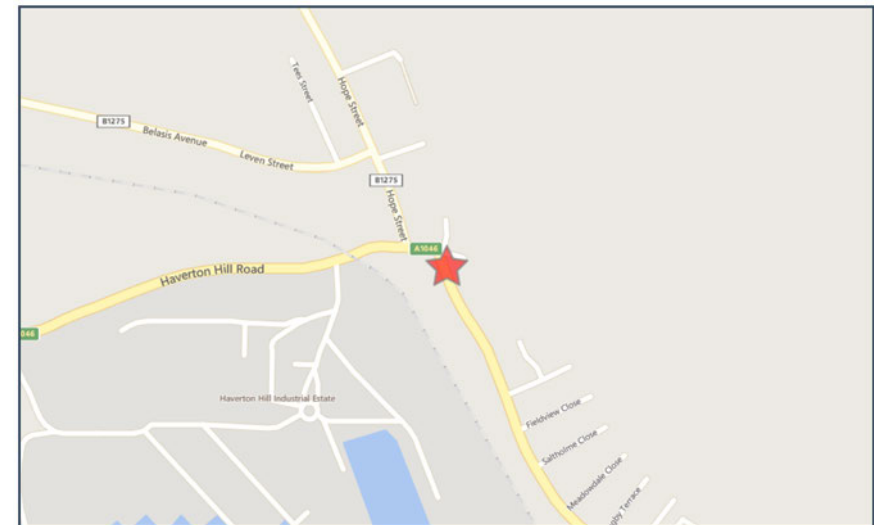




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|                                      |                                                  |                       |             |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|-------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Wednesday, November 04, 2015                     | <b>Time of Crash:</b> | 10:25:00 AM | <b>Crash Reference:</b>      | 2015170S22685 |
| <b>Highest Injury Severity:</b>      | Slight                                           | <b>Road Number:</b>   | A1046       | <b>Number of Casualties:</b> | 1             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |             | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees                                 |                       |             | <b>OS Grid Reference:</b>    | 448953 522597 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |             |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |             |                              |               |
| <b>Speed Limit:</b>                  | 30                                               |                       |             |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |             |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |             |                              |               |
| <b>Junction Detail:</b>              | Not at or within 20 metres of junction           |                       |             |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |             |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |             |                              |               |
| <b>Junction Control:</b>             | Not Applicable                                   |                       |             |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 2           | Car (excluding private hire) | -1          | Unknown       | Unknown         | Vehicle is passing another moving vehicle on its offside         | Nearside              | Other           | None                        | None                         |
| 1           | Pedal cycle                  | -1          | Female        | 36 - 45         | Vehicle proceeding normally along the carriageway, not on a bend | Offside               | Other           | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Female | 36 - 45  | Unknown or other    | Unknown or other    |

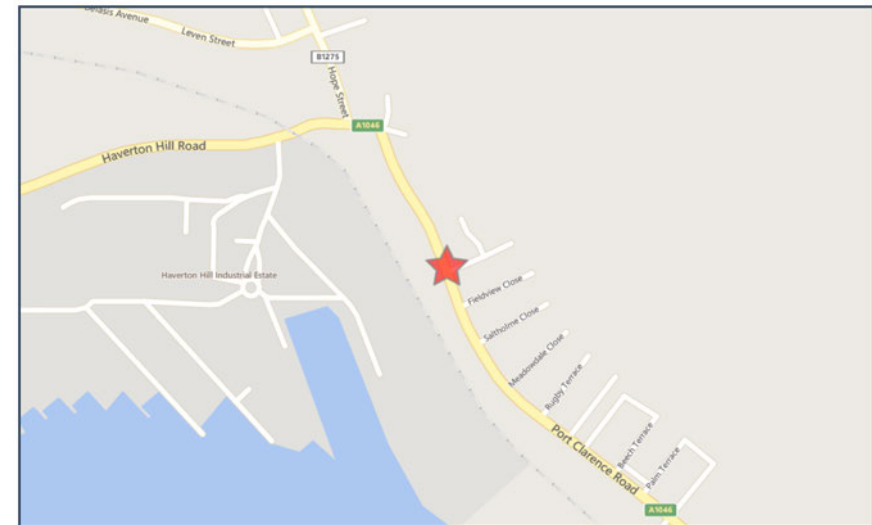
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|                                      |                                                |                       |            |                              |               |
|--------------------------------------|------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Sunday, March 22, 2015                         | <b>Time of Crash:</b> | 7:50:00 PM | <b>Crash Reference:</b>      | 2015170S20745 |
| <b>Highest Injury Severity:</b>      | Slight                                         | <b>Road Number:</b>   | A1046      | <b>Number of Casualties:</b> | 3             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                               |                       |            | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees                               |                       |            | <b>OS Grid Reference:</b>    | 449048 522404 |
| <b>Weather Description:</b>          | Fine without high winds                        |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                            |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 30                                             |                       |            |                              |               |
| <b>Light Conditions:</b>             | Darkness: street lights present and lit        |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                           |                       |            |                              |               |
| <b>Junction Detail:</b>              | T or staggered junction                        |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                             |                       |            |                              |               |
| <b>Junction Control:</b>             | Give way or uncontrolled                       |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose         | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------|------------------------------|
| 2           | Car (excluding private hire) | 12          | Male          | 26 - 35         | Vehicle is parked in the carriageway                             | Back                  | Other                   | None                        | None                         |
| 1           | Taxi/Private hire car        | 10          | Male          | 26 - 35         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Journey as part of work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class               | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|------------------------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider              | Male   | 26 - 35  | Unknown or other    | Unknown or other    |
| 2           | 2            | Slight          | Vehicle or pillion passenger | Female | 16 - 20  | Unknown or other    | Unknown or other    |
| 2           | 3            | Slight          | Vehicle or pillion passenger | Male   | 21 - 25  | Unknown or other    | Unknown or other    |

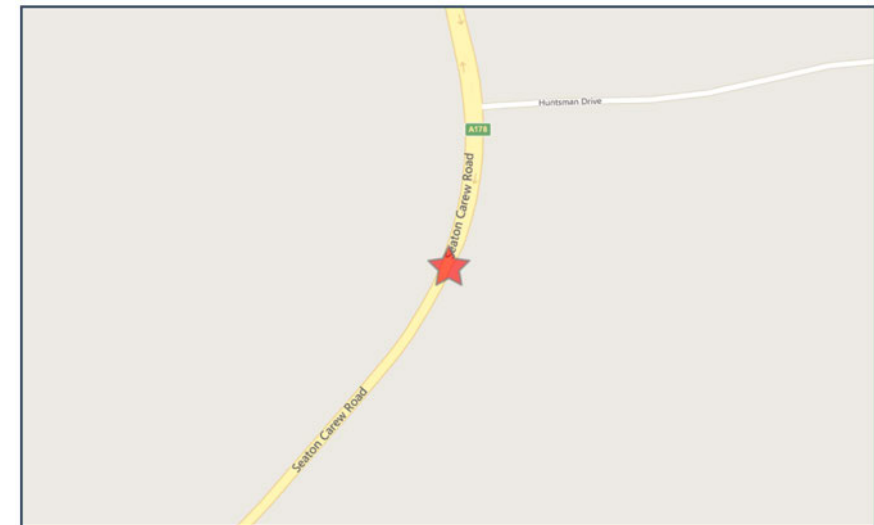
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|                                      |                                                  |                       |            |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Tuesday, June 30, 2015                           | <b>Time of Crash:</b> | 4:14:00 PM | <b>Crash Reference:</b>      | 2015170S21535 |
| <b>Highest Injury Severity:</b>      | Serious                                          | <b>Road Number:</b>   | A178       | <b>Number of Casualties:</b> | 1             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |            | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees                                 |                       |            | <b>OS Grid Reference:</b>    | 450806 522342 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 60                                               |                       |            |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |            |                              |               |
| <b>Junction Detail:</b>              | Not at or within 20 metres of junction           |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |            |                              |               |
| <b>Junction Control:</b>             | Not Applicable                                   |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                         | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                       | First Point of Impact | Journey Purpose        | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|--------------------------------------|-------------|---------------|-----------------|--------------------------------------------------------|-----------------------|------------------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire)         | 13          | Male          | 21 - 25         | Vehicle is performing a U turn                         | Offside               | Commuting to/from work | None                        | None                         |
| 2           | Motorcycle over 50cc and up to 125cc | 34          | Male          | 46 - 55         | Vehicle is passing a stationary vehicle on its offside | Front                 | Commuting to/from work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Serious         | Driver or rider | Male   | 46 - 55  | Unknown or other    | Unknown or other    |

For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

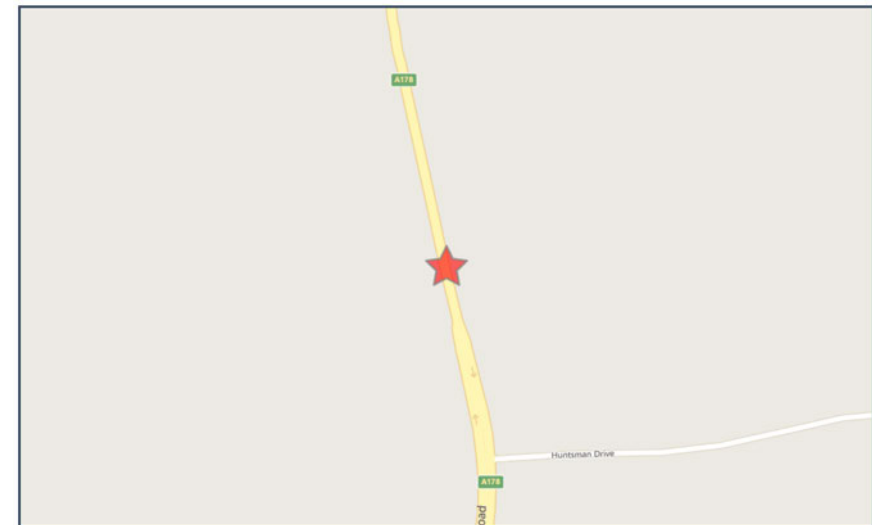
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|                                      |                                                  |                       |            |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Tuesday, March 22, 2016                          | <b>Time of Crash:</b> | 3:54:00 PM | <b>Crash Reference:</b>      | 2016170S20726 |
| <b>Highest Injury Severity:</b>      | Slight                                           | <b>Road Number:</b>   | A178       | <b>Number of Casualties:</b> | 1             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |            | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees Borough                         |                       |            | <b>OS Grid Reference:</b>    | 450776 522896 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 60                                               |                       |            |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |            |                              |               |
| <b>Junction Detail:</b>              | Not at or within 20 metres of junction           |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |            |                              |               |
| <b>Junction Control:</b>             | Not Applicable                                   |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                                           | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose         | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|--------------------------------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------|------------------------------|
| 2           | Pedal cycle                                            | -1          | Male          | 36 - 45         | Vehicle proceeding normally along the carriageway, not on a bend | Offside               | Commuting to/from work  | None                        | None                         |
| 1           | Goods vehicle over 3.5 tonnes and under 7.5 tonnes mgw | 2           | Male          | 26 - 35         | Vehicle is passing another moving vehicle on its offside         | Nearside              | Journey as part of work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider | Male   | 36 - 45  | Unknown or other    | Unknown or other    |

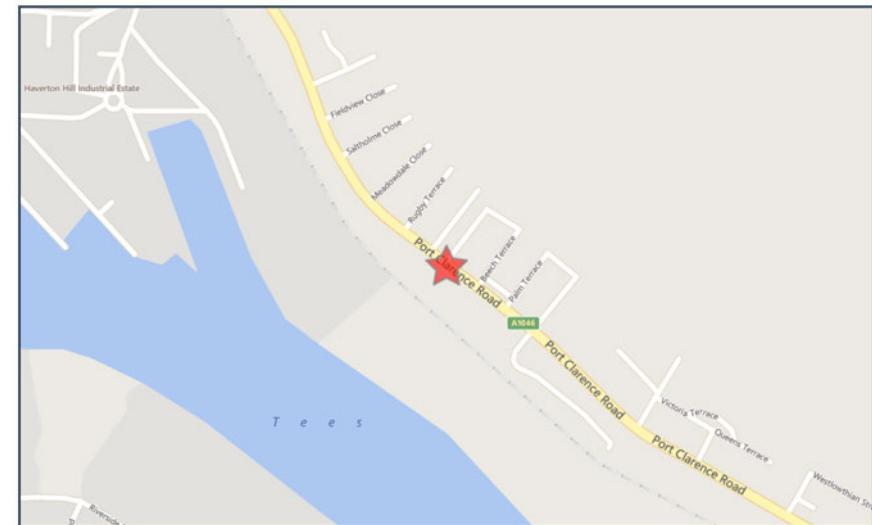
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|                                      |                                                  |                       |            |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Monday, August 08, 2016                          | <b>Time of Crash:</b> | 6:50:00 AM | <b>Crash Reference:</b>      | 2016170S21846 |
| <b>Highest Injury Severity:</b>      | Slight                                           | <b>Road Number:</b>   | A1046      | <b>Number of Casualties:</b> | 1             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |            | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees Borough                         |                       |            | <b>OS Grid Reference:</b>    | 449268 522116 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 30                                               |                       |            |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |            |                              |               |
| <b>Junction Detail:</b>              | T or staggered junction                          |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |            |                              |               |
| <b>Junction Control:</b>             | Give way or uncontrolled                         |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                          | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Manoeuvre                                                | First Point of Impact | Journey Purpose        | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|---------------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|------------------------|-----------------------------|------------------------------|
| 2           | Car (excluding private hire)          |             | 4 Male        | 21 - 25         | Vehicle is performing a U turn                                   | Offside               | Commuting to/from work | None                        | None                         |
| 1           | Motorcycle over 125cc and up to 500cc |             | 7 Male        | 46 - 55         | Vehicle proceeding normally along the carriageway, not on a bend | Nearside              | Commuting to/from work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Male   | 46 - 55  | Unknown or other    | Unknown or other    |

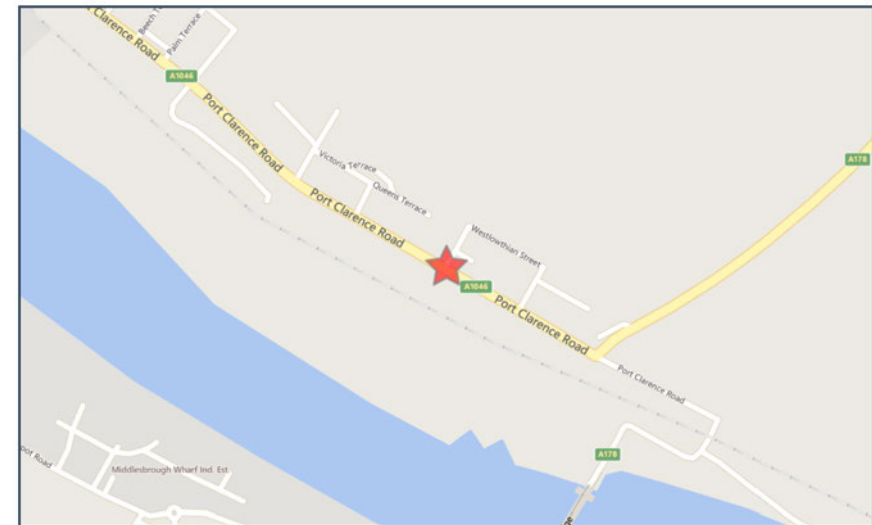
For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

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|                                      |                                                  |                       |            |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Monday, August 29, 2016                          | <b>Time of Crash:</b> | 4:35:00 PM | <b>Crash Reference:</b>      | 2016170S21966 |
| <b>Highest Injury Severity:</b>      | Slight                                           | <b>Road Number:</b>   | A1046      | <b>Number of Casualties:</b> | 3             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |            | <b>Number of Vehicles:</b>   | 2             |
| <b>Local Authority:</b>              | Stockton-on-Tees Borough                         |                       |            | <b>OS Grid Reference:</b>    | 449811 521723 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 30                                               |                       |            |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |            |                              |               |
| <b>Junction Detail:</b>              | T or staggered junction                          |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |            |                              |               |
| <b>Junction Control:</b>             | Give way or uncontrolled                         |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneouvre                                                | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 2           | Car (excluding private hire) | -1          | Female        | 26 - 35         | Vehicle proceeding normally along the carriageway, not on a bend | Offside               | Other           | None                        | None                         |
| 1           | Car (excluding private hire) | 5           | Male          | 26 - 35         | Vehicle is in the act of turning right                           | Front                 | Other           | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class               | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|------------------------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider              | Female | 26 - 35  | Unknown or other    | Unknown or other    |
| 2           | 2            | Slight          | Vehicle or pillion passenger | Male   | 36 - 45  | Unknown or other    | Unknown or other    |
| 2           | 3            | Slight          | Vehicle or pillion passenger | Male   | 0 - 5    | Unknown or other    | Unknown or other    |

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**Crash Date:** Thursday, December 15, 2016 **Time of Crash:** 1:45:00 PM **Crash Reference:** 2016170S22756

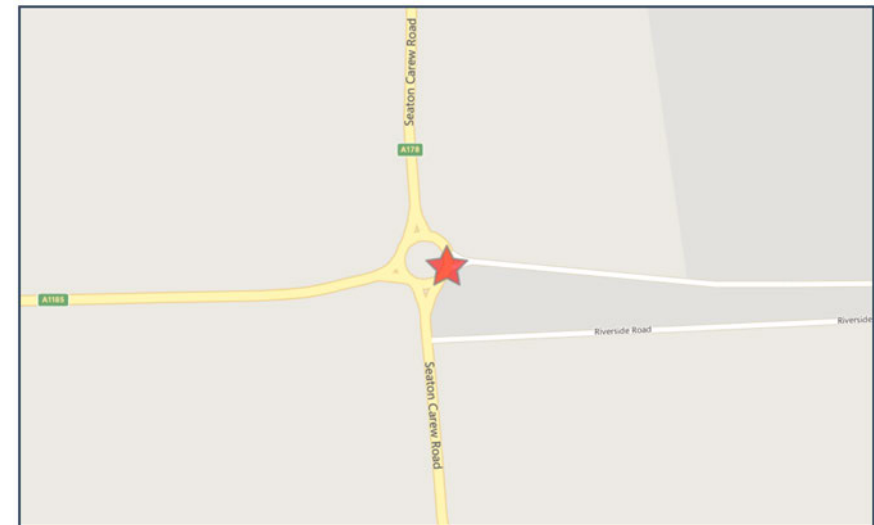
**Highest Injury Severity:** Fatal  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Wet or Damp  
**Speed Limit:** 60  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Roundabout  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Roundabout  
**Junction Control:** Give way or uncontrolled

**Road Number:** A178

**Number of Casualties:** 1

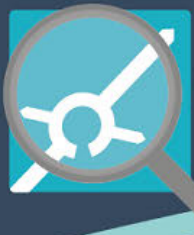
**Number of Vehicles:** 1

**OS Grid Reference:** 450689 523683



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose | Hit Object - On Carriageway  | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|------------------------------|------------------------------|
| 1           | Car (excluding private hire) | 3           | Male          | 66 - 75         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other           | Central island of roundabout | Road sign/Traffic signal     |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Fatal           | Driver or rider | Male   | 66 - 75  | Unknown or other    | Unknown or other    |

For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

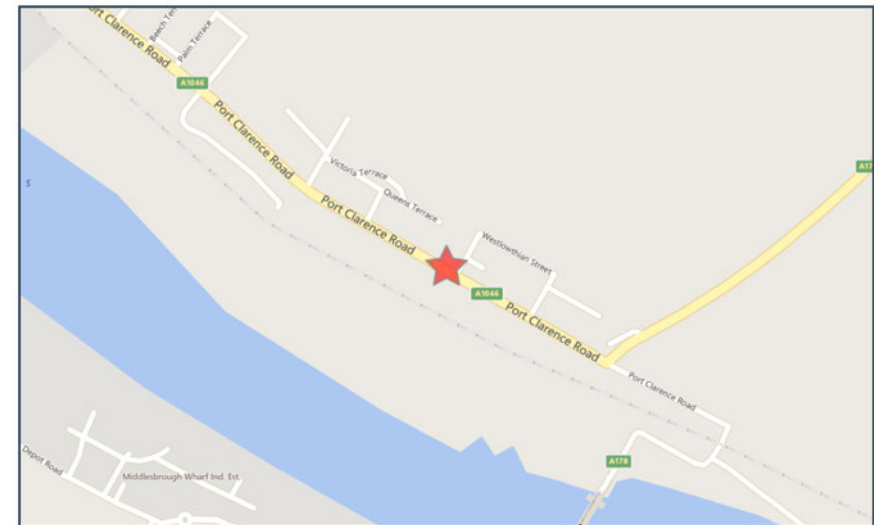
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# **2017 Reports**



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|                                      |                                                  |                       |            |                              |               |
|--------------------------------------|--------------------------------------------------|-----------------------|------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Friday, August 18, 2017                          | <b>Time of Crash:</b> | 7:46:00 AM | <b>Crash Reference:</b>      | 2017170S21557 |
| <b>Highest Injury Severity:</b>      | Slight                                           | <b>Road Number:</b>   | A1046      | <b>Number of Casualties:</b> | 1             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                                 |                       |            | <b>Number of Vehicles:</b>   | 3             |
| <b>Local Authority:</b>              | Stockton-on-Tees Borough                         |                       |            | <b>OS Grid Reference:</b>    | 449795 521734 |
| <b>Weather Description:</b>          | Fine without high winds                          |                       |            |                              |               |
| <b>Road Surface Description:</b>     | Dry                                              |                       |            |                              |               |
| <b>Speed Limit:</b>                  | 30                                               |                       |            |                              |               |
| <b>Light Conditions:</b>             | Daylight: regardless of presence of streetlights |                       |            |                              |               |
| <b>Carriageway Hazards:</b>          | None                                             |                       |            |                              |               |
| <b>Junction Detail:</b>              | Not at or within 20 metres of junction           |                       |            |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres   |                       |            |                              |               |
| <b>Road Type:</b>                    | Single carriageway                               |                       |            |                              |               |
| <b>Junction Control:</b>             | Not Applicable                                   |                       |            |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                                  | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose         | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|-----------------------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------|------------------------------|
| 3           | Van or goods vehicle 3.5 tonnes mgw and under | 6           | Male          | 46 - 55         | Vehicle is waiting to proceed normally but is held up            | Back                  | Journey as part of work | None                        | None                         |
| 1           | Car (excluding private hire)                  | 13          | Male          | 16 - 20         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Commuting to/from work  | None                        | None                         |
| 2           | Car (excluding private hire)                  | 3           | Male          | 36 - 45         | Vehicle is waiting to proceed normally but is held up            | Back                  | Commuting to/from work  | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Male   | 16 - 20  | Unknown or other    | Unknown or other    |

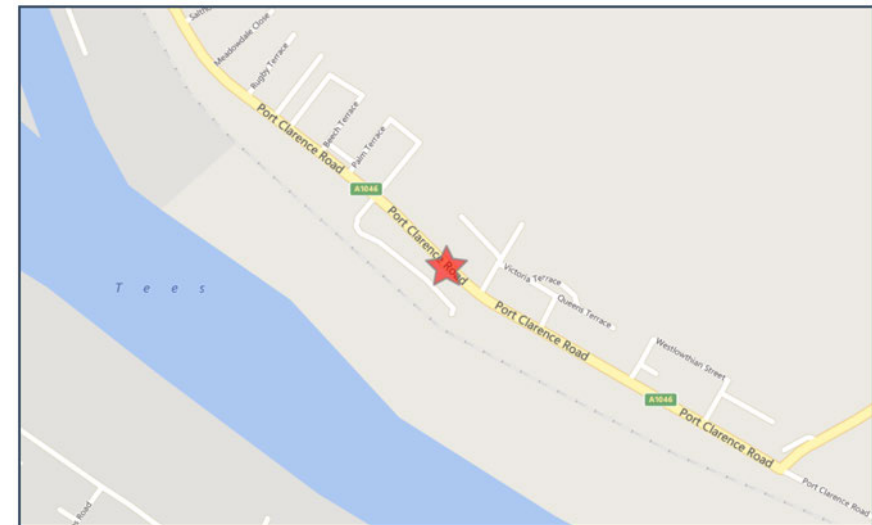
For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

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|                                      |                                                |                       |             |                              |               |
|--------------------------------------|------------------------------------------------|-----------------------|-------------|------------------------------|---------------|
| <b>Crash Date:</b>                   | Sunday, July 02, 2017                          | <b>Time of Crash:</b> | 10:39:00 PM | <b>Crash Reference:</b>      | 2017170S21197 |
| <b>Highest Injury Severity:</b>      | Serious                                        | <b>Road Number:</b>   | A1046       | <b>Number of Casualties:</b> | 2             |
| <b>Highway Authority:</b>            | Stockton-on-Tees                               |                       |             | <b>Number of Vehicles:</b>   | 1             |
| <b>Local Authority:</b>              | Stockton-on-Tees Borough                       |                       |             | <b>OS Grid Reference:</b>    | 449519 521906 |
| <b>Weather Description:</b>          | Fine without high winds                        |                       |             |                              |               |
| <b>Road Surface Description:</b>     | Dry                                            |                       |             |                              |               |
| <b>Speed Limit:</b>                  | 30                                             |                       |             |                              |               |
| <b>Light Conditions:</b>             | Darkness: street lights present and lit        |                       |             |                              |               |
| <b>Carriageway Hazards:</b>          | None                                           |                       |             |                              |               |
| <b>Junction Detail:</b>              | Not at or within 20 metres of junction         |                       |             |                              |               |
| <b>Junction Pedestrian Crossing:</b> | No physical crossing facility within 50 metres |                       |             |                              |               |
| <b>Road Type:</b>                    | Single carriageway                             |                       |             |                              |               |
| <b>Junction Control:</b>             | Not Applicable                                 |                       |             |                              |               |



