

# Northamptonshire Highways

## **NORTHAMPTONSHIRE PERMIT SCHEME FOR ROAD WORKS AND STREET WORKS**

**Year 1 Evaluation (June 2016 to June 2017)**

# Northamptonshire Permit Scheme For Road Works And Street Works

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<b>Purpose:</b> This document provides details of Northamptonshire County Council's Permit Scheme for Road and Street Works and is based on the Department for Transport's Permit Scheme Evaluation Template Document.	
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## 1. Executive Summary

In the Executive Summary and the Objectives sections of this document it recommended that the permit authority provides an overview of how the permit scheme has performed over the period that may include specific examples linked to their own authority. Authorities can provide examples of successes/achievements and their contribution to those successes/achievements.

In the first year of operating the Northamptonshire Permit Scheme for Road Works and Street Works for all county roads in Northamptonshire, there have been a number of challenges. These include increasing the NRSWA Co-ordination Team by over 300% and introducing a new Street Works Management system.

Through operating the scheme covering all county roads, the co-ordination of works on Northamptonshire's highway network has shown some significant benefits. In particular, these include the overall number of days working saved which would otherwise have been undertaken on Northamptonshire's roads. This in itself equates to over 3-years of working days.

Overall, the scheme has been considered to be a success and future year's evaluation reports are hoped to demonstrate improvements in compliance and performance by comparison with the performance indicators contained in this report.

Due to the way early starts and extensions were managed (prior to changing the Street Works Management system), performance data.

## 2. Introduction

The Traffic Management Act 2004 (TMA), Part 3 Sections 32 to 39, and the Traffic Management Permit Scheme (England) Regulations 2007 make provision for Permit Schemes to be introduced in England.

From 2011 until June 2016, the permit scheme simply covered Northamptonshire's Traffic Sensitive network. However, Northamptonshire as the Permit Authority varied its Permit Scheme by its Order in 2016 to include all streets. The new scheme took effect from 1st June 2016. For the remainder of this report, this is referred to as *the permit scheme*.

The purpose of this report is to evaluate the first year's performance of the Permit Scheme in its first year and identify both the achievements and any areas for improvement in forthcoming years.

The report provides scrutiny of the available data in relation to street works and activities in Northamptonshire.

In the first year of operating the scheme, the street works management software was changed from Bentley's EXOR to Yotta's Mayrise. This has seen some transitional data issues however, apart from minor inconsistencies, the data is considered to be representative of the permit schemes performance. All data for "road works" (as opposed to "street works") includes works undertaken by third party works promoters such as developers for S278's, S38's etc.

### **3. Objectives of the Northamptonshire's Permit Scheme**

The purpose of the scheme is to afford local authorities more powers to better coordinate and manage both utility and highways works on their road networks, thus allowing local authorities to fulfil their statutory network management duty.

Section 17 of the Permit Scheme sets out monitoring arrangements and performance indicators to help measure the performance of the scheme. There were 4 Key Performance Indicators identified (KPI's) and the scheme refers to other national performance indicators which were to be announced.

This report is based on the national evaluation template document that has been produced in order that schemes across the country can report on consistent performance indicators. Therefore, as well as the four KPI's that are identified in the Northamptonshire Permit Scheme, other national performance indicators are used to demonstrate performance, operation and compliance with the scheme.

There are a number of permit scheme objectives, many of which can be demonstrated by the performance indicators and these include:

- Reducing delays to all road users
- Improving safety resulting in reduced likelihood of consequential accidents/costs
- Reducing financial losses to businesses from traffic delays etc.
- Reducing emissions from less efficient traffic movements
- Improve compliance with the Permit Scheme
- Maximise days saved as a result of operating the scheme to minimise occupancy days

### **4. Fee structure**

The Traffic Management Permit Scheme (England) (Amendment) Regulations 2015 require that the permit authority shall give consideration to whether the fee structure needs to be changed in light of any surplus or deficit;

As part of the permit scheme commencing in June 2016, the staffing structure was nominally increased in an effort to reflect the additional workload from operating and managing a scheme covering the whole of the Northamptonshire's highway network.

The fee structure for the permit scheme is within the nationally set costs and comparable to adjacent authorities.

