

Watchlists

This Quick Reference Guide contains details on how to:

- [Create Watchlists](#)
- [Maintain Watchlists](#)

Create Watchlists

The NZBN API has functionality that allows you to receive notifications when data changes for a set of entities that you or your organisation want to be advised about.

You can choose to receive notifications either by email or by push notification to an endpoint that you specify and can choose what type of change events you wish to know about.

When testing, you should first create watchlists in the sandbox environment.

Before you begin

You must have:

- [Registered](#) in the [MBIE API developer portal website](#) and [subscribed](#) to the NZBN API. Once approved for access you can retrieve API subscriber keys that allow you access to production and sandbox.
- Registered and signed in to Postman (the premium API testing tool) and imported the NZBN API.
- Set up a production environment and/or sandbox environment in Postman, see Quick Reference Guide – ***Set Up Environments***.

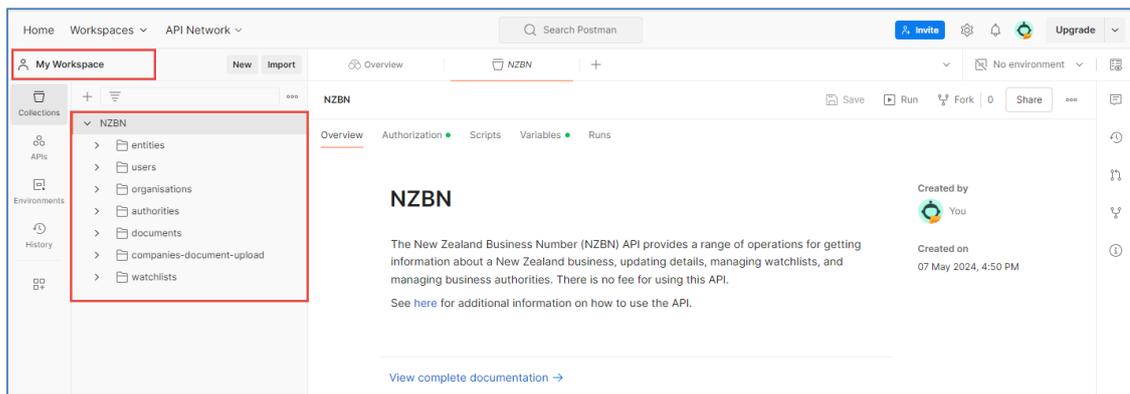
Note: We recommend you set up a production and a sandbox environment within Postman before creating API requests. Environments in Postman can be set up so you can automatically reference variables created at the NZBN parent level saving you time when creating API requests. Refer to Quick Reference Guide - ***Set Up Environments***.

Create New Watchlist

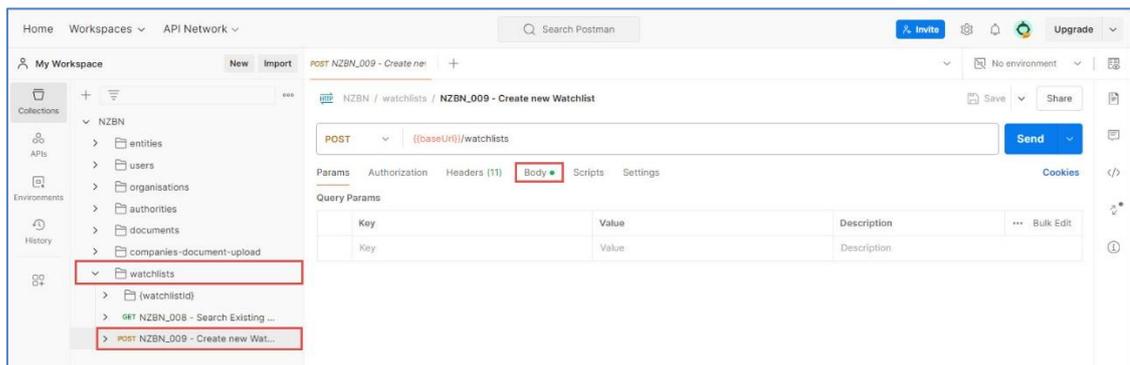
This example shows how to create a watchlist in Postman to notify you of changed details of specified NZ businesses in the NZBN Register. You can set:

- the frequency you want to receive Email notifications.
- whether to receive notifications by Email or Push notification.
- to filter notifications by all entities and specific entity type wildcards or alternatively choose specific NZBN entities to watch.

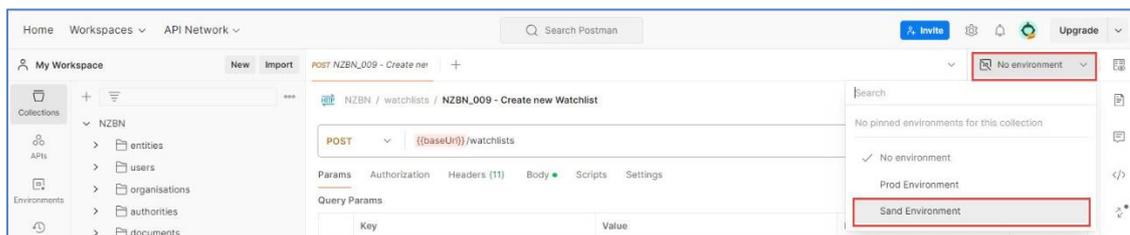
1. Select **My Workplace** then expand **NZBN** in Postman.



