIL	TRL
TRAILER	TRLR
TRIANGLE	TRI
TRUNKWAY	TKWY
TURN	TURN
UNDERPASS	UPAS

UNIT	STE
UNIT	FLAT
UPPER	UPR
VALE	VALE
VIADUCT	VDCT
VIEW	VIEW
VILLAS	VLLS
VISTA	VSTA

WADE	WADE
WALK	WALK
WALKWAY	WKWY
WAY	WAY
WEST	W
WHARF	WHRF
WYND	WYND
YARD	YARD

Confidence Level

The Confidence Level is a value returned in the response that gives the user an understanding of the validity of the requested address. In the response the element name is “Confidence” and it is a value that represents the following categories:

Values above 90 with a single candidate indicate a likely match but may need to be confirmed by a person. Matches below 90 typically would need a person to decide which candidate is correct. Up to 500 responses may be returned if the requested address is incomplete, ambiguous or incorrect.

Confidence Level	%
No Confidence	0
To State	5
To Local Government (Sounds Like)	10
To Local Government (Exact Match)	15
To Locality (Sounds Like)	20
To Locality (Exact Match)	25
Indistinct Local Government / Postcode	50
Indistinct Locality	55
Indistinct Street/Place Name	60
Indistinct Street Number	65
To Street/Place Name (Sounds Like)	70
To Street/Place Name (Exact Match)	75
Indistinct Unit Type	80
To Street Number (Sounds Like)	85
To Street Number (Exact Match)	87
Indistinct Unit/Level Number (Sounds Like)	89
Indistinct Unit/Level Number (Exact Match)	90
To Street Type (Sounds Like)	93
To Street Type (Exact Match)	94
Street Number Falls Within a Range (Sounds Like)	95
Street Number Falls Within a Range (Exact Match)	96
Valid Incomplete (Sounds Like)	97
Valid Incomplete (Exact Match)	98
Valid Address (Sounds Like)	99
Valid Address (Exact Match)	100

Alias locality reduces confidence by 3