

**Workington Fire Station**  
**Risk Based Evidence Profile 2018**  
**Risk Review**



**Prepared by Cumbria County Council  
Performance and Intelligence Team**

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## Introduction

This document forms part of the Risk-Based Evidence Profile 2018 (RBEP 2018). The RBEP 2018 is comprised of a 'core' document profiling risk and demand across the county, and 38 individual station profiles (of which this is one).

The RBEP 2018 is developed to support the Integrated Risk Management Plan 2019-23. (IRMP 19-23) The purpose of the IRMP 19-23 is to identify and assess fire and rescue related risks for the next four years, and set out what the service is going to do to address them.

Each station profile details the station area and its available resources, alongside the demand and risk for that station. Prevention and protection activities are also provided to evaluate the scope of mitigating actions that have been taken to address high priority risks.

Horizon scanning is conducted to identify any significant infrastructure, economic and housing developments which need to be taken into account for future service provision.

## Station Area and Resources

The fire station is situated in Workington. A map of the 'station area'<sup>1</sup> is shown below. The station in 17/18 was crewed by 20 regular firefighters and 15 firefighters working the On-call duty system.



|              |  |
|--------------|--|
| Station Area | 32,200 population                                |
| Crewing Type | Regular and On-call                              |
| Fire Engines | 2 fire engines and 1 Joint Incident Command Unit |

The following table indicates the travel distance in miles from Workington Fire Station to the next nearest three fire stations.

| Station Name | Distance by Road (MILES) |
|--------------|--------------------------|
| Whitehaven   | 8 miles                  |
| Maryport     | 8 miles                  |
| Cockermouth  | 9 miles                  |

<sup>1</sup> This is a nominal area which distributes the county across its 38 stations for the purposes of management and performance benchmarking.

## Fire Engine Availability

During 2017/18 the Workington regular fire engine (C01P1) had been off duty for 0% of the time.

| C01P1                       | 2015/16     | 2016/17     | 2017/18     |
|-----------------------------|-------------|-------------|-------------|
| <b>Total Availability</b>   | <b>100%</b> | <b>100%</b> | <b>100%</b> |
| Mon - Fri (08:00 - 18:00)   | 100%        | 100%        | 100%        |
| Mon - Thurs (18:00 - 08:00) | 100%        | 100%        | 100%        |
| Fri - Mon (18:00 - 08:00)   | 100%        | 100%        | 100%        |

During 2017/18 the Workington On-call fire engine (C01P2) had been off duty for 12.02% of the time.

| C01P2                       | 2015/16       | 2016/17       | 2017/18       |
|-----------------------------|---------------|---------------|---------------|
| <b>Total Availability</b>   | <b>68.69%</b> | <b>79.32%</b> | <b>87.98%</b> |
| Mon - Fri (08:00 - 18:00)   | 63.95%        | 62.40%        | 83.00%        |
| Mon - Thurs (18:00 - 08:00) | 80.28%        | 95.39%        | 97.64%        |
| Fri - Mon (18:00 - 08:00)   | 61.98%        | 78.49%        | 83.31%        |

## Station Fire Engine Response Times

Workington fire engines have been called to the following number of incidents over the last three years with the associated response times. Some of the incidents attended may have been in neighbouring station areas.

Between 2015/16 and 2017/18 the Workington regular fire engine (C01P1) had the following response times below

| C01P1 - Regular Crew  | 2015/16       | 2016/17      | 2017/18       |
|---|---------------|--------------|---------------|
| Average crew turnout time (time it takes the crew to respond to the station)              | 1 min 30 secs | 1 min 23secs | 1 min 13 secs |
| Average response time (time it takes the crew to arrive at the incident from the station) | 6 min 13 secs | 7 min 1 secs | 6 min 9 secs  |
| Number of incidents attended by fire engine C62P1   | 416           | 360          | 465           |

Between 2015/16 and 2017/18 the Workington On-call fire engine (C01P2) had the response times below.