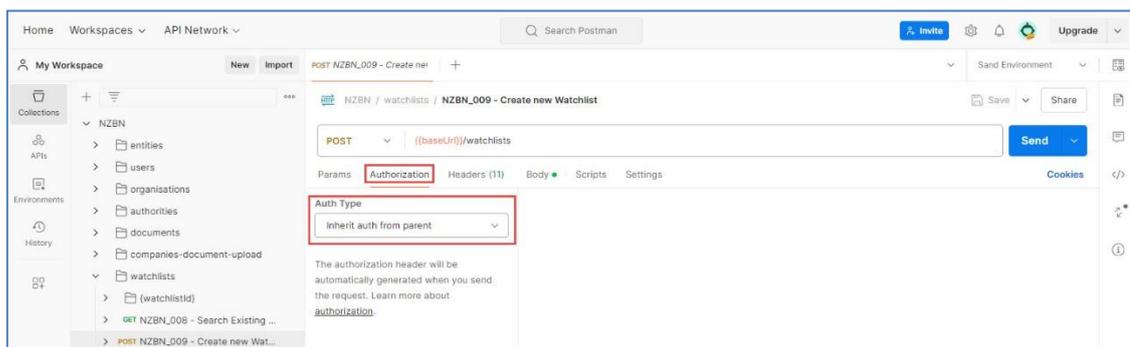
2. Expand watchlists under NZBN and select NZBN_009 – Create new Watchlist.



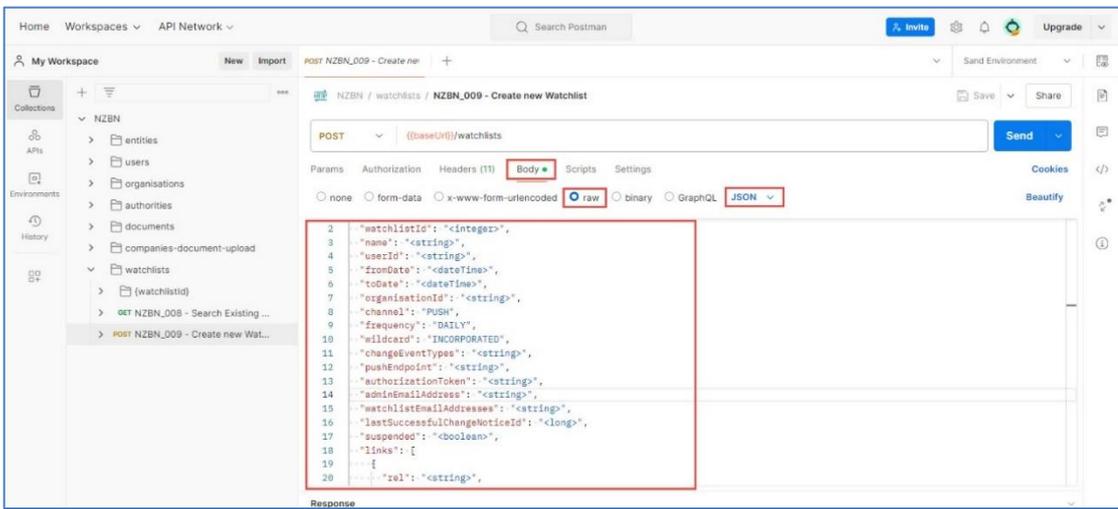
3. Select the sandbox **Environment** (e.g. Sand Environment) in the top right of the screen.



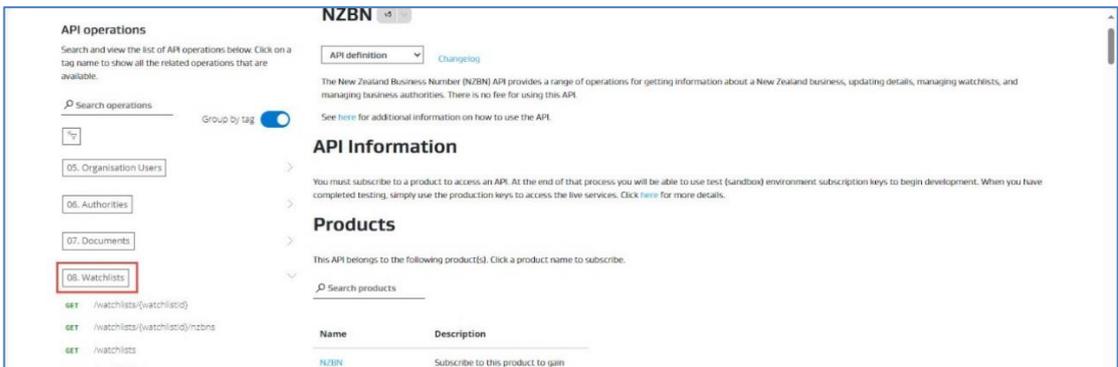
4. Click **Authorisation** and check the Auth Type is set to Inherit auth from parent.