	<b>Main Roads</b>	<b>Minor Roads</b>
	<b>Traffic Sensitive and Strategic Road Network</b>	<b>All other Roads</b>
<b>Provisional Advance Authorisation</b>	£94	£91
<b>Major Activity</b>	£180	£148
<b>Major Activity (4 – 10 days)</b>	£95	£51
<b>Major Activity (up to 3 days)</b>	£61	£36
<b>Standard activity</b>	£95	£51
<b>Minor Activity</b>	£51	£36
<b>Immediate Activity</b>	£40	£34
<b>Permit Variation</b>	£45	£35

The following table sets out the income generated from the Permit scheme from 1<sup>st</sup> June 2016 to 31<sup>st</sup> May 2017 and costs from running the scheme.

Permit Fee Income	£853,219
Other Permit Scheme Income (FPN's etc.)	£307,943
Total Income	£1,161,162
Staff Costs *	£469,540

\*Note – Staff Costs include KierWSP staff costs only. No costs have been included for NCC Staff Costs. No costs have been included for equipment, materials, systems etc.

As can be seen from the above, there is a surplus in income permit fees £383,679. As noted above, there are a number of costs from operating the Permit Scheme that aren't included in the above.

## 5. Costs and Benefits

The direct staff costs relating to the NRSWA Co-ordinators and Inspectors involved in running the Permit scheme amounts to £441,306. This doesn't include other additional costs such as staffing overheads, IT systems/software, core testing programmes, management costs, contract overheads and NCC's own costs involved in delivering the Permit scheme. NCC's own costs will include the cost of Traffic Manager involvement, administering the invoicing and collection of fees and the costs involved in tendering, administering and managing the NRSWA service being delivered by a third party.

The Traffic Management Permit Scheme (England) (Amendment) Regulations 2015 require that permit authorities give consideration to whether a permit scheme is meeting key performance indicators (KPI's).

KPI's that were set as part of the introduction of the permit scheme in 2016 and additional national performance indicators are discussed in Section 6 below and the performance data is contained within the Appendices.

## **6. Performance Indicators**

There are a number of Performance Indicators that have been used to produce this report. These include Key Performance Indicators listed within the Permit Scheme, TPI Measures (as set out within the Statutory Guidance for Highway Authority Permit Schemes [2015]), Authority Measures (AM's) and Performance Indicators (PI's) as set out in the permit evaluation template document.

### **6.1. Northamptonshire Permit Scheme KPI's**

The KPI's that are reported on below are those set out within Northamptonshire's Permit Scheme. The first two KPI's concentrate on requested changes to permits and the last two focus on non-compliances. The tables in Appendix 1 provide more detailed information on these performance indicators.

#### **6.1.1. KPI1**

This performance indicator focusses on the number of cancellations to permits that each works promoter puts forward.

The data for this KPI is broken down by works promoters providing the overall number of permit applications each works promoter has issued and the number of cancelled applications by number and percentage

Anglian Water have the largest number of cancellations overall amongst all works promoters but have the second largest number of permit applications so proportionately, have cancelled 13.32% of applications. Of the Utilities undertaking the most works in Northamptonshire, Virgin Media have cancelled the most number of permit applications proportionately with 505 cancellations which equates to 22.36% of their permit applications.

#### **6.1.2. KPI2**

This performance indicator focusses on the number of permit variation applications received and granted and shows the number of these proportionately to the number of permit applications each works promoter has applied for.

This performance indicator shows that the Highways Authority applies for the most number of variations however, this only represents 8% of the applications which of the top 6 works promoters with the majority of permit applications is proportionately the least number of applications.

Cadent Gas Limited were granted 492 variations against 2,320 permit applications which represents 21.21% and is proportionately the highest number of variations approved of the top 6 works promoters.



### **6.1.3. KPI3**

KPI3 looks at the number of permit condition breaches that are identified and breaks this down as a percentage of the overall number of permits received by works promoter.

This performance indicator shows that Western Power Distribution has the most permit condition breaches in the review period with 99 in 12 months. This represents 4.26% of their applications permit.

Of the top 6 works promoters who have the majority of permit applications, Virgin Media have performed best with only 7 permit condition breaches which represents 0.31% of their permit applications.

### **6.1.4. KPI4**

KPI4 reviews the number of occasions works promoters have been identified as working in the highway without a valid permit.

Of the top 6 works promoters, both Anglian Water and BT have undertaken works without a permit on 12 occasions representing 0.15% and 0.28% of the works respectively however, Cadent Gas Ltd have proportionately the most occasions with 0.34% of their works not having a valid permit.

Of the top 6 works promoters, the Highways Authority and Western Power Distribution have proportionately the least number of occasions of working without a valid permit with 0.02% and 0.04% respectively.