| <b>C01P2 - On-call Crew</b>   | <b>2015/16</b> | <b>2016/17</b> | <b>2017/18</b> |
|---|----------------|----------------|----------------|
| Average crew turnout time (time it takes the crew to respond to the station)              | 4 min 58 secs  | 6 min 59 secs  | 6 min 25 secs  |
| Average response time (time it takes the crew to arrive at the incident from the station) | 10 min 7 secs  | 5 min 56 secs  | 6 min 26 secs  |
| Number of incidents attended by fire engine C62P1   | 58             | 48             | 72             |

## Station Area Response Priorities

A 3 year profile of demand within the station area, with associated number of fatalities and seriously injured casualties, is detailed in the table below.

**Table 1: Prevention, Protection and Response Priorities: Workington**

| Fire, Rescue and Road Safety Priorities<br>2018/19 | Incidents |         |         | Fatalities |         |         |                           | Seriously Injured Casualties |         |         |                           | PRIORITY  | 2017/18 compared to<br>3yr average <sup>3</sup> |
|--|-----------|---------|---------|------------|---------|---------|---------------------------|------------------------------|---------|---------|---------------------------|-----------|---|
|  | 2015/16   | 2016/17 | 2017/18 | 2015/16    | 2016/17 | 2017/18 | Average per 100 incidents | 2015/16                      | 2016/17 | 2017/18 | Average per 100 incidents |           |   |
| All incidents                                      | 377       | 302     | 383     | 2          | 1       | 2       | 0.5                       | 2                            | 2       | 3       | 0.7                       | n/a       | ↑   |
| Injury Road Traffic Collisions <sup>1</sup>        | 2         | 5       | 4       | 1          | -       | -       | 0.0                       | -                            | -       | 3       | 27.3                      | Very High | ↑   |
| Primary Fires <sup>2</sup>                         | 61        | 36      | 64      | 1          | -       | -       | 0.6                       | -                            | -       | -       | 0.0                       | Very High | ↑   |
| Flooding and water incidents                       | 13        | 1       | 4       | -          | -       | -       | 0.0                       | -                            | -       | -       | 0.0                       | High      | ↓   |
| Gas incl Carbon Monoxide                           | 1         | -       | 1       | -          | -       | -       | 0.0                       | -                            | -       | -       | 0.0                       | Medium    | ↑   |
| Automatic Fire Alarms                              | 152       | 155     | 131     | -          | -       | -       | 0.0                       | -                            | -       | -       | 0.0                       | Standard  | ↓   |
| Wildfires <sup>4</sup>                             | 1         | -       | 1       | -          | -       | -       | 0.0                       | -                            | -       | -       | 0.0                       | Standard  | ↑   |
| Animal Assistance Incidents                        | 6         | -       | 2       | -          | -       | -       | 0.0                       | -                            | -       | -       | 0.0                       | Standard  | ↓   |

↔ = No Difference +/-5%    ↑ = Higher    ↓ = Lower

<sup>1</sup>Injury Road Traffic Collisions include RTCs attended by CFRS where there was a fatality or a rescue with injury

<sup>2</sup>Primary fires include all fires in buildings, vehicles and outdoor structures or any fire involving casualties, rescues or fires attended by five or more appliances

<sup>3</sup>Increase or decrease if greater than 5% of three year average

<sup>4</sup>Wildfire is defined as any uncontrolled vegetation fire which requires a decision, or action, regarding suppression, plus any one of the following criteria (i) involves a geographical area of greater than 1 hectare (ii) has a sustained flame length of 1.m (iii) requires a committed resource of 4 or more appliances (iv) requires resources to be committed for over 6 hours (v) presents a serious threat to life, environment, property and infrastructure

## Primary Fire Response Profile

### Incident and Risk Profile

In 2017/18, there were 383 incidents within Workington Fire Station area. This included 4 Injury RTCs, 64 primary fires and 4 flooding and water incidents.

CFRS Risk Profile identifies the levels of risk within an area (Lower Super Output Area<sup>2</sup>) of incident types occurring – this is based on the likelihood of an incident occurring and also on the likelihood of that incident being of a life-threatening or serious nature. Full details of the risk model calculations used are in Appendix B of RBEP 2018.