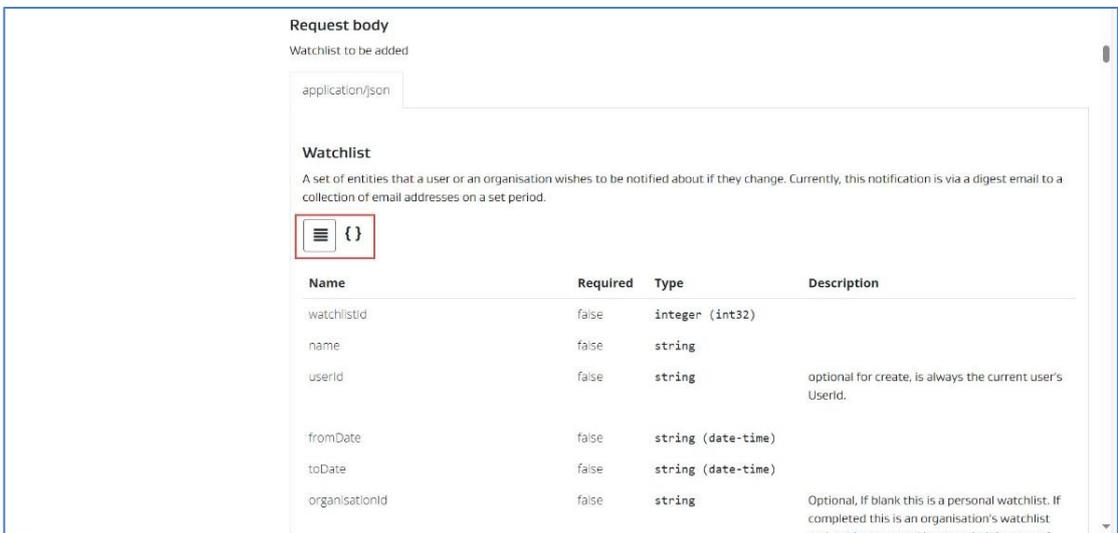
5. Click **Body**, then select the following options:
 - Select the **Raw** (i.e. raw schema) to display the body of the request (or payload).
 - Select **JSON** as the format from the drop-down list.



- To view a full description of **Watchlist** parameters, go to the second page of the [API Information](#) on the NZBN website.

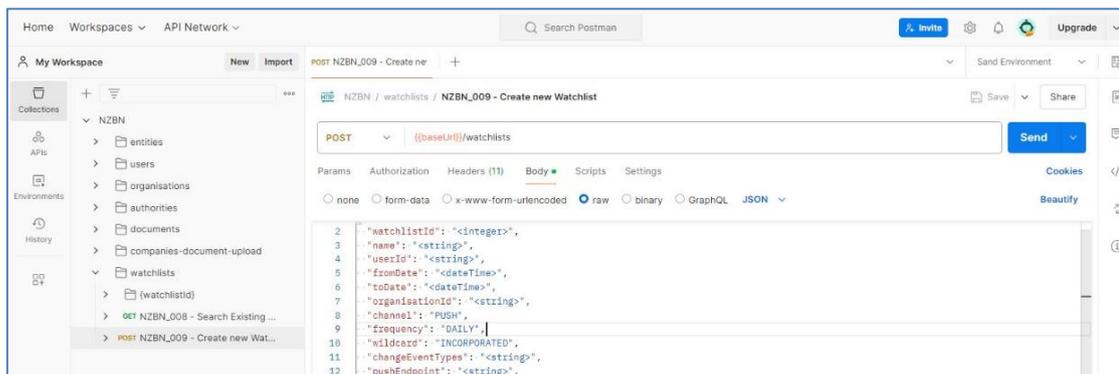


- Select **08. Watchlists** then select **POST /watchlists** and scroll down to the **Request body** area for a full description of the parameters for NZBN_09 – Create new Watchlist.



- Click **≡** (Table view) or **{ }** (Raw schema view) on this page to view details and get the information you require.
- To view parameters in Postman, click **≡** (Documentation icon) in the top right. Scroll down and click **View More** to display these parameters in a larger screen.

7. Return to the **Body** screen in Postman.



8. Enter the **Name** for your watchlist then enter the value directly into the “<string>” for each parameter you require.

- Set the **Channel** of how you want to receive notifications (either EMAIL or PUSH)
- **Frequency** can be set to DAILY, WEEKLY, or ONEVENT, (i.e. every time an event happens)
- Ensure that **email** addresses or pushEndpoint you added are correct and current
- Add the changeEventTypes you want to be notified about, or set to **ALL** if you want to receive notifications about all changes
- Add a wildcard value if you want to watch for changes across all entities or a group of entities
- Add a list of NZBNs to be notified for a specific set of NZBNs
Note: You cannot use NZBNs in conjunction with the wildcard field.

Important:

- Some unused parameters are ignored, (i.e. links).
- Some parameters need to not be submitted or are invalid alongside other parameters. These unused parameters should either be removed or “<string>” set to **null** (as in the Watchlist Example screen shot below)

9. Click **Save** to save your watchlist with the current parameter settings.

10. Click **Send** to create the request. Details of the created request display in the Response area at the bottom of the screen.

- On the specified frequency, all email recipients recorded in the watchlist request will receive an email about any change to the nominated organisation(s).

To amend or delete watchlists, see [Maintain Watchlists](#) below.

Watchlist Example

Create a request to advise by Email of all updates to specific organisations by NZBN whenever an update takes place.

- The parameters entered for this watchlist are:

```

1  {
2  ... "watchlistId": null,
3  ... "name": "JanK-SimpleAuth-Test1",
4  ... "userId": null,
5  ... "fromDate": null,
6  ... "toDate": null,
7  ... "organisationId": null,
8  ... "channel": "EMAIL",
9  ... "frequency": "ONEVENT",
10 ... "wildcard": null,
11 ... "changeEventTypes": "ALL",
12 ... "pushEndpoint": null,
13 ... "authorizationToken": null,
14 ... "adminEmailAddress": null,
15 ... "watchlistEmailAddresses": "jan.kenneally@mbie.govt.nz",
16 ... "lastSuccessfulChangeNoticeId": null,
17 ... "suspended": null,
18 ... "links": [
19 ... {
20 ... "rel": null,
21 ... "href": null,
22 ... "methods": [
23 ... null,
24 ... null
25 ... ]
26 ... },
27 ... {
28 ... "rel": null,
29 ... "href": null,
30 ... "methods": [
31 ... null,
32 ... null
33 ... ]
34 ... }
35 ... ],
36 ... "nzbns": [
37 ... "9429050907564",
38 ... "9429050907274"
39 ... ]