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Manoeuvre                                                | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | 9           | Male          | 16 - 20         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other           | Bollard/Refuge              | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class               | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|------------------------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider              | Male   | 16 - 20  | Unknown or other    | Unknown or other    |
| 1           | 2            | Serious         | Vehicle or pillion passenger | Female | 16 - 20  | Unknown or other    | Unknown or other    |

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# **2018 Reports**



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**Crash Date:** Thursday, November 15, 2018 **Time of Crash:** 9:20:00 AM **Crash Reference:** 2018170S11668

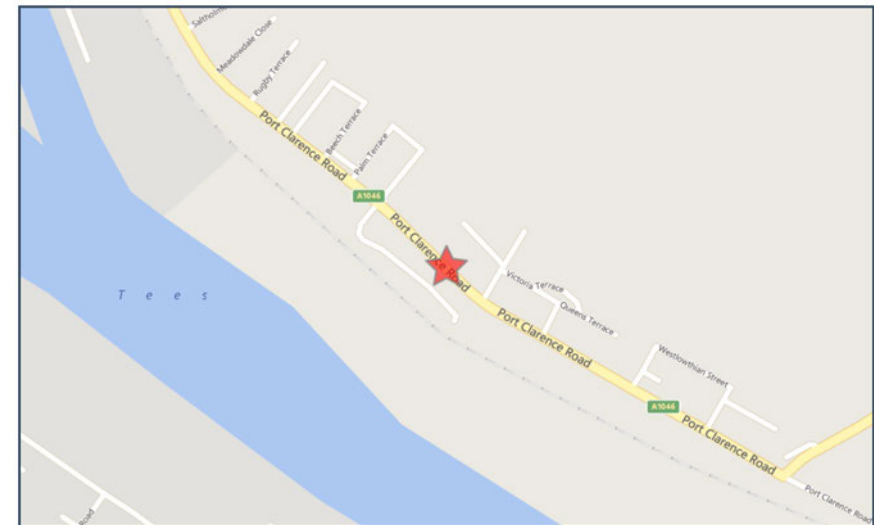
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Dry  
**Speed Limit:** 30  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Not at or within 20 metres of junction  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Single carriageway  
**Junction Control:** Not Applicable

**Road Number:** A1046

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 449514 521913



For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 2           | Car (excluding private hire) |             | 8 Female      | 46 - 55         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other           | None                        | None                         |
| 1           | Car (excluding private hire) |             | 3 Male        | 21 - 25         | Vehicle is parked in the carriageway                             | Back                  | Other           | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Male   | 21 - 25  | Unknown or other    | Unknown or other    |

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**Crash Date:** Thursday, November 29, 2018 **Time of Crash:** 7:23:00 PM **Crash Reference:** 2018170S21798

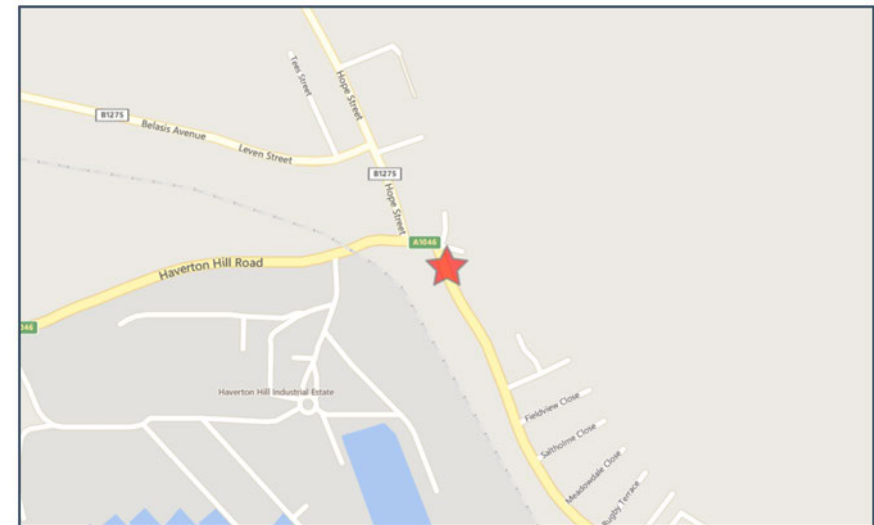
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Raining without high winds  
**Road Surface Description:** Wet or Damp  
**Speed Limit:** 30  
**Light Conditions:** Darkness: street lights present and lit  
**Carriageway Hazards:** None  
**Junction Detail:** Not at or within 20 metres of junction  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Single carriageway  
**Junction Control:** Not Applicable

**Road Number:** A1046

**Number of Casualties:** 1

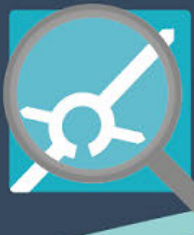
**Number of Vehicles:** 1

**OS Grid Reference:** 448957 522585



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## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Manoeuvre                                                       | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|-------------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | 9           | Female        | 26 - 35         | Vehicle proceeding normally along the carriageway, on a right hand bend | Front                 | Other           | None                        | Road sign/Traffic signal     |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class               | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|------------------------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Vehicle or pillion passenger | Female | 6 - 10   | Unknown or other    | Unknown or other    |

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# **2019 Reports**



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No

**Crash Date:** Wednesday, March 13, 2019 **Time of Crash:** 7:23:00 AM **Crash Reference:** 2019170S20509

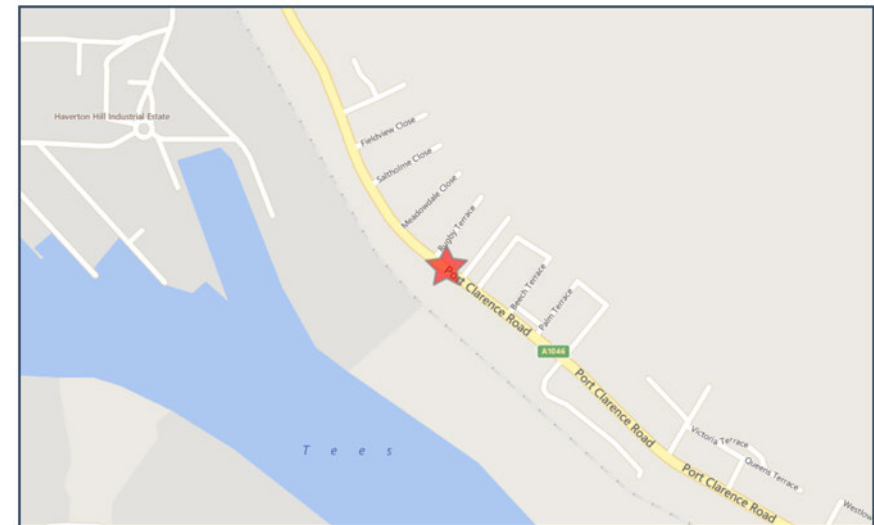
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Dry  
**Speed Limit:** 30  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Not at or within 20 metres of junction  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Single carriageway  
**Junction Control:** Not Applicable

**Road Number:** A1046

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 449221 522151



For more information about the data please visit: [www.crashmap.co.uk/home/Faq](http://www.crashmap.co.uk/home/Faq)

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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                                  | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose         | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|-----------------------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-------------------------|-----------------------------|------------------------------|
| 1           | Van or goods vehicle 3.5 tonnes mgw and under | 16          | Male          | 26 - 35         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Journey as part of work | None                        | None                         |
| 2           | Car (excluding private hire)                  | 3           | Male          | 46 - 55         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other                   | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider | Male   | 46 - 55  | Unknown or other    | Unknown or other    |

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No

**Crash Date:** Thursday, March 21, 2019

**Time of Crash:** 11:20:00 AM

**Crash Reference:** 2019170S20529

**Highest Injury Severity:** Serious

**Road Number:** A1046

**Number of Casualties:** 2

**Highway Authority:** Stockton-on-Tees

**Number of Vehicles:** 2

**Local Authority:** Stockton-on-Tees Borough

**OS Grid Reference:** 449320 522079

**Weather Description:** Fine without high winds

**Road Surface Description:** Dry

**Speed Limit:** 30

**Light Conditions:** Daylight: regardless of presence of streetlights

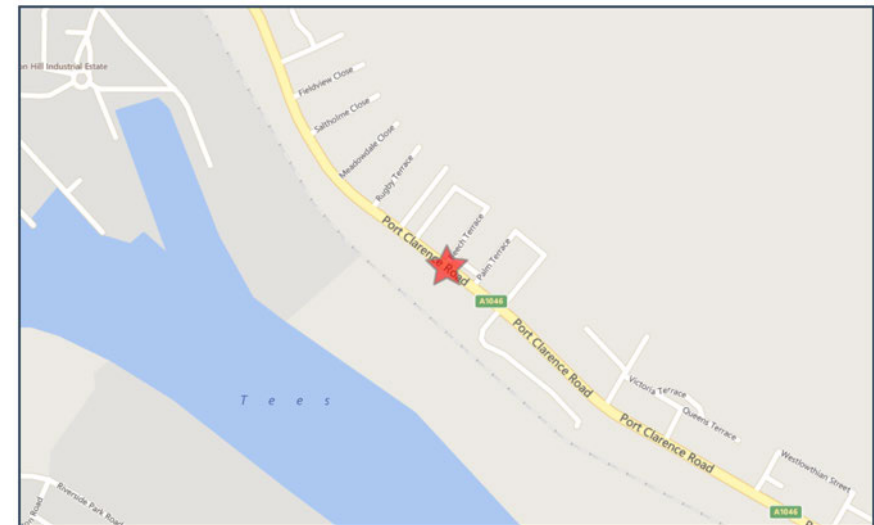
**Carriageway Hazards:** None

**Junction Detail:** T or staggered junction

**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres

**Road Type:** Single carriageway

**Junction Control:** Give way or uncontrolled



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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | -1          | Male          | 36 - 45         | Vehicle is in the act of turning right                           | Front                 | Other           | None                        | None                         |
| 2           | Car (excluding private hire) | 13          | Male          | 21 - 25         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other           | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Male   | 36 - 45  | Unknown or other    | Unknown or other    |
| 2           | 2            | Serious         | Driver or rider | Male   | 21 - 25  | Unknown or other    | Unknown or other    |

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No

**Crash Date:** Wednesday, April 03, 2019 **Time of Crash:** 9:29:00 AM **Crash Reference:** 2019170S20729

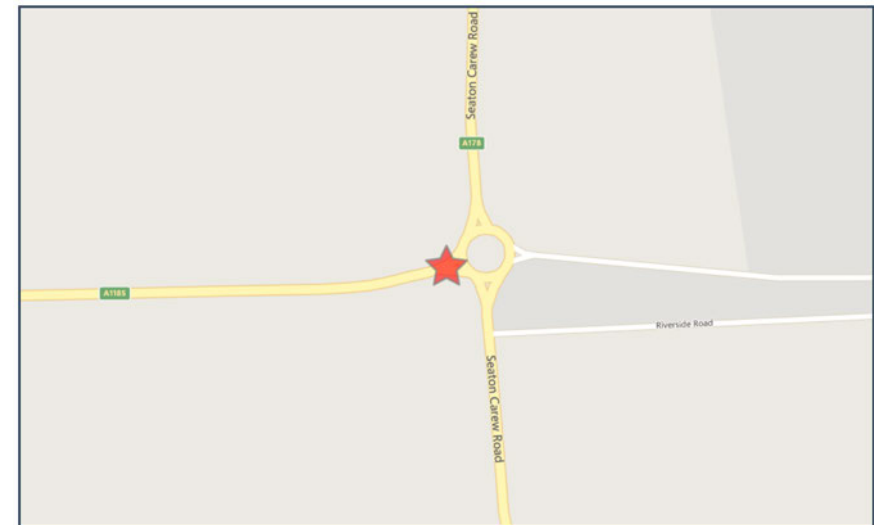
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Dry  
**Speed Limit:** 40  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Roundabout  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Single carriageway  
**Junction Control:** Give way or uncontrolled

**Road Number:** A1185

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 450592 523675



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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose        | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|------------------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | -1          | Male          | 26 - 35         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Commuting to/from work | None                        | None                         |
| 2           | Car (excluding private hire) | 1           | Male          | 46 - 55         | Vehicle is slowing down or stopping                              | Back                  | Commuting to/from work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider | Male   | 46 - 55  | Unknown or other    | Unknown or other    |

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No

**Crash Date:** Friday, June 14, 2019 **Time of Crash:** 6:50:00 PM **Crash Reference:** 2019170S21119

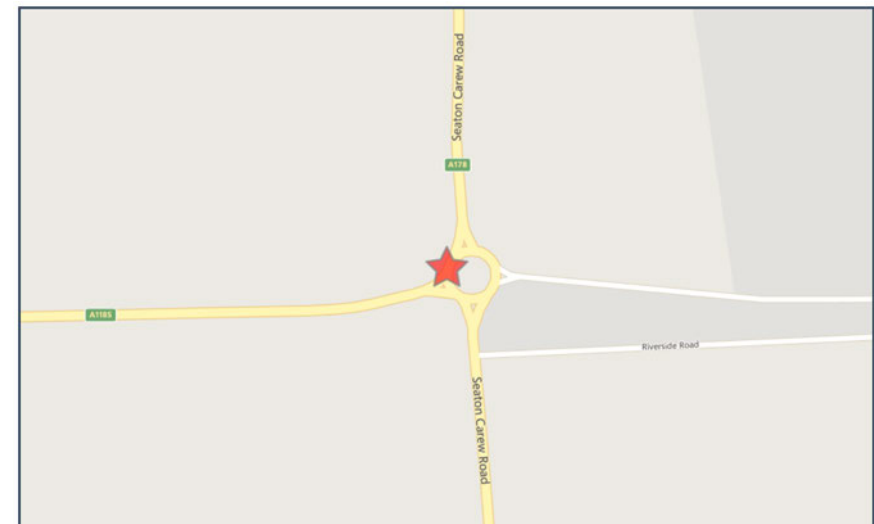
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Wet or Damp  
**Speed Limit:** 60  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Roundabout  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Roundabout  
**Junction Control:** Give way or uncontrolled

**Road Number:** A1185

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 450614 523709



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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Manoeuvre                     | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|---------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | -1          | Male          | 46 - 55         | Vehicle is in the act of turning left | Nearside              | Other           | None                        | None                         |
| 2           | Pedal cycle                  | -1          | Female        | 11 - 15         | Vehicle is in the act of turning left | Offside               | Other           | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider | Female | 11 - 15  | Unknown or other    | Unknown or other    |

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No

**Crash Date:** Thursday, July 25, 2019 **Time of Crash:** 6:15:00 AM **Crash Reference:** 2019170S21499

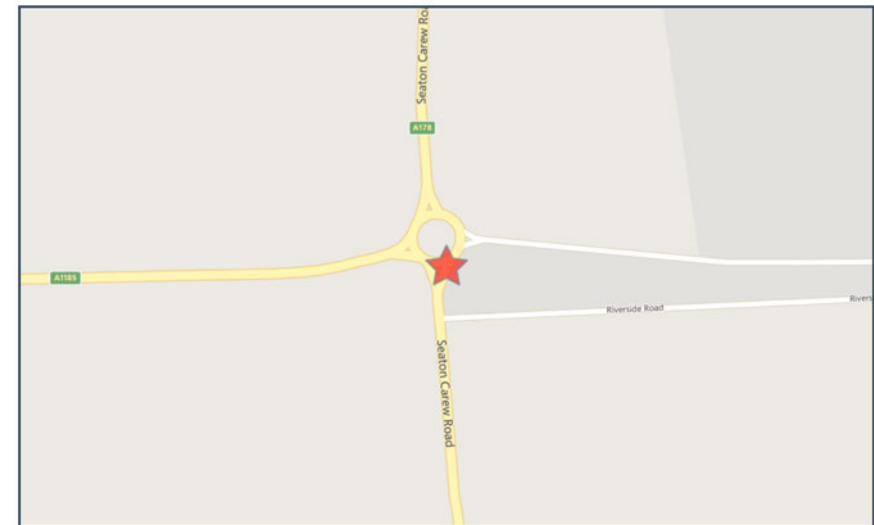
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Dry  
**Speed Limit:** 60  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Roundabout  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Roundabout  
**Junction Control:** Give way or uncontrolled

**Road Number:** A178

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 450670 523651



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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Manoeuvre                                                | First Point of Impact | Journey Purpose        | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|------------------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | 11          | Female        | 46 - 55         | Vehicle is passing another moving vehicle on its offside         | Nearside              | Commuting to/from work | None                        | None                         |
| 2           | Pedal cycle                  | -1          | Male          | 36 - 45         | Vehicle proceeding normally along the carriageway, not on a bend | Offside               | Commuting to/from work | None                        | None                         |

## Casualties

| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 2           | 1            | Slight          | Driver or rider | Male   | 36 - 45  | Unknown or other    | Unknown or other    |

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No

**Crash Date:** Friday, September 20, 2019 **Time of Crash:** 9:09:00 AM **Crash Reference:** 2019170S21759

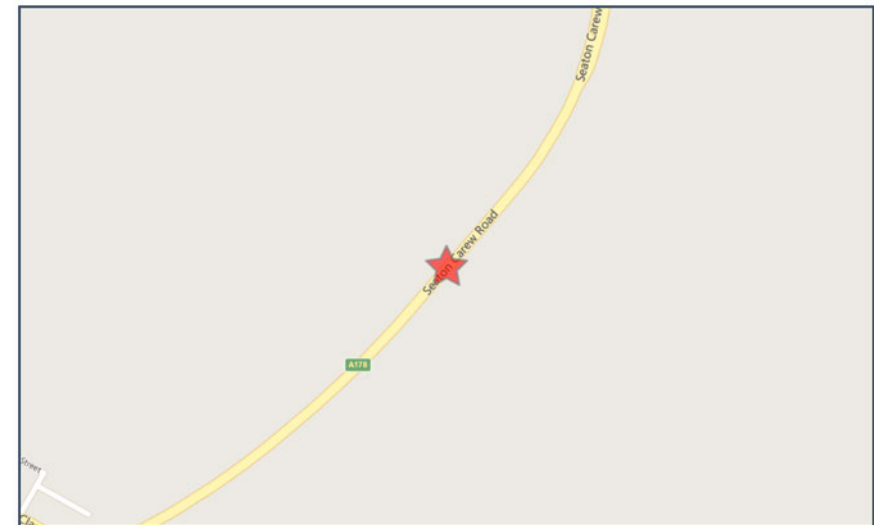
**Highest Injury Severity:** Slight  
**Highway Authority:** Stockton-on-Tees  
**Local Authority:** Stockton-on-Tees Borough  
**Weather Description:** Fine without high winds  
**Road Surface Description:** Dry  
**Speed Limit:** 60  
**Light Conditions:** Daylight: regardless of presence of streetlights  
**Carriageway Hazards:** None  
**Junction Detail:** Not at or within 20 metres of junction  
**Junction Pedestrian Crossing:** No physical crossing facility within 50 metres  
**Road Type:** Single carriageway  
**Junction Control:** Not Applicable

**Road Number:** A178

**Number of Casualties:** 1

**Number of Vehicles:** 2

**OS Grid Reference:** 450599 522053



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No

## Vehicles involved

| Vehicle Ref | Vehicle Type                 | Vehicle Age | Driver Gender | Driver Age Band | Vehicle Maneuvre                                                 | First Point of Impact | Journey Purpose | Hit Object - On Carriageway | Hit Object - Off Carriageway |
|-------------|------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------|-----------------------|-----------------|-----------------------------|------------------------------|
| 1           | Car (excluding private hire) | 11          | Female        | 16 - 20         | Vehicle proceeding normally along the carriageway, not on a bend | Nearside              | Other           | Kerb                        | None                         |
| 2           | Car (excluding private hire) | 1           | Male          | 66 - 75         | Vehicle proceeding normally along the carriageway, not on a bend | Front                 | Other           | None                        | None                         |

## Casualties

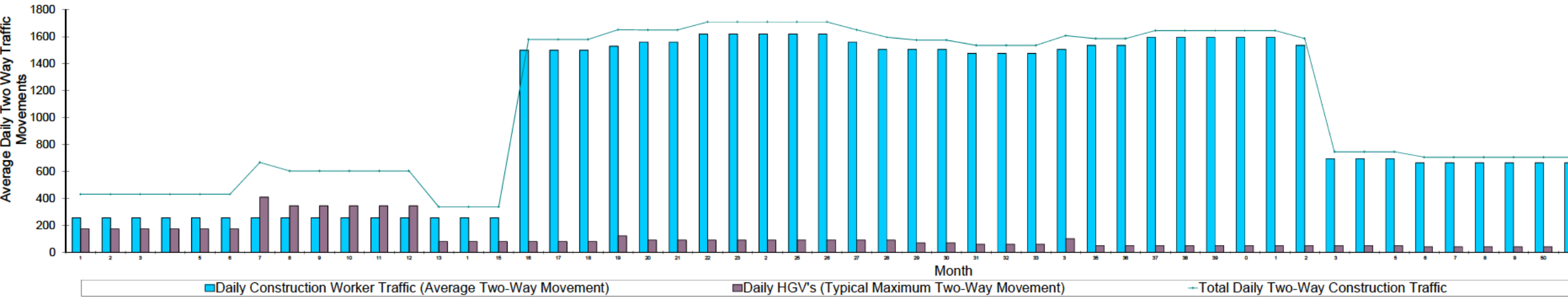
| Vehicle Ref | Casualty Ref | Injury Severity | Casualty Class  | Gender | Age Band | Pedestrian Location | Pedestrian Movement |
|-------------|--------------|-----------------|-----------------|--------|----------|---------------------|---------------------|
| 1           | 1            | Slight          | Driver or rider | Female | 16 - 20  | Unknown or other    | Unknown or other    |

