

Aspatia Fire Station
Risk Based Evidence Profile 2018
Risk Review



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

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Contents

| | |
|---|----|
| Introduction | 3 |
| Station Area and Resources..... | 4 |
| Fire Engine Availability | 5 |
| Station Fire Engine Response Times..... | 5 |
| Station Area Response Priorities..... | 6 |
| Primary Fire Response Profile..... | 7 |
| Incident and Risk Profile | 7 |
| Prevention and Protection Activity | 8 |
| Injury Road Traffic Collision Response Profile..... | 9 |
| Incident and Risk Profile | 9 |
| Prevention and Protection..... | 10 |
| Flooding and Water Rescue - Response Profile | 11 |
| Incident and Risk Profile | 11 |
| Prevention and Protection Activity | 11 |
| Other Risk information..... | 12 |
| Horizon Scanning..... | 13 |

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 (IRMP) 2019-23. 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 Aspatria. The station in 17/18 was crewed by 11 firefighters working the On-call duty system.



| | |
|--------------|------------------|
| Station Area | 6,700 population |
| Crewing Type | On-call |
| Fire Engines | 1 fire engine |

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

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

Fire Engine Availability

During 2017/18 the Aspatria On-call fire engine had been off duty for 8.87% of the time.

| C03P1 | 2015/16 | 2016/17 | 2017/18 |
|-----------------------------|---------|---------|---------|
| Total Availability | 96.45% | 90.57% | 91.13% |
| Mon - Fri (08:00 - 18:00) | 96.39% | 92.35% | 95.72% |
| Mon - Thurs (18:00 - 08:00) | 99.22% | 98.86% | 98.16% |
| Fri - Mon (18:00 - 08:00) | 93.97% | 90.57% | 81.15% |

Station Fire Engine Response Times

Aspatria fire engine has 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 Aspatria On-call fire engine (C03P1) had the following response times below

| C03P1 | 2015/16 | 2016/17 | 2017/18 |
|---|----------------|----------------|----------------|
| Average crew turnout time (time it takes the crew to respond to the station) | 3 mins 39 secs | 3 mins 57 secs | 3 mins 54 secs |
| Average response time (time it takes the crew to arrive at the incident from the station) | 9 mins 08 secs | 9 mins 19 secs | 9 mins 34 secs |
| Number of incidents attended by fire engine C03P1 | 116 | 95 | 89 |

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: Aspatia

| Fire, Rescue and Road Safety Priorities 2018/19 | Incidents | | | Fatalities | | | | Seriously Injured Casualties | | | | PRIORITY | 2017/18 compared to 3yr average ³ |
|--|-----------|---------|---------|------------|---------|---------|---------------------------|------------------------------|---------|---------|---------------------------|-----------|---|
| | 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 | 47 | 51 | 50 | - | - | 1 | 0.7 | - | 1 | - | 0.7 | n/a | ↔ |
| Injury Road Traffic Collisions ¹ | 1 | 2 | 2 | - | - | - | 0.0 | - | 1 | - | 20.0 | Very High | ↑ |
| Primary Fires ² | 11 | 15 | 3 | - | - | - | 0.0 | - | - | - | 0.0 | Very High | ↓ |
| Flooding and water incidents | 6 | - | 3 | - | - | - | 0.0 | - | - | - | 0.0 | High | ↓ |
| Gas incl Carbon Monoxide | - | - | - | - | - | - | 0.0 | - | - | - | 0.0 | Medium | ↔ |
| Automatic Fire Alarms | 22 | 18 | 28 | - | - | - | 0.0 | - | - | - | 0.0 | Standard | ↑ |
| Wildfires ⁴ | - | - | - | - | - | - | 0.0 | - | - | - | 0.0 | Standard | ↔ |
| Animal Assistance Incidents | - | - | - | - | - | - | 0.0 | - | - | - | 0.0 | Standard | ↔ |

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

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

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

³Increase or decrease if greater than 5% of three year average

⁴Wildfire 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 50 incidents within Aspatria Fire Station area with 1 fatality. This included 2 Injury RTCs, 3 primary fires and 3 flooding and water incidents.

CFRS Risk Profile identifies the levels of risk within an area (Lower Super Output Area¹) 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 the RBEP 2018.