The fire risk model shows decreasing fire risk for Workington Fire Station with no high level risk LSOAs, and overall risk score decreasing from 802 in 2014/15 to 698 in 2018/19, a decrease of 13%.

**Table 2: 18/19 Primary Fire Risk – Workington**

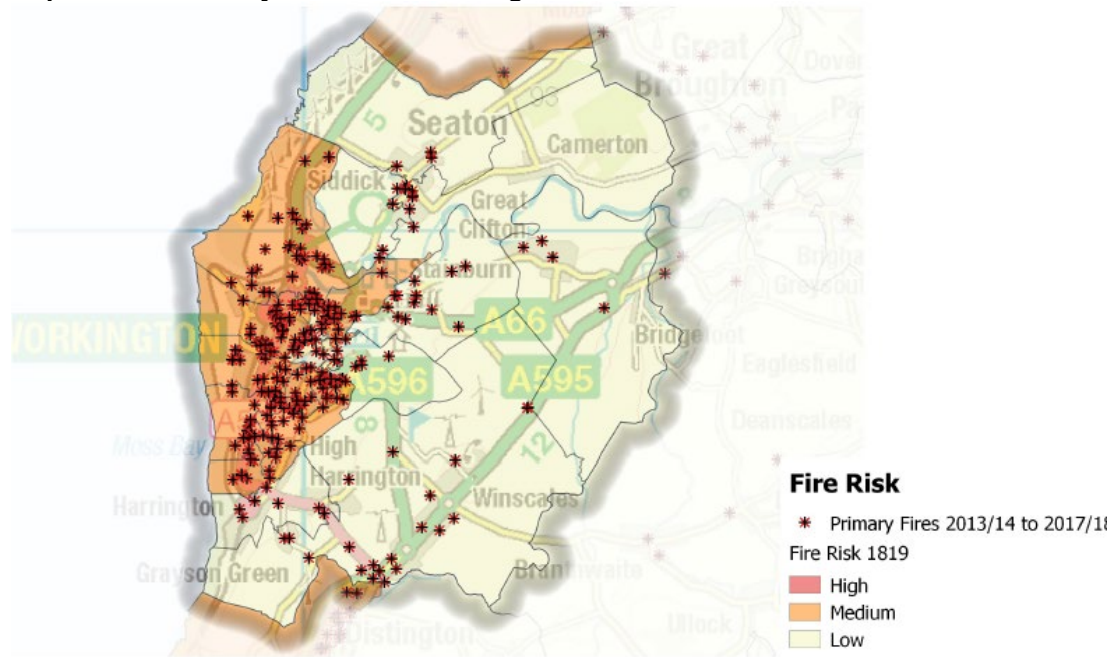
| Workington Risk Profile |            | Incidents 2009/10 - 13/14 |             | Incidents 2010/11 - 14/15 |             | Incidents 2011/12 - 15/16 |             | Incidents 2012/13 - 16/17 |             | Incidents 2013/14 - 17/18 |             |
|-------------------------|------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|
|                         |            | 2014/15 Risk              |             | 2015/16 Risk              |             | 2016/17 Risk              |             | 2017/18 Risk              |             | 2018/19 Risk              |             |
| Score                   | Risk Grade | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs |
| >=76                    | High       | 78                        | 1           | 78                        | 1           | 0                         | 0           | 0                         | 0           | 0                         | 0           |
| 35- 75                  | Medium     | 524                       | 10          | 492                       | 9           | 574                       | 11          | 532                       | 11          | 452                       | 10          |
| <=34                    | Low        | 200                       | 9           | 238                       | 10          | 214                       | 9           | 214                       | 9           | 246                       | 10          |
| <b>TOTAL</b>            |            | <b>802</b>                | <b>20</b>   | <b>808</b>                | <b>20</b>   | <b>788</b>                | <b>20</b>   | <b>746</b>                | <b>20</b>   | <b>698</b>                | <b>20</b>   |

The map of Fire Risk below shows levels of Fire Risk by LSOA, with the last 5 years of primary fire incidents clustering within Workington town centre.