```

- The content of the response displays in the bottom of the screen. It shows details of the created watchlist request:

```

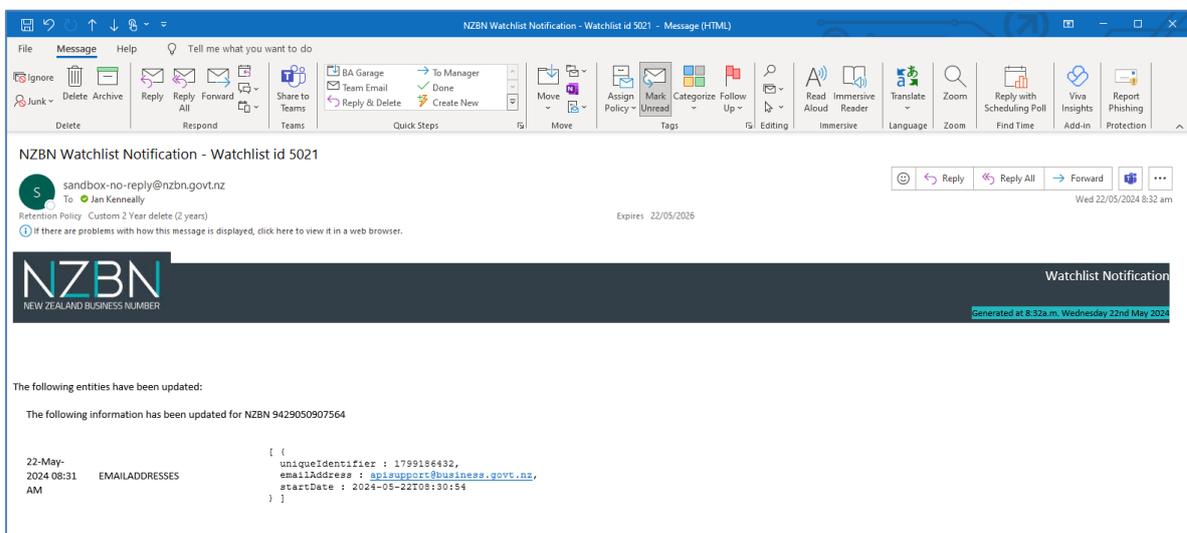
Body Cookies Headers (15) Test Results Status: 20
Pretty Raw Preview Visualize JSON
2   "watchlistId": 5021,
3   "name": "JanK-SimpleAuth-Test1",
4   "userId": "AZUB339143E1DA249DD81AB1E8736EE4857",
5   "fromDate": null,
6   "toDate": null,
7   "organisationId": null,
8   "channel": "EMAIL",
9   "frequency": "ONEVENT",
10  "wildcard": null,
11  "changeEventTypes": "ALL",
12  "pushEndpoint": null,
13  "authorizationToken": null,
14  "adminEmailAddress": null,
15  "watchlistEmailAddresses": "jan.kenneally@mbie.govt.nz",
16  "lastSuccessfulChangeNoticeId": 0,
17  "suspended": false,
18  "links": [
19    {
20      "rel": "Watchlist",
21      "href": "https://api.business.govt.nz/sandbox/nzbn/v5/watchlists/5021",
22      "methods": [
23        "GET",
24        "DELETE",
25        "PUT"
26      ]
27    },
28    {
29      "rel": "Search Watchlists",
30      "href": "https://api.business.govt.nz/sandbox/nzbn/v5/watchlists",
31      "methods": [
32        "GET"
33      ]
34    },
35    {
36      "rel": "View Nzbn List",
37      "href": "https://api.business.govt.nz/sandbox/nzbn/v5/watchlists/5021/nzbn",
38      "methods": [
39        "GET"
40      ]
41    }
42  ],
43  "nzbn": null

```

You should record the **watchlistId** for future use as this is used as a reference when maintaining the watchlist.

Note: This will not display the NZBN numbers you entered.

Example of an email notification received in response to data (email addresses) being updated on the entity:



Maintain Watchlists

After you create a watchlist you can change parameters, add NZBNs or delete NZBNs in a watchlist or delete a watchlist that is no longer required.

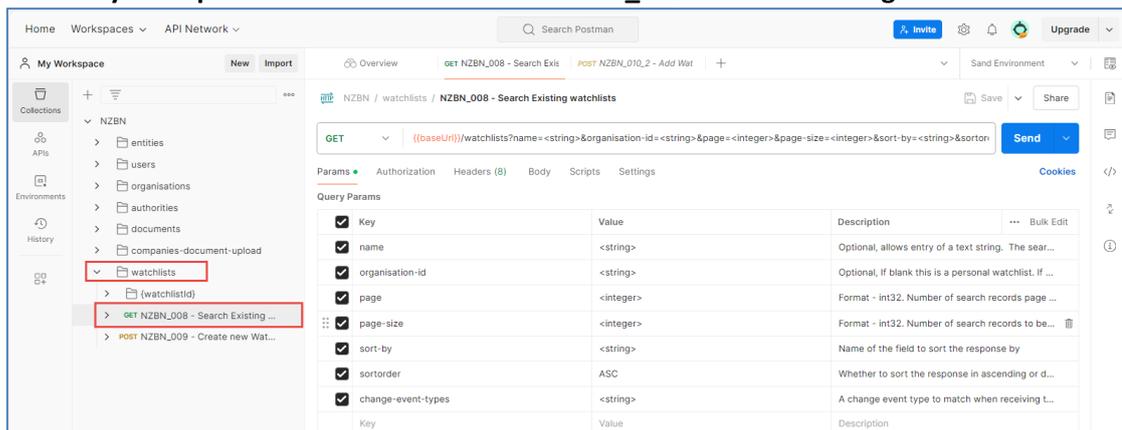
- [Search for Watchlist to Maintain](#)
- [Update Watchlist Parameters](#)
- [View NZBN Numbers in a Watchlist](#)
- [Append NZBN Number to Watchlist](#)
- [Delete NZBN Number from Watchlist](#)
- [Delete NZBN Watchlist](#)

Search for Watchlist to Maintain

The **Watchlist ID** that displayed in the response after creating your watchlist is used to perform any other updates you require or to delete a watchlist in Postman.