The fire risk model shows decreasing fire risk for Aspatria 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%.

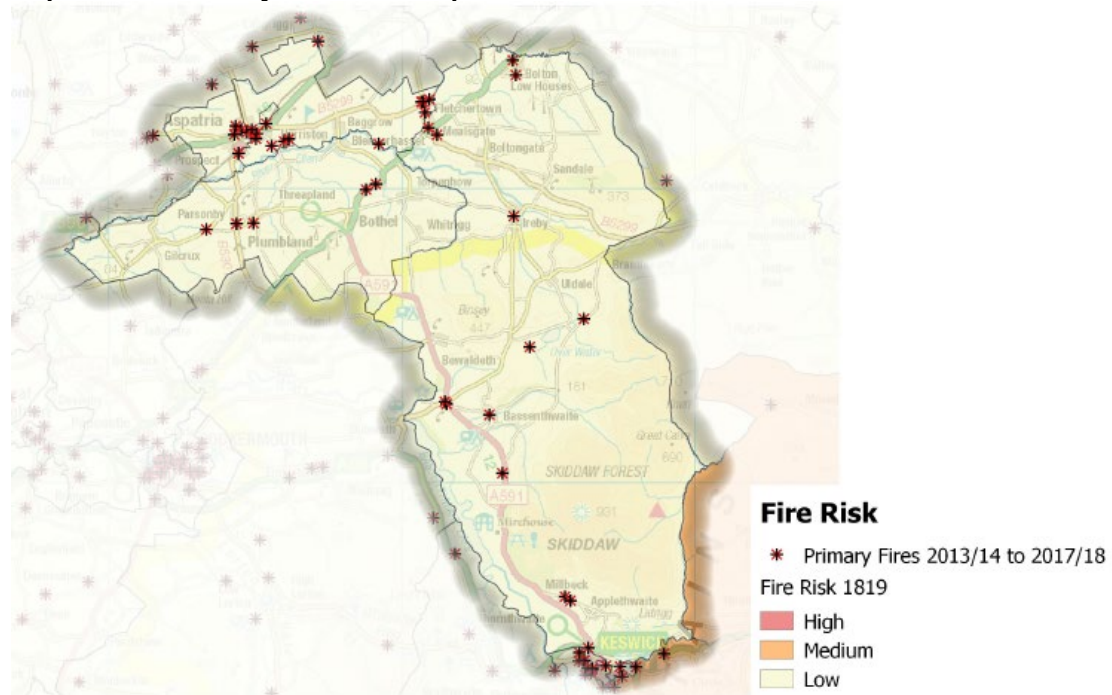
Table 2: 18/19 Primary Fire Risk – Aspatria

| Aspatria 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35- 75 | Medium | 36 | 1 | 36 | 1 | 36 | 1 | 0 | 0 | 0 | 0 |
| <=34 | Low | 80 | 3 | 72 | 3 | 78 | 3 | 108 | 4 | 108 | 4 |
| TOTAL | | 116 | 4 | 108 | 4 | 114 | 4 | 108 | 4 | 108 | 4 |

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

¹ 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.