<sup>2</sup> Lower Super Output Areas are geographic areas created by the [Office for National Statistics](https://www.ons.gov.uk/methods/geography/other-geographies/lsoas) to support statistical analysis at a more detailed geographical level . Each LSOA is designed to have similar population sizes of up to 1,200 households.



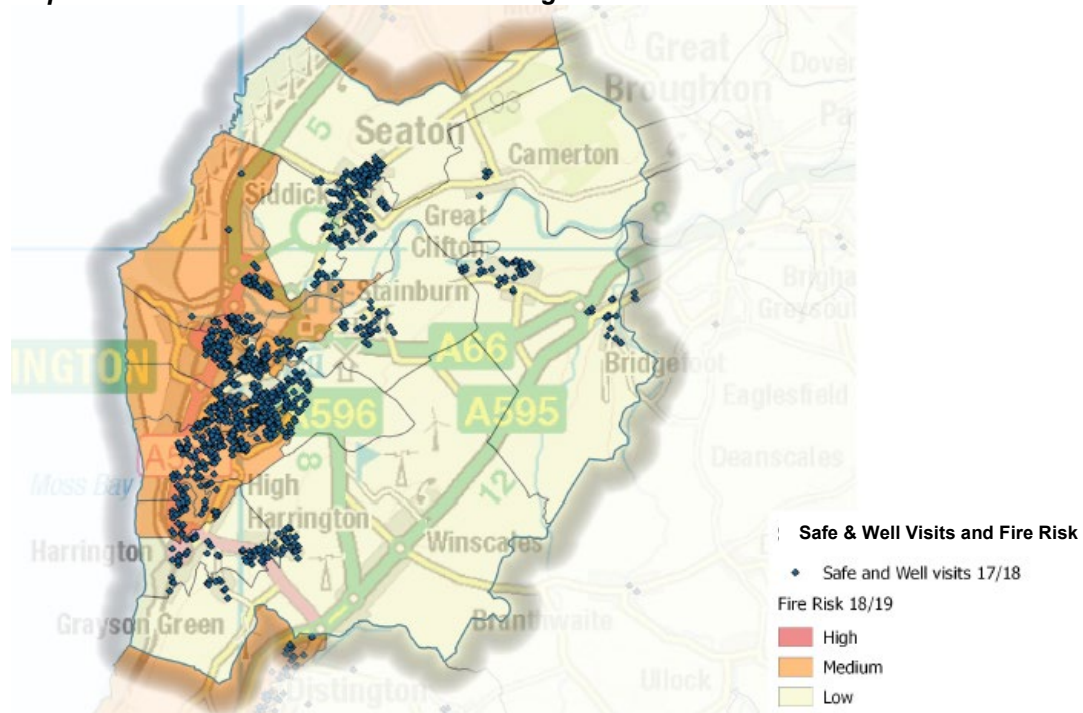
**Map 1: 18/19 Primary Fire Risk –Workington**



**Prevention and Protection Activity**

In April 2017 CFRS implemented their new Safe and Well visits. These are targeted at individual households that are high risk, rather than areas of high risk as previously targeted in the Home Safety Visits. In 2017/18 CFRS conducted 10,432 Safe and Well visits across Cumbria.

**Map 2: Safe and Well Visits 17/18 –Workington**



## Injury Road Traffic Collision Response Profile

### Incident and Risk Profile

The Injury RTC risk modelling shows a decreasing rate of risk for Workington Station area. There is one LSOA that is high risk in 2018/19. This is due to a range of KSI incidents on a range of streets between Harrington Road and Vulcan's Lane, North East of the high street. However, the overall risk score decreases from 800 in 2014/15 to 604 in 2018/19 – a drop of 25%