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# Annex 16A.3: Profile of Construction Work Traffic

|                                                                                  | Month of Construction |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|----------------------------------------------------------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| Description                                                                      | 1                     | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32   | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   | 51   |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Site Remediation                                                                 |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Site Establishment                                                               |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Tees Crossing / Near Shore Crossing                                              |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Power Plant and Capture Construction                                             |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Gas Pipeline                                                                     |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| CO2 Gathering Pipeline                                                           |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|                                                                                  |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Commisioning                                                                     |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
| Typical Daily CCGT Construction Workforce in Month                               | 300                   | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 | 1722 |     |     |
| Typical Daily Construction Worker Private Car (Inbound)(Based on 2 per vehicle)  | 120                   | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689 |     |
| Typical Daily Construction Worker Private Car (Outbound)(Based on 2 per vehicle) | 120                   | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689  | 689 |     |
| Typical Daily Construction Worker Minibus (Inbound) (Based on 7.0 per vehicle)   | 9                     | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   |     |     |
| Typical Daily Construction Worker Minibus (Outbound) (Based on 7.0 per vehicle)  | 9                     | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49   | 49  |     |
| Typical Maximum Daily HGV Traffic in Month (Inbound)                             | 87                    | 87  | 87  | 87  | 87  | 87  | 173 | 173 | 173 | 173 | 173 | 173 | 40  | 40  | 40  | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |     |     |
| Typical Maximum Daily HGV Traffic in Month (Outbound)                            | 87                    | 87  | 87  | 87  | 87  | 87  | 173 | 173 | 173 | 173 | 173 | 173 | 40  | 40  | 40  | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40  |     |
| Typical Daily Pipeline Workforce in Month                                        |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      | 30   | 60   | 60   | 120  | 120  | 120  | 120  | 120  | 60   | 30   | 30   | 30   |      |      |      | 30   | 60   | 60   | 120  | 120  | 120  | 120  | 120  | 60   | 30   | 30   | 30   |      |      |      |      |      |      |     |     |
| Typical Daily Pipeline Traffic (Inbound) (Based on 2.0 per vehicle)              |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      | 15   | 30   | 30   | 60   | 60   | 60   | 60   | 60   | 30   | 15   | 15   | 15   |      |      |      | 15   | 30   | 30   | 60   | 60   | 60   | 60   | 60   | 30   | 15   | 15   | 15   |      |      |      |      |      |      |     |     |
| Typical Daily Pipeline Traffic (Outbound) (Based on 2.0 per vehicle)             |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      | 15   | 30   | 30   | 60   | 60   | 60   | 60   | 60   | 30   | 15   | 15   | 15   |      |      |      | 15   | 30   | 30   | 60   | 60   | 60   | 60   | 60   | 30   | 15   | 15   | 15   |      |      |      |      |      |      |     |     |
| Typical Daily Pipeline HGV Traffic (Inbound)                                     |                       |     |     |     |     |     | 32  |     |     |     |     |     |     |     |     |      |      |      | 21   | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      | 21   | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      |      |      |     |     |
| Typical Daily Pipeline HGV Traffic (Outbound)                                    |                       |     |     |     |     |     | 32  |     |     |     |     |     |     |     |     |      |      |      | 21   | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      | 21   | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      |      |      |     |     |
| Daily Construction Worker Traffic (Average Two-Way Movement)                     | 257                   | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 1476 | 666  | 666  | 666  | 666  | 666  | 666  | 666  | 666  | 666  | 666  |     |     |
| Daily HGV's (Typical Maximum Two-Way Movement)                                   | 174                   | 174 | 174 | 174 | 174 | 174 | 346 | 346 | 346 | 346 | 346 | 346 | 80  | 80  | 80  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40  |     |
| Total Daily Two-Way Construction Traffic                                         | 431                   | 431 | 431 | 431 | 431 | 431 | 603 | 603 | 603 | 603 | 603 | 603 | 337 | 337 | 337 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1580 | 1556 | 1536 | 1536 | 1536 | 1536 | 1536 | 1536 | 1516 | 1516 | 1516 | 1516 | 1516 | 1516 | 1516 | 1516 | 1516 | 706  | 706  | 706  | 706  | 706  | 706  | 706  | 706  | 706 | 706 |
| Daily Pipeline Worker Traffic (Average Two-Way Movement)                         |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      | 30   | 60   | 60   | 120  | 120  | 120  | 120  | 120  | 60   | 30   | 30   | 30   |      |      |      | 30   | 60   | 60   | 120  | 120  | 120  | 120  | 120  | 60   | 30   | 30   | 30   |      |      |      |      |      |      |     |     |
| Daily Pipeline HGV's (Typical Maximum Two-Way Movement)                          |                       |     |     |     |     |     | 64  |     |     |     |     |     |     |     |     |      |      |      | 42   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |      |      | 42   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |      |      |      |      |     |     |
| Total Daily Two-Way Pipeline Traffic                                             |                       |     |     |     |     |     | 64  |     |     |     |     |     |     |     |     |      |      |      | 72   | 70   | 70   | 130  | 130  | 130  | 130  | 130  | 70   | 40   | 40   | 40   |      |      |      | 72   | 70   | 70   | 130  | 130  | 130  | 130  | 130  | 70   | 40   | 40   | 40   |      |      |      |      |      |      |     |     |
| Daily Total Construction Worker Traffic (2-way movement)                         | 257                   | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 1500 | 1500 | 1500 | 1530 | 1560 | 1560 | 1620 | 1620 | 1620 | 1620 | 1620 | 1560 | 1506 | 1506 | 1506 | 1476 | 1476 | 1476 | 1506 | 1536 | 1536 | 1596 | 1596 | 1596 | 1596 | 1596 | 1536 | 696  | 696  | 696  | 666  | 666  | 666  | 666  | 666  | 666  |     |     |
| Daily Total HGV's (Typical Maximum Two-Way Movement)                             | 174                   | 174 | 174 | 174 | 174 | 174 | 410 | 346 | 346 | 346 | 346 | 346 | 80  | 80  | 80  | 80   | 80   | 80   | 122  | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 70   | 70   | 60   | 60   | 60   | 102  | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |     |     |
| Total Daily Two-Way Construction Traffic                                         | 431                   | 431 | 431 | 431 | 431 | 431 | 667 | 603 | 603 | 603 | 603 | 603 | 337 | 337 | 337 | 1580 | 1580 | 1580 | 1652 | 1650 | 1650 | 1710 | 1710 | 1710 | 1710 | 1710 | 1650 | 1596 | 1576 | 1576 | 1536 | 1536 | 1536 | 1608 | 1586 | 1586 | 1646 | 1646 | 1646 | 1646 | 1646 | 1646 | 1586 | 746  | 746  | 746  | 706  | 706  | 706  | 706  | 706  | 706 |     |



# Annex 16A.4: Visit Britain Accommodation Stock Audit 2016

Table 3: Total Bedspace Stock in English Counties by Accommodation type

<https://www.visitbritain.org/accommodation-stock>

| County & Districts             | Total Serviced and Non-serviced establishments | Serviced Accommodation            | Non serviced Accommodation ("Collective Accommodation Establishments") |                   |                   |                                |
|--------------------------------|------------------------------------------------|-----------------------------------|------------------------------------------------------------------------|-------------------|-------------------|--------------------------------|
|                                |                                                | Hotels and similar establishments | Total Non serviced                                                     | Holiday dwellings | Tourist campsites | Other collective accommodation |
| Durham                         | 24168                                          | 18561                             | 5607                                                                   | 1225              | 2569              | 1813                           |
| County Durham (U)              | 15985                                          | 11360                             | 4625                                                                   | 1101              | 2261              | 1263                           |
| Hartlepool (U)                 | 951                                            | 946                               | 5                                                                      | 5                 | 0                 | 0                              |
| Darlington (U)                 | 1106                                           | 946                               | 160                                                                    | 76                | 54                | 30                             |
| Stockton on Tees (U)           | 3528                                           | 2711                              | 817                                                                    | 43                | 254               | 520                            |
| Redcar & Cleveland (U)         | 1703                                           | 1484                              | 219                                                                    | 153               | 66                | 0                              |
| Middlesbrough (U)              | 3384                                           | 2870                              | 514                                                                    | 41                | 0                 | 473                            |
| Northamptonshire               | 28766                                          | 17491                             | 11275                                                                  | 344               | 8961              | 1970                           |
| South Northamptonshire         | 10795                                          | 2609                              | 8186                                                                   | 86                | 8100              | 0                              |
| Northampton                    | 7347                                           | 5407                              | 1940                                                                   | 0                 | 0                 | 1940                           |
| Daventry                       | 4321                                           | 4129                              | 192                                                                    | 120               | 48                | 24                             |
| Wellingborough                 | 1262                                           | 1044                              | 218                                                                    | 8                 | 210               | 0                              |
| Kettering                      | 2720                                           | 2357                              | 363                                                                    | 9                 | 354               | 0                              |
| Corby                          | 1257                                           | 1249                              | 8                                                                      | 8                 | 0                 | 0                              |
| East Northamptonshire          | 1064                                           | 696                               | 368                                                                    | 113               | 249               | 6                              |
| Northumberland (U)             | 29103                                          | 9880                              | 19223                                                                  | 5591              | 12510             | 1122                           |
| Nottinghamshire                | 27493                                          | 19759                             | 7734                                                                   | 1125              | 2134              | 4475                           |
| Rushcliffe                     | 1696                                           | 1350                              | 346                                                                    | 81                | 265               | 0                              |
| Broxtowe                       | 1467                                           | 1395                              | 72                                                                     | 13                | 0                 | 59                             |
| Ashfield                       | 789                                            | 765                               | 24                                                                     | 22                | 2                 | 0                              |
| Gedling                        | 1118                                           | 373                               | 745                                                                    | 40                | 705               | 0                              |
| Newark & Sherwood              | 2603                                           | 1749                              | 854                                                                    | 229               | 259               | 366                            |
| Mansfield                      | 753                                            | 618                               | 135                                                                    | 0                 | 135               | 0                              |
| Bassetlaw                      | 2622                                           | 1738                              | 884                                                                    | 108               | 764               | 12                             |
| Nottingham (U)                 | 16445                                          | 11771                             | 4674                                                                   | 632               | 4                 | 4038                           |
| Oxfordshire                    | 49245                                          | 22981                             | 26264                                                                  | 1604              | 21617             | 3043                           |
| Oxford                         | 11195                                          | 7542                              | 3653                                                                   | 91                | 815               | 2747                           |
| Cherwell                       | 21485                                          | 4021                              | 17464                                                                  | 172               | 17228             | 64                             |
| South Oxfordshire              | 4453                                           | 3466                              | 987                                                                    | 215               | 744               | 28                             |
| Vale of White Horse            | 3191                                           | 2664                              | 527                                                                    | 144               | 360               | 23                             |
| West Oxfordshire               | 8922                                           | 5289                              | 3633                                                                   | 982               | 2470              | 181                            |
| Shropshire (U)                 | 21813                                          | 10709                             | 11104                                                                  | 1914              | 8136              | 1054                           |
| Telford & Wrekin (U)           | 5482                                           | 4253                              | 1229                                                                   | 237               | 604               | 388                            |
| Somerset                       | 105552                                         | 30660                             | 74892                                                                  | 22199             | 49566             | 3127                           |
| South Somerset                 | 5840                                           | 3737                              | 2103                                                                   | 904               | 1156              | 43                             |
| Taunton Deane                  | 5537                                           | 3756                              | 1781                                                                   | 805               | 976               | 0                              |
| West Somerset                  | 16434                                          | 2999                              | 13435                                                                  | 8629              | 4488              | 318                            |
| Sedgemoor                      | 29565                                          | 2687                              | 26878                                                                  | 5850              | 20779             | 249                            |
| Mendip                         | 25673                                          | 4335                              | 21338                                                                  | 1493              | 18733             | 1112                           |
| Bath & North East Somerset (U) | 11912                                          | 7720                              | 4192                                                                   | 1428              | 1359              | 1405                           |
| North Somerset (U)             | 10591                                          | 5426                              | 5165                                                                   | 3090              | 2075              | 0                              |
| South Yorkshire                | 26438                                          | 22650                             | 3788                                                                   | 1498              | 1765              | 525                            |
| Sheffield                      | 12790                                          | 11251                             | 1539                                                                   | 1337              | 160               | 42                             |
| Rotherham                      | 3413                                           | 3177                              | 236                                                                    | 6                 | 230               | 0                              |
| Doncaster                      | 6888                                           | 5514                              | 1374                                                                   | 82                | 810               | 482                            |
| Barnsley                       | 3347                                           | 2708                              | 639                                                                    | 73                | 565               | 1                              |
| Staffordshire                  | 22810                                          | 19112                             | 3698                                                                   | 1305              | 2019              | 374                            |
| Tamworth                       | 1617                                           | 1595                              | 22                                                                     | 2                 | 20                | 0                              |
| Lichfield                      | 1790                                           | 1748                              | 42                                                                     | 40                | 0                 | 2                              |
| Cannock Chase                  | 990                                            | 910                               | 80                                                                     | 0                 | 80                | 0                              |
| South Staffordshire            | 1873                                           | 1697                              | 176                                                                    | 6                 | 133               | 37                             |
| Stafford                       | 3283                                           | 3234                              | 49                                                                     | 49                | 0                 | 0                              |
| Newcastle under Lyme           | 1862                                           | 1812                              | 50                                                                     | 50                | 0                 | 0                              |
| Staffordshire Moorlands        | 5385                                           | 2531                              | 2854                                                                   | 913               | 1634              | 307                            |
| East Staffordshire             | 3627                                           | 3240                              | 387                                                                    | 235               | 152               | 0                              |
| Stoke on Trent (U)             | 2384                                           | 2346                              | 38                                                                     | 10                | 0                 | 28                             |
| Suffolk                        | 20620                                          | 12233                             | 8387                                                                   | 5302              | 2889              | 96                             |
| Ipswich                        | 1905                                           | 1884                              | 21                                                                     | 21                | 0                 | 0                              |
| Suffolk Coastal                | 6066                                           | 2464                              | 3602                                                                   | 2021              | 1518              | 63                             |
| Waveney                        | 4939                                           | 1704                              | 3235                                                                   | 2241              | 994               | 0                              |
| Mid Suffolk                    | 1802                                           | 1201                              | 601                                                                    | 450               | 138               | 13                             |
| Babergh                        | 2336                                           | 1871                              | 465                                                                    | 360               | 85                | 20                             |
| St Edmundsbury                 | 1913                                           | 1682                              | 231                                                                    | 167               | 64                | 0                              |
| Forest Heath                   | 1660                                           | 1428                              | 232                                                                    | 42                | 190               | 0                              |
| Surrey                         | 39645                                          | 30770                             | 8875                                                                   | 330               | 6656              | 1889                           |

Key:

(U) denotes Unitary Authority

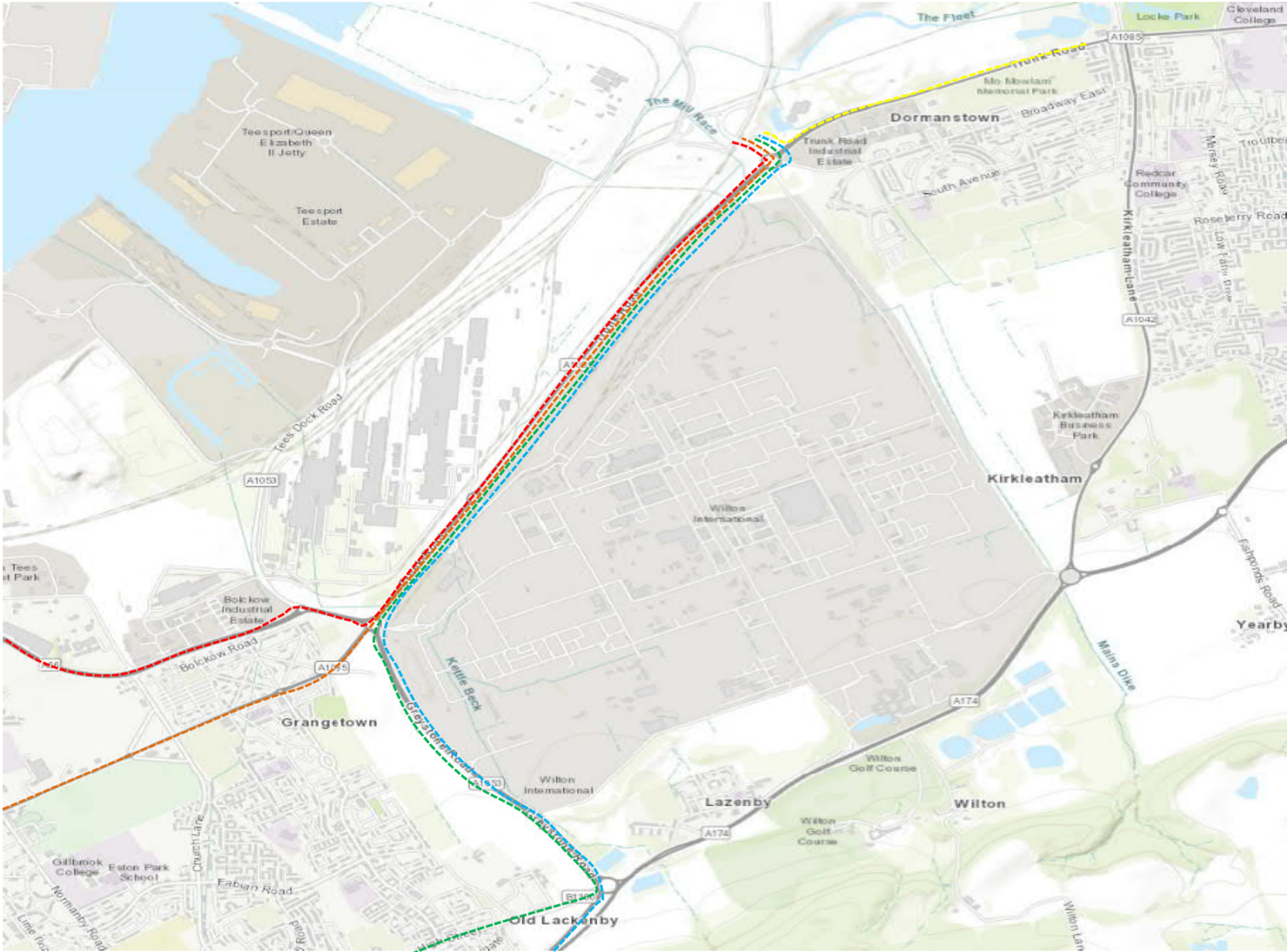
For a definition of 'Tourist Accommodation establishments' and 'Hotels and similar establishments' please see: [http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Hotels\\_and\\_similar\\_accommodation](http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Hotels_and_similar_accommodation)

For a definition of 'Collective establishments' and 'Holiday dwellings': [http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Holiday\\_and\\_other\\_short-stay\\_accommodation](http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Holiday_and_other_short-stay_accommodation)

For a definition of 'Tourist campsites' please see: [http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Camping\\_grounds\\_recreational\\_vehicle\\_parks\\_and\\_trailer\\_parks](http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Camping_grounds_recreational_vehicle_parks_and_trailer_parks)

\*Please note that we do not have detailed room and bedspace information for all establishments. In addition, self-catering holiday cottages that are part of a group may only be listed as one establishment even if they have a large number of cottages. The reason for this is that there is no statutory obligation for accommodation businesses to supply information on accommodation stock and so there may be some gaps. Although this document represents the most accurate picture of accommodation stock available, please be mindful that in some areas the proportion of bedspaces and rooms relative to the number of establishments will appear to be high.

## Annex 16A.5: Worker Routes

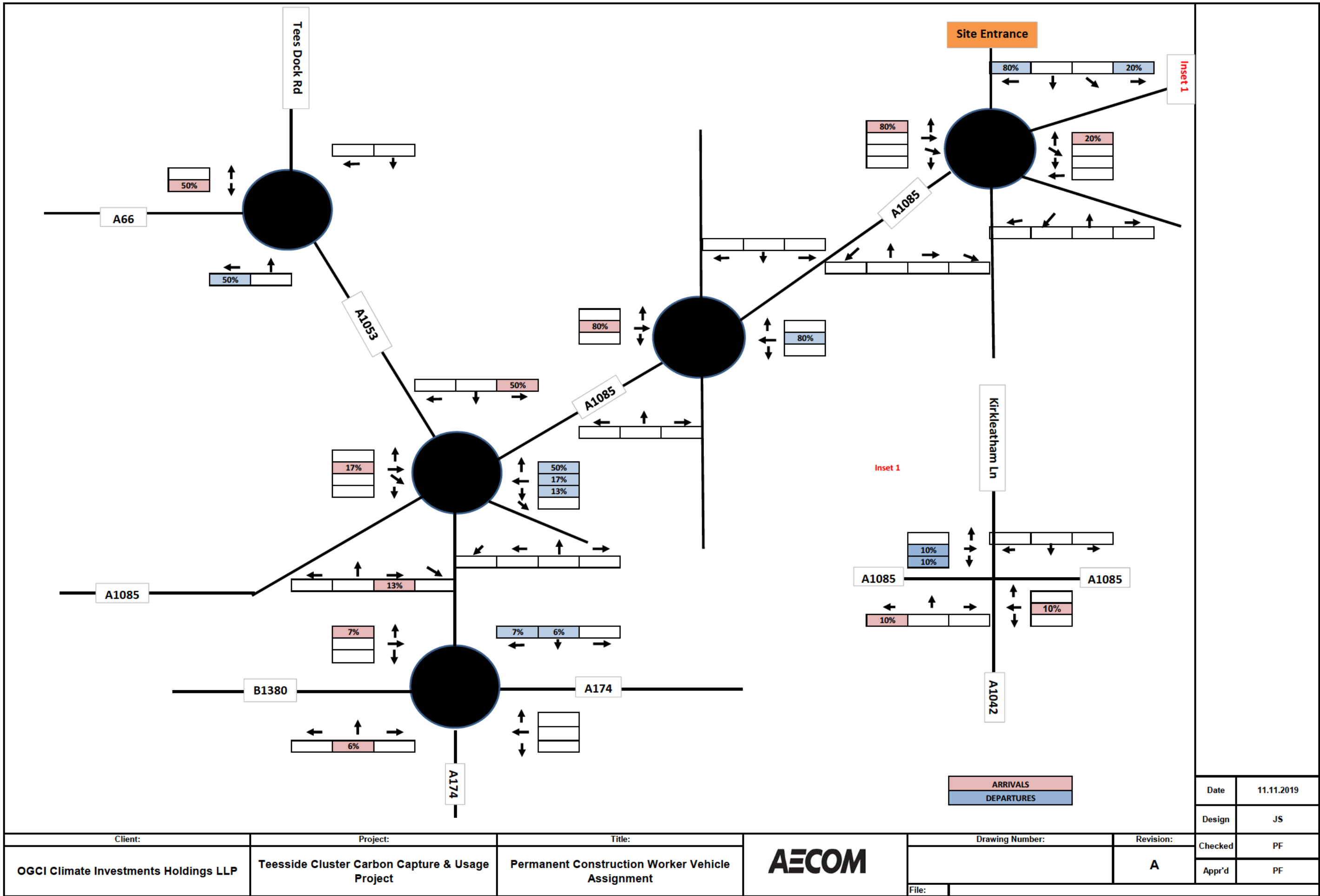


- Route 1
- Route 2
- Route 3
- Route 4
- Route 5

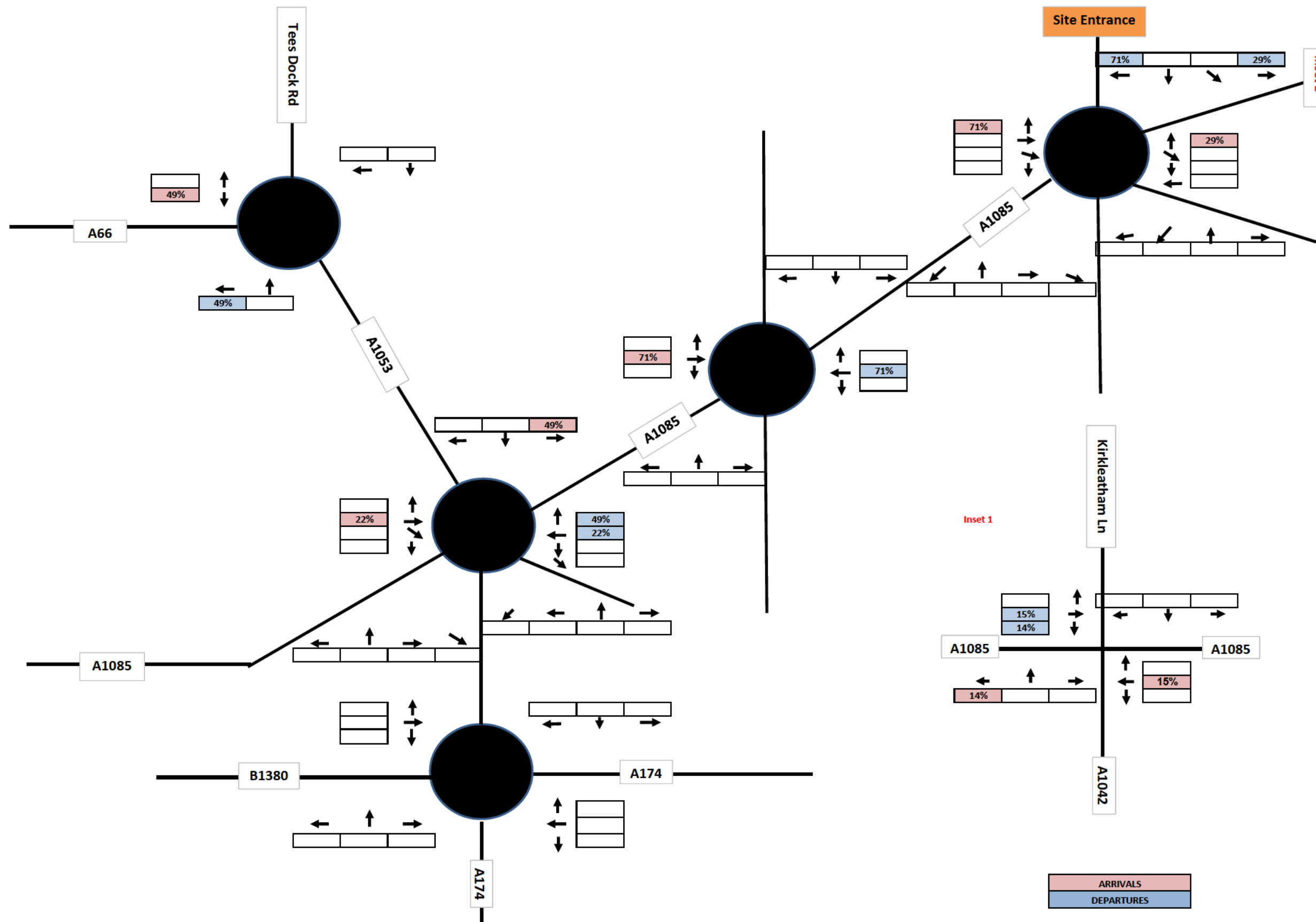
|         |            |
|---------|------------|
| Date    | 11.11.2019 |
| Design  | JS         |
| Checked | PF         |
| Appr'd  | PF         |

| Client                                | Project                                         | Title                          |  | Drawing Number |  | Revision | Checked | PF |
|---------------------------------------|-------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|----------------|--|----------|---------|----|
| OGCI Climate Investments Holdings LLP | Teesside Cluster Carbon Capture & Usage Project | Key Construction Worker Routes |                                                                                       | Figure 16      |  | A        |         |    |
|                                       |                                                 |                                |                                                                                       |                |  |          | Appr'd  | PF |
|                                       |                                                 | File                           |                                                                                       |                |  |          |         |    |

