# API documentation—crime locations 2000­–present

## Geographical boundaries by name

This API retrieves a list of boundaries which match a specified name or name fragment. The boundary types which are returned include suburbs, postcodes, local government areas, QPS regions/districts/divisions, and Neighbourhood Watch areas.

****URL:**** <https://data.police.qld.gov.au/api/boundary>

### Parameters

|  |  |  |
| --- | --- | --- |
| **Key** | **Data type** | **Description** |
| name | string | The name of the desired boundary, or part thereof. |
| returngeometry | boolean | Specifies whether geographical data is returned. (Optional, defaults to false). |
| maxresults | integer | Specifies the maximum number of items returned; useful for auto-complete search boxes. (Optional, defaults to unlimited). |

****Example:**** <https://data.police.qld.gov.au/api/boundary?name=rock&returngeometry=true&maxresults=5>

This will return a list of up to five boundaries with a name starting with “rock” (e.g. Rockhampton, Rockingham, Rocklea etc.), including geographical data.

## Geographical boundaries by location

This API retrieves a list of boundaries which intersect a specified geographical coordinate. The boundary types which are returned include suburbs, postcodes, local government areas, QPS regions/districts/divisions, and Neighbourhood Watch areas.

****URL:**** <https://data.police.qld.gov.au/api/boundary>

### Parameters

|  |  |  |
| --- | --- | --- |
| **Key** | **Data type** | **Description** |
| latitude | decimal | The latitude of the target coordinates. |
| longitude | decimal | The longitude of the target coordinates. |
| maxresults | integer | Specifies the maximum number of items returned; useful for auto-complete search boxes. (Optional, defaults to unlimited). |

****Example:**** <https://data.police.qld.gov.au/api/boundary?latitude=-27.5&longitude=153.0&maxresults=2>

This will return a list of up to two boundaries at the geographical coordinate [-27.5, 153.0].

## Reported offences by area

This API retrieves a list of reported offences located within one or more specified geographical boundaries. The results are filtered by date range and offence type.

****URL:**** https://data.police.qld.gov.au/api/qpsmeshblock

### Parameters

|  |  |  |
| --- | --- | --- |
| **Key** | **Data type** | **Description** |
| boundarylist | string | A comma-separated list of boundary IDs. Each ID consists of the boundary type\* and the internal boundary ID, separated by an underscore. |
| startdate | integer | The minimum offence start date/time, in Unix timestamp format. |
| enddate | integer | The maximum offence start date/time, in Unix timestamp format. |
| offences | string | A comma-separated list of offence type IDs\*\*. |

**\* Boundary types:**

* Suburb = 1
* Postcode = 2
* Local Government Area = 3
* Neighbourhood Watch = 4
* QPS Region = 5
* QPS District = 6
* QPS Division = 7

**\*\* Offence types:**

* Homicide = 1
* Assault = 8
* Robbery = 14
* Other Offences Against the Person = 17
* Unlawful Entry = 21
* Arson = 27
* Other Property Damage = 28
* Unlawful Use of Motor Vehicle = 29
* Other Theft = 30
* Fraud = 35
* Handling Stolen Goods = 39
* Drug Offence = 45
* Liquor (excl. Drunkenness) = 47
* Weapons Act Offences = 51
* Good Order Offence = 52
* Traffic and Related Offences = 54
* Other = 55

****Example:**** https://data.police.qld.gov.au/api/qpsmeshblock?boundarylist=1\_6989,1\_6428&startdate=1364466223&enddate=1372415023&offences=8,14   
  
This will return a list of offences located in suburb IDs 6989 (Rocklea) and 6428 (Moorooka), between 28March and 28June 2013, for offence types Assault and Robbery.

In order to prevent excessive load on the application servers, this API will not return more than 20,000 offence items per query. If a query results in more than 20,000 items, the API will return a null result but will also return the item count.

## Return data

### QueryResult

All API calls return data in JSON format, wrapped in a QueryResult object. A QueryResult is structured as follows:

{

"Success":true,

"Message":null,

"Result":<query data>,

"ResultCount":5

}

* Success: a Boolean value indicating whether the query was successfully executed. Returns false on an error condition.
* Message: a string value containing an error message if an error occurred, or null otherwise.
* Result: the result of the query. Will be null if an error occurred or if an API limit was exceeded.
* ResultCount: the number of items returned by the query.