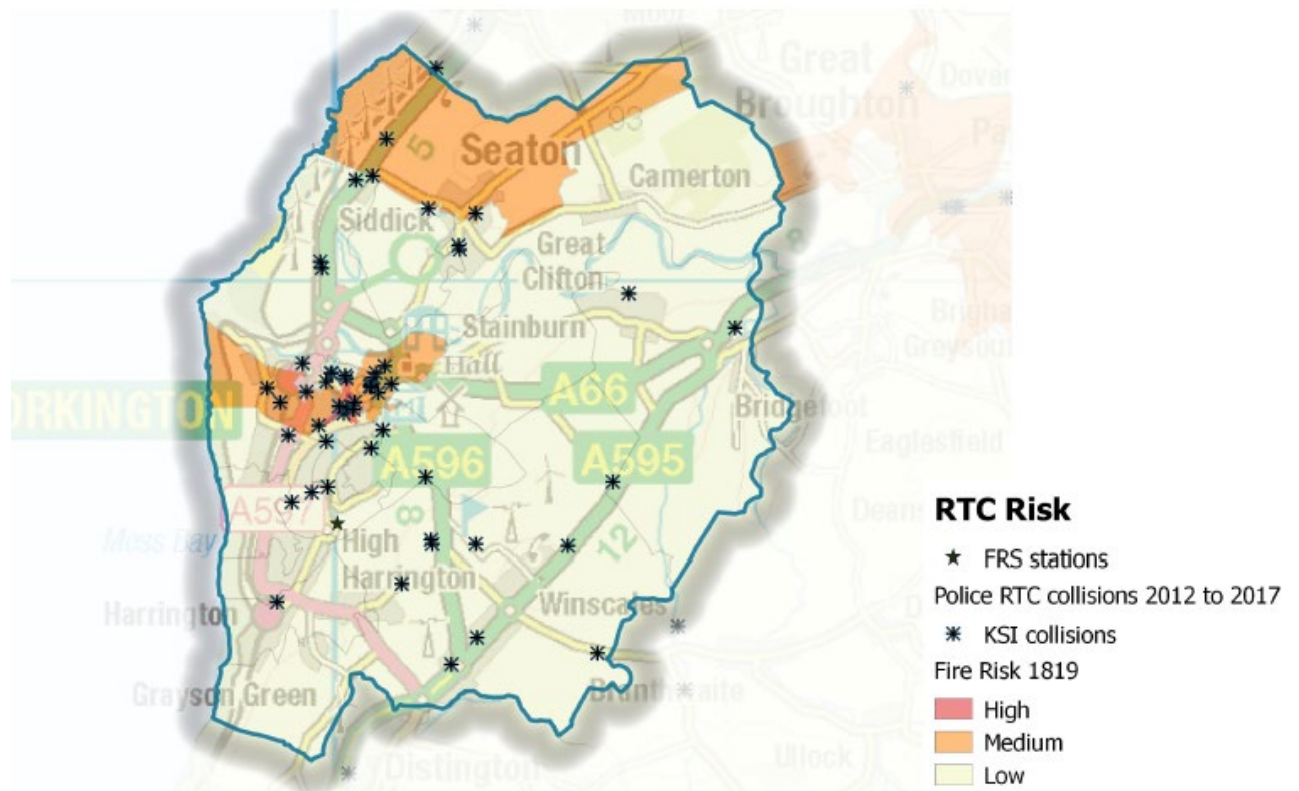
**Table 3: 18/19 Injury RTC Risk – Workington**

| Workington Risk Profile |            | Incidents 2009/10 - 13/14 |            | Incidents 2010/11 - 14/15 |             | Incidents 2011/12 - 15/16 |             | Incidents 2012/13 - 16/17 |             | Incidents 2013/14 - 17/18 |             |
|-------------------------|------------|---------------------------|------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|
|                         |            | 2014/15 Risk              |            | 2015/16 Risk              |             | 2016/17 Risk              |             | 2017/18 Risk              |             | 2018/19 Risk              |             |
| Score                   | Risk Grade | Risk Score                | No of LSOA | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs | Risk Score                | No of LSOAs |
| 100                     | High       | 0                         | 0          | 0                         | 0           | 0                         | 0           | 0                         | 0           | 0                         | 1           |
| 24-100                  | Med        | 384                       | 5          | 320                       | 4           | 304                       | 4           | 240                       | 3           | 268                       | 4           |
| <=24                    | Low        | 416                       | 15         | 524                       | 16          | 424                       | 16          | 424                       | 17          | 336                       | 15          |
| <b>TOTAL</b>            |            | <b>800</b>                | <b>20</b>  | <b>844</b>                | <b>20</b>   | <b>728</b>                | <b>20</b>   | <b>664</b>                | <b>20</b>   | <b>604</b>                | <b>20</b>   |