# Annex 16A.6: Construction Worker Assignment



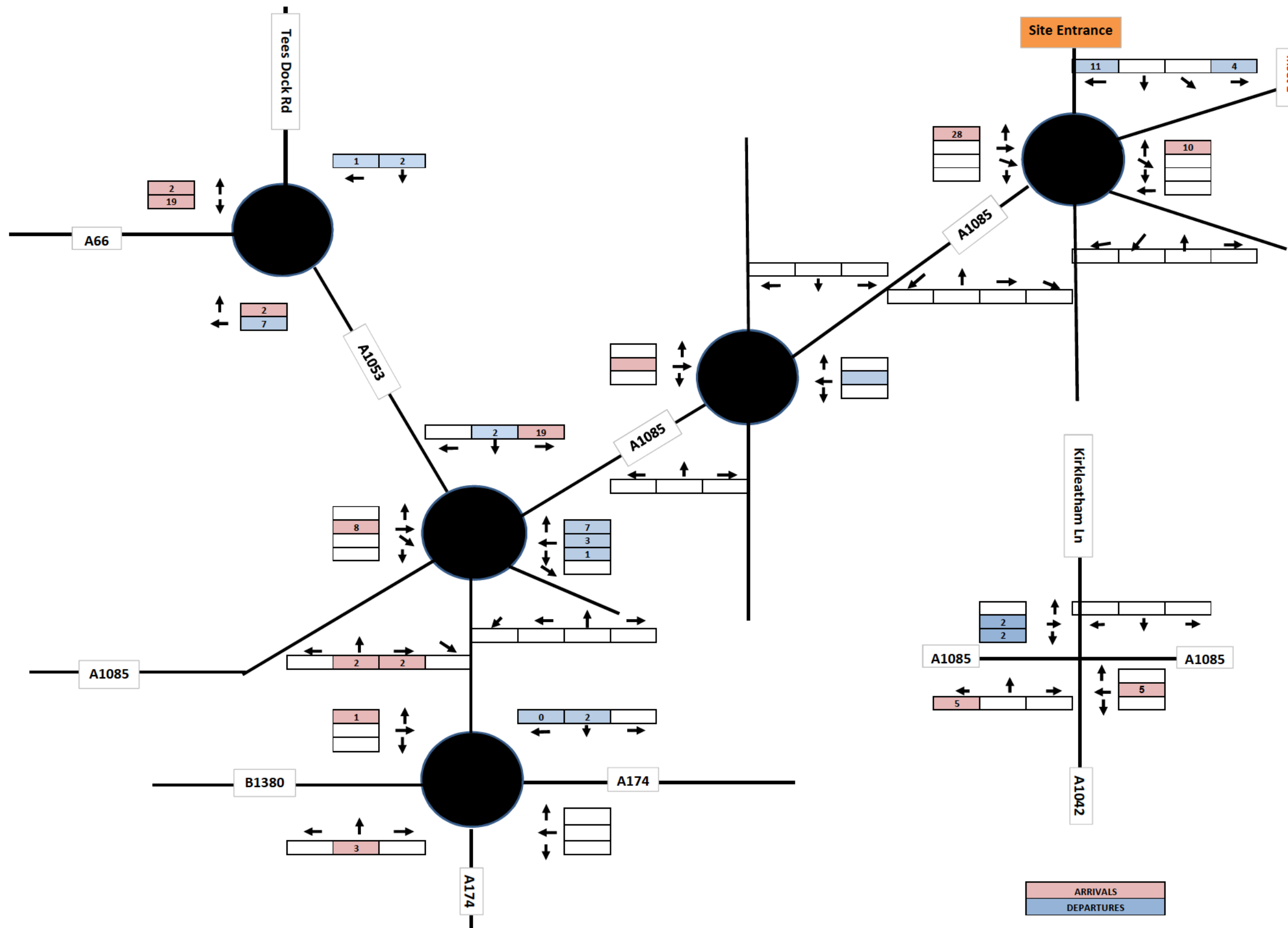
|                                       |                                                 |                                                  |                                                                                       |                 |  |           |  |         |    |
|---------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|--|-----------|--|---------|----|
| Client:                               | Project:                                        | Title:                                           |  | Drawing Number: |  | Revision: |  | Checked | PF |
| OGCI Climate Investments Holdings LLP | Teesside Cluster Carbon Capture & Usage Project | Permanent Construction Worker Vehicle Assignment |                                                                                       |                 |  | A         |  |         |    |
|                                       |                                                 |                                                  |                                                                                       |                 |  |           |  |         |    |
|                                       |                                                 |                                                  |                                                                                       |                 |  |           |  |         |    |
|                                       |                                                 |                                                  |                                                                                       |                 |  |           |  |         |    |
| File:                                 |                                                 |                                                  |                                                                                       |                 |  |           |  |         |    |



|         |            |
|---------|------------|
| Date    | 11.11.2019 |
| Design  | JS         |
| Checked | PF         |
| Appr'd  | PF         |

|                                       |                                                 |                                                   |                                                                                       |                 |  |           |         |    |
|---------------------------------------|-------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|--|-----------|---------|----|
| Client:                               | Project:                                        | Title:                                            |  | Drawing Number: |  | Revision: | Checked | PF |
| OGCI Climate Investments Holdings LLP | Teesside Cluster Carbon Capture & Usage Project | Transitory Construction Worker Vehicle Assignment |                                                                                       |                 |  | A         |         |    |
|                                       |                                                 |                                                   |                                                                                       |                 |  |           | Appr'd  | PF |
|                                       |                                                 |                                                   |                                                                                       | File:           |  |           |         |    |

# Annex 16A.7: Total Construction Vehicle Flows during AM and PM Network Peak Hours



Inset 1

|            |
|------------|
| ARRIVALS   |
| DEPARTURES |

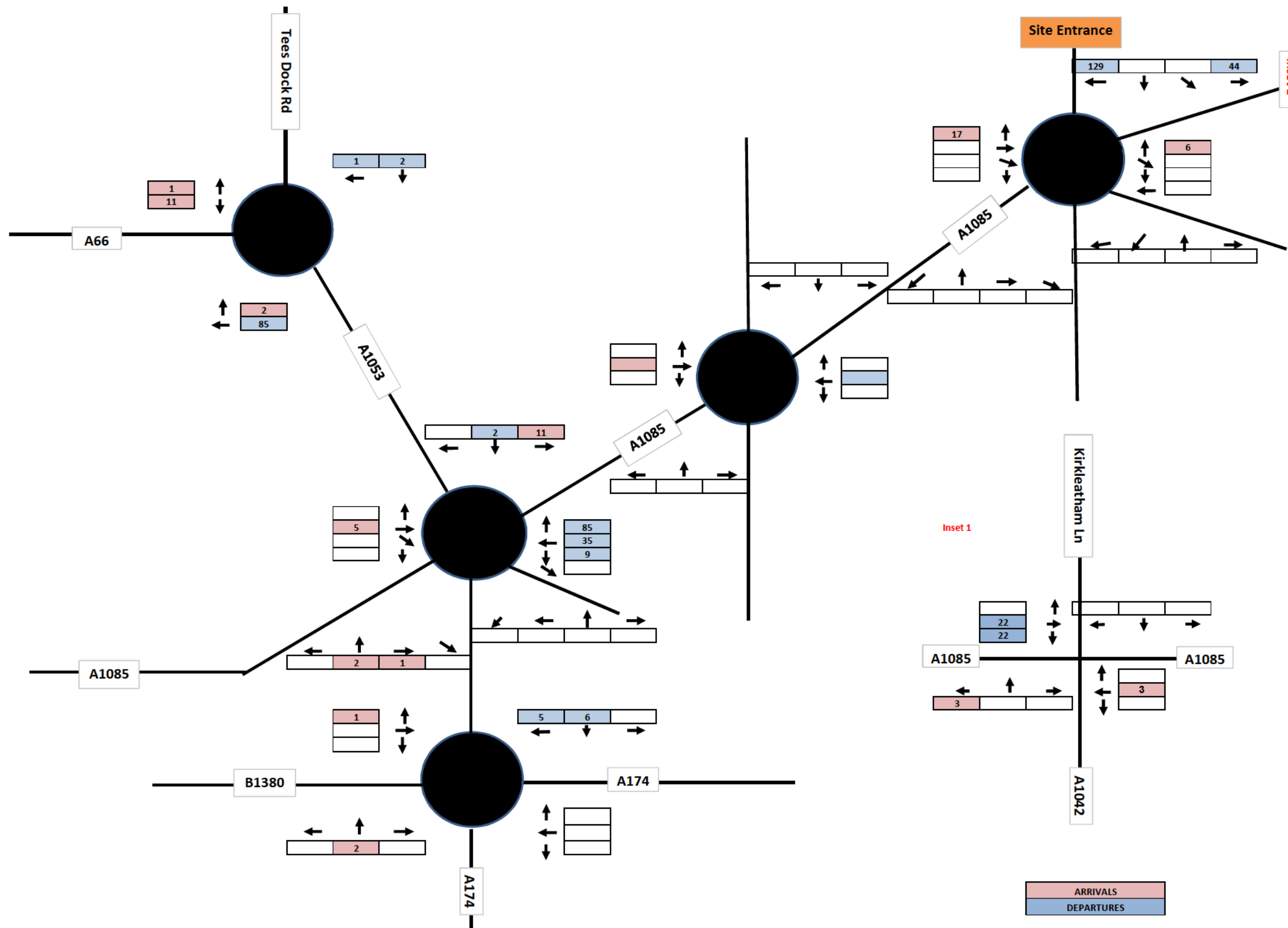
|         |            |
|---------|------------|
| Date    | 28.04.2021 |
| Design  | JS         |
| Checked | SM         |
| Appr'd  | SM         |

|                                       |                                                 |                                     |
|---------------------------------------|-------------------------------------------------|-------------------------------------|
| Client:                               | Project:                                        | Title:                              |
| OGCI Climate Investments Holdings LLP | Teesside Cluster Carbon Capture & Usage Project | Total Vehicle Flows (08:00 - 09:00) |

**AECOM**

|                 |           |
|-----------------|-----------|
| Drawing Number: | Revision: |
|                 | A         |

File:



|         |            |
|---------|------------|
| Date    | 28.04.2021 |
| Design  | JS         |
| Checked | SM         |
| Appr'd  | SM         |

|                                       |                                                 |                                     |
|---------------------------------------|-------------------------------------------------|-------------------------------------|
| Client:                               | Project:                                        | Title:                              |
| OGCI Climate Investments Holdings LLP | Teesside Cluster Carbon Capture & Usage Project | Total Vehicle Flows (17:00 - 18:00) |

**AECOM**

|                 |           |
|-----------------|-----------|
| Drawing Number: | Revision: |
|                 | A         |
| File:           |           |

# Annex 16A.8: A1085 / West Coatham Lane / Site Access Modelling Outputs

| Junctions 9                                                                                                                                                      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| ARCADY 9 - Roundabout Module                                                                                                                                     |  |  |  |
| Version: 9.5.1.7462<br>© Copyright TRL Limited, 2019                                                                                                             |  |  |  |
| For sales and distribution information, program advice and maintenance, contact TRL:<br>[REDACTED] software@trl.co.uk www.trlsoftware.co.uk                      |  |  |  |
| The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution |  |  |  |

Filename: Junction 1 April 2020\_rev1.j9

Path: K:\Transport Projects\60559231 - Teeside Carbon Capture Project\DCO\Modelling\Junction 1

Report generation date: 28/04/2021 09:18:53

»2019 Base, AM

»2019 Base, PM

»2024 Base + Committed, AM

»2024 Base + Committed, PM

»2024 Base + Committed + Development Peak of Construction, AM

»2024 Base + Committed + Development Peak of Construction, PM

### Summary of junction performance

|                                                          | AM          |           |      |     | PM          |           |      |     |
|----------------------------------------------------------|-------------|-----------|------|-----|-------------|-----------|------|-----|
|                                                          | Queue (PCU) | Delay (s) | RFC  | LOS | Queue (PCU) | Delay (s) | RFC  | LOS |
| 2019 Base                                                |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 0.6         | 3.21      | 0.37 | A   | 0.3         | 2.78      | 0.25 | A   |
| B - W Coatham Ln                                         | 0.3         | 3.30      | 0.23 | A   | 0.1         | 2.68      | 0.12 | A   |
| C - Willton Site Access                                  | 0.0         | 3.26      | 0.01 | A   | 0.0         | 2.21      | 0.01 | A   |
| D - A1085 S                                              | 0.7         | 3.30      | 0.40 | A   | 1.8         | 5.30      | 0.64 | A   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.0         | 0.00      | 0.00 | A   |
| F - Site Access                                          | 0.0         | 2.81      | 0.01 | A   | 0.0         | 2.72      | 0.02 | A   |
| 2024 Base + Committed                                    |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 1.2         | 4.57      | 0.54 | A   | 0.6         | 3.95      | 0.37 | A   |
| B - W Coatham Ln                                         | 0.4         | 4.02      | 0.27 | A   | 0.2         | 3.45      | 0.16 | A   |
| C - Willton Site Access                                  | 0.0         | 3.95      | 0.01 | A   | 0.0         | 2.82      | 0.03 | A   |
| D - A1085 S                                              | 3.0         | 7.80      | 0.74 | A   | 4.0         | 9.49      | 0.80 | A   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.1         | 4.22      | 0.08 | A   |
| F - Site Access                                          | 0.1         | 2.74      | 0.09 | A   | 0.6         | 3.65      | 0.35 | A   |
| 2024 Base + Committed + Development Peak of Construction |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 1.2         | 4.67      | 0.55 | A   | 0.7         | 4.29      | 0.39 | A   |
| B - W Coatham Ln                                         | 0.4         | 4.06      | 0.28 | A   | 0.2         | 3.69      | 0.17 | A   |
| C - Willton Site Access                                  | 0.0         | 3.98      | 0.01 | A   | 0.0         | 2.99      | 0.03 | A   |
| D - A1085 S                                              | 3.3         | 8.38      | 0.76 | A   | 4.3         | 10.03     | 0.81 | B   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.1         | 4.28      | 0.08 | A   |
| F - Site Access                                          | 0.1         | 2.68      | 0.10 | A   | 0.9         | 4.34      | 0.47 | A   |

There are warnings associated with one or more model runs - see the Data Errors and Warnings tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

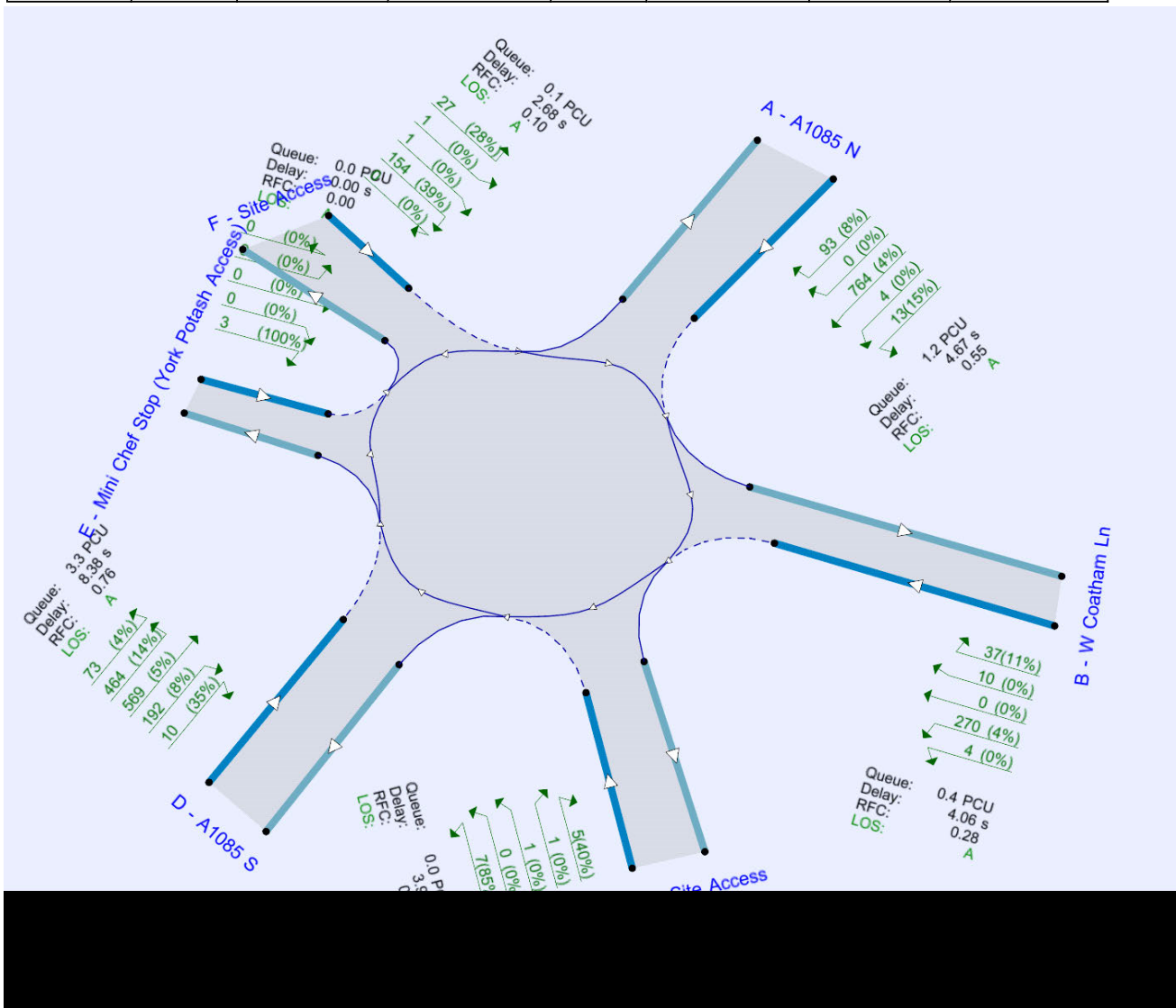
## File summary

### File Description

| Title       | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout |
|-------------|-----------------------------------------------------------------|
| Location    |                                                                 |
| Site number |                                                                 |
| Date        | 17/12/2020                                                      |
| Version     |                                                                 |
| Status      | (new file)                                                      |
| Identifier  |                                                                 |
| Client      |                                                                 |
| Jobnumber   |                                                                 |
| Enumerator  | JC                                                              |
| Description |                                                                 |

## Units

| Distance units | Speed units | Traffic units input | Traffic units results | Flow units | Average delay units | Total delay units | Rate of delay units |
|----------------|-------------|---------------------|-----------------------|------------|---------------------|-------------------|---------------------|
| m              | kph         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |



The junction diagram reflects the last run of Junctions.

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|--------------------|-----------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
| 5.75               |                             |                                   |                             | 0.85          | 36.00                       | 20 00                 |

## Demand Set Summary

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D1  | 2019 Base                                                | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |                   |              |
| D2  | 2019 Base                                                | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |                   |              |
| D3  | 2024 Base                                                | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D4  | 2024 Base                                                | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D5  | Committed Development (exc. York Potash)                 | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D6  | Committed Development (exc. York Potash)                 | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D7  | York Potash                                              | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D8  | York Potash                                              | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D9  | 2024 Base + Committed                                    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D3 + D5 + D7 |
| D10 | 2024 Base + Committed                                    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D4 + D6 + D8 |
| D11 | Development Flows                                        | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D12 | Development Flows                                        | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D13 | 2024 Base + Committed + Development Peak of Construction | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D9 + D11     |
| D14 | 2024 Base + Committed + Development Peak of Construction | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D10 + D12    |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2019 Base, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 3 26               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Arms

### Arms

| Arm | Name                                | Description |
|-----|-------------------------------------|-------------|
| A   | A1085 N                             |             |
| B   | W Coatham Ln                        |             |
| C   | Wilton Site Access                  |             |
| D   | A1085 S                             |             |
| E   | Mini Chef Stop (York Potash Access) |             |
| F   | Site Access                         |             |

### Roundabout Geometry

| Arm                                     | V - Approach road half-width (m) | E - Entry width (m) | I' - Effective flare length (m) | R - Entry radius (m) | D - Inscribed circle diameter (m) | PHI - Conflict (entry) angle (deg) | Exit only |
|-----------------------------------------|----------------------------------|---------------------|---------------------------------|----------------------|-----------------------------------|------------------------------------|-----------|
| A - A1085 N                             | 6.49                             | 6.50                | 4.9                             | 15.2                 | 99.4                              | 27 0                               |           |
| B - W Coatham Ln                        | 4.53                             | 7.68                | 7.6                             | 21.7                 | 99.4                              | 27 0                               |           |
| C - Wilton Site Access                  | 6.38                             | 6.82                | 2.0                             | 20.1                 | 99.4                              | 12 5                               |           |
| D - A1085 S                             | 6.45                             | 6.67                | 5.5                             | 12.6                 | 99.4                              | 26 0                               |           |
| E - Mini Chef Stop (York Potash Access) | 4.46                             | 12.00               | 5.1                             | 12.1                 | 99.4                              | 33 0                               |           |
| F - Site Access                         | 7.53                             | 9.64                | 3.6                             | 12.5                 | 99.4                              | 15 0                               |           |

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

| Arm                                     | Final slope | Final intercept (PCU/hr) |
|-----------------------------------------|-------------|--------------------------|
| A - A1085 N                             | 0.485       | 1960                     |
| B - W Coatham Ln                        | 0.468       | 1808                     |
| C - Wilton Site Access                  | 0.524       | 2134                     |
| D - A1085 S                             | 0.486       | 1984                     |
| E - Mini Chef Stop (York Potash Access) | 0.438       | 1676                     |
| F - Site Access                         | 0.575       | 2561                     |

The slope and intercept shown above include any corrections and adjustments.