If you don't know the ID for your watchlist you can search for it using the name (or part name) of the watchlist or simply perform a search for all your watchlists.

1. Select **My Workplace > NZBVN > watchlists > NZBN_008 – Search Existing watchlists.**



- The search parameters you can use to search on display.
2. To perform a search:
 - Untick each **Key** you don't want to use in your search then and enter the details in the **Value** field. For example, if you know the name or part name, tick **Name** in the **Key** column and enter details in the **Value** field.
 - Alternatively, to retrieve all your watchlists, untick every **Key** field.
 3. Click **Send** to perform the search and display your watchlist(s) in the **Results** area of the screen.
 - Scroll to view the **Watchlist ID** for the watchlist you require.

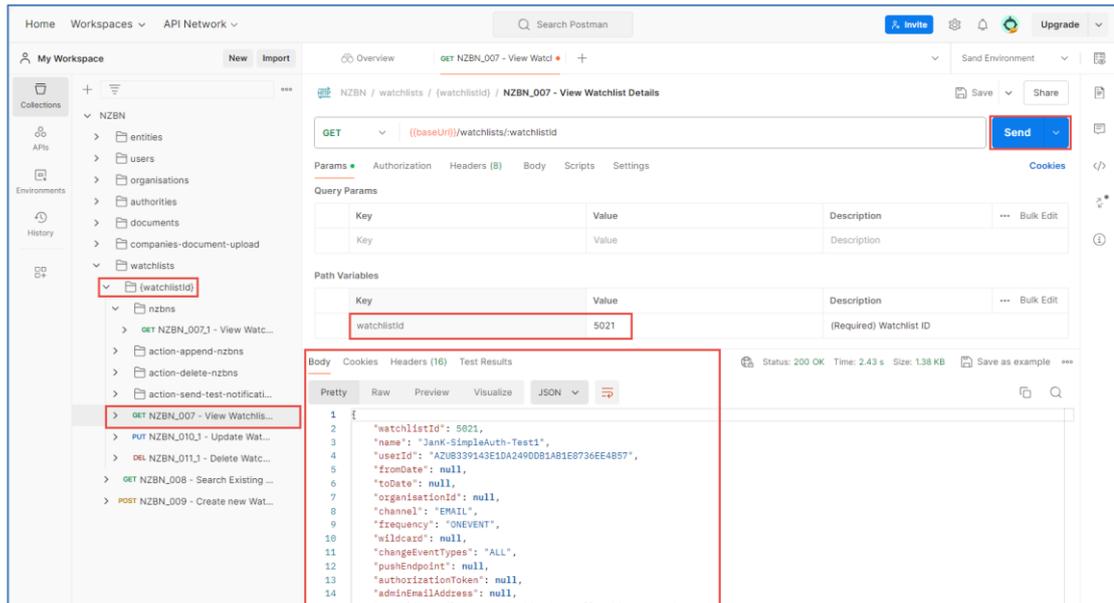
Update Watchlist Parameters

You can update any of the parameters of an existing watchlist in Postman.

Note: Any changes to the list of NZBN numbers in the watchlist must be either appended or deleted, see [Append NZBN Number to Watchlist](#) or [Delete NZBN Number from Watchlist](#).

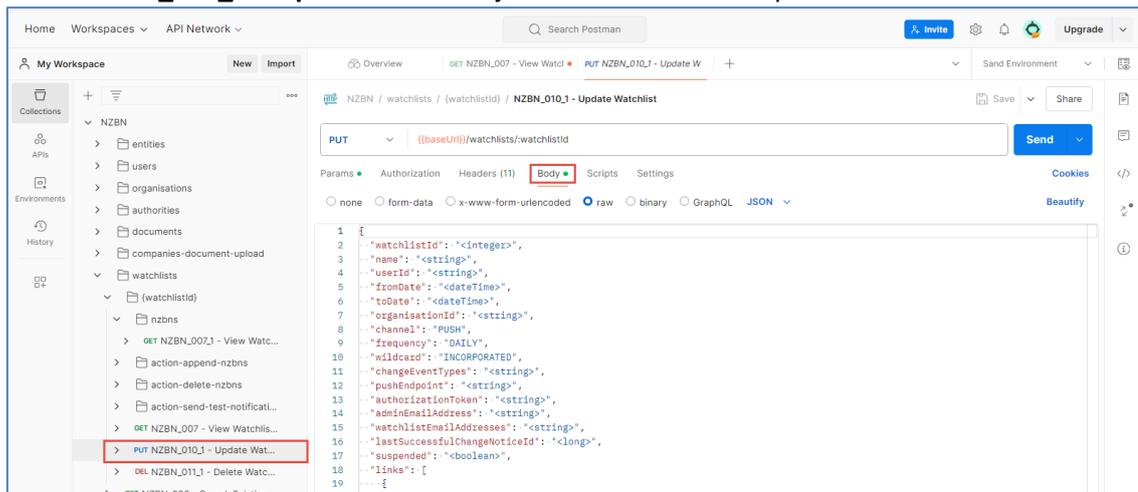
1. View the existing details of the watchlist to update:

- Select **My Workplace > NZBN > Watchlists > {watchlistId} > NZBN_007 – View Watchlist Details**.
- Enter the watchlist ID in the **Value** field and click **Send**. Details of the watchlist display in the **Response** area at the bottom which you can copy as a reference when carrying out an update.