## **6.2. Template Document Performance Indicators (PI's)**

The tables in Appendix 2 provide detailed information on these performance indicators.

### **6.2.1. PI1 The number of permit and permit variation applications**

The number of permits and permit variation applications received, the number granted and the number refused and shown as:

- The total number of permit and permit variation applications received, excluding any applications that are subsequently withdrawn.
- The number of applications granted as a percentage of the total applications made.
- The number of applications refused as a percentage of the total applications made.

## 6.2.1.1. Results

### Permits Granted and Refused

The table below shows a breakdown of permit applications received, granted and refused for the first year of operation of the Permit scheme in Northamptonshire. The complete summary of the data is contained in Appendix 2.

**Table 1**

<b>Received/Granted/Refused</b>	<b>Number</b>
Total permit applications received by Northamptonshire County Council during first full year of operating the permit scheme:	37,630
Total permit variation applications received by Northamptonshire County Council during first full year of operating the permit scheme:	5439
= Total permits granted or refused:	35,979
Total granted:	90%
Total refused:	6%

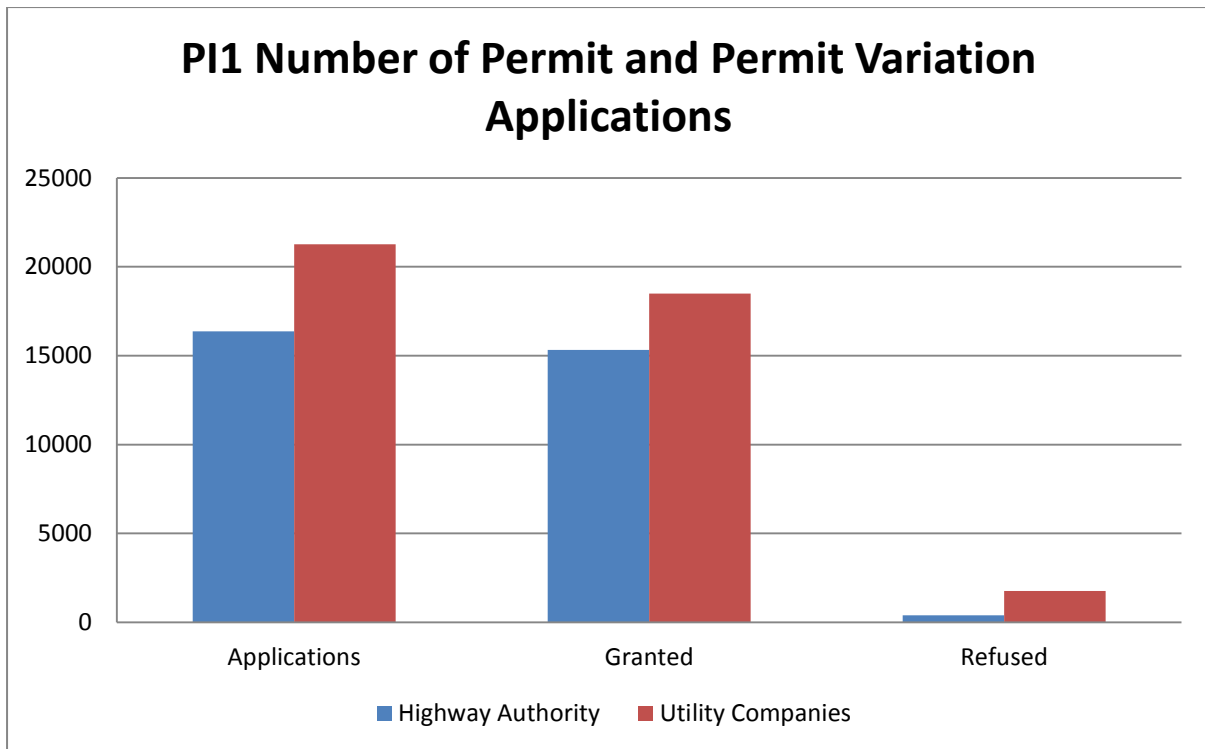
The data provided in the above table has been collated from Northamptonshire's permit management and manually recorded variation requests.