Datasources: Cumbria Constabulary RTC Data, FireCore Incident data

The map below shows the risk levels by LSOA for Cumbria, overlaid with Killed/ Seriously Injured (KSI) incidents between 2012 and 2017.

**Map 3: 18/19 Injury RTC Risk – Workington**



## Prevention and Protection

CFRS provide Road Awareness Training (RAT) sessions targeted at drivers aged 18 to 25 years, as these are at highest risk of being involved in a collision. We also currently provide RAT sessions targeted at those aged 55 years and older.

In Allerdale District, 27 RAT sessions were provided throughout 2017/18 to a total of 305 attendees.

**Table 4: Number of RAT sessions 2017/18 by District**

| Road Traffic Awareness Training Sessions completed 2017/18 |                |                 |
|--|----------------|-----------------|
| District   | Number of RATs | Number attended |
| Allerdale  | 27             | 305             |
| Barrow-in-Furness  | 7              | 257             |
| Carlisle   | 24             | 629             |
| Copeland   | 11             | 329             |
| Eden   | 3              | 120             |
| South Lakeland   | 10             | 507             |
| <b>Cumbria</b>   | <b>82</b>      | <b>2,147</b>    |

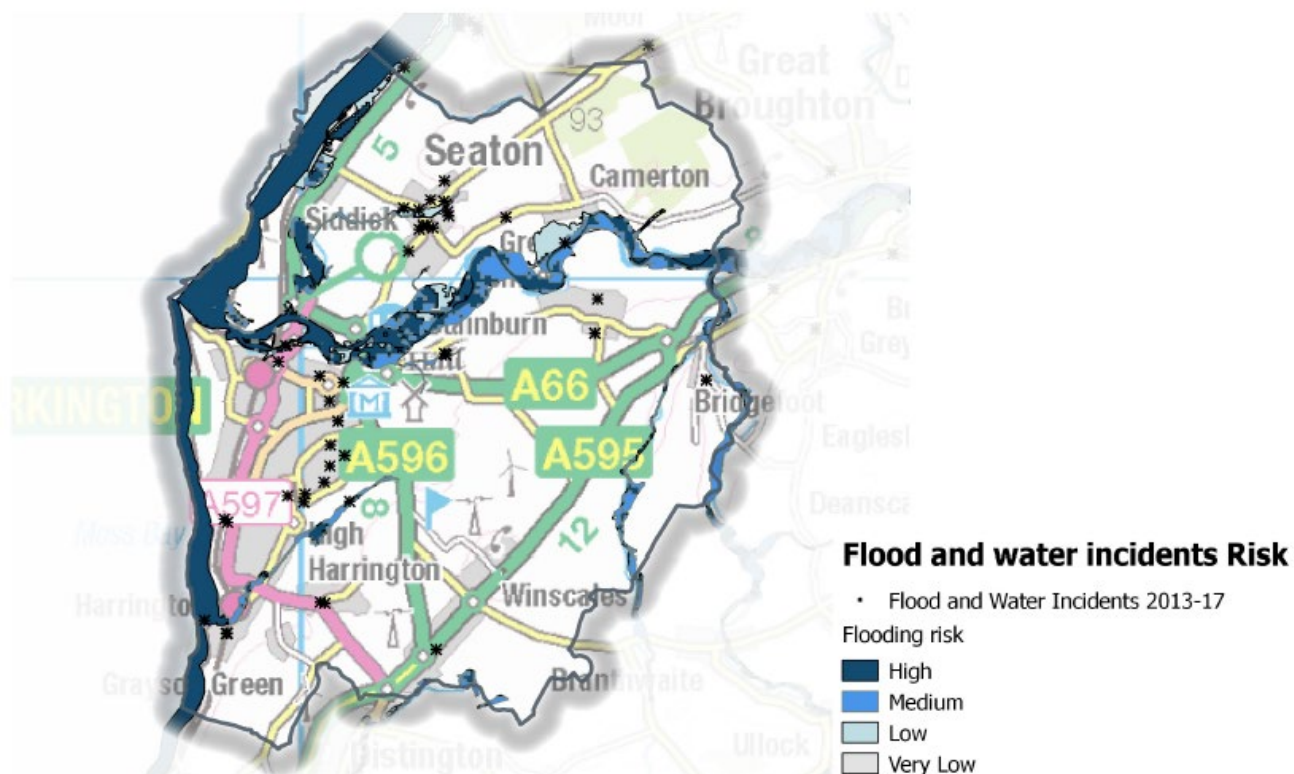
*Datasource: CFRMIS*