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2019 Base     | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 625                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 307                     | 100.000            |
| C - Wllton Site Access                  |            | ONE HOUR     | ✓            | 12                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 715                     | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 0                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 19                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 4                      | 606         | 0                                       | 3               |
|      | B - W Coatham Ln                        | 35          | 0                | 4                      | 258         | 0                                       | 10              |
|      | C - Wllton Site Access                  | 1           | 5                | 0                      | 5           | 0                                       | 1               |
|      | D - A1085 S                             | 483         | 183              | 8                      | 0           | 0                                       | 41              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 1                | 1                      | 17          | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 17               | 0                      | 3           | 0                                       | 0               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wllton Site Access                  | 0           | 40               | 0                      | 80          | 0                                       | 0               |
|      | D - A1085 S                             | 4           | 8                | 25                     | 0           | 0                                       | 49              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 0                | 0                      | 76          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.37    | 3.21          | 0.6             | A       | 574                     | 860                           |
| B - W Coatham Ln                        | 0.23    | 3.30          | 0.3             | A       | 282                     | 423                           |
| C - Wilton Site Access                  | 0.01    | 3.26          | 0.0             | A       | 11                      | 17                            |
| D - A1085 S                             | 0.40    | 3.30          | 0.7             | A       | 656                     | 984                           |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.01    | 2.81          | 0.0             | A       | 17                      | 26                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 471                   | 118                     | 161                       | 1881              | 0.250 | 469                 | 390                             | 0.0               | 0.3             | 2.628     | A                             |
| B - W Coatham Ln                        | 231                   | 58                      | 480                       | 1584              | 0.146 | 230                 | 151                             | 0.0               | 0.2             | 2.780     | A                             |
| C - Wilton Site Access                  | 9                     | 2                       | 697                       | 1769              | 0.005 | 9                   | 13                              | 0.0               | 0.0             | 2.939     | A                             |
| D - A1085 S                             | 538                   | 135                     | 41                        | 1963              | 0.274 | 537                 | 665                             | 0.0               | 0.4             | 2.699     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 578                       | 1423              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 14                    | 4                       | 537                       | 2252              | 0.006 | 14                  | 41                              | 0.0               | 0.0             | 2.621     | A                             |

#### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 193                       | 1866              | 0.301 | 561                 | 466                             | 0.3               | 0.4             | 2.848     | A                             |
| B - W Coatham Ln                        | 276                   | 69                      | 574                       | 1540              | 0.179 | 276                 | 181                             | 0.2               | 0.2             | 2.978     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 835                       | 1697              | 0.006 | 11                  | 15                              | 0.0               | 0.0             | 3.067     | A                             |
| D - A1085 S                             | 643                   | 161                     | 49                        | 1960              | 0.328 | 642                 | 796                             | 0.4               | 0.5             | 2.926     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 692                       | 1373              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 17                    | 4                       | 642                       | 2191              | 0.008 | 17                  | 49                              | 0.0               | 0.0             | 2.697     | A                             |

#### 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 688                   | 172                     | 236                       | 1845              | 0.373 | 687                 | 571                             | 0.4               | 0.6             | 3.208     | A                             |
| B - W Coatham Ln                        | 338                   | 85                      | 703                       | 1479              | 0.229 | 338                 | 221                             | 0.2               | 0.3             | 3.297     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1022                      | 1599              | 0.008 | 13                  | 19                              | 0.0               | 0.0             | 3.262     | A                             |
| D - A1085 S                             | 787                   | 197                     | 60                        | 1954              | 0.403 | 786                 | 975                             | 0.5               | 0.7             | 3.299     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 847                       | 1305              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 21                    | 5                       | 786                       | 2108              | 0.010 | 21                  | 60                              | 0.0               | 0.0             | 2.809     | A                             |

**08:30 - 08:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 688                   | 172                     | 237                       | 1845              | 0.373 | 688                 | 571                             | 0.6               | 0.6             | 3.211     | A                             |
| B - W Coatham Ln                        | 338                   | 85                      | 704                       | 1479              | 0.229 | 338                 | 221                             | 0.3               | 0.3             | 3.298     | A                             |
| C - Wllton Site Access                  | 13                    | 3                       | 1023                      | 1599              | 0.008 | 13                  | 19                              | 0.0               | 0.0             | 3.263     | A                             |
| D - A1085 S                             | 787                   | 197                     | 61                        | 1954              | 0.403 | 787                 | 975                             | 0.7               | 0.7             | 3.302     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 848                       | 1305              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 21                    | 5                       | 787                       | 2108              | 0.010 | 21                  | 61                              | 0.0               | 0.0             | 2.810     | A                             |

**08:45 - 09:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 194                       | 1866              | 0.301 | 563                 | 467                             | 0.6               | 0.4             | 2.854     | A                             |
| B - W Coatham Ln                        | 276                   | 69                      | 575                       | 1539              | 0.179 | 276                 | 181                             | 0.3               | 0.2             | 2.981     | A                             |
| C - Wllton Site Access                  | 11                    | 3                       | 836                       | 1696              | 0.006 | 11                  | 15                              | 0.0               | 0.0             | 3.069     | A                             |
| D - A1085 S                             | 643                   | 161                     | 50                        | 1959              | 0.328 | 644                 | 797                             | 0.7               | 0.5             | 2.932     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 693                       | 1373              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 17                    | 4                       | 644                       | 2191              | 0.008 | 17                  | 50                              | 0.0               | 0.0             | 2.700     | A                             |

**09:00 - 09:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 471                   | 118                     | 162                       | 1881              | 0.250 | 471                 | 391                             | 0.4               | 0.3             | 2.635     | A                             |
| B - W Coatham Ln                        | 231                   | 58                      | 481                       | 1583              | 0.146 | 231                 | 151                             | 0.2               | 0.2             | 2.787     | A                             |
| C - Wllton Site Access                  | 9                     | 2                       | 700                       | 1768              | 0.005 | 9                   | 13                              | 0.0               | 0.0             | 2.944     | A                             |
| D - A1085 S                             | 538                   | 135                     | 41                        | 1963              | 0.274 | 539                 | 668                             | 0.5               | 0.4             | 2.705     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 580                       | 1422              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 14                    | 4                       | 539                       | 2251              | 0.006 | 14                  | 41                              | 0.0               | 0.0             | 2.624     | A                             |

# 2019 Base, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 4 38               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2019 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 410                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 175                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 22                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1146                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 0                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 34                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 11               | 0                      | 397         | 0                                       | 2               |
|      | B - W Coatham Ln                        | 33          | 0                | 2                      | 138         | 0                                       | 2               |
|      | C - Wilton Site Access                  | 3           | 8                | 0                      | 10          | 0                                       | 1               |
|      | D - A1085 S                             | 827         | 303              | 1                      | 0           | 0                                       | 15              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 7           | 0                | 0                      | 27          | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 27               | 0                      | 2           | 0                                       | 0               |
|      | B - W Coatham Ln                        | 0           | 0                | 0                      | 5           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 0                | 0                      | 20          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 0                      | 0           | 0                                       | 93              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 0                | 0                      | 48          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.25    | 2.78          | 0.3             | A       | 376                     | 564                           |
| B - W Coatham Ln                        | 0.12    | 2.68          | 0.1             | A       | 161                     | 241                           |
| C - Wilton Site Access                  | 0.01    | 2.21          | 0.0             | A       | 20                      | 30                            |
| D - A1085 S                             | 0.64    | 5.30          | 1.8             | A       | 1052                    | 1577                          |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.02    | 2.72          | 0.0             | A       | 31                      | 47                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 309                   | 77                      | 254                       | 1836              | 0.168 | 308                 | 653                             | 0.0               | 0.2             | 2.414     | A                             |
| B - W Coatham Ln                        | 132                   | 33                      | 321                       | 1658              | 0.079 | 131                 | 242                             | 0.0               | 0.1             | 2.449     | A                             |
| C - Wilton Site Access                  | 17                    | 4                       | 450                       | 1899              | 0.009 | 17                  | 2                               | 0.0               | 0.0             | 2.069     | A                             |
| D - A1085 S                             | 863                   | 216                     | 37                        | 1966              | 0.439 | 860                 | 429                             | 0.0               | 0.8             | 3.324     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 896                       | 1284              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 26                    | 6                       | 881                       | 2054              | 0.012 | 26                  | 15                              | 0.0               | 0.0             | 2.390     | A                             |

#### 17:00 - 17:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 369                   | 92                      | 304                       | 1812              | 0.203 | 368                 | 781                             | 0.2               | 0.3             | 2.556     | A                             |
| B - W Coatham Ln                        | 157                   | 39                      | 384                       | 1629              | 0.097 | 157                 | 289                             | 0.1               | 0.1             | 2.541     | A                             |
| C - Wilton Site Access                  | 20                    | 5                       | 538                       | 1852              | 0.011 | 20                  | 3                               | 0.0               | 0.0             | 2.125     | A                             |
| D - A1085 S                             | 1030                  | 258                     | 44                        | 1962              | 0.525 | 1029                | 514                             | 0.8               | 1.1             | 3.945     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1073                      | 1206              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 31                    | 8                       | 1055                      | 1954              | 0.016 | 31                  | 18                              | 0.0               | 0.0             | 2.520     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 451                   | 113                     | 372                       | 1779              | 0.254 | 451                 | 956                             | 0.3               | 0.3             | 2.780     | A                             |
| B - W Coatham Ln                        | 193                   | 48                      | 470                       | 1588              | 0.121 | 193                 | 354                             | 0.1               | 0.1             | 2.679     | A                             |
| C - Wllton Site Access                  | 24                    | 6                       | 659                       | 1789              | 0.014 | 24                  | 3                               | 0.0               | 0.0             | 2.206     | A                             |
| D - A1085 S                             | 1262                  | 315                     | 54                        | 1957              | 0.645 | 1259                | 629                             | 1.1               | 1.8             | 5.258     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1313                      | 1101              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 37                    | 9                       | 1291                      | 1818              | 0.021 | 37                  | 22                              | 0.0               | 0.0             | 2.722     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 451                   | 113                     | 373                       | 1778              | 0.254 | 451                 | 958                             | 0.3               | 0.3             | 2.780     | A                             |
| B - W Coatham Ln                        | 193                   | 48                      | 470                       | 1588              | 0.121 | 193                 | 355                             | 0.1               | 0.1             | 2.679     | A                             |
| C - Wllton Site Access                  | 24                    | 6                       | 660                       | 1789              | 0.014 | 24                  | 3                               | 0.0               | 0.0             | 2.207     | A                             |
| D - A1085 S                             | 1262                  | 315                     | 54                        | 1957              | 0.645 | 1262                | 630                             | 1.8               | 1.8             | 5.300     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1316                      | 1100              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 37                    | 9                       | 1294                      | 1817              | 0.021 | 37                  | 22                              | 0.0               | 0.0             | 2.724     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 369                   | 92                      | 306                       | 1811              | 0.203 | 369                 | 784                             | 0.3               | 0.3             | 2.561     | A                             |
| B - W Coatham Ln                        | 157                   | 39                      | 384                       | 1628              | 0.097 | 157                 | 290                             | 0.1               | 0.1             | 2.544     | A                             |
| C - Wllton Site Access                  | 20                    | 5                       | 539                       | 1852              | 0.011 | 20                  | 3                               | 0.0               | 0.0             | 2.127     | A                             |
| D - A1085 S                             | 1030                  | 258                     | 44                        | 1962              | 0.525 | 1033                | 515                             | 1.8               | 1.1             | 3.980     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1077                      | 1205              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 31                    | 8                       | 1059                      | 1952              | 0.016 | 31                  | 18                              | 0.0               | 0.0             | 2.523     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 309                   | 77                      | 256                       | 1836              | 0.168 | 309                 | 656                             | 0.3               | 0.2             | 2.419     | A                             |
| B - W Coatham Ln                        | 132                   | 33                      | 322                       | 1658              | 0.079 | 132                 | 243                             | 0.1               | 0.1             | 2.452     | A                             |
| C - Wllton Site Access                  | 17                    | 4                       | 451                       | 1898              | 0.009 | 17                  | 2                               | 0.0               | 0.0             | 2.071     | A                             |
| D - A1085 S                             | 863                   | 216                     | 37                        | 1966              | 0.439 | 864                 | 431                             | 1.1               | 0.8             | 3.353     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 901                       | 1282              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 26                    | 6                       | 886                       | 2051              | 0.012 | 26                  | 15                              | 0.0               | 0.0             | 2.395     | A                             |

# 2024 Base + Committed, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 5 94               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID | Scenario name         | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|----|-----------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D9 | 2024 Base + Committed | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D3 + D5 + D7 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 864                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 321                     | 100.000            |
| C - Willton Site Access                 |            | ONE HOUR     | ✓            | 14                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1280                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 3                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 168                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                         |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|-------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Willton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 13               | 4                       | 764         | 0                                       | 83              |
|      | B - W Coatham Ln                        | 37          | 0                | 4                       | 270         | 0                                       | 10              |
|      | C - Willton Site Access                 | 1           | 5                | 0                       | 7           | 0                                       | 1               |
|      | D - A1085 S                             | 569         | 192              | 10                      | 0           | 73                                      | 436             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                       | 3           | 0                                       | 0               |
|      | F - Site Access                         | 23          | 1                | 1                       | 143         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 15               | 0                      | 4           | 0                                       | 9               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 40               | 0                      | 85          | 0                                       | 0               |
|      | D - A1085 S                             | 5           | 8                | 35                     | 0           | 4                                       | 15              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 100         | 0                                       | 0               |
|      | F - Site Access                         | 35          | 0                | 0                      | 44          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0 54    | 4.57          | 1.2             | A       | 793                     | 1189                          |
| B - W Coatham Ln                        | 0 27    | 4.02          | 0.4             | A       | 295                     | 442                           |
| C - Wilton Site Access                  | 0 01    | 3.95          | 0.0             | A       | 13                      | 19                            |
| D - A1085 S                             | 0.74    | 7.80          | 3.0             | A       | 1175                    | 1762                          |
| E - Mini Chef Stop (York Potash Access) | 0 00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0 09    | 2.74          | 0.1             | A       | 154                     | 231                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 650                   | 163                     | 264                       | 1831              | 0.355 | 648                 | 472                             | 0.0               | 0.6             | 3.167     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 754                       | 1455              | 0.166 | 241                 | 158                             | 0.0               | 0.2             | 3.098     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 981                       | 1621              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.347     | A                             |
| D - A1085 S                             | 964                   | 241                     | 103                       | 1934              | 0.498 | 959                 | 888                             | 0.0               | 1.1             | 3.996     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1007                      | 1235              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 126                   | 32                      | 610                       | 2210              | 0.057 | 126                 | 397                             | 0.0               | 0.1             | 2.450     | A                             |

#### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 777                   | 194                     | 316                       | 1806              | 0.430 | 776                 | 565                             | 0.6               | 0.8             | 3.638     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 903                       | 1386              | 0.208 | 288                 | 189                             | 0.2               | 0.3             | 3.430     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1174                      | 1519              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.576     | A                             |
| D - A1085 S                             | 1151                  | 288                     | 123                       | 1924              | 0.598 | 1149                | 1063                            | 1.1               | 1.6             | 5.030     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1206                      | 1148              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 151                   | 38                      | 730                       | 2141              | 0.071 | 151                 | 476                             | 0.1               | 0.1             | 2.566     | A                             |

### 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 951                   | 238                     | 387                       | 1772              | 0.537 | 950                 | 691                             | 0.8               | 1.2             | 4.554     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1105                      | 1291              | 0.274 | 353                 | 231                             | 0.3               | 0.4             | 4.011     | A                             |
| C - Wilton Site Access                  | 15                    | 4                       | 1437                      | 1382              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.945     | A                             |
| D - A1085 S                             | 1409                  | 352                     | 151                       | 1910              | 0.738 | 1404                | 1302                            | 1.6               | 3.0             | 7.638     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1474                      | 1031              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 185                   | 46                      | 893                       | 2047              | 0.090 | 185                 | 582                             | 0.1               | 0.1             | 2.741     | A                             |

### 08:30 - 08:45

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 951                   | 238                     | 388                       | 1772              | 0.537 | 951                 | 694                             | 1.2               | 1.2             | 4.574     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1106                      | 1290              | 0.274 | 353                 | 232                             | 0.4               | 0.4             | 4.017     | A                             |
| C - Wilton Site Access                  | 15                    | 4                       | 1439                      | 1381              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.948     | A                             |
| D - A1085 S                             | 1409                  | 352                     | 151                       | 1910              | 0.738 | 1409                | 1304                            | 3.0               | 3.0             | 7.795     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1480                      | 1029              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 185                   | 46                      | 896                       | 2045              | 0.090 | 185                 | 583                             | 0.1               | 0.1             | 2.744     | A                             |

### 08:45 - 09:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 777                   | 194                     | 317                       | 1806              | 0.430 | 778                 | 569                             | 1.2               | 0.8             | 3.661     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 905                       | 1385              | 0.208 | 289                 | 191                             | 0.4               | 0.3             | 3.437     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1177                      | 1518              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.580     | A                             |
| D - A1085 S                             | 1151                  | 288                     | 123                       | 1924              | 0.598 | 1156                | 1066                            | 3.0               | 1.6             | 5.130     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1214                      | 1145              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 151                   | 38                      | 735                       | 2138              | 0.071 | 151                 | 478                             | 0.1               | 0.1             | 2.569     | A                             |

### 09:00 - 09:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 650                   | 163                     | 265                       | 1831              | 0.355 | 651                 | 475                             | 0.8               | 0.6             | 3.183     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 758                       | 1454              | 0.166 | 242                 | 159                             | 0.3               | 0.2             | 3.106     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 985                       | 1618              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.352     | A                             |
| D - A1085 S                             | 964                   | 241                     | 103                       | 1933              | 0.498 | 966                 | 892                             | 1.6               | 1.1             | 4.050     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1014                      | 1232              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 126                   | 32                      | 614                       | 2208              | 0.057 | 127                 | 400                             | 0.1               | 0.1             | 2.453     | A                             |

# 2024 Base + Committed, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 6 69               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name         | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|-----------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D10 | 2024 Base + Committed | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D4 + D6 + D8 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 504                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 183                     | 100.000            |
| C - Wllton Site Access                  |            | ONE HOUR     | ✓            | 38                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1408                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 73                      | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 537                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 0                      | 473         | 0                                       | 19              |
|      | B - W Coatham Ln                        | 35          | 0                | 2                      | 144         | 0                                       | 2               |
|      | C - Wllton Site Access                  | 3           | 8                | 0                      | 26          | 0                                       | 1               |
|      | D - A1085 S                             | 973         | 317              | 5                      | 0           | 3                                       | 110             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 73          | 0                                       | 0               |
|      | F - Site Access                         | 92          | 0                | 0                      | 445         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 25               | 0                      | 3           | 0                                       | 30              |
|      | B - W Coatham Ln                        | 0           | 0                | 0                      | 5           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 0                | 0                      | 16          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 36                     | 0           | 100                                     | 52              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 4           | 0                                       | 0               |
|      | F - Site Access                         | 5           | 0                | 0                      | 10          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.37    | 3.95          | 0.6             | A       | 462                     | 694                           |
| B - W Coatham Ln                        | 0.16    | 3.45          | 0.2             | A       | 168                     | 252                           |
| C - Wilton Site Access                  | 0.03    | 2.82          | 0.0             | A       | 35                      | 52                            |
| D - A1085 S                             | 0.80    | 9.49          | 4.0             | A       | 1292                    | 1938                          |
| E - Mini Chef Stop (York Potash Access) | 0.08    | 4.22          | 0.1             | A       | 67                      | 100                           |
| F - Site Access                         | 0.35    | 3.65          | 0.6             | A       | 493                     | 739                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 379                   | 95                      | 636                       | 1651              | 0.230 | 378                 | 827                             | 0.0               | 0.3             | 2.950     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 762                       | 1452              | 0.095 | 137                 | 253                             | 0.0               | 0.1             | 2.845     | A                             |
| C - Wilton Site Access                  | 29                    | 7                       | 894                       | 1666              | 0.017 | 29                  | 5                               | 0.0               | 0.0             | 2.421     | A                             |
| D - A1085 S                             | 1060                  | 265                     | 51                        | 1959              | 0.541 | 1055                | 871                             | 0.0               | 1.2             | 4.159     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1104                      | 1193              | 0.046 | 55                  | 2                               | 0.0               | 0.1             | 3.289     | A                             |
| F - Site Access                         | 404                   | 101                     | 1060                      | 1951              | 0.207 | 403                 | 99                              | 0.0               | 0.3             | 2.533     | A                             |

#### 17:00 - 17:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 453                   | 113                     | 761                       | 1590              | 0.285 | 453                 | 990                             | 0.3               | 0.4             | 3.303     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 912                       | 1382              | 0.119 | 164                 | 302                             | 0.1               | 0.1             | 3.072     | A                             |
| C - Wilton Site Access                  | 34                    | 9                       | 1070                      | 1574              | 0.022 | 34                  | 6                               | 0.0               | 0.0             | 2.575     | A                             |
| D - A1085 S                             | 1266                  | 316                     | 61                        | 1954              | 0.648 | 1263                | 1043                            | 1.2               | 1.9             | 5.447     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1321                      | 1098              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.626     | A                             |
| F - Site Access                         | 483                   | 121                     | 1269                      | 1831              | 0.264 | 482                 | 118                             | 0.3               | 0.4             | 2.909     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 555                   | 139                     | 931                       | 1508              | 0.368 | 554                 | 1209                            | 0.4               | 0.6             | 3.936     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1116                      | 1286              | 0.157 | 201                 | 369                             | 0.1               | 0.2             | 3.448     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1310                      | 1448              | 0.029 | 42                  | 8                               | 0.0               | 0.0             | 2.819     | A                             |
| D - A1085 S                             | 1550                  | 388                     | 75                        | 1947              | 0.796 | 1542                | 1277                            | 1.9               | 3.9             | 9.150     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1614                      | 970               | 0.083 | 80                  | 3                               | 0.1               | 0.1             | 4.208     | A                             |
| F - Site Access                         | 591                   | 148                     | 1549                      | 1670              | 0.354 | 590                 | 145                             | 0.4               | 0.6             | 3.634     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 555                   | 139                     | 934                       | 1507              | 0.368 | 555                 | 1214                            | 0.6               | 0.6             | 3.948     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1118                      | 1285              | 0.157 | 201                 | 371                             | 0.2               | 0.2             | 3.450     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1311                      | 1447              | 0.029 | 42                  | 8                               | 0.0               | 0.0             | 2.820     | A                             |
| D - A1085 S                             | 1550                  | 388                     | 75                        | 1947              | 0.796 | 1550                | 1278                            | 3.9               | 4.0             | 9.487     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1621                      | 966               | 0.083 | 80                  | 3                               | 0.1               | 0.1             | 4.224     | A                             |
| F - Site Access                         | 591                   | 148                     | 1557                      | 1666              | 0.355 | 591                 | 145                             | 0.6               | 0.6             | 3.651     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 453                   | 113                     | 765                       | 1588              | 0.285 | 454                 | 997                             | 0.6               | 0.4             | 3.315     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 914                       | 1380              | 0.119 | 165                 | 305                             | 0.2               | 0.1             | 3.078     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1072                      | 1573              | 0.022 | 34                  | 6                               | 0.0               | 0.0             | 2.577     | A                             |
| D - A1085 S                             | 1266                  | 316                     | 61                        | 1954              | 0.648 | 1274                | 1045                            | 4.0               | 2.0             | 5.624     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1332                      | 1093              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.644     | A                             |
| F - Site Access                         | 483                   | 121                     | 1279                      | 1825              | 0.264 | 484                 | 119                             | 0.6               | 0.4             | 2.927     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 379                   | 95                      | 639                       | 1649              | 0.230 | 380                 | 832                             | 0.4               | 0.3             | 2.960     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 765                       | 1450              | 0.095 | 138                 | 254                             | 0.1               | 0.1             | 2.851     | A                             |
| C - Wllton Site Access                  | 29                    | 7                       | 898                       | 1664              | 0.017 | 29                  | 5                               | 0.0               | 0.0             | 2.424     | A                             |
| D - A1085 S                             | 1060                  | 265                     | 51                        | 1959              | 0.541 | 1063                | 875                             | 2.0               | 1.3             | 4.231     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1112                      | 1189              | 0.046 | 55                  | 2                               | 0.1               | 0.1             | 3.299     | A                             |
| F - Site Access                         | 404                   | 101                     | 1067                      | 1947              | 0.208 | 405                 | 100                             | 0.4               | 0.3             | 2.546     | A                             |

# 2024 Base + Committed + Development Peak of Construction, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 6 26               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D13 | 2024 Base + Committed + Development Peak of Construction | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D9 + D11     |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 874                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 321                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 14                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1308                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 3                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 183                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 13               | 4                      | 764         | 0                                       | 93              |
|      | B - W Coatham Ln                        | 37          | 0                | 4                      | 270         | 0                                       | 10              |
|      | C - Wilton Site Access                  | 1           | 5                | 0                      | 7           | 0                                       | 1               |
|      | D - A1085 S                             | 569         | 192              | 10                     | 0           | 73                                      | 464             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 3           | 0                                       | 0               |
|      | F - Site Access                         | 27          | 1                | 1                      | 154         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 15               | 0                      | 4           | 0                                       | 8               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 40               | 0                      | 85          | 0                                       | 0               |
|      | D - A1085 S                             | 5           | 8                | 35                     | 0           | 4                                       | 14              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 100         | 0                                       | 0               |
|      | F - Site Access                         | 28          | 0                | 0                      | 39          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.55    | 4.67          | 1.2             | A       | 802                     | 1203                          |
| B - W Coatham Ln                        | 0.28    | 4.06          | 0.4             | A       | 295                     | 442                           |
| C - Wilton Site Access                  | 0.01    | 3.98          | 0.0             | A       | 13                      | 19                            |
| D - A1085 S                             | 0.76    | 8.38          | 3.3             | A       | 1200                    | 1800                          |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.10    | 2.68          | 0.1             | A       | 168                     | 252                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 658                   | 164                     | 272                       | 1827              | 0.360 | 656                 | 475                             | 0.0               | 0.6             | 3.194     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 770                       | 1448              | 0.167 | 241                 | 158                             | 0.0               | 0.2             | 3.117     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 996                       | 1612              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.364     | A                             |
| D - A1085 S                             | 985                   | 246                     | 110                       | 1930              | 0.510 | 980                 | 897                             | 0.0               | 1.1             | 4.092     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1036                      | 1223              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 138                   | 34                      | 610                       | 2210              | 0.062 | 137                 | 426                             | 0.0               | 0.1             | 2.382     | A                             |

### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 786                   | 196                     | 326                       | 1801              | 0.436 | 785                 | 569                             | 0.6               | 0.8             | 3.686     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 921                       | 1377              | 0.210 | 288                 | 189                             | 0.2               | 0.3             | 3.458     | A                             |
| C - Wllton Site Access                  | 13                    | 3                       | 1193                      | 1510              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.600     | A                             |
| D - A1085 S                             | 1176                  | 294                     | 132                       | 1919              | 0.613 | 1174                | 1073                            | 1.1               | 1.7             | 5.218     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1240                      | 1133              | 0.000 | 0                   | 65                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 165                   | 41                      | 730                       | 2141              | 0.077 | 164                 | 510                             | 0.1               | 0.1             | 2.497     | A                             |

### 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 962                   | 241                     | 399                       | 1766              | 0.545 | 961                 | 695                             | 0.8               | 1.2             | 4.645     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1128                      | 1280              | 0.276 | 353                 | 231                             | 0.3               | 0.4             | 4.057     | A                             |
| C - Wllton Site Access                  | 15                    | 4                       | 1460                      | 1370              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.980     | A                             |
| D - A1085 S                             | 1440                  | 360                     | 162                       | 1905              | 0.756 | 1434                | 1314                            | 1.7               | 3.2             | 8.178     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1515                      | 1013              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 201                   | 50                      | 893                       | 2047              | 0.098 | 201                 | 623                             | 0.1               | 0.1             | 2.674     | A                             |

### 08:30 - 08:45

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 962                   | 241                     | 400                       | 1766              | 0.545 | 962                 | 698                             | 1.2               | 1.2             | 4.668     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1130                      | 1280              | 0.276 | 353                 | 232                             | 0.4               | 0.4             | 4.064     | A                             |
| C - Wllton Site Access                  | 15                    | 4                       | 1462                      | 1369              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.983     | A                             |
| D - A1085 S                             | 1440                  | 360                     | 162                       | 1905              | 0.756 | 1440                | 1316                            | 3.2               | 3.3             | 8.384     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1521                      | 1010              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 201                   | 50                      | 896                       | 2045              | 0.099 | 201                 | 625                             | 0.1               | 0.1             | 2.677     | A                             |