The following considerations must be noted in relation to this data:

- Each application has an appropriate response period which means that the number of applications received in any one period does not correspond to the permits granted and refused within that same period. In other words, a permit application received in one period may be responded to within the next period.
- The system for managing street works in Northamptonshire was changed mid-March 2017. The outgoing system (EXOR) was not used for submitting or processing variation requests, these were received by Email and recorded manually however, the new system (Yotta Mayrise) is being used to administer permit variations. The data for variations has therefore been combined from manually recorded variations and those in the new street works software. Prior to March 2017, where an application was requested but not approved, a reference was not given and so is not recorded in this data.

### Number of Permit Applications

The following graph shows the split of permit applications received from both highway authority and utility promoters. On average, highway authorities generated 43.5% and utility promoters 56.5% of the applications received.



#### 6.2.1.2. Analysis

##### Permits Granted and Refused

Proportionally, the percentage of works granted for the Highway Authority works is 93.6% as opposed to 87% for Utility works. The percentage of works refused for Highway Authority works is 2.4% as opposed to 8.3% for Utility works.

As a percentage, more Utility works are refused than Highway Authority Works and more Highway Authority works are approved than Utility works. There are a number of reasons why this may be the case and include Highway Works being planned to take account of other works and minimising the impact to public whereas, Utility works do not always take account of the impact on the public. Also, there is consistently a lack of information provided by Utility Companies at Local HAUC Co-ordination meetings. Some Utility Companies are better than others and some simply do not attend these meetings which does not help with early information on forthcoming works and planning/co-ordination of these.

##### Number of Permit Applications

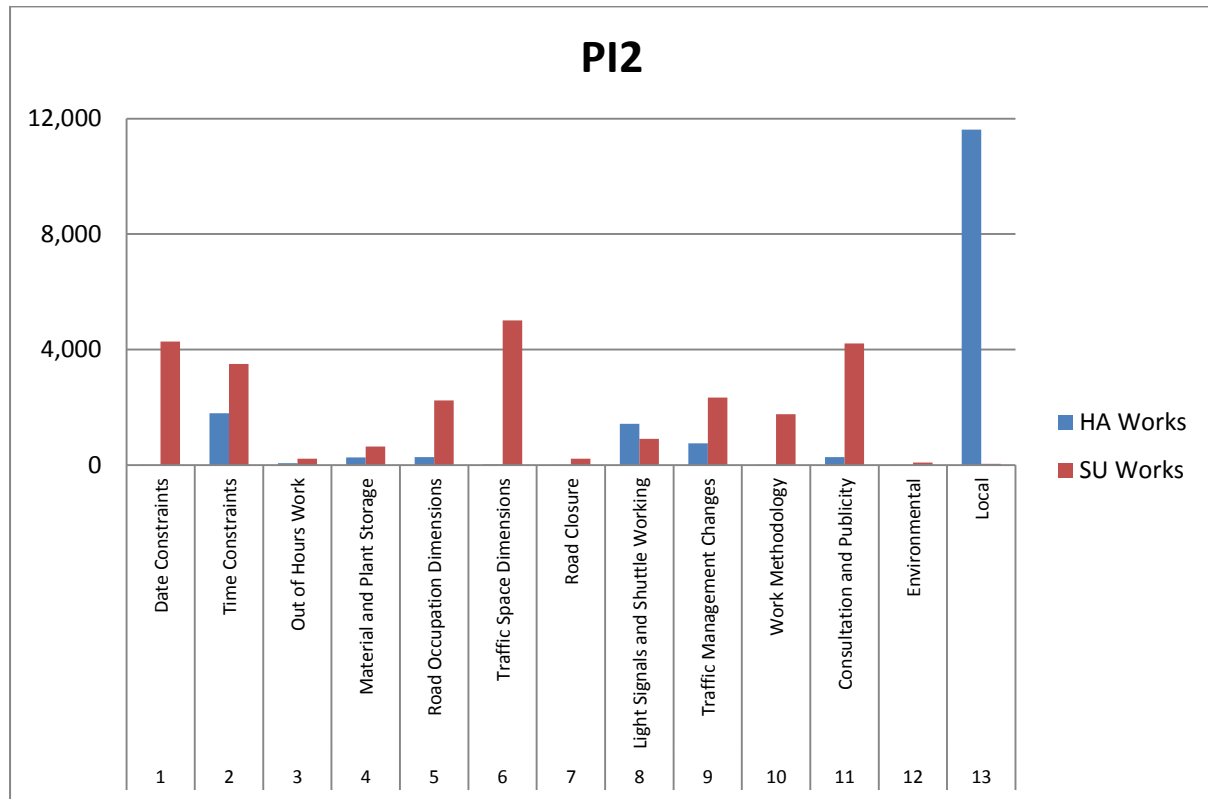
The number of applications for works year on year has been relatively stable with no significant changes.