## Flooding and Water Rescue - Response Profile

### Incident and Risk Profile

Flood Risk is taken from the Environment Agency's Risk of Flooding from Rivers and Seas (Aug 2018). The risk of flooding is categorised into high, medium, low and very low areas. Incidents responded to by CFRS between 2013 and 2017 are overlaid on the risk areas.

**Map 4: Risk Map of Flooding based on Rivers and Seas (Aug 2018) - Workington**



### Prevention and Protection Activity

The [Environment Agency's Cumbria Flood Action Plan](#) (1 June 2016) details 65 areas of action for implementation across Cumbria, Eden, Derwent and Kent and Leven Catchment areas. These proposed actions fall into five key themes

- Strengthening Defences
- Upstream Management
- Maintenance
- Resilience
- Water Level Management Boards

Full details of the Cumbria 2015 Flood Events are available in the [Flood Impact Assessment](#) Dec 2015.

## Other Risk information

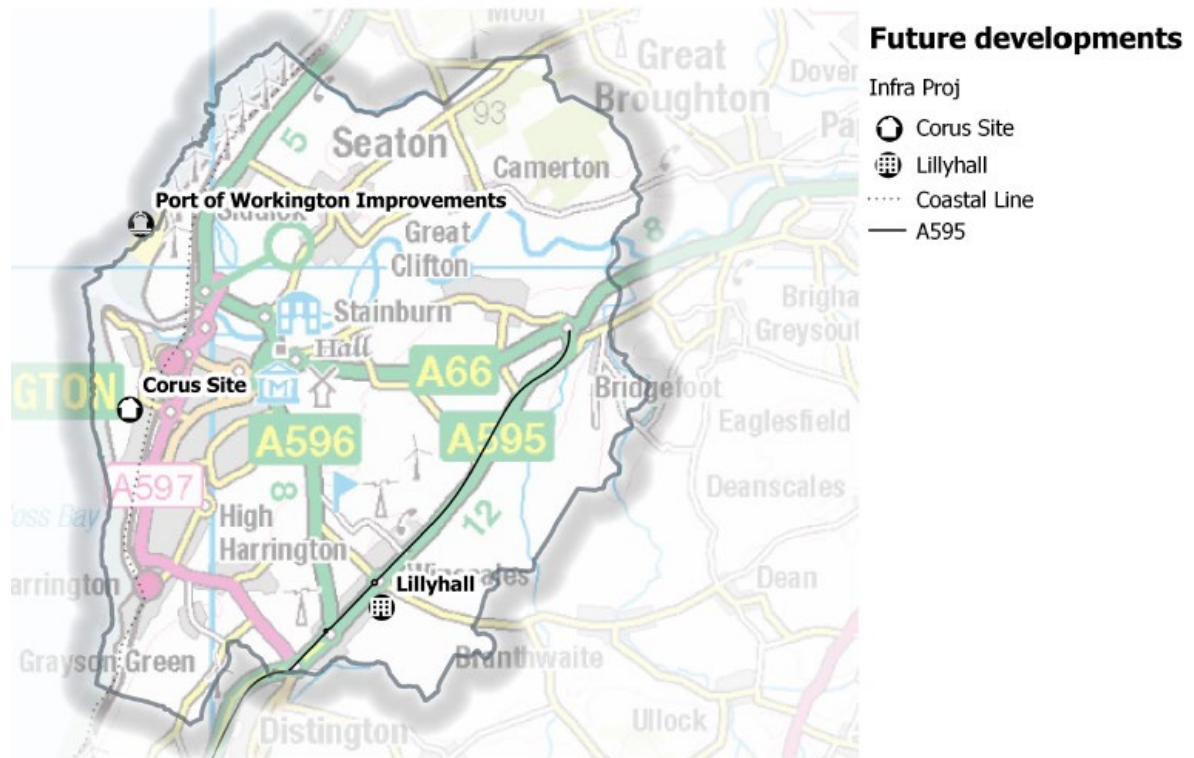
The coastal town of Workington is situated on the west coast of Cumbria and is largely an industrial town with a population of around 25,000. The main industries in the town include the production of carton board (Iggesund Paperboard), Chemical Plants, and many other industrial factories and units.