### 08:45 - 09:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 786                   | 196                     | 327                       | 1801              | 0.436 | 787                 | 573                             | 1.2               | 0.8             | 3.707     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 924                       | 1376              | 0.210 | 289                 | 191                             | 0.4               | 0.3             | 3.468     | A                             |
| C - Wllton Site Access                  | 13                    | 3                       | 1196                      | 1508              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.604     | A                             |
| D - A1085 S                             | 1176                  | 294                     | 132                       | 1919              | 0.613 | 1182                | 1076                            | 3.3               | 1.7             | 5.340     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1249                      | 1130              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 165                   | 41                      | 736                       | 2138              | 0.077 | 165                 | 513                             | 0.1               | 0.1             | 2.501     | A                             |

### 09:00 - 09:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 658                   | 164                     | 274                       | 1827              | 0.360 | 659                 | 478                             | 0.8               | 0.6             | 3.216     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 773                       | 1446              | 0.167 | 242                 | 159                             | 0.3               | 0.2             | 3.126     | A                             |
| C - Wllton Site Access                  | 11                    | 3                       | 1001                      | 1610              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.372     | A                             |
| D - A1085 S                             | 985                   | 246                     | 111                       | 1930              | 0.510 | 987                 | 901                             | 1.7               | 1.1             | 4.151     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1043                      | 1220              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 138                   | 34                      | 614                       | 2207              | 0.062 | 138                 | 429                             | 0.1               | 0.1             | 2.385     | A                             |

# 2024 Base + Committed + Development Peak of Construction, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 7 03               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D14 | 2024 Base + Committed + Development Peak of Construction | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D10 + D12    |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 510                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 183                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 38                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1425                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 73                      | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 710                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                         |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|-------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Willton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 0                       | 473         | 0                                       | 25              |
|      | B - W Coatham Ln                        | 35          | 0                | 2                       | 144         | 0                                       | 2               |
|      | C - Willton Site Access                 | 3           | 8                | 0                       | 26          | 0                                       | 1               |
|      | D - A1085 S                             | 973         | 317              | 5                       | 0           | 3                                       | 127             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                       | 73          | 0                                       | 0               |
|      | F - Site Access                         | 136         | 0                | 0                       | 574         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                         |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|-------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Willton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 25               | 0                       | 3           | 0                                       | 21              |
|      | B - W Coatham Ln                        | 0           | 0                | 0                       | 5           | 0                                       | 0               |
|      | C - Willton Site Access                 | 0           | 0                | 0                       | 16          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 36                      | 0           | 100                                     | 42              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                       | 4           | 0                                       | 0               |
|      | F - Site Access                         | 3           | 0                | 0                       | 8           | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.39    | 4.29          | 0.7             | A       | 468                     | 702                           |
| B - W Coatham Ln                        | 0.17    | 3.69          | 0.2             | A       | 168                     | 252                           |
| C - Willton Site Access                 | 0.03    | 2.99          | 0.0             | A       | 35                      | 52                            |
| D - A1085 S                             | 0.81    | 10.03         | 4.3             | B       | 1308                    | 1961                          |
| E - Mini Chef Stop (York Potash Access) | 0.08    | 4.28          | 0.1             | A       | 67                      | 100                           |
| F - Site Access                         | 0.47    | 4.34          | 0.9             | A       | 652                     | 977                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 384                   | 96                      | 733                       | 1604              | 0.239 | 383                 | 860                             | 0.0               | 0.3             | 3.072     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 863                       | 1404              | 0.098 | 137                 | 253                             | 0.0               | 0.1             | 2.952     | A                             |
| C - Willton Site Access                 | 29                    | 7                       | 995                       | 1613              | 0.018 | 29                  | 5                               | 0.0               | 0.0             | 2.502     | A                             |
| D - A1085 S                             | 1073                  | 268                     | 56                        | 1957              | 0.548 | 1068                | 968                             | 0.0               | 1.3             | 4.226     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1121                      | 1185              | 0.046 | 55                  | 2                               | 0.0               | 0.1             | 3.311     | A                             |
| F - Site Access                         | 535                   | 134                     | 1060                      | 1951              | 0.274 | 533                 | 116                             | 0.0               | 0.4             | 2.705     | A                             |

**17:00 - 17:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 458                   | 115                     | 877                       | 1534              | 0.299 | 458                 | 1029                            | 0.3               | 0.4             | 3.488     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 1033                      | 1325              | 0.124 | 164                 | 302                             | 0.1               | 0.1             | 3.222     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1191                      | 1511              | 0.023 | 34                  | 6                               | 0.0               | 0.0             | 2.685     | A                             |
| D - A1085 S                             | 1281                  | 320                     | 66                        | 1951              | 0.657 | 1278                | 1159                            | 1.3               | 2.0             | 5.587     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1342                      | 1089              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.658     | A                             |
| F - Site Access                         | 638                   | 160                     | 1268                      | 1831              | 0.349 | 638                 | 139                             | 0.4               | 0.6             | 3.215     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 1072                      | 1439              | 0.390 | 561                 | 1257                            | 0.4               | 0.7             | 4.270     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1264                      | 1217              | 0.166 | 201                 | 369                             | 0.1               | 0.2             | 3.683     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1458                      | 1371              | 0.031 | 42                  | 8                               | 0.0               | 0.0             | 2.983     | A                             |
| D - A1085 S                             | 1569                  | 392                     | 81                        | 1944              | 0.807 | 1560                | 1418                            | 2.0               | 4.2             | 9.622     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1638                      | 959               | 0.084 | 80                  | 3                               | 0.1               | 0.1             | 4.260     | A                             |
| F - Site Access                         | 782                   | 195                     | 1549                      | 1670              | 0.468 | 780                 | 170                             | 0.6               | 0.9             | 4.308     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 1076                      | 1438              | 0.391 | 562                 | 1263                            | 0.7               | 0.7             | 4.285     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1266                      | 1216              | 0.166 | 201                 | 371                             | 0.2               | 0.2             | 3.687     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1460                      | 1370              | 0.031 | 42                  | 8                               | 0.0               | 0.0             | 2.986     | A                             |
| D - A1085 S                             | 1569                  | 392                     | 81                        | 1944              | 0.807 | 1569                | 1420                            | 4.2               | 4.3             | 10.026    | B                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1647                      | 955               | 0.084 | 80                  | 3                               | 0.1               | 0.1             | 4.278     | A                             |
| F - Site Access                         | 782                   | 195                     | 1556                      | 1666              | 0.469 | 782                 | 171                             | 0.9               | 0.9             | 4.343     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 458                   | 115                     | 882                       | 1532              | 0.299 | 459                 | 1038                            | 0.7               | 0.4             | 3.503     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 1036                      | 1323              | 0.124 | 165                 | 305                             | 0.2               | 0.1             | 3.230     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1194                      | 1509              | 0.023 | 34                  | 6                               | 0.0               | 0.0             | 2.691     | A                             |
| D - A1085 S                             | 1281                  | 320                     | 67                        | 1951              | 0.657 | 1290                | 1162                            | 4.3               | 2.0             | 5.787     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1354                      | 1084              | 0.061 | 66                  | 3                               | 0.1               | 0.1             | 3.677     | A                             |
| F - Site Access                         | 638                   | 160                     | 1279                      | 1825              | 0.350 | 640                 | 140                             | 0.9               | 0.6             | 3.245     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 384                   | 96                      | 737                       | 1602              | 0.240 | 384                 | 866                             | 0.4               | 0.3             | 3.087     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 867                       | 1403              | 0.098 | 138                 | 254                             | 0.1               | 0.1             | 2.959     | A                             |
| C - Wllton Site Access                  | 29                    | 7                       | 999                       | 1611              | 0.018 | 29                  | 5                               | 0.0               | 0.0             | 2.506     | A                             |
| D - A1085 S                             | 1073                  | 268                     | 56                        | 1956              | 0.548 | 1076                | 972                             | 2.0               | 1.3             | 4.304     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1129                      | 1182              | 0.047 | 55                  | 2                               | 0.1               | 0.1             | 3.322     | A                             |
| F - Site Access                         | 535                   | 134                     | 1067                      | 1947              | 0.275 | 535                 | 117                             | 0.6               | 0.4             | 2.722     | A                             |

# Junctions 9

## ARCADY 9 - Roundabout Module

Version: 9.5.1.7462

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The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Junction 1 April 2020\_rev1.j9

Path: K:\Transport Projects\60559231 - Teeside Carbon Capture Project\DCO\Modelling\Junction 1

Report generation date: 28/04/2021 09:18:53

»2019 Base, AM

»2019 Base, PM

»2024 Base + Committed, AM

»2024 Base + Committed, PM

»2024 Base + Committed + Development Peak of Construction, AM

»2024 Base + Committed + Development Peak of Construction, PM

### Summary of junction performance

|                                                          | AM          |           |      |     | PM          |           |      |     |
|----------------------------------------------------------|-------------|-----------|------|-----|-------------|-----------|------|-----|
|                                                          | Queue (PCU) | Delay (s) | RFC  | LOS | Queue (PCU) | Delay (s) | RFC  | LOS |
| 2019 Base                                                |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 0.6         | 3.21      | 0.37 | A   | 0.3         | 2.78      | 0.25 | A   |
| B - W Coatham Ln                                         | 0.3         | 3.30      | 0.23 | A   | 0.1         | 2.68      | 0.12 | A   |
| C - Willton Site Access                                  | 0.0         | 3.26      | 0.01 | A   | 0.0         | 2.21      | 0.01 | A   |
| D - A1085 S                                              | 0.7         | 3.30      | 0.40 | A   | 1.8         | 5.30      | 0.64 | A   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.0         | 0.00      | 0.00 | A   |
| F - Site Access                                          | 0.0         | 2.81      | 0.01 | A   | 0.0         | 2.72      | 0.02 | A   |
| 2024 Base + Committed                                    |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 1.2         | 4.57      | 0.54 | A   | 0.6         | 3.95      | 0.37 | A   |
| B - W Coatham Ln                                         | 0.4         | 4.02      | 0.27 | A   | 0.2         | 3.45      | 0.16 | A   |
| C - Willton Site Access                                  | 0.0         | 3.95      | 0.01 | A   | 0.0         | 2.82      | 0.03 | A   |
| D - A1085 S                                              | 3.0         | 7.80      | 0.74 | A   | 4.0         | 9.49      | 0.80 | A   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.1         | 4.22      | 0.08 | A   |
| F - Site Access                                          | 0.1         | 2.74      | 0.09 | A   | 0.6         | 3.65      | 0.35 | A   |
| 2024 Base + Committed + Development Peak of Construction |             |           |      |     |             |           |      |     |
| A - A1085 N                                              | 1.2         | 4.67      | 0.55 | A   | 0.7         | 4.29      | 0.39 | A   |
| B - W Coatham Ln                                         | 0.4         | 4.06      | 0.28 | A   | 0.2         | 3.69      | 0.17 | A   |
| C - Willton Site Access                                  | 0.0         | 3.98      | 0.01 | A   | 0.0         | 2.99      | 0.03 | A   |
| D - A1085 S                                              | 3.3         | 8.38      | 0.76 | A   | 4.3         | 10.03     | 0.81 | B   |
| E - Mini Chef Stop (York Potash Access)                  | 0.0         | 0.00      | 0.00 | A   | 0.1         | 4.28      | 0.08 | A   |
| F - Site Access                                          | 0.1         | 2.68      | 0.10 | A   | 0.9         | 4.34      | 0.47 | A   |

There are warnings associated with one or more model runs - see the Data Errors and Warnings tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

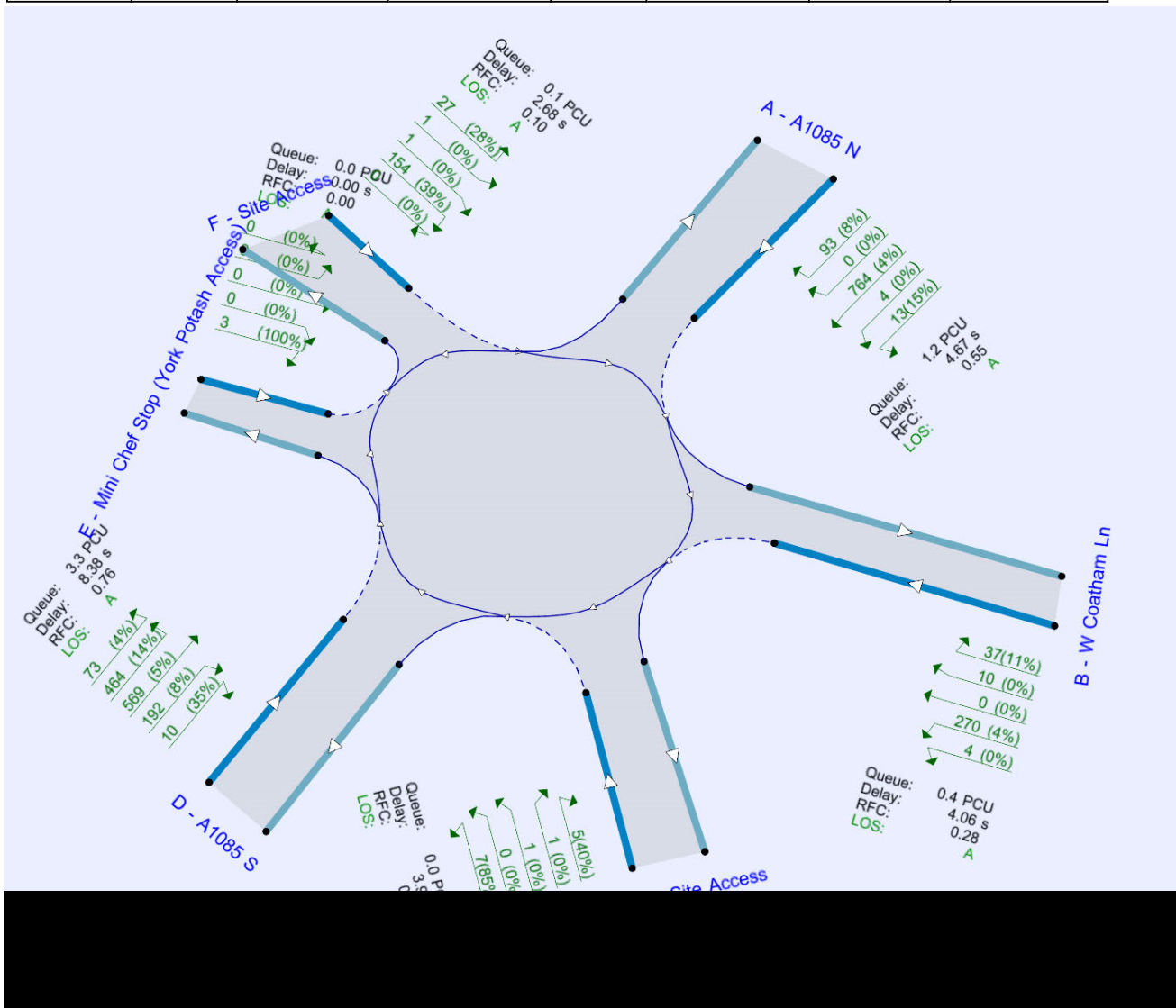
## File summary

### File Description

| Title       | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout |
|-------------|-----------------------------------------------------------------|
| Location    |                                                                 |
| Site number |                                                                 |
| Date        | 17/12/2020                                                      |
| Version     |                                                                 |
| Status      | (new file)                                                      |
| Identifier  |                                                                 |
| Client      |                                                                 |
| Jobnumber   |                                                                 |
| Enumerator  | JC                                                              |
| Description |                                                                 |

## Units

| Distance units | Speed units | Traffic units input | Traffic units results | Flow units | Average delay units | Total delay units | Rate of delay units |
|----------------|-------------|---------------------|-----------------------|------------|---------------------|-------------------|---------------------|
| m              | kph         | PCU                 | PCU                   | perHour    | s                   | -Min              | perMin              |



The junction diagram reflects the last run of Junctions.

## Analysis Options

| Vehicle length (m) | Calculate Queue Percentiles | Calculate detailed queueing delay | Calculate residual capacity | RFC Threshold | Average Delay threshold (s) | Queue threshold (PCU) |
|--------------------|-----------------------------|-----------------------------------|-----------------------------|---------------|-----------------------------|-----------------------|
| 5.75               |                             |                                   |                             | 0.85          | 36.00                       | 20 00                 |

## Demand Set Summary

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D1  | 2019 Base                                                | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |                   |              |
| D2  | 2019 Base                                                | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |                   |              |
| D3  | 2024 Base                                                | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D4  | 2024 Base                                                | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D5  | Committed Development (exc. York Potash)                 | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D6  | Committed Development (exc. York Potash)                 | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D7  | York Potash                                              | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D8  | York Potash                                              | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D9  | 2024 Base + Committed                                    | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D3 + D5 + D7 |
| D10 | 2024 Base + Committed                                    | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D4 + D6 + D8 |
| D11 | Development Flows                                        | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        |                   |                   |              |
| D12 | Development Flows                                        | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        |                   |                   |              |
| D13 | 2024 Base + Committed + Development Peak of Construction | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D9 + D11     |
| D14 | 2024 Base + Committed + Development Peak of Construction | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D10 + D12    |

## Analysis Set Details

| ID | Include in report | Network flow scaling factor (%) | Network capacity scaling factor (%) |
|----|-------------------|---------------------------------|-------------------------------------|
| A1 | ✓                 | 100.000                         | 100.000                             |

# 2019 Base, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 3 26               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Arms

### Arms

| Arm | Name                                | Description |
|-----|-------------------------------------|-------------|
| A   | A1085 N                             |             |
| B   | W Coatham Ln                        |             |
| C   | Wilton Site Access                  |             |
| D   | A1085 S                             |             |
| E   | Mini Chef Stop (York Potash Access) |             |
| F   | Site Access                         |             |

### Roundabout Geometry

| Arm                                     | V - Approach road half-width (m) | E - Entry width (m) | I' - Effective flare length (m) | R - Entry radius (m) | D - Inscribed circle diameter (m) | PHI - Conflict (entry) angle (deg) | Exit only |
|-----------------------------------------|----------------------------------|---------------------|---------------------------------|----------------------|-----------------------------------|------------------------------------|-----------|
| A - A1085 N                             | 6.49                             | 6.50                | 4.9                             | 15.2                 | 99.4                              | 27 0                               |           |
| B - W Coatham Ln                        | 4.53                             | 7.68                | 7.6                             | 21.7                 | 99.4                              | 27 0                               |           |
| C - Wilton Site Access                  | 6.38                             | 6.82                | 2.0                             | 20.1                 | 99.4                              | 12 5                               |           |
| D - A1085 S                             | 6.45                             | 6.67                | 5.5                             | 12.6                 | 99.4                              | 26 0                               |           |
| E - Mini Chef Stop (York Potash Access) | 4.46                             | 12.00               | 5.1                             | 12.1                 | 99.4                              | 33 0                               |           |
| F - Site Access                         | 7.53                             | 9.64                | 3.6                             | 12.5                 | 99.4                              | 15 0                               |           |

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

| Arm                                     | Final slope | Final intercept (PCU/hr) |
|-----------------------------------------|-------------|--------------------------|
| A - A1085 N                             | 0.485       | 1960                     |
| B - W Coatham Ln                        | 0.468       | 1808                     |
| C - Wilton Site Access                  | 0.524       | 2134                     |
| D - A1085 S                             | 0.486       | 1984                     |
| E - Mini Chef Stop (York Potash Access) | 0.438       | 1676                     |
| F - Site Access                         | 0.575       | 2561                     |

The slope and intercept shown above include any corrections and adjustments.

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D1 | 2019 Base     | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 625                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 307                     | 100.000            |
| C - Wllton Site Access                  |            | ONE HOUR     | ✓            | 12                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 715                     | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 0                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 19                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 4                      | 606         | 0                                       | 3               |
|      | B - W Coatham Ln                        | 35          | 0                | 4                      | 258         | 0                                       | 10              |
|      | C - Wllton Site Access                  | 1           | 5                | 0                      | 5           | 0                                       | 1               |
|      | D - A1085 S                             | 483         | 183              | 8                      | 0           | 0                                       | 41              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 1                | 1                      | 17          | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 17               | 0                      | 3           | 0                                       | 0               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wllton Site Access                  | 0           | 40               | 0                      | 80          | 0                                       | 0               |
|      | D - A1085 S                             | 4           | 8                | 25                     | 0           | 0                                       | 49              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 0                | 0                      | 76          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.37    | 3.21          | 0.6             | A       | 574                     | 860                           |
| B - W Coatham Ln                        | 0.23    | 3.30          | 0.3             | A       | 282                     | 423                           |
| C - Wilton Site Access                  | 0.01    | 3.26          | 0.0             | A       | 11                      | 17                            |
| D - A1085 S                             | 0.40    | 3.30          | 0.7             | A       | 656                     | 984                           |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.01    | 2.81          | 0.0             | A       | 17                      | 26                            |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 471                   | 118                     | 161                       | 1881              | 0.250 | 469                 | 390                             | 0.0               | 0.3             | 2.628     | A                             |
| B - W Coatham Ln                        | 231                   | 58                      | 480                       | 1584              | 0.146 | 230                 | 151                             | 0.0               | 0.2             | 2.780     | A                             |
| C - Wilton Site Access                  | 9                     | 2                       | 697                       | 1769              | 0.005 | 9                   | 13                              | 0.0               | 0.0             | 2.939     | A                             |
| D - A1085 S                             | 538                   | 135                     | 41                        | 1963              | 0.274 | 537                 | 665                             | 0.0               | 0.4             | 2.699     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 578                       | 1423              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 14                    | 4                       | 537                       | 2252              | 0.006 | 14                  | 41                              | 0.0               | 0.0             | 2.621     | A                             |

#### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 193                       | 1866              | 0.301 | 561                 | 466                             | 0.3               | 0.4             | 2.848     | A                             |
| B - W Coatham Ln                        | 276                   | 69                      | 574                       | 1540              | 0.179 | 276                 | 181                             | 0.2               | 0.2             | 2.978     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 835                       | 1697              | 0.006 | 11                  | 15                              | 0.0               | 0.0             | 3.067     | A                             |
| D - A1085 S                             | 643                   | 161                     | 49                        | 1960              | 0.328 | 642                 | 796                             | 0.4               | 0.5             | 2.926     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 692                       | 1373              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 17                    | 4                       | 642                       | 2191              | 0.008 | 17                  | 49                              | 0.0               | 0.0             | 2.697     | A                             |

#### 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 688                   | 172                     | 236                       | 1845              | 0.373 | 687                 | 571                             | 0.4               | 0.6             | 3.208     | A                             |
| B - W Coatham Ln                        | 338                   | 85                      | 703                       | 1479              | 0.229 | 338                 | 221                             | 0.2               | 0.3             | 3.297     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1022                      | 1599              | 0.008 | 13                  | 19                              | 0.0               | 0.0             | 3.262     | A                             |
| D - A1085 S                             | 787                   | 197                     | 60                        | 1954              | 0.403 | 786                 | 975                             | 0.5               | 0.7             | 3.299     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 847                       | 1305              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 21                    | 5                       | 786                       | 2108              | 0.010 | 21                  | 60                              | 0.0               | 0.0             | 2.809     | A                             |

**08:30 - 08:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 688                   | 172                     | 237                       | 1845              | 0.373 | 688                 | 571                             | 0.6               | 0.6             | 3.211     | A                             |
| B - W Coatham Ln                        | 338                   | 85                      | 704                       | 1479              | 0.229 | 338                 | 221                             | 0.3               | 0.3             | 3.298     | A                             |
| C - Wllton Site Access                  | 13                    | 3                       | 1023                      | 1599              | 0.008 | 13                  | 19                              | 0.0               | 0.0             | 3.263     | A                             |
| D - A1085 S                             | 787                   | 197                     | 61                        | 1954              | 0.403 | 787                 | 975                             | 0.7               | 0.7             | 3.302     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 848                       | 1305              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 21                    | 5                       | 787                       | 2108              | 0.010 | 21                  | 61                              | 0.0               | 0.0             | 2.810     | A                             |

**08:45 - 09:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 194                       | 1866              | 0.301 | 563                 | 467                             | 0.6               | 0.4             | 2.854     | A                             |
| B - W Coatham Ln                        | 276                   | 69                      | 575                       | 1539              | 0.179 | 276                 | 181                             | 0.3               | 0.2             | 2.981     | A                             |
| C - Wllton Site Access                  | 11                    | 3                       | 836                       | 1696              | 0.006 | 11                  | 15                              | 0.0               | 0.0             | 3.069     | A                             |
| D - A1085 S                             | 643                   | 161                     | 50                        | 1959              | 0.328 | 644                 | 797                             | 0.7               | 0.5             | 2.932     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 693                       | 1373              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 17                    | 4                       | 644                       | 2191              | 0.008 | 17                  | 50                              | 0.0               | 0.0             | 2.700     | A                             |