#### 6.2.2. PI2 The number of conditions applied by condition type.

The data for this performance indicator shows the split between Highway Authority and Utility Works. It has not been possible to split the data further in order to derive a table that breaks down information to each individual Utility Company due to EToN system issues. The data provides information on the various NCT codes and the numbers that have been applied by either the Highway Authority or Utility Companies as a whole.

### 6.2.2.1. Results

The charts below show the percentage of permit conditions applied against permits in relation to works for road purposes and streets works undertaken by statutory undertakers on the basis of the 13 standard EToN conditions. A summary of the data is shown in Appendix 2.



### 6.2.2.2. Analysis

Given the limitation of access to the data following the transition of street works management systems in Northamptonshire, it is not possible to provide any information on data trends.

### 6.2.3. PI3 The number of approved revised durations

This indicator is measured by promoter and shown as:

- the total number of permits granted.
- the number of requests for revised durations shown as a percentage of permits issued.
- the number of agreed revised durations as a percentage of revised durations applied for.

The data included in Appendix 2 for PI3 does not include permits that have been cancelled.

### 6.2.3.1. Results

The data shows that as a whole, over 94% of variations are approved. With the Highway Authorities data excluded so that the indicator presents only Utility Company data, the indicator is still over 94%.

The percentage of requests for duration variations overall is 4.52% of applications. The percentage applying to the Highway Authority works is 1.64% and with these works removed, the indicator solely for Utility Companies is 7.46%.

During the evaluation period, Cadent Gas requested the most permit duration variations at 349 which equates to almost 28% of their permit applications. Anglian Water are next with 251 duration variation requests however, this represents only 4.48% of their applications. There were 231 duration variation requests for Highway Authority works.

### 6.2.4. PI4 The number of occurrences of reducing the application period

The number of occurrences of reducing the application period is also known as requesting an “early start”. This indicator will be shown as:

- the total number of permit and permit variation applications made
- the number of requests to reduce the notification period as a percentage of total applications made
- the number of agreements to reduce the notification period as a percentage of requests made.

#### 6.2.4.1. Results

	Early Start Requests			Early Start Agreements			% Early Starts Agreed	
	HighwayAuthority	Utilities	Total	HighwayAuthority	Utilities	Total	HighwayAuthority	Utilities
Total	610	375	985	473	234	707	77.54%	62.40%
%	61.93%	38.07%		66.90%	33.10%		55.41%	44.59%
	% of total requests			% of agreements vs requests			% of agreement given	

#### 6.2.4.2. Analysis

This measure was considered to be in relation to the number of times promoters were allowed by the Highways Authority to start their works without having to comply with the minimum permit application lead-in period, commonly known as an early start agreement.

The Northamptonshire Permit Scheme provides a framework for Northamptonshire to treat all activities and activity promoters covered by the scheme on an equal basis. The above data shows that largely to be the case. Early start requests are considered individually on their own merits by the Highways Authority and are never refused without a valid reason.

Over 60% of all early start requests are for the Authorities own works and of these, just over 77% are approved.

Utility Companies requested just over 38% of early starts with over 62% of these being approved.

## **6.3. TPI measures**

This section reports on the key performance indicators set out within the Statutory Guidance for Highway Authority Permit Schemes (2015). These are known as TPI's. The tables in Appendix 3 provide detailed information on these performance indicators.

### **6.3.1. TPI1 Works Phases Started (Base Data)**

This TPI concerns the number of works phases started under each of the five recognised works categories; Major, Standard, Minor, Immediate–Urgent & Immediate–Emergency. The data for TPI1 in the Appendix shows this split down by works promoter.

#### **6.3.1.1. Analysis**

Highway Authority works account for more than half of all works phases started (50.9%) between 1<sup>st</sup> June 2016 and 31<sup>st</sup> May 2017.

A total of 30 Utility Companies started works phases during this period. Anglian Water accounted for 37% of all Utility works phases started.

Of the five works phases, Immediate–Urgent works account for 47.5% of all works phases started with the Highway Authorities own works accounting for 77.8% of all Immediate–Urgent phases started. This suggests that a significant portion of Highway Authority works are reactive. Overall, Immediate works account for approximately 50% of all works undertaken in Northamptonshire.