## Boundaries

A boundary object can be one of 5 types, and may be structured as follows:

1. **Suburb:**

{

"QldSuburbId":6989,

"Name":"ROCKLEA",

"LGA":"BRISBANE CITY",

"GeometryWKT":null,

"GeometryWKID":4326

}

* QldSuburbId: the internal ID of the suburb.
* Name: the name of the suburb.
* LGA: the associated local government area.
* GeometryWKT: the suburb boundary, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the suburb boundary.

1. **Postcode:**

{

"QldPostcodeId":2,

"Postcode":"4000",

"Locality":"Multiple Localities - See Index",

"GeometryWKT":null,

"GeometryWKID":4326

}

* QldPostcodeId: the internal ID of the postcode.
* Postcode: the 4-digit postcode.
* Locality: the locality of the postcode (as defined by Australia Post).
* GeometryWKT: the postcode boundary, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the postcode boundary.

1. **Local Government Area:**

{

"LocalGovtAreaId":37,

"Code":"34580",

"Name":"Lockyer Valley (R)",

"GeometryWKT":null,

"GeometryWKID":4326

}

* LocalGovtAreaId: the internal ID of the LGA.
* Code: the LGA code.
* Name: the name of the LGA.
* GeometryWKT: the LGA boundary, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the LGA boundary.

1. **QPS area:**

{

"QpsAreaId":375,

"QpsAreaType":1,

"Name":"BRISBANE",

"ParentId":null,

"GeometryWKT":null,

"GeometryWKID":4326

}

* QpsAreaId: the internal ID of the QPS area.
* QpsAreaType: the area type; 1 = region, 2 = district, 3 = division.
* Name: the name of the QPS area.
* ParentId: the ID of the parent area for this area, if any. All divisions have a parent district; all districts have a parent region; regions do not have a parent.
* GeometryWKT: the QPS area boundary, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the QPS area boundary.

1. **Neighbourhood Watch area:**

{

"NeighbourhoodWatchId":755,

"Name":"ACACIA RIDGE 06",

"Alias":"Sunnybank Hills",

"AreaType":"Residential",

"Status":"Active",

"PoliceDivision":"Acacia Ridge",

"GeometryWKT":null,

"GeometryWKID":4326

}

* NeighbourhoodWatchId: the internal ID of the Neighbourhood Watch area.
* Name: the name of the Neighbourhood Watch area.
* Alias: the alternative name for the Neighbourhood Watch area.
* AreaType: the area type.
* Status: the current status of the Neighbourhood Watch area.
* PoliceDivision: the associated police division.
* GeometryWKT: the Neighbourhood Watch area boundary, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the Neighbourhood Watch area boundary.

## Offences

A QpsOffence object contains two following components:

* Geographic Location: Meshblock Polygon
* Offence Information

**Geographic Location**{

“MeshblockId”: 10123,  
“OffenceInfo”: <offence information>,  
“GeometryWKT”: “Polygon ((153.02415312 -27.5329600245,……))”  
“GeometryWKTId”: 4326

}

**Offence Information**

{

"QpsOffenceId":5488224,

"QpsOffenceCode":8,

"ReportDate":"2013-04-04T14:00:00",

"StartDate":"2013-04-05T02:25:00",

"EndDate":null,

"Suburb":"MILTON",

"Postcode":"4064",

"Solved":true,

“OffenceCount”:1,

}

* QpsOffenceId: the internal ID of the offence.
* QpsOffenceCode: the offence type (see above for definitions).
* ReportDate: the date/time the offence was reported\*.
* StartDate: the start date/time of the offence\*.
* EndDate: the end date/time of the offence\*. This is null if the offence occurred at a specific time rather than a time span.
* Suburb: the suburb where the offence occurred (as recorded, may not match geographical data).
* Postcode: the postcode where the offence occurred (as recorded, may not match geographical data).
* Solved: indicates whether the offence has been solved.
* OffenceCount: number of offences
* MeshblockId: the internal ID of block boundary
* GeometryWKT: the geographical location of the offence, in WKT format.
* GeometryWKID: the ID of the spatial reference system used by the offence location.

\* All dates are in UTC format. Add 10 hours for local time.

## Geographical **data**

All geographical data is returned in [Well-Known Text (WKT) format](http://en.wikipedia.org/wiki/Well-known_text).

Offences are always defined as POINT data. Boundaries may be either POLYGON or MULTIPOLYGON. The spatial reference system for all geographical data is [WGS 84](http://en.wikipedia.org/wiki/WGS84) (SRID 4326).