**09:00 - 09:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 471                   | 118                     | 162                       | 1881              | 0.250 | 471                 | 391                             | 0.4               | 0.3             | 2.635     | A                             |
| B - W Coatham Ln                        | 231                   | 58                      | 481                       | 1583              | 0.146 | 231                 | 151                             | 0.2               | 0.2             | 2.787     | A                             |
| C - Wllton Site Access                  | 9                     | 2                       | 700                       | 1768              | 0.005 | 9                   | 13                              | 0.0               | 0.0             | 2.944     | A                             |
| D - A1085 S                             | 538                   | 135                     | 41                        | 1963              | 0.274 | 539                 | 668                             | 0.5               | 0.4             | 2.705     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 580                       | 1422              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 14                    | 4                       | 539                       | 2251              | 0.006 | 14                  | 41                              | 0.0               | 0.0             | 2.624     | A                             |

# 2019 Base, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 4 38               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID | Scenario name | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically |
|----|---------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|
| D2 | 2019 Base     | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 410                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 175                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 22                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1146                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 0                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 34                      | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 11               | 0                      | 397         | 0                                       | 2               |
|      | B - W Coatham Ln                        | 33          | 0                | 2                      | 138         | 0                                       | 2               |
|      | C - Wilton Site Access                  | 3           | 8                | 0                      | 10          | 0                                       | 1               |
|      | D - A1085 S                             | 827         | 303              | 1                      | 0           | 0                                       | 15              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 7           | 0                | 0                      | 27          | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 27               | 0                      | 2           | 0                                       | 0               |
|      | B - W Coatham Ln                        | 0           | 0                | 0                      | 5           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 0                | 0                      | 20          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 0                      | 0           | 0                                       | 93              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 0           | 0                                       | 0               |
|      | F - Site Access                         | 0           | 0                | 0                      | 48          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.25    | 2.78          | 0.3             | A       | 376                     | 564                           |
| B - W Coatham Ln                        | 0.12    | 2.68          | 0.1             | A       | 161                     | 241                           |
| C - Wilton Site Access                  | 0.01    | 2.21          | 0.0             | A       | 20                      | 30                            |
| D - A1085 S                             | 0.64    | 5.30          | 1.8             | A       | 1052                    | 1577                          |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.02    | 2.72          | 0.0             | A       | 31                      | 47                            |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 309                   | 77                      | 254                       | 1836              | 0.168 | 308                 | 653                             | 0.0               | 0.2             | 2.414     | A                             |
| B - W Coatham Ln                        | 132                   | 33                      | 321                       | 1658              | 0.079 | 131                 | 242                             | 0.0               | 0.1             | 2.449     | A                             |
| C - Wilton Site Access                  | 17                    | 4                       | 450                       | 1899              | 0.009 | 17                  | 2                               | 0.0               | 0.0             | 2.069     | A                             |
| D - A1085 S                             | 863                   | 216                     | 37                        | 1966              | 0.439 | 860                 | 429                             | 0.0               | 0.8             | 3.324     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 896                       | 1284              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 26                    | 6                       | 881                       | 2054              | 0.012 | 26                  | 15                              | 0.0               | 0.0             | 2.390     | A                             |

#### 17:00 - 17:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 369                   | 92                      | 304                       | 1812              | 0.203 | 368                 | 781                             | 0.2               | 0.3             | 2.556     | A                             |
| B - W Coatham Ln                        | 157                   | 39                      | 384                       | 1629              | 0.097 | 157                 | 289                             | 0.1               | 0.1             | 2.541     | A                             |
| C - Wilton Site Access                  | 20                    | 5                       | 538                       | 1852              | 0.011 | 20                  | 3                               | 0.0               | 0.0             | 2.125     | A                             |
| D - A1085 S                             | 1030                  | 258                     | 44                        | 1962              | 0.525 | 1029                | 514                             | 0.8               | 1.1             | 3.945     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1073                      | 1206              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 31                    | 8                       | 1055                      | 1954              | 0.016 | 31                  | 18                              | 0.0               | 0.0             | 2.520     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 451                   | 113                     | 372                       | 1779              | 0.254 | 451                 | 956                             | 0.3               | 0.3             | 2.780     | A                             |
| B - W Coatham Ln                        | 193                   | 48                      | 470                       | 1588              | 0.121 | 193                 | 354                             | 0.1               | 0.1             | 2.679     | A                             |
| C - Wlton Site Access                   | 24                    | 6                       | 659                       | 1789              | 0.014 | 24                  | 3                               | 0.0               | 0.0             | 2.206     | A                             |
| D - A1085 S                             | 1262                  | 315                     | 54                        | 1957              | 0.645 | 1259                | 629                             | 1.1               | 1.8             | 5.258     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1313                      | 1101              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 37                    | 9                       | 1291                      | 1818              | 0.021 | 37                  | 22                              | 0.0               | 0.0             | 2.722     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 451                   | 113                     | 373                       | 1778              | 0.254 | 451                 | 958                             | 0.3               | 0.3             | 2.780     | A                             |
| B - W Coatham Ln                        | 193                   | 48                      | 470                       | 1588              | 0.121 | 193                 | 355                             | 0.1               | 0.1             | 2.679     | A                             |
| C - Wlton Site Access                   | 24                    | 6                       | 660                       | 1789              | 0.014 | 24                  | 3                               | 0.0               | 0.0             | 2.207     | A                             |
| D - A1085 S                             | 1262                  | 315                     | 54                        | 1957              | 0.645 | 1262                | 630                             | 1.8               | 1.8             | 5.300     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1316                      | 1100              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 37                    | 9                       | 1294                      | 1817              | 0.021 | 37                  | 22                              | 0.0               | 0.0             | 2.724     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 369                   | 92                      | 306                       | 1811              | 0.203 | 369                 | 784                             | 0.3               | 0.3             | 2.561     | A                             |
| B - W Coatham Ln                        | 157                   | 39                      | 384                       | 1628              | 0.097 | 157                 | 290                             | 0.1               | 0.1             | 2.544     | A                             |
| C - Wlton Site Access                   | 20                    | 5                       | 539                       | 1852              | 0.011 | 20                  | 3                               | 0.0               | 0.0             | 2.127     | A                             |
| D - A1085 S                             | 1030                  | 258                     | 44                        | 1962              | 0.525 | 1033                | 515                             | 1.8               | 1.1             | 3.980     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1077                      | 1205              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 31                    | 8                       | 1059                      | 1952              | 0.016 | 31                  | 18                              | 0.0               | 0.0             | 2.523     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 309                   | 77                      | 256                       | 1836              | 0.168 | 309                 | 656                             | 0.3               | 0.2             | 2.419     | A                             |
| B - W Coatham Ln                        | 132                   | 33                      | 322                       | 1658              | 0.079 | 132                 | 243                             | 0.1               | 0.1             | 2.452     | A                             |
| C - Wlton Site Access                   | 17                    | 4                       | 451                       | 1898              | 0.009 | 17                  | 2                               | 0.0               | 0.0             | 2.071     | A                             |
| D - A1085 S                             | 863                   | 216                     | 37                        | 1966              | 0.439 | 864                 | 431                             | 1.1               | 0.8             | 3.353     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 901                       | 1282              | 0.000 | 0                   | 0                               | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 26                    | 6                       | 886                       | 2051              | 0.012 | 26                  | 15                              | 0.0               | 0.0             | 2.395     | A                             |

# 2024 Base + Committed, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 5 94               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID | Scenario name         | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|----|-----------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D9 | 2024 Base + Committed | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D3 + D5 + D7 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 864                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 321                     | 100.000            |
| C - Wllton Site Access                  |            | ONE HOUR     | ✓            | 14                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1280                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 3                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 168                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 13               | 4                      | 764         | 0                                       | 83              |
|      | B - W Coatham Ln                        | 37          | 0                | 4                      | 270         | 0                                       | 10              |
|      | C - Wllton Site Access                  | 1           | 5                | 0                      | 7           | 0                                       | 1               |
|      | D - A1085 S                             | 569         | 192              | 10                     | 0           | 73                                      | 436             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 3           | 0                                       | 0               |
|      | F - Site Access                         | 23          | 1                | 1                      | 143         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 15               | 0                      | 4           | 0                                       | 9               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 40               | 0                      | 85          | 0                                       | 0               |
|      | D - A1085 S                             | 5           | 8                | 35                     | 0           | 4                                       | 15              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 100         | 0                                       | 0               |
|      | F - Site Access                         | 35          | 0                | 0                      | 44          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.54    | 4.57          | 1.2             | A       | 793                     | 1189                          |
| B - W Coatham Ln                        | 0.27    | 4.02          | 0.4             | A       | 295                     | 442                           |
| C - Wilton Site Access                  | 0.01    | 3.95          | 0.0             | A       | 13                      | 19                            |
| D - A1085 S                             | 0.74    | 7.80          | 3.0             | A       | 1175                    | 1762                          |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.09    | 2.74          | 0.1             | A       | 154                     | 231                           |

### Main Results for each time segment

#### 07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 650                   | 163                     | 264                       | 1831              | 0.355 | 648                 | 472                             | 0.0               | 0.6             | 3.167     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 754                       | 1455              | 0.166 | 241                 | 158                             | 0.0               | 0.2             | 3.098     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 981                       | 1621              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.347     | A                             |
| D - A1085 S                             | 964                   | 241                     | 103                       | 1934              | 0.498 | 959                 | 888                             | 0.0               | 1.1             | 3.996     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1007                      | 1235              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 126                   | 32                      | 610                       | 2210              | 0.057 | 126                 | 397                             | 0.0               | 0.1             | 2.450     | A                             |

#### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 777                   | 194                     | 316                       | 1806              | 0.430 | 776                 | 565                             | 0.6               | 0.8             | 3.638     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 903                       | 1386              | 0.208 | 288                 | 189                             | 0.2               | 0.3             | 3.430     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1174                      | 1519              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.576     | A                             |
| D - A1085 S                             | 1151                  | 288                     | 123                       | 1924              | 0.598 | 1149                | 1063                            | 1.1               | 1.6             | 5.030     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1206                      | 1148              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 151                   | 38                      | 730                       | 2141              | 0.071 | 151                 | 476                             | 0.1               | 0.1             | 2.566     | A                             |

## 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 951                   | 238                     | 387                       | 1772              | 0.537 | 950                 | 691                             | 0.8               | 1.2             | 4.554     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1105                      | 1291              | 0.274 | 353                 | 231                             | 0.3               | 0.4             | 4.011     | A                             |
| C - Wllton Site Access                  | 15                    | 4                       | 1437                      | 1382              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.945     | A                             |
| D - A1085 S                             | 1409                  | 352                     | 151                       | 1910              | 0.738 | 1404                | 1302                            | 1.6               | 3.0             | 7.638     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1474                      | 1031              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 185                   | 46                      | 893                       | 2047              | 0.090 | 185                 | 582                             | 0.1               | 0.1             | 2.741     | A                             |

## 08:30 - 08:45

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 951                   | 238                     | 388                       | 1772              | 0.537 | 951                 | 694                             | 1.2               | 1.2             | 4.574     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1106                      | 1290              | 0.274 | 353                 | 232                             | 0.4               | 0.4             | 4.017     | A                             |
| C - Wllton Site Access                  | 15                    | 4                       | 1439                      | 1381              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.948     | A                             |
| D - A1085 S                             | 1409                  | 352                     | 151                       | 1910              | 0.738 | 1409                | 1304                            | 3.0               | 3.0             | 7.795     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1480                      | 1029              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 185                   | 46                      | 896                       | 2045              | 0.090 | 185                 | 583                             | 0.1               | 0.1             | 2.744     | A                             |

## 08:45 - 09:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 777                   | 194                     | 317                       | 1806              | 0.430 | 778                 | 569                             | 1.2               | 0.8             | 3.661     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 905                       | 1385              | 0.208 | 289                 | 191                             | 0.4               | 0.3             | 3.437     | A                             |
| C - Wllton Site Access                  | 13                    | 3                       | 1177                      | 1518              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.580     | A                             |
| D - A1085 S                             | 1151                  | 288                     | 123                       | 1924              | 0.598 | 1156                | 1066                            | 3.0               | 1.6             | 5.130     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1214                      | 1145              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 151                   | 38                      | 735                       | 2138              | 0.071 | 151                 | 478                             | 0.1               | 0.1             | 2.569     | A                             |

## 09:00 - 09:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 650                   | 163                     | 265                       | 1831              | 0.355 | 651                 | 475                             | 0.8               | 0.6             | 3.183     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 758                       | 1454              | 0.166 | 242                 | 159                             | 0.3               | 0.2             | 3.106     | A                             |
| C - Wllton Site Access                  | 11                    | 3                       | 985                       | 1618              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.352     | A                             |
| D - A1085 S                             | 964                   | 241                     | 103                       | 1933              | 0.498 | 966                 | 892                             | 1.6               | 1.1             | 4.050     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1014                      | 1232              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 126                   | 32                      | 614                       | 2208              | 0.057 | 127                 | 400                             | 0.1               | 0.1             | 2.453     | A                             |

# 2024 Base + Committed, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 6 69               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name         | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|-----------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D10 | 2024 Base + Committed | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D4 + D6 + D8 |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 504                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 183                     | 100.000            |
| C - Wllton Site Access                  |            | ONE HOUR     | ✓            | 38                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1408                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 73                      | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 537                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 0                      | 473         | 0                                       | 19              |
|      | B - W Coatham Ln                        | 35          | 0                | 2                      | 144         | 0                                       | 2               |
|      | C - Wllton Site Access                  | 3           | 8                | 0                      | 26          | 0                                       | 1               |
|      | D - A1085 S                             | 973         | 317              | 5                      | 0           | 3                                       | 110             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 73          | 0                                       | 0               |
|      | F - Site Access                         | 92          | 0                | 0                      | 445         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 25               | 0                      | 3           | 0                                       | 30              |
|      | B - W Coatham Ln                        | 0           | 0                | 0                      | 5           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 0                | 0                      | 16          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 36                     | 0           | 100                                     | 52              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 4           | 0                                       | 0               |
|      | F - Site Access                         | 5           | 0                | 0                      | 10          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.37    | 3.95          | 0.6             | A       | 462                     | 694                           |
| B - W Coatham Ln                        | 0.16    | 3.45          | 0.2             | A       | 168                     | 252                           |
| C - Wilton Site Access                  | 0.03    | 2.82          | 0.0             | A       | 35                      | 52                            |
| D - A1085 S                             | 0.80    | 9.49          | 4.0             | A       | 1292                    | 1938                          |
| E - Mini Chef Stop (York Potash Access) | 0.08    | 4.22          | 0.1             | A       | 67                      | 100                           |
| F - Site Access                         | 0.35    | 3.65          | 0.6             | A       | 493                     | 739                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 379                   | 95                      | 636                       | 1651              | 0.230 | 378                 | 827                             | 0.0               | 0.3             | 2.950     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 762                       | 1452              | 0.095 | 137                 | 253                             | 0.0               | 0.1             | 2.845     | A                             |
| C - Wilton Site Access                  | 29                    | 7                       | 894                       | 1666              | 0.017 | 29                  | 5                               | 0.0               | 0.0             | 2.421     | A                             |
| D - A1085 S                             | 1060                  | 265                     | 51                        | 1959              | 0.541 | 1055                | 871                             | 0.0               | 1.2             | 4.159     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1104                      | 1193              | 0.046 | 55                  | 2                               | 0.0               | 0.1             | 3.289     | A                             |
| F - Site Access                         | 404                   | 101                     | 1060                      | 1951              | 0.207 | 403                 | 99                              | 0.0               | 0.3             | 2.533     | A                             |

#### 17:00 - 17:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 453                   | 113                     | 761                       | 1590              | 0.285 | 453                 | 990                             | 0.3               | 0.4             | 3.303     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 912                       | 1382              | 0.119 | 164                 | 302                             | 0.1               | 0.1             | 3.072     | A                             |
| C - Wilton Site Access                  | 34                    | 9                       | 1070                      | 1574              | 0.022 | 34                  | 6                               | 0.0               | 0.0             | 2.575     | A                             |
| D - A1085 S                             | 1266                  | 316                     | 61                        | 1954              | 0.648 | 1263                | 1043                            | 1.2               | 1.9             | 5.447     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1321                      | 1098              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.626     | A                             |
| F - Site Access                         | 483                   | 121                     | 1269                      | 1831              | 0.264 | 482                 | 118                             | 0.3               | 0.4             | 2.909     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 555                   | 139                     | 931                       | 1508              | 0.368 | 554                 | 1209                            | 0.4               | 0.6             | 3.936     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1116                      | 1286              | 0.157 | 201                 | 369                             | 0.1               | 0.2             | 3.448     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1310                      | 1448              | 0.029 | 42                  | 8                               | 0.0               | 0.0             | 2.819     | A                             |
| D - A1085 S                             | 1550                  | 388                     | 75                        | 1947              | 0.796 | 1542                | 1277                            | 1.9               | 3.9             | 9.150     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1614                      | 970               | 0.083 | 80                  | 3                               | 0.1               | 0.1             | 4.208     | A                             |
| F - Site Access                         | 591                   | 148                     | 1549                      | 1670              | 0.354 | 590                 | 145                             | 0.4               | 0.6             | 3.634     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 555                   | 139                     | 934                       | 1507              | 0.368 | 555                 | 1214                            | 0.6               | 0.6             | 3.948     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1118                      | 1285              | 0.157 | 201                 | 371                             | 0.2               | 0.2             | 3.450     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1311                      | 1447              | 0.029 | 42                  | 8                               | 0.0               | 0.0             | 2.820     | A                             |
| D - A1085 S                             | 1550                  | 388                     | 75                        | 1947              | 0.796 | 1550                | 1278                            | 3.9               | 4.0             | 9.487     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1621                      | 966               | 0.083 | 80                  | 3                               | 0.1               | 0.1             | 4.224     | A                             |
| F - Site Access                         | 591                   | 148                     | 1557                      | 1666              | 0.355 | 591                 | 145                             | 0.6               | 0.6             | 3.651     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 453                   | 113                     | 765                       | 1588              | 0.285 | 454                 | 997                             | 0.6               | 0.4             | 3.315     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 914                       | 1380              | 0.119 | 165                 | 305                             | 0.2               | 0.1             | 3.078     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1072                      | 1573              | 0.022 | 34                  | 6                               | 0.0               | 0.0             | 2.577     | A                             |
| D - A1085 S                             | 1266                  | 316                     | 61                        | 1954              | 0.648 | 1274                | 1045                            | 4.0               | 2.0             | 5.624     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1332                      | 1093              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.644     | A                             |
| F - Site Access                         | 483                   | 121                     | 1279                      | 1825              | 0.264 | 484                 | 119                             | 0.6               | 0.4             | 2.927     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 379                   | 95                      | 639                       | 1649              | 0.230 | 380                 | 832                             | 0.4               | 0.3             | 2.960     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 765                       | 1450              | 0.095 | 138                 | 254                             | 0.1               | 0.1             | 2.851     | A                             |
| C - Wllton Site Access                  | 29                    | 7                       | 898                       | 1664              | 0.017 | 29                  | 5                               | 0.0               | 0.0             | 2.424     | A                             |
| D - A1085 S                             | 1060                  | 265                     | 51                        | 1959              | 0.541 | 1063                | 875                             | 2.0               | 1.3             | 4.231     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1112                      | 1189              | 0.046 | 55                  | 2                               | 0.1               | 0.1             | 3.299     | A                             |
| F - Site Access                         | 404                   | 101                     | 1067                      | 1947              | 0.208 | 405                 | 100                             | 0.4               | 0.3             | 2.546     | A                             |

# 2024 Base + Committed + Development Peak of Construction, AM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 6 26               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D13 | 2024 Base + Committed + Development Peak of Construction | AM               | ONE HOUR             | 07:45              | 09:15               | 15                        | ✓                 | Simple            | D9 + D11     |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 874                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 321                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 14                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1308                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 3                       | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 183                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

| From | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
|      | A - A1085 N                             | 0           | 13               | 4                      | 764         | 0                                       | 93              |
|      | B - W Coatham Ln                        | 37          | 0                | 4                      | 270         | 0                                       | 10              |
|      | C - Wilton Site Access                  | 1           | 5                | 0                      | 7           | 0                                       | 1               |
|      | D - A1085 S                             | 569         | 192              | 10                     | 0           | 73                                      | 464             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 3           | 0                                       | 0               |
|      | F - Site Access                         | 27          | 1                | 1                      | 154         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

| From | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wilton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
|      | A - A1085 N                             | 0           | 15               | 0                      | 4           | 0                                       | 8               |
|      | B - W Coatham Ln                        | 11          | 0                | 0                      | 4           | 0                                       | 0               |
|      | C - Wilton Site Access                  | 0           | 40               | 0                      | 85          | 0                                       | 0               |
|      | D - A1085 S                             | 5           | 8                | 35                     | 0           | 4                                       | 14              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 100         | 0                                       | 0               |
|      | F - Site Access                         | 28          | 0                | 0                      | 39          | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.55    | 4.67          | 1.2             | A       | 802                     | 1203                          |
| B - W Coatham Ln                        | 0.28    | 4.06          | 0.4             | A       | 295                     | 442                           |
| C - Wilton Site Access                  | 0.01    | 3.98          | 0.0             | A       | 13                      | 19                            |
| D - A1085 S                             | 0.76    | 8.38          | 3.3             | A       | 1200                    | 1800                          |
| E - Mini Chef Stop (York Potash Access) | 0.00    | 0.00          | 0.0             | A       | 0                       | 0                             |
| F - Site Access                         | 0.10    | 2.68          | 0.1             | A       | 168                     | 252                           |

### Main Results for each time segment

07:45 - 08:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 658                   | 164                     | 272                       | 1827              | 0.360 | 656                 | 475                             | 0.0               | 0.6             | 3.194     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 770                       | 1448              | 0.167 | 241                 | 158                             | 0.0               | 0.2             | 3.117     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 996                       | 1612              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.364     | A                             |
| D - A1085 S                             | 985                   | 246                     | 110                       | 1930              | 0.510 | 980                 | 897                             | 0.0               | 1.1             | 4.092     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1036                      | 1223              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 138                   | 34                      | 610                       | 2210              | 0.062 | 137                 | 426                             | 0.0               | 0.1             | 2.382     | A                             |

### 08:00 - 08:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 786                   | 196                     | 326                       | 1801              | 0.436 | 785                 | 569                             | 0.6               | 0.8             | 3.686     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 921                       | 1377              | 0.210 | 288                 | 189                             | 0.2               | 0.3             | 3.458     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1193                      | 1510              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.600     | A                             |
| D - A1085 S                             | 1176                  | 294                     | 132                       | 1919              | 0.613 | 1174                | 1073                            | 1.1               | 1.7             | 5.218     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1240                      | 1133              | 0.000 | 0                   | 65                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 165                   | 41                      | 730                       | 2141              | 0.077 | 164                 | 510                             | 0.1               | 0.1             | 2.497     | A                             |

### 08:15 - 08:30

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 962                   | 241                     | 399                       | 1766              | 0.545 | 961                 | 695                             | 0.8               | 1.2             | 4.645     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1128                      | 1280              | 0.276 | 353                 | 231                             | 0.3               | 0.4             | 4.057     | A                             |
| C - Wilton Site Access                  | 15                    | 4                       | 1460                      | 1370              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.980     | A                             |
| D - A1085 S                             | 1440                  | 360                     | 162                       | 1905              | 0.756 | 1434                | 1314                            | 1.7               | 3.2             | 8.178     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1515                      | 1013              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 201                   | 50                      | 893                       | 2047              | 0.098 | 201                 | 623                             | 0.1               | 0.1             | 2.674     | A                             |

### 08:30 - 08:45

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 962                   | 241                     | 400                       | 1766              | 0.545 | 962                 | 698                             | 1.2               | 1.2             | 4.668     | A                             |
| B - W Coatham Ln                        | 353                   | 88                      | 1130                      | 1280              | 0.276 | 353                 | 232                             | 0.4               | 0.4             | 4.064     | A                             |
| C - Wilton Site Access                  | 15                    | 4                       | 1462                      | 1369              | 0.011 | 15                  | 21                              | 0.0               | 0.0             | 3.983     | A                             |
| D - A1085 S                             | 1440                  | 360                     | 162                       | 1905              | 0.756 | 1440                | 1316                            | 3.2               | 3.3             | 8.384     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1521                      | 1010              | 0.000 | 0                   | 80                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 201                   | 50                      | 896                       | 2045              | 0.099 | 201                 | 625                             | 0.1               | 0.1             | 2.677     | A                             |

### 08:45 - 09:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 786                   | 196                     | 327                       | 1801              | 0.436 | 787                 | 573                             | 1.2               | 0.8             | 3.707     | A                             |
| B - W Coatham Ln                        | 289                   | 72                      | 924                       | 1376              | 0.210 | 289                 | 191                             | 0.4               | 0.3             | 3.468     | A                             |
| C - Wilton Site Access                  | 13                    | 3                       | 1196                      | 1508              | 0.008 | 13                  | 17                              | 0.0               | 0.0             | 3.604     | A                             |
| D - A1085 S                             | 1176                  | 294                     | 132                       | 1919              | 0.613 | 1182                | 1076                            | 3.3               | 1.7             | 5.340     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1249                      | 1130              | 0.000 | 0                   | 66                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 165                   | 41                      | 736                       | 2138              | 0.077 | 165                 | 513                             | 0.1               | 0.1             | 2.501     | A                             |