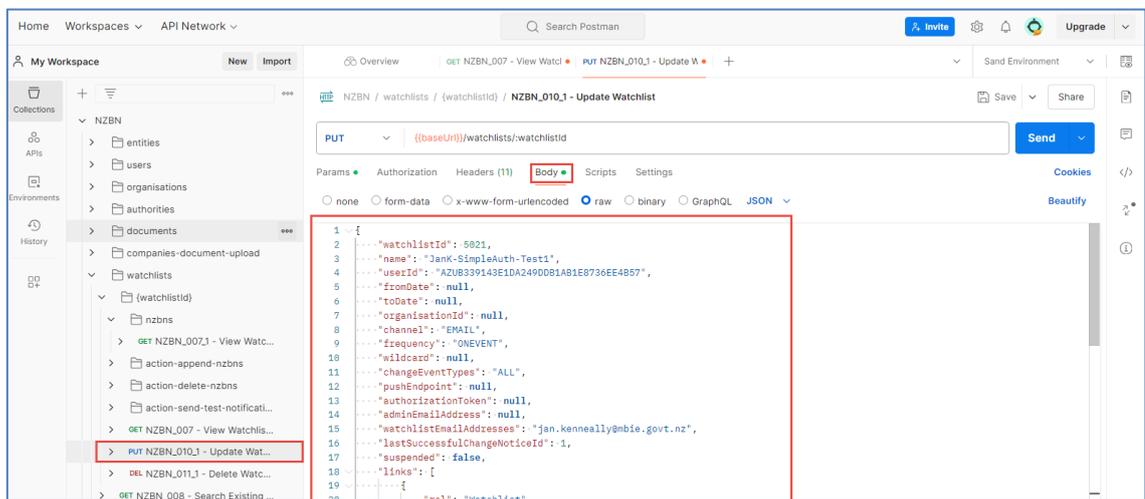


2. Click into the **Response** area and press **Ctrl+A** to select all parameters then copy this to the clipboard.

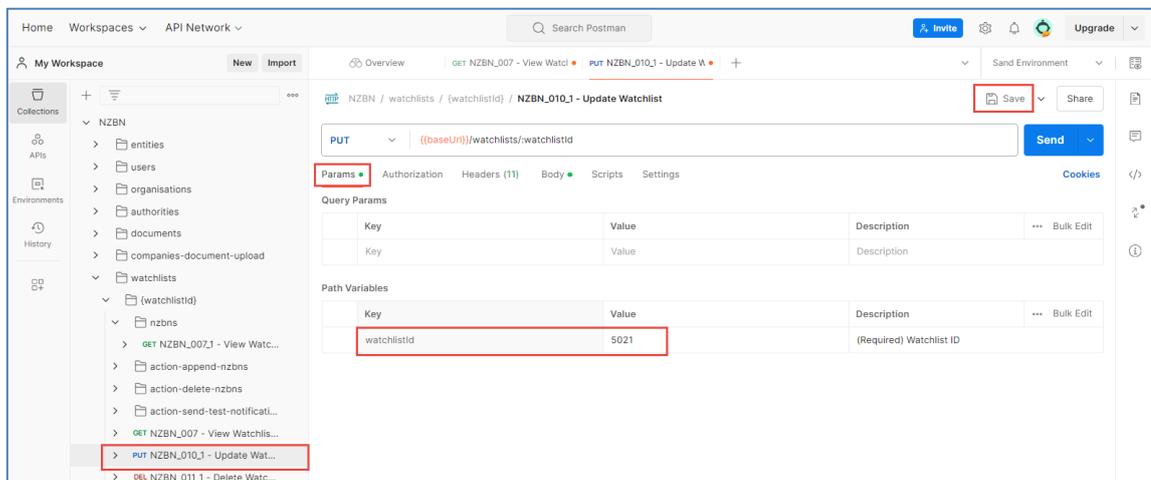
3. Select **NZMB_010_1 – Update Watchlist** just below in the workspace tree.



- Click into the parameters that display.
- Press **Ctrl+A** to select all parameters then press the **Delete** key.
- Press **Ctrl+V** to past the parameters from the clipboard into this area in the **Body** tab. Details of the Watchlist parameters to update display.



4. Make the changes to the parameters you require, (e.g. Change the name of the Watchlist, etc.). **Note:** You cannot change the Watchlist ID, User ID, Organisation ID, or Last Successful Change Notice ID parameters.
5. Click the **Params** tab and enter the watchlist ID into the **Value** field.