### **6.3.2. TPI2 Works Phases Completed (Base Data)**

TPI2 focuses on the number of works phases completed under each of the five recognised works categories; Major, Standard, Minor, Immediate–Urgent, Immediate–Emergency. The Appendix to this report shows the data split by works promoter.

#### **6.3.2.1. Analysis**

The works phases completed data shown in the Appendix effectively corroborates the data shown for TPI1. It should be noted that there is a small variation between works phases started and works phases completed for this period. This is due to the variance caused by the differing number of works phases at the start of the review period compared with the number at the end of the review period.

### **6.3.3. TPI3 Days of Occupancy Phases Completed**

TPI3 shows the total number of days the highway was occupied by works for road purposes and street works for each of the five recognised works categories; Major, Standard, Minor, Immediate – Urgent, Immediate – Emergency. The data in the Appendix for this TPI shows the split by works promoter.

### **6.3.3.1. Analysis**

Highway Authority works account for 51.8% of all occupancy days during the reported period.

70.4% of occupancy days related to Major works. 56.7% of Immediate–Urgent works occupancy days are attributed to works undertaken by the Highway Authority.

Utility works account for the majority of Minor works occupancy days at 59%.

Cadent Gas Ltd is responsible for 81.1% of all Immediate–Emergency occupancy days.

### **6.3.4. TPI4 Average Duration of Works**

This TPI reviews the average number of working days taken to complete works for each of the five works categories. In the Appendix, data is split into street works (Utility works) and works for road purposes (Highway Authority works).

#### **6.3.4.1. Analysis**

The data shows that Major Highway Authority works durations are on average 1.7 days longer than Major Utility works. Taking in to consideration that Highway Authority works include major projects such as the construction of bypasses and works in relation to developments under S278 agreements, all of which can account for months and sometimes years of occupancy, this difference is to be expected and is actually a relatively small difference.

The data relating to immediate works shows that the average duration for Utility works take 2.5 to 3 days longer to complete than Highway Authority works. This could be explained by the generic nature of the works themselves given that the vast majority of utility works require the breaking up of the street to locate an underground apparatus fault which then needs to be repaired and the carriageway then reinstated. Immediate Highway Authority works lean significantly towards defects on the carriageway surface such as potholes which are generally much quicker to rectify.

### **6.3.5. TPI5 Phases Completed on time**

The data for this TPI identifies the percentage of instances where works have completed on time and the number that have not finished by the original agreed end date. As a result of works not finishing by the agreed end date, works then become subject to daily charges as set out in Section 74 of the NRSWA and its associated codes of practice.

#### **6.3.5.1. Analysis**

The two most common reasons for over-runs occurring are extension requests not being made within the correct timescale and traffic management/signing lighting and guarding not being removed from site upon completion of works.

Of all the works permitted to take place on Northamptonshire County Councils road network during the reporting period, exactly 1% of these over-ran.

With the exception of a handful of works promoters who undertook a very limited number of works, the majority of works promoters maintained a completed on time average of well over 95%. The exception to this being Cadent Gas Ltd who are responsible for 40% of all over-runs within the reporting period despite only having 5.4% of the total number of works carried out.

### **6.3.6. TPI6 Number of deemed permit applications**

All permit applications received by a Highway Authority must be responded to within a specified time frame. This time frame varies dependent upon the category of the works for which the permit applies. If the Highway Authority does not respond in time then the permit is “Deemed” to be agreed and the works then are able to go ahead as per the information supplied on the application. In addition to this, no fee is applied to a permit application which has “Deemed” given it is likely that little or no consideration will have been given to the application.

The data in the Appendix shows the number of “deemed” permits per month against the number of permits which have not deemed and shown as a percentage. This data is also split between Utility works and Highway Authority works.

#### **6.3.6.1. Analysis**

Due to a number of issues, there was a high number of permits which “deemed” during the early months of the all roads permit scheme. The main issues responsible for this were street works system issues, works promoter error and human error.

Various issues with Bentleys Exor system were identified during the first few months of the permit scheme, these were not all apparent from day one and therefore had an impact on the number of permits which deemed over a greater period. Working with our system provider at the time we were able to identify and rectify all these issues.

A month in to the all roads permit scheme a works promoter mistakenly downloaded the incorrect OD Batch file for Northamptonshire, this meant that no permits were received for almost a month, when this was resolved all the transactions which had been sent then came through to Northamptonshire’s street works system, unfortunately by this time a number of these applications had deemed.