### 09:00 - 09:15

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 658                   | 164                     | 274                       | 1827              | 0.360 | 659                 | 478                             | 0.8               | 0.6             | 3.216     | A                             |
| B - W Coatham Ln                        | 242                   | 60                      | 773                       | 1446              | 0.167 | 242                 | 159                             | 0.3               | 0.2             | 3.126     | A                             |
| C - Wilton Site Access                  | 11                    | 3                       | 1001                      | 1610              | 0.007 | 11                  | 14                              | 0.0               | 0.0             | 3.372     | A                             |
| D - A1085 S                             | 985                   | 246                     | 111                       | 1930              | 0.510 | 987                 | 901                             | 1.7               | 1.1             | 4.151     | A                             |
| E - Mini Chef Stop (York Potash Access) | 0                     | 0                       | 1043                      | 1220              | 0.000 | 0                   | 55                              | 0.0               | 0.0             | 0.000     | A                             |
| F - Site Access                         | 138                   | 34                      | 614                       | 2207              | 0.062 | 138                 | 429                             | 0.1               | 0.1             | 2.385     | A                             |

# 2024 Base + Committed + Development Peak of Construction, PM

## Data Errors and Warnings

| Severity | Area                    | Item                                                               | Description                                                        |
|----------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Warning  | Demand Set Relationship | D13 - 2024 Base + Committed + Development Peak of Construction, AM | Demand Set relationships are chained. This may slow down the file. |

## Junction Network

### Junctions

| Junction | Name                                                            | Junction type       | Use circulating lanes | Arm order        | Junction Delay (s) | Junction LOS |
|----------|-----------------------------------------------------------------|---------------------|-----------------------|------------------|--------------------|--------------|
| 1        | Junction 1 - A1085 / West Coatham Lane / Site Access Roundabout | Standard Roundabout |                       | A, B, C, D, E, F | 7 03               | A            |

### Junction Network Options

| Driving side | Lighting       |
|--------------|----------------|
| Left         | Normal/unknown |

## Traffic Demand

### Demand Set Details

| ID  | Scenario name                                            | Time Period name | Traffic profile type | Start time (HH mm) | Finish time (HH mm) | Time segment length (min) | Run automatically | Relationship type | Relationship |
|-----|----------------------------------------------------------|------------------|----------------------|--------------------|---------------------|---------------------------|-------------------|-------------------|--------------|
| D14 | 2024 Base + Committed + Development Peak of Construction | PM               | ONE HOUR             | 16:45              | 18:15               | 15                        | ✓                 | Simple            | D10 + D12    |

| Vehicle mix varies over turn | Vehicle mix varies over entry | Vehicle mix source | PCU Factor for a HV (PCU) |
|------------------------------|-------------------------------|--------------------|---------------------------|
| ✓                            | ✓                             | HV Percentages     | 2.00                      |

### Demand overview (Traffic)

| Arm                                     | Linked arm | Profile type | Use O-D data | Average Demand (PCU/hr) | Scaling Factor (%) |
|-----------------------------------------|------------|--------------|--------------|-------------------------|--------------------|
| A - A1085 N                             |            | ONE HOUR     | ✓            | 510                     | 100.000            |
| B - W Coatham Ln                        |            | ONE HOUR     | ✓            | 183                     | 100.000            |
| C - Wilton Site Access                  |            | ONE HOUR     | ✓            | 38                      | 100.000            |
| D - A1085 S                             |            | ONE HOUR     | ✓            | 1425                    | 100.000            |
| E - Mini Chef Stop (York Potash Access) |            | ONE HOUR     | ✓            | 73                      | 100.000            |
| F - Site Access                         |            | ONE HOUR     | ✓            | 710                     | 100.000            |

## Origin-Destination Data

### Demand (PCU/hr)

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 12               | 0                      | 473         | 0                                       | 25              |
|      | B - W Coatham Ln                        | 35          | 0                | 2                      | 144         | 0                                       | 2               |
|      | C - Wllton Site Access                  | 3           | 8                | 0                      | 26          | 0                                       | 1               |
|      | D - A1085 S                             | 973         | 317              | 5                      | 0           | 3                                       | 127             |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 73          | 0                                       | 0               |
|      | F - Site Access                         | 136         | 0                | 0                      | 574         | 0                                       | 0               |

## Vehicle Mix

### Heavy Vehicle Percentages

|      | To                                      |             |                  |                        |             |                                         |                 |
|------|-----------------------------------------|-------------|------------------|------------------------|-------------|-----------------------------------------|-----------------|
|      |                                         | A - A1085 N | B - W Coatham Ln | C - Wllton Site Access | D - A1085 S | E - Mini Chef Stop (York Potash Access) | F - Site Access |
| From | A - A1085 N                             | 0           | 25               | 0                      | 3           | 0                                       | 21              |
|      | B - W Coatham Ln                        | 0           | 0                | 0                      | 5           | 0                                       | 0               |
|      | C - Wllton Site Access                  | 0           | 0                | 0                      | 16          | 0                                       | 0               |
|      | D - A1085 S                             | 1           | 4                | 36                     | 0           | 100                                     | 42              |
|      | E - Mini Chef Stop (York Potash Access) | 0           | 0                | 0                      | 4           | 0                                       | 0               |
|      | F - Site Access                         | 3           | 0                | 0                      | 8           | 0                                       | 0               |

## Results

### Results Summary for whole modelled period

| Arm                                     | Max RFC | Max Delay (s) | Max Queue (PCU) | Max LOS | Average Demand (PCU/hr) | Total Junction Arrivals (PCU) |
|-----------------------------------------|---------|---------------|-----------------|---------|-------------------------|-------------------------------|
| A - A1085 N                             | 0.39    | 4.29          | 0.7             | A       | 468                     | 702                           |
| B - W Coatham Ln                        | 0.17    | 3.69          | 0.2             | A       | 168                     | 252                           |
| C - Wllton Site Access                  | 0.03    | 2.99          | 0.0             | A       | 35                      | 52                            |
| D - A1085 S                             | 0.81    | 10.03         | 4.3             | B       | 1308                    | 1961                          |
| E - Mini Chef Stop (York Potash Access) | 0.08    | 4.28          | 0.1             | A       | 67                      | 100                           |
| F - Site Access                         | 0.47    | 4.34          | 0.9             | A       | 652                     | 977                           |

### Main Results for each time segment

#### 16:45 - 17:00

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 384                   | 96                      | 733                       | 1604              | 0.239 | 383                 | 860                             | 0.0               | 0.3             | 3.072     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 863                       | 1404              | 0.098 | 137                 | 253                             | 0.0               | 0.1             | 2.952     | A                             |
| C - Wllton Site Access                  | 29                    | 7                       | 995                       | 1613              | 0.018 | 29                  | 5                               | 0.0               | 0.0             | 2.502     | A                             |
| D - A1085 S                             | 1073                  | 268                     | 56                        | 1957              | 0.548 | 1068                | 968                             | 0.0               | 1.3             | 4.226     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1121                      | 1185              | 0.046 | 55                  | 2                               | 0.0               | 0.1             | 3.311     | A                             |
| F - Site Access                         | 535                   | 134                     | 1060                      | 1951              | 0.274 | 533                 | 116                             | 0.0               | 0.4             | 2.705     | A                             |

**17:00 - 17:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 458                   | 115                     | 877                       | 1534              | 0.299 | 458                 | 1029                            | 0.3               | 0.4             | 3.488     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 1033                      | 1325              | 0.124 | 164                 | 302                             | 0.1               | 0.1             | 3.222     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1191                      | 1511              | 0.023 | 34                  | 6                               | 0.0               | 0.0             | 2.685     | A                             |
| D - A1085 S                             | 1281                  | 320                     | 66                        | 1951              | 0.657 | 1278                | 1159                            | 1.3               | 2.0             | 5.587     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1342                      | 1089              | 0.060 | 66                  | 3                               | 0.1               | 0.1             | 3.658     | A                             |
| F - Site Access                         | 638                   | 160                     | 1268                      | 1831              | 0.349 | 638                 | 139                             | 0.4               | 0.6             | 3.215     | A                             |

**17:15 - 17:30**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 1072                      | 1439              | 0.390 | 561                 | 1257                            | 0.4               | 0.7             | 4.270     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1264                      | 1217              | 0.166 | 201                 | 369                             | 0.1               | 0.2             | 3.683     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1458                      | 1371              | 0.031 | 42                  | 8                               | 0.0               | 0.0             | 2.983     | A                             |
| D - A1085 S                             | 1569                  | 392                     | 81                        | 1944              | 0.807 | 1560                | 1418                            | 2.0               | 4.2             | 9.622     | A                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1638                      | 959               | 0.084 | 80                  | 3                               | 0.1               | 0.1             | 4.260     | A                             |
| F - Site Access                         | 782                   | 195                     | 1549                      | 1670              | 0.468 | 780                 | 170                             | 0.6               | 0.9             | 4.308     | A                             |

**17:30 - 17:45**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 562                   | 140                     | 1076                      | 1438              | 0.391 | 562                 | 1263                            | 0.7               | 0.7             | 4.285     | A                             |
| B - W Coatham Ln                        | 201                   | 50                      | 1266                      | 1216              | 0.166 | 201                 | 371                             | 0.2               | 0.2             | 3.687     | A                             |
| C - Wllton Site Access                  | 42                    | 10                      | 1460                      | 1370              | 0.031 | 42                  | 8                               | 0.0               | 0.0             | 2.986     | A                             |
| D - A1085 S                             | 1569                  | 392                     | 81                        | 1944              | 0.807 | 1569                | 1420                            | 4.2               | 4.3             | 10.026    | B                             |
| E - Mini Chef Stop (York Potash Access) | 80                    | 20                      | 1647                      | 955               | 0.084 | 80                  | 3                               | 0.1               | 0.1             | 4.278     | A                             |
| F - Site Access                         | 782                   | 195                     | 1556                      | 1666              | 0.469 | 782                 | 171                             | 0.9               | 0.9             | 4.343     | A                             |

**17:45 - 18:00**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 458                   | 115                     | 882                       | 1532              | 0.299 | 459                 | 1038                            | 0.7               | 0.4             | 3.503     | A                             |
| B - W Coatham Ln                        | 165                   | 41                      | 1036                      | 1323              | 0.124 | 165                 | 305                             | 0.2               | 0.1             | 3.230     | A                             |
| C - Wllton Site Access                  | 34                    | 9                       | 1194                      | 1509              | 0.023 | 34                  | 6                               | 0.0               | 0.0             | 2.691     | A                             |
| D - A1085 S                             | 1281                  | 320                     | 67                        | 1951              | 0.657 | 1290                | 1162                            | 4.3               | 2.0             | 5.787     | A                             |
| E - Mini Chef Stop (York Potash Access) | 66                    | 16                      | 1354                      | 1084              | 0.061 | 66                  | 3                               | 0.1               | 0.1             | 3.677     | A                             |
| F - Site Access                         | 638                   | 160                     | 1279                      | 1825              | 0.350 | 640                 | 140                             | 0.9               | 0.6             | 3.245     | A                             |

**18:00 - 18:15**

| Arm                                     | Total Demand (PCU/hr) | Junction Arrivals (PCU) | Circulating flow (PCU/hr) | Capacity (PCU/hr) | RFC   | Throughput (PCU/hr) | Throughput (exit side) (PCU/hr) | Start queue (PCU) | End queue (PCU) | Delay (s) | Unsignalised level of service |
|-----------------------------------------|-----------------------|-------------------------|---------------------------|-------------------|-------|---------------------|---------------------------------|-------------------|-----------------|-----------|-------------------------------|
| A - A1085 N                             | 384                   | 96                      | 737                       | 1602              | 0.240 | 384                 | 866                             | 0.4               | 0.3             | 3.087     | A                             |
| B - W Coatham Ln                        | 138                   | 34                      | 867                       | 1403              | 0.098 | 138                 | 254                             | 0.1               | 0.1             | 2.959     | A                             |
| C - Wllton Site Access                  | 29                    | 7                       | 999                       | 1611              | 0.018 | 29                  | 5                               | 0.0               | 0.0             | 2.506     | A                             |
| D - A1085 S                             | 1073                  | 268                     | 56                        | 1956              | 0.548 | 1076                | 972                             | 2.0               | 1.3             | 4.304     | A                             |
| E - Mini Chef Stop (York Potash Access) | 55                    | 14                      | 1129                      | 1182              | 0.047 | 55                  | 2                               | 0.1               | 0.1             | 3.322     | A                             |
| F - Site Access                         | 535                   | 134                     | 1067                      | 1947              | 0.275 | 535                 | 117                             | 0.6               | 0.4             | 2.722     | A                             |

# Annex 16A.9: A1085 / A1053 Modelling Outputs

# Basic Results Summary

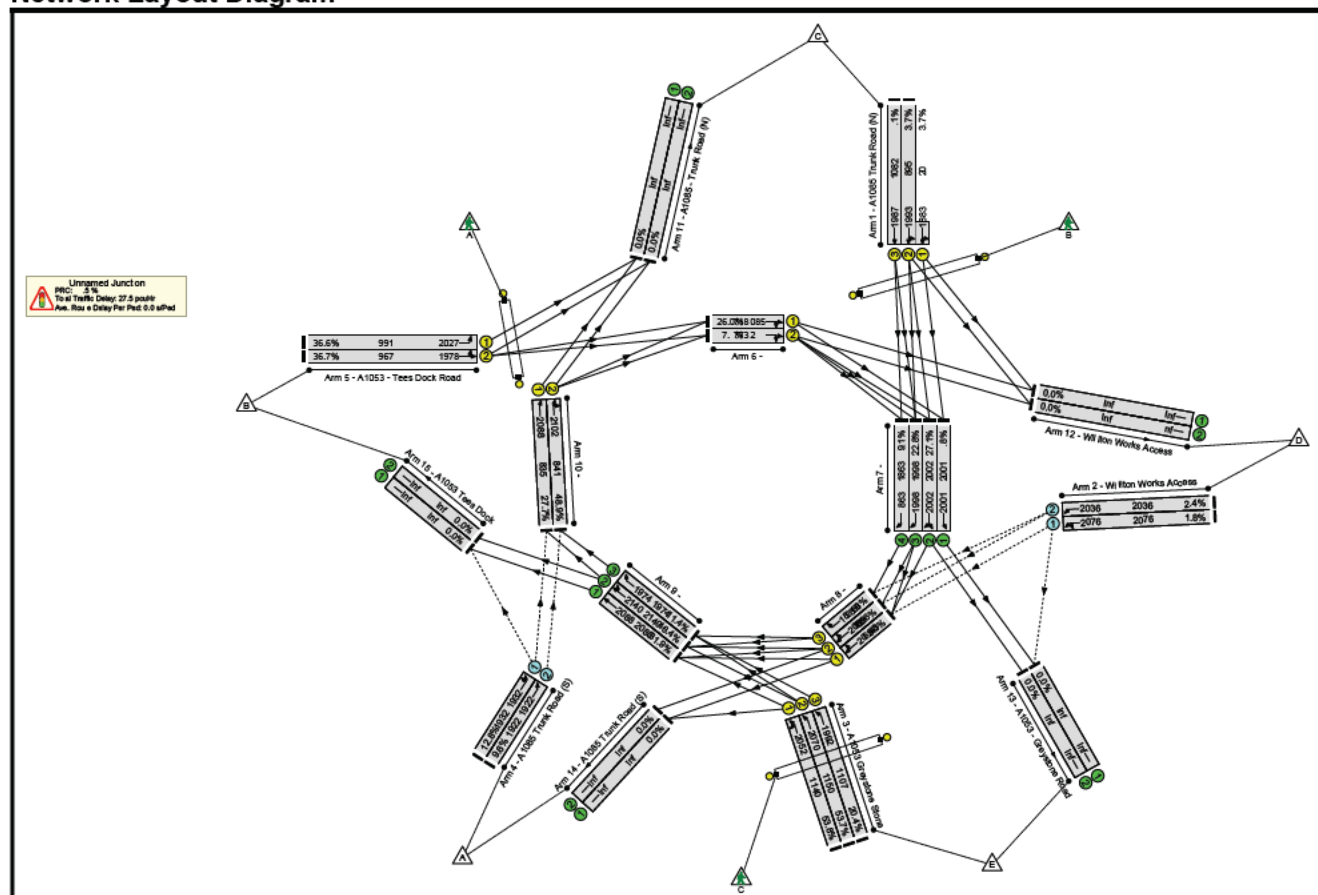
## Basic Results Summary

### User and Project Details

|                    |                                        |
|--------------------|----------------------------------------|
| Project:           | Teesside                               |
| Title:             | Junction 2                             |
| Location:          |                                        |
| Additional detail: |                                        |
| File name:         | Junction 2_update_April2021_rev1.lsg3x |
| Author:            |                                        |
| Company:           |                                        |
| Address:           |                                        |

Scenario 1: '2019 Base AM' (FG1: '2019 Base AM', Plan 1: 'Network Control Plan 1')

### Network Layout Diagram



## Basic Results Summary

## Network Results

| Item             | Lane Description                  | Lane Type | Full Phase | Arrow Phase | Num Greens | Total Green (s) | Arrow Green (s) | Demand Flow (pcu) | Sat Flow (pcu/Hr) | Capacity (pcu) | Deg Sat (%)  | Turners In Gaps (pcu) | Turners When Unopposed (pcu) | Turners In Intergreen (pcu) | Total Delay (pcuHr) | Av. Delay Per PCU (s/pcu) | Mean Max Queue (pcu) |
|------------------|-----------------------------------|-----------|------------|-------------|------------|-----------------|-----------------|-------------------|-------------------|----------------|--------------|-----------------------|------------------------------|-----------------------------|---------------------|---------------------------|----------------------|
| Network          | -                                 | -         | -          |             | -          | -               | -               | -                 | -                 | -              | 62.3%        | 0                     | 518                          | 0                           | 27.5                | -                         | -                    |
| Unnamed Junction | -                                 | -         | -          |             | -          | -               | -               | -                 | -                 | -              | 62.3%        | 0                     | 518                          | 0                           | 27.5                | -                         | -                    |
| 1/2+1/1          | A1085 Trunk Road (N) Ahead Left   | U         | E          |             | 1          | 48              | -               | 480               | 1993:1883         | 895+204        | 43.7 : 43.7% | -                     | -                            | -                           | 2.0                 | 14.6                      | 6.8                  |
| 1/3              | A1085 Trunk Road (N) Ahead        | U         | E          |             | 1          | 48              | -               | 477               | 1987              | 1082           | 44.1%        | -                     | -                            | -                           | 2.0                 | 15.3                      | 7.4                  |
| 2/1              | Williton Works Access Ahead Left  | O         | -          |             | -          | -               | -               | 37                | 2076              | 2076           | 1.8%         | 0                     | 37                           | 0                           | 0.0                 | 0.9                       | 0.0                  |
| 2/2              | Williton Works Access Ahead       | O         | -          |             | -          | -               | -               | 49                | 2036              | 2036           | 2.4%         | 0                     | 49                           | 0                           | 0.0                 | 0.9                       | 0.0                  |
| 3/1              | A1053 Greystone Stone Ahead Left  | U         | H          |             | 1          | 49              | -               | 613               | 2052              | 1140           | 53.8%        | -                     | -                            | -                           | 2.7                 | 16.1                      | 10.3                 |
| 3/2              | A1053 Greystone Stone Ahead       | U         | H          |             | 1          | 49              | -               | 617               | 2070              | 1150           | 53.7%        | -                     | -                            | -                           | 2.7                 | 16.0                      | 10.2                 |
| 3/3              | A1053 Greystone Stone Ahead       | U         | H          |             | 1          | 49              | -               | 226               | 1992              | 1107           | 20.4%        | -                     | -                            | -                           | 0.8                 | 12.1                      | 3.0                  |
| 4/1              | A1085 Trunk Road (S) Ahead Left   | O         | -          |             | -          | -               | -               | 247               | 1932              | 1932           | 12.8%        | 0                     | 247                          | 0                           | 0.1                 | 1.1                       | 0.1                  |
| 4/2              | A1085 Trunk Road (S) Ahead        | O         | -          |             | -          | -               | -               | 185               | 1922              | 1922           | 9.6%         | 0                     | 185                          | 0                           | 0.1                 | 1.0                       | 0.1                  |
| 5/1              | A1053 - Tees Dock Road Left       | U         | B          |             | 1          | 43              | -               | 363               | 2027              | 991            | 36.6%        | -                     | -                            | -                           | 1.7                 | 17.2                      | 5.9                  |
| 5/2              | A1053 - Tees Dock Road Ahead Left | U         | B          |             | 1          | 43              | -               | 355               | 1978              | 967            | 36.7%        | -                     | -                            | -                           | 1.7                 | 17.3                      | 5.8                  |
| 6/1              | Right Ahead                       | U         | D          |             | 1          | 30              | -               | 187               | 2085              | 718            | 26.0%        | -                     | -                            | -                           | 1.1                 | 21.4                      | 4.5                  |

## Basic Results Summary

| Signal Results Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |          |                   |           |              |            |           |              |            |                 |            |              |       |           |                |               |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-------------------|-----------|--------------|------------|-----------|--------------|------------|-----------------|------------|--------------|-------|-----------|----------------|---------------|----------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Phase            | Movement | Opposite Movement | Left Lane | Through Lane | Right Lane | Left Lane | Through Lane | Right Lane | Saturation Flow | Flow Ratio | Queue Length | Delay | Stop Time | Cycle Time (s) | Lost Time (s) | Cycle Efficiency (%) |
| 6/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right Ahead      | U        | D                 |           | 1            | 30         | -         | 366          | 2244       | 773             | 47.4%      | -            | -     | -         | 2.2            | 21.4          | 4.1                  |
| 7/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ahead            | U        | -                 |           | -            | -          | -         | 97           | 2001       | 2001            | 4.8%       | -            | -     | -         | 0.0            | 0.9           | 0.0                  |
| 7/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right Ahead      | U        | -                 |           | -            | -          | -         | 542          | 2002       | 2002            | 27.1%      | -            | -     | -         | 0.2            | 1.2           | 0.2                  |
| 7/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right            | U        | -                 |           | -            | -          | -         | 456          | 1998       | 1998            | 22.8%      | -            | -     | -         | 0.1            | 1.2           | 0.1                  |
| 7/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right            | U        | -                 |           | -            | -          | -         | 169          | 1863       | 1863            | 9.1%       | -            | -     | -         | 0.0            | 1.1           | 0.0                  |
| 8/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right Ahead      | U        | G                 |           | 1            | 29         | -         | 416          | 2004       | 668             | 62.3%      | -            | -     | -         | 2.5            | 21.9          | 4.3                  |
| 8/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right Ahead      | U        | G                 |           | 1            | 29         | -         | 351          | 2003       | 668             | 52.6%      | -            | -     | -         | 2.0            | 20.8          | 3.5                  |
| 8/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right            | U        | G                 |           | 1            | 29         | -         | 175          | 1856       | 619             | 28.3%      | -            | -     | -         | 0.9            | 18.1          | 1.5                  |
| 9/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ahead            | U        | -                 |           | -            | -          | -         | 667          | 2088       | 2088            | 31.9%      | -            | -     | -         | 0.2            | 1.3           | 0.2                  |
| 9/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right Ahead      | U        | -                 |           | -            | -          | -         | 992          | 2140       | 2140            | 46.4%      | -            | -     | -         | 0.4            | 1.6           | 0.4                  |
| 9/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Right            | U        | -                 |           | -            | -          | -         | 226          | 1974       | 1974            | 11.4%      | -            | -     | -         | 0.1            | 1.0           | 0.1                  |
| 10/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ahead            | U        | A                 |           | 1            | 35         | -         | 231          | 2088       | 835             | 27.7%      | -            | -     | -         | 1.4            | 21.2          | 4.0                  |
| 10/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Right Ahead      | U        | A                 |           | 1            | 35         | -         | 411          | 2102       | 841             | 48.9%      | -            | -     | -         | 2.4            | 21.2          | 5.8                  |
| Ped Link: P1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unnamed Ped Link | -        |                   |           | 0            | 0          | -         | 0            | -          | 0               | 0.0%       | -            | -     | -         | Inf            | Inf           | Inf                  |
| Ped Link: P2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unnamed Ped Link | -        |                   |           | 0            | 0          | -         | 0            | -          | 0               | 0.0%       | -            | -     | -         | Inf            | Inf           | Inf                  |
| Ped Link: P3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unnamed Ped Link | -        |                   |           | 0            | 0          | -         | 0            | -          | 0               | 0.0%       | -            | -     | -         | Inf            | Inf           | Inf                  |
| <div style="display: flex; justify-content: space-between;"> <div> C1 Stream: 1 PRC for Signalled Lanes (%): 84.1<br/> C1 Stream: 2 PRC for Signalled Lanes (%): 90.1<br/> C1 Stream: 3 PRC for Signalled Lanes (%): 44.5<br/> PRC Over All Lanes (%): 44.5 </div> <div> Total Delay for Signalled Lanes (pcuHr): 7.22<br/> Total Delay for Signalled Lanes (pcuHr): 7.26<br/> Total Delay for Signalled Lanes (pcuHr): 11.69<br/> Total Delay Over All Lanes(pcuHr): 27.45 </div> <div> Cycle Time (s): 90<br/> Cycle Time (s): 90<br/> Cycle Time (s): 90 </div> </div> |                  |          |                   |           |              |            |           |              |            |                 |            |              |       |           |                |               |                      |