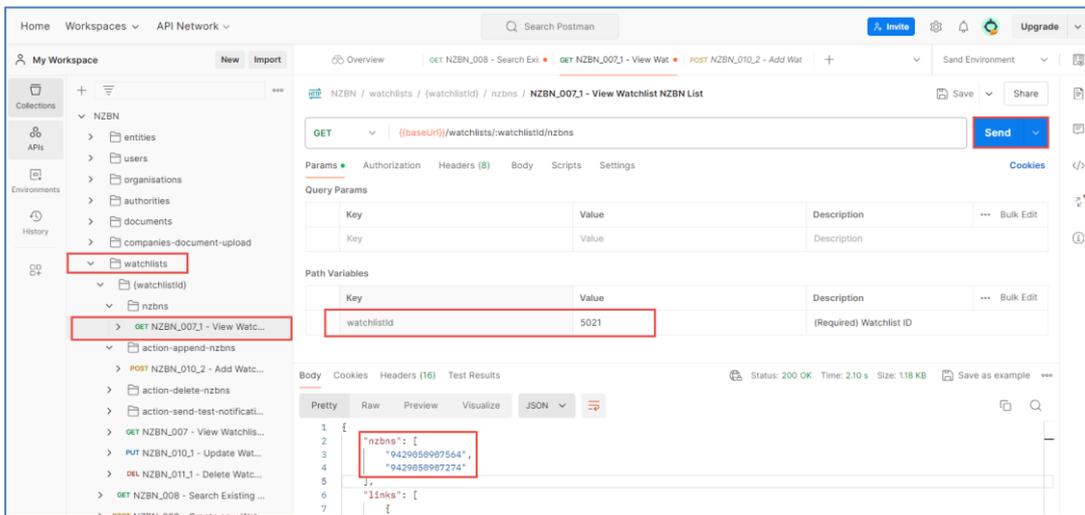


6. Click **Save**.

View NZBN Numbers in a Watchlist

Follow these steps to view all NZBN numbers in a watchlist before you make updates to them:

1. If you don't know the **Watchlist ID**, perform a search, see [Search for Watchlist to Maintain](#).
2. Select **watchlists > {watchlistsID} > nzbn > NZBN_007_1 – View Watchlist NZBN List**.

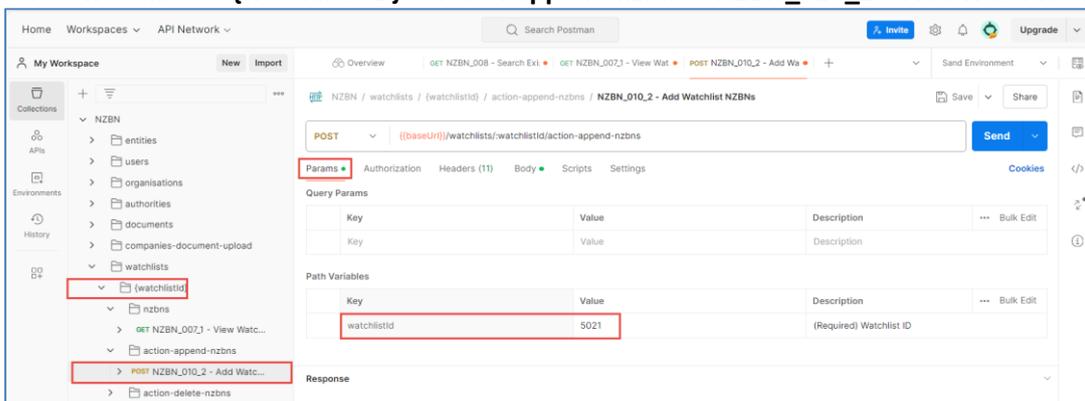


3. In the **Params** tab, enter the watchlist ID in the **Value** field and click **Send**. The **Response** area (below) displays the list of NZBN numbers in the watchlist.
4. Determine the action you require:
 - Add one or more NZBN numbers to the watchlist, see [Append NZBN Number to Watchlist](#).
 - Remove one or more NZBN numbers from the watchlist, see [Delete NZBN Number from Watchlist](#).

Append NZBN Number to Watchlist

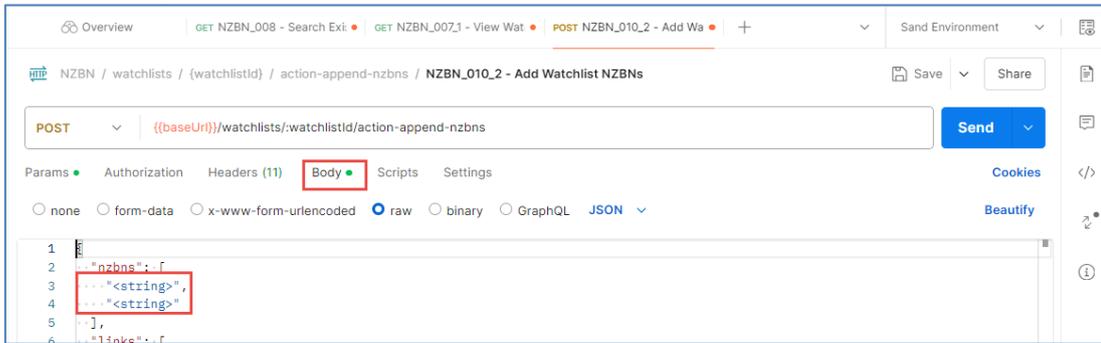
Follow these steps to add one or more NZBN numbers to an existing watchlist. You must know the ID of the watchlist you want to update, see [View NZBN Numbers in a Watchlist View](#).

1. Select **watchlists > {watchlistsID} > action-append-nzbns > NZBN_010_2 – Add Watchlist NZBNs**.



2. Click the **Params** tab and enter the **Watchlist ID** in the **Value** field.

3. Click the **Body** tab.



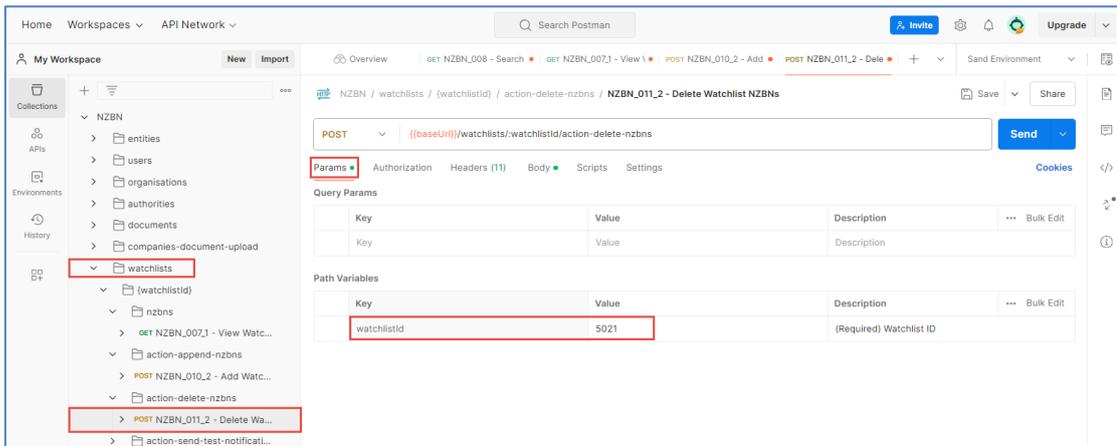
4. Enter each additional NZBN number into a row under “**nzbns**” between the speech marks. Separate each number with a comma.