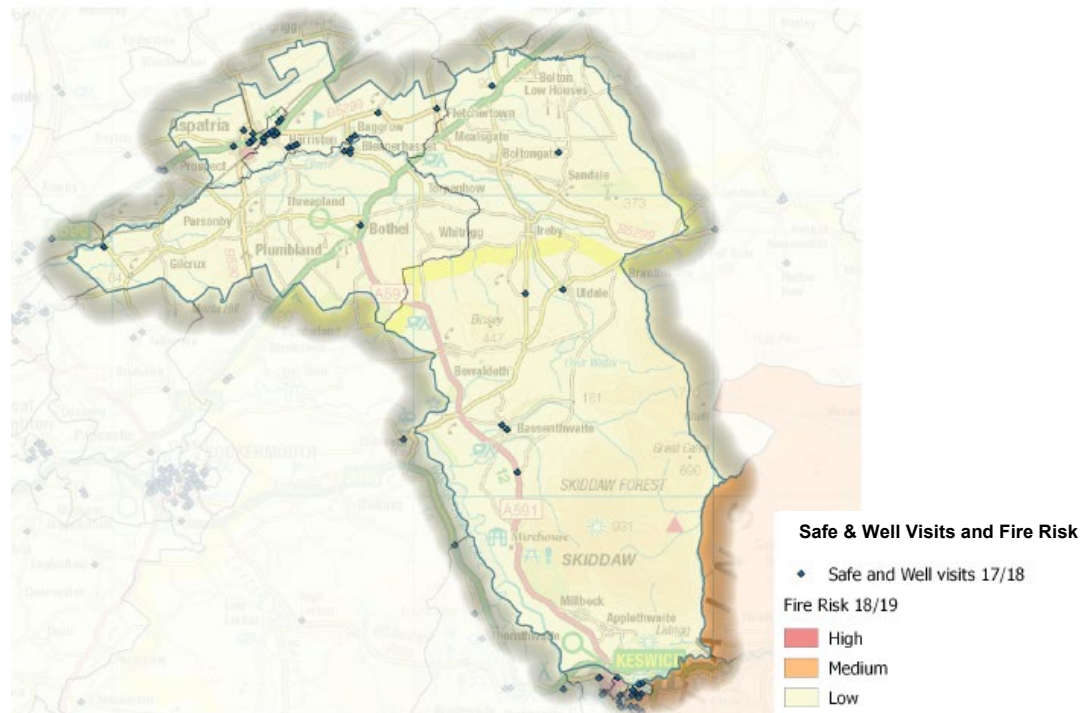
Map 1: 18/19 Primary Fire Risk –Aspatria



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 –Aspatria



Injury Road Traffic Collision Response Profile

Incident and Risk Profile

The Injury RTC risk modelling shows a decreasing rate of risk for Aspatria Fire Station area. There is one LSOA that is high risk in 2018/19. However, the overall risk score decreases from 292 in 2014/15 to 184 in 2018/19 – a drop of 37%

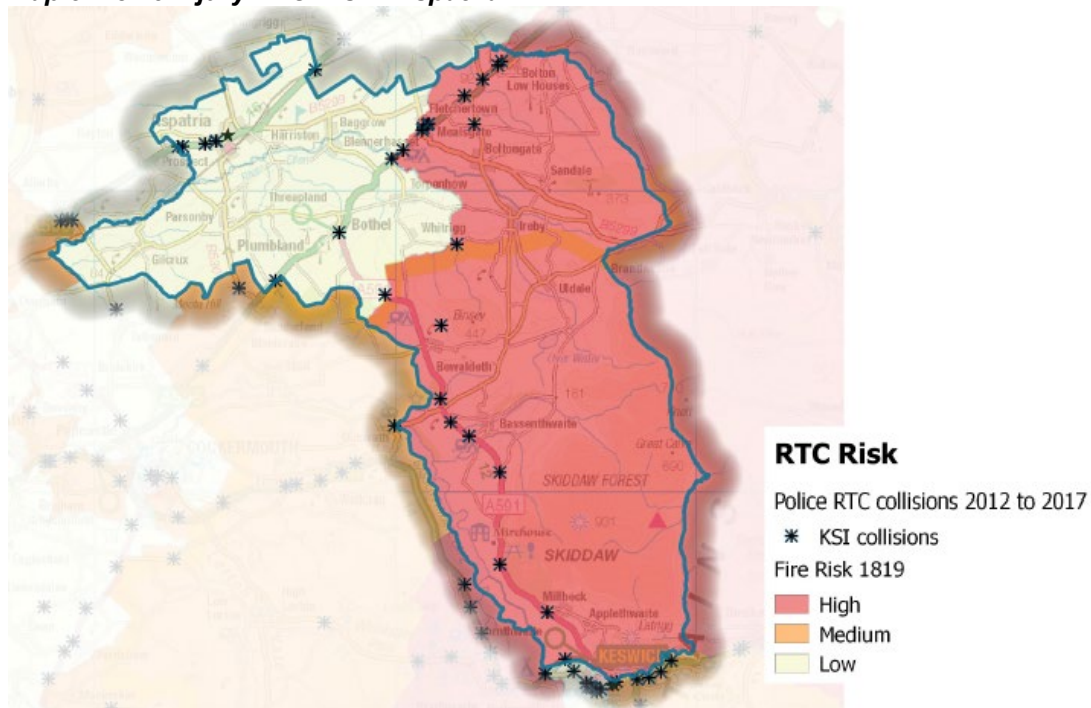
Table 3: 18/19 Injury RTC Risk – Aspatria