Despite expanding the NRSWA Team in preparation for the management of the all roads permit scheme it was difficult to deliver sufficient training on the management of permit applications due to these being very limited in number prior to the 1<sup>st</sup> June 2016, therefore a lot of the more detailed training was “on the job”. Unfortunately errors made during this training process also resulted in some permits deeming.

With the issues from the first few months being resolved we are able to see an improvement in the numbers of permits deeming in October, November and December.

The spike in deemed permits seen in March 2017 coincides with the switch from Bentley Exor to Yotta Mayrise. This transition went ahead as seamlessly as possible, however a combination of data transfer issues from one system to the other and user familiarity with the working version of Mayrise are accountable for this spike.



Since the introduction of Yotta Mayrise, the number of deemed permits has fallen significantly with the aim of consistently achieving zero each month.

### **6.3.7. TPI7 Number of Phase One Permanent Registrations**

When reinstating and completing works, a works promoter can either complete a permanent reinstatement, or complete an interim reinstatement followed by a permanent reinstatement. A permanent reinstatement is where the excavation is returned to the original specification of the carriageway where the excavation took place. An interim reinstatement is where the excavation is reinstated in a safe manner with temporary materials with a permanent reinstatement to be effected within 6 months.

Permanent reinstatements are always encouraged as this means there is no further disruption to the travelling public and a second visit to the site is no longer required.

The data in the Appendix shows the number of works under each of the 5 works categories that had permanent reinstatements carried out first time without a second visit needed. This data is split down into works promoter.

## **6.4. Authority Measures**

In addition to the KPI's identified in the permit scheme, additional "Authority Measures" which are identified in the evaluation template document have been used in this report. The tables in Appendix 4 provide detailed information on these performance indicators.

### **6.4.1. AM 1 - Average duration of works by permit type**

As this report covers the first full year of operating the revised permit scheme, data for any previous year has not been included. Therefore, it is not possible to provide details of any trends based on previous years.

During the evaluation period, the works were fairly proportionately spread between Utility and Authority except in the months of October, December, January and February when Utility Companies undertook more works than the Highway Authority.

Over the review period, both Immediate works categories combined showed that Utility Works took between 3.62 and 4.16 days where as Immediate Highway Authority Works took on average 1.03 days to complete.

Data providing details for each month of the evaluation period is contained in the Appendix.

## **6.4.2. AM 2 – Inspections**

This measure provides details for the number of failed Sample Category A inspections shown as a percentage of the total undertaken within the review period by works promoter.

### **6.4.2.1. Results**

This data has been collated and a summary of the output is shown in the Appendix.

The chart shows a breakdown of Category A inspections completed by Works Promoter.

### **6.4.2.2. Analysis**

The table in the Appendix shows that of the major utilities undertaking most of the works, Anglian Water had the best record with less than 3.4% of failures. Western Power Distribution and Virgin Media were the worst performing major utilities with 20.75% and 15% respectively.

## **6.4.3. AM 3 - Days of Disruption Saved/ Number of collaborative works**

This measure has been split into two, “Days of disruption saved”, and “Collaborative Works”.

The data on “Days of disruption saved” (AM3a) relates to days saved as a result of refused applications which then lead to permits being varied with reduced periods.

The data for Collaborative works identifies the number of days saved through promoting this method of working.

### **6.4.3.1. Results**

The data for this indicator is contained in the Appendix. For AM3a, this shows that 306 calendar days were saved as a result of permit application durations being reduced.

The data for AM3b concerning Collaborative Works shows that 892 calendar days were saved through collaborative works. This is quite significant and represents almost 2.5 years of days saved.

Tables providing a breakdown of the data are contained in the Appendix.

## **6.4.4. AM 4 Response Code – broken down by promoter**

This measure is to report on the number of refusals broken down by response code where this has been used by the authority.

In Northamptonshire, this data is unavailable however, with the introduction of new street works management software, this will be available when the next review is undertaken.

### **6.4.5. AM 5 FPNs (Permit Breaches)**

AM5 in the Appendix shows a breakdown of FPNs given by works promoter and FPN type.

When the next Permit Scheme Evaluation Report is produced, data will be available to show trends from one year to the next however, at this stage, only year 1 of the permit scheme is available.

#### **6.4.5.1. Analysis**

The data for this performance indicator shows that Cadent Gas have the most number of permit breaches out of all works promoters.

## **7. Glossary**

EToN system – The Electronic Transfer of Notices, the nationally agreed format for the transmission of notice information.