| Workington          | Risk in station area  |
|---------------------|---|
| Heritage            | <p><b>Grade I listed:</b></p> <ul style="list-style-type: none"> <li>• Branthwaite Hall, Braithwaite</li> <li>• Church of St Oswald, Dean</li> <li>• Workington Hall, Workington</li> </ul> <p><b>Grade II* listed:</b></p> <ul style="list-style-type: none"> <li>• Crakeplace Hall, Ullock</li> <li>• Helena Thompson Museum and former stables</li> <li>• Church of St John and adjoining parish room</li> <li>• Church of St Michael</li> <li>• St Michael's House</li> </ul>   |
| Environment         | <ul style="list-style-type: none"> <li>• 1 Site of Specific Scientific Interest</li> </ul>  |
| Site Specific Risks | <ul style="list-style-type: none"> <li>• Versellus UK</li> <li>• Amcor Flexibles Ltd</li> <li>• Cyclife Ltd</li> <li>• Port Of Workington</li> <li>• Camtex Fabrics Ltd</li> <li>• New Balance Athletic Shoes (Uk) Ltd</li> <li>• Lakes College West</li> <li>• Nuclear Skills Academy</li> <li>• Alco Waste Management</li> <li>• Cumbria Waste Management Ltd</li> <li>• Futurama/Stobarts</li> <li>• FCC Environments</li> <li>• Workington Community Hospital</li> <li>• Derwent Park</li> <li>• Workington Town FC (Borough Park)</li> </ul> |
| Rurality            | <ul style="list-style-type: none"> <li>• Of the 20 LSOAs that make up Workington 18 are designated 'Urban' according to DEFRA Urban/Rural classifications and 2 'Village and Hamlet'</li> </ul>   |

## Horizon Scanning

Risk and demand are constantly evolving across the county, and as such necessitate an evolving service to optimise efficiency and effectiveness. In the short to long-term a range of infrastructure and economic projects are anticipated. Those that are planned within the Workington Fire Station area are shown below.

**Map: Future Projects and Developments within Workington Fire Station Area**



Currently there are 4 infrastructure projects within Workington Fire Station area:

| Station    | Project                              | Investment Impact                                       |
|------------|--------------------------------------|---|
| West Coast | Cumbrian Coastal Railway Enhancement | Improvements to increase capacity, usage and resilience |
| Workington | Port of Workington Improvements      | Ensure access and facilities support investment         |
|            | Lillyhall                            | Enabling future development areas                       |
|            | Corus Site                           | 650 homes   |

Based on these economic and housing projects, Allerdale district's population is expected to remain relatively stable with projections of growth between 0% and +3% by 2023, which would lead to primary fires staying the same or increasing by 4. This would have no projected impact on fire casualty rates by 2023.