| Aspatria 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 | 100 | 1 | 100 | 1 | 300 | 3 | 200 | 2 | 100 | 1 |
| 24-100 | Med | 144 | 2 | 160 | 2 | 0 | 0 | 80 | 1 | 0 | 0 |
| <=24 | Low | 48 | 1 | 36 | 1 | 36 | 1 | 36 | 1 | 84 | 3 |
| TOTAL | | 292 | 4 | 296 | 4 | 336 | 4 | 316 | 321 | 184 | 4 |

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 – Aspatria



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 |
| Cumbria | 82 | 2,147 |

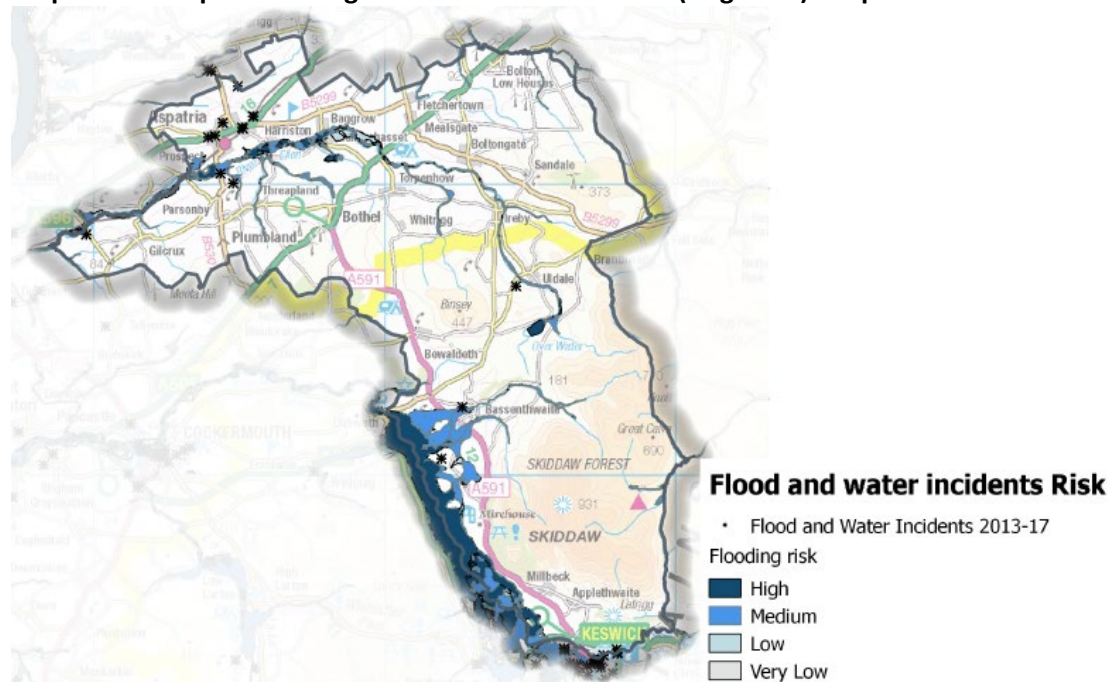
Datasource: CFRMIS

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) - Aspatria



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

Aspatria is a small town in West Cumbria situated approximately half way between the west coast and city of Carlisle, with a population of approximately 3,500 people. The main employer in the town is the Sealy bed manufacturer and First Milk & Cheese producing dairy products.