EToN developers – representatives of the main software developers involved in street works

EToN Strategy Group – responsible for the development of the EToN system

NMD – Network Management Duty, a legal obligation created by the Traffic Management Act 2004 for highway authorities to secure the expeditious movement of traffic

AM – Authority Measure

PAN – Permit Advice Note

TMA – Traffic Management Act 2004

Sample A – An inspection undertaken during the progress of the works as defined in Section 2.3.1 of The Code of Practice for Inspections 2002

# Appendices

## 8. Appendix 1 - NCC Permit Scheme Key Performance Indicators

This appendix contains a detailed breakdown of performance measures referred to in Sections 5 and 6.

Due to the size of tables for some of the performance measures, summary totals have been used. However, the data showing more detailed information on those performance measures is available if required.

NCC Permit Scheme KPI1			
Works Promoter	Applications Received	Cancelled Applications	Cancelled Percentage
Anglian Water	8,154	1,086	13.32%
BT	4,308	725	16.83%
Cadent Gas Limited	2,320	396	17.07%
Cityfibre	105	35	33.33%
Dept for Transport Stat Roads	1	0	0.00%
Energetics Electricity Limited	21	4	19.05%
Energetics Gas Limited	21	1	4.76%
ES Pipelines Ltd	111	10	9.01%
ESP Electricity Ltd	10	0	0.00%
Fulcrum Pipelines Limited	79	15	18.99%
Gigaclear	649	14	2.16%
GTC	179	12	6.70%
Harlaxton Energy Networks	57	3	5.26%
Hartlepool Water	1	0	0.00%
Independent Next Generation Networks Ltd	7	0	0.00%
Interoute	3	0	0.00%
Level 3 Comms UK Ltd	6	0	0.00%
National Grid Electric PLC	3	1	33.33%
Network Rail	87	18	20.69%
Northamptonshire	16,493	488	2.96%
Orange PCS Group	10	0	0.00%
Romec	10	4	40.00%
Scottish & Southern Electricity Networks	2	1	50.00%
Severn Trent Water Ltd	12	2	16.67%
Southern Gas Networks	98	3	3.06%
Surf Telecoms Ltd	19	0	0.00%
Telefonica (O2 (UK) Limited)	68	9	13.24%
Thames Water Utilities Ltd	24	1	4.17%
T-Mobile (UK) Limited	119	6	5.04%
Virgin Media	2,258	505	22.36%
Vodafone	17	4	23.53%
WarwickNet Ltd	55	0	0.00%
Western Power Distribution	2,323	120	5.17%
<b>Total</b>	<b>37630</b>	<b>3463</b>	<b>9.20%</b>

NCC Permit Scheme KPI2

Works Promoter	Applications Received	Variations Received	Variations Granted	Granted Percentage
Anglian Water	8,154	1,199	773	9.48%
BT	4,308	587	414	9.61%
Cadent Gas Limited	2,320	693	492	21.21%
Cityfibre	105	20	0	0.00%
Dept for Transport Stat Roads	1	0	0	0.00%
Energetics Electricity Limited	21	15	4	19.05%
Energetics Gas Limited	21	14	8	38.10%
ES Pipelines Ltd	111	54	42	37.84%
ESP Electricity Ltd	10	6	5	50.00%
Fulcrum Pipelines Limited	79	23	18	22.78%
Gigaclear	649	188	147	22.65%
GTC	179	66	33	18.44%
Harlaxton Energy Networks	57	35	22	38.60%
Hartlepool Water	1	0	0	0.00%
Independent Next Generation Networks Ltd	7	6	0	0.00%
Interoute	3	2	1	33.33%
Level 3 Comms UK Ltd	6	4	2	33.33%
National Grid Electric PLC	3	2	0	0.00%
Network Rail	87	10	0	0.00%
Northamptonshire	16,493	1,613	1,319	8.00%
Orange PCS Group	10	4	3	30.00%
Romec	10	0	0	0.00%
Scottish & Southern Electricity Networks	2	0	0	0.00%
Severn Trent Water Ltd	12	0	0	0.00%
Southern Gas Networks	98	42	29	29.59%
Surf Telecoms Ltd	19	0	0	0.00%
Telefonica (O2 (UK) Limited)	68	27	17	25.00%
Thames Water Utilities Ltd	24	3	1	4.17%
T-Mobile (UK) Limited	119	24	17	14.29%
Virgin Media	2,258	315	248	10.98%
Vodafone	17	4	0	0.00%
WarwickNet Ltd	55	20