5. Click **Save** to save and update the watchlist. The additional NZBN number(s) added will be appended to the current watchlist. When your watchlist is next invoked, the appended number(s) will be included in your advice.

Delete NZBN Number from Watchlist

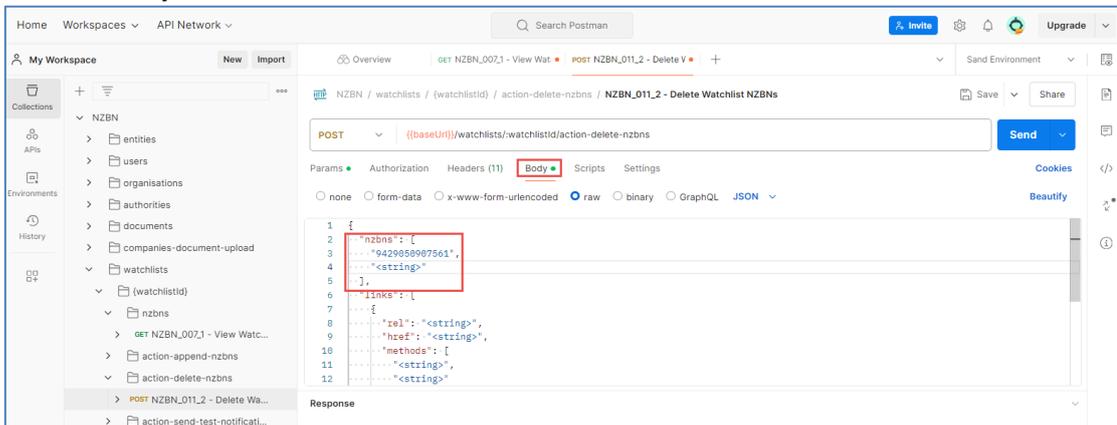
You can remove one or more NZBN numbers for a watchlist. You must know the ID of the watchlist you want to delete, see [View NZBN Numbers in a Watchlist View](#).

1. Select **watchlists > {watchlistsID} > action-delete-nzbns > NZBN_011_2 – Add Delete Watchlist NZBNs**.



2. Click the **Params** tab and enter the **Watchlist ID** in the **Value** field.

3. Click the **Body** tab.



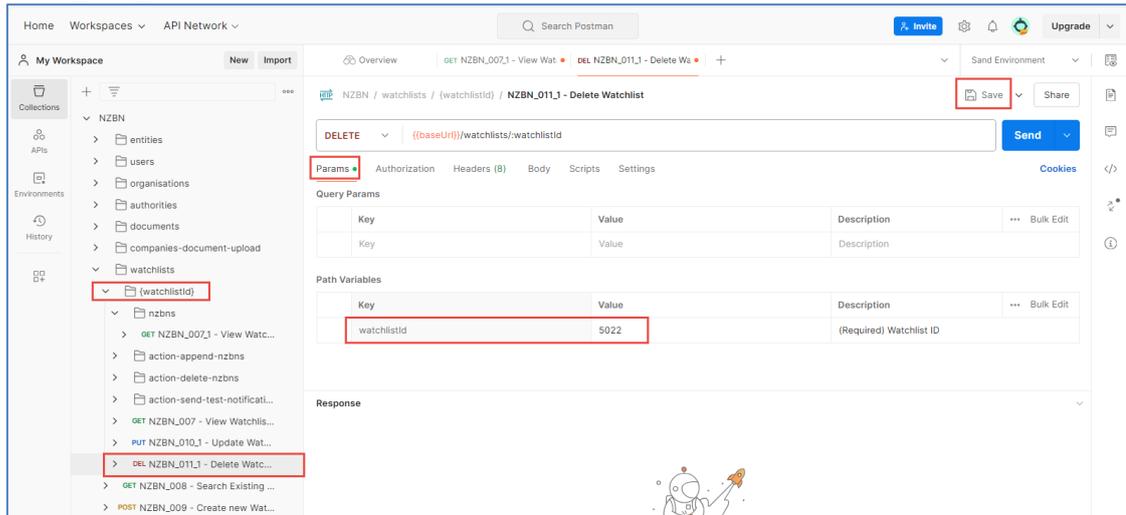
4. Enter each NZBN number you want removed from the watchlist into a row under “**nzbns**” between the speech marks. Separate each number with a comma.
5. Click **Save** to save and update the watchlist.
The NZBN number(s) you listed are now removed from the current watchlist. When your watchlist is next invoked, the deleted number(s) will not be included in your advice.

Delete NZBN Watchlist

When you no longer require a watchlist you can delete it in Postman.

Caution: Once deleted, the watchlist cannot be recovered.

1. Select **My Workplace > NZBN > Watchlists > {watchlistId} > action-delete-nzbns** then select **NZBN_011_1 - Delete Watchlists NZBNs**.



2. In the **Params** tab, enter ID of the watchlist in the **Value** column.
3. Click **Save**. This watchlist is deleted and cannot be recovered.