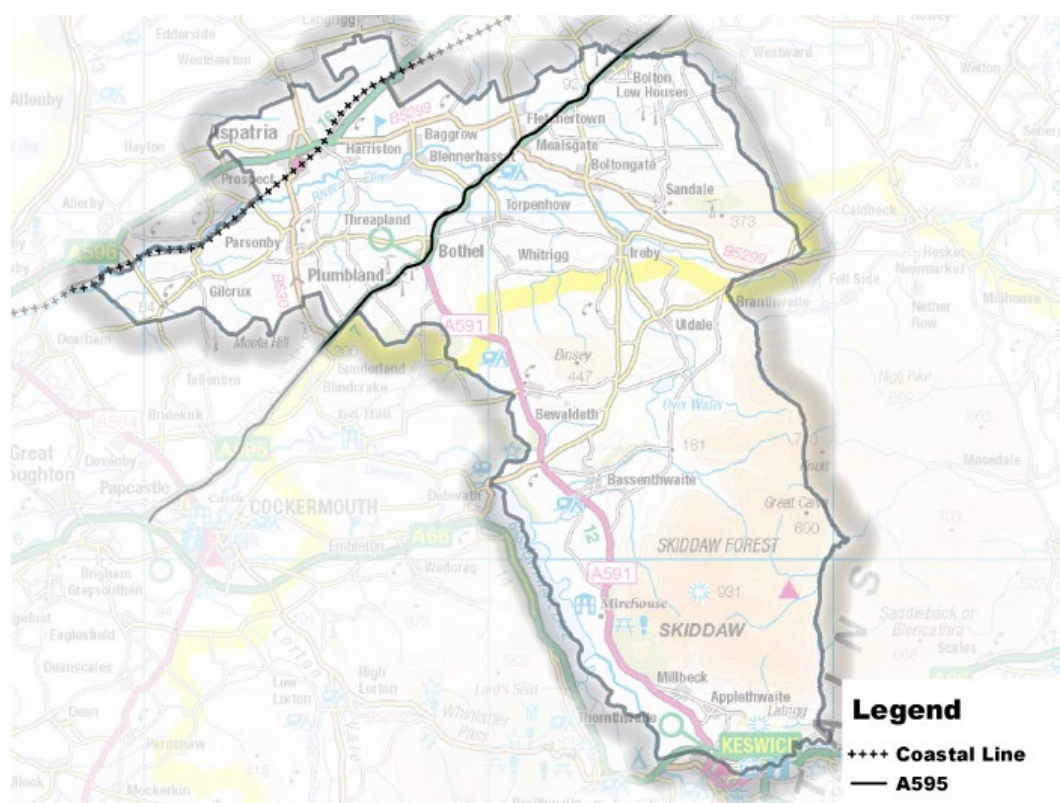
The main risks within the Station area are associated with the two busy trunk roads, the A596 which runs through the town, and the nearby A595. These roads are busy with both commuter and transport traffic, along with slow moving agricultural traffic. This all equates to a high risk for road traffic collisions in the area. Other risks are associated with the large number of agricultural premises. Open farmland brings the danger of barn fires, heath and moor land fires, as well as livestock rescues.

| Aspatria | Risk in station area |
|---------------------|---|
| Heritage | <p>Grade I listed:</p> <ul style="list-style-type: none"> • Harby Brow Tower, adjoining farmhouse and barn, Allhallows • Church of St Mungo, Bromfield • Hayton Castle, Hayton • Whitehall, Mealsgate <p>Grade II* listed:</p> <ul style="list-style-type: none"> • Church of St Kentigern, Aspatria • Church of St Mary, Gilcrux • Weary Hall, Mealsgate • Dovecote south of Church of St Cuthbert, Parsonby |
| Environment | <ul style="list-style-type: none"> • 2 Sites of Specific Scientific Interest |
| Site Specific Risks | <ul style="list-style-type: none"> • Sealy's, Aspatria • First Milk & Cheese, Aspatria |
| Rurality | <ul style="list-style-type: none"> • Of the LSOAs 2 are designated "Town and Fringe" according to DEFRA Urban/Rural classifications and 2 are "Village Hamlets" |

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 across the county. Those that are planned within the Aspatria Fire Station area are shown below.

Map 5: Future Projects and Developments within Aspatria Fire Station Area



Currently there are two key infrastructure projects within Aspatria Fire Station area:

- A595 Corridor Enhancements – improvements to the A595 to support economic growth across West Cumbria, leading to a projected increase in traffic within the station area
- Cumbrian Coastal Railway Enhancements – Improvements to the railway to increase capacity, usage and resilience of the line through the area.

Based on economic and housing projects across Cumbria, Allerdale district's population is expected to remain relatively stable with projections of growth between -1% and +4% by 2023, which would lead to primary fires dropping by 3 or increasing by 24. This would have no projected impact on fire casualty rates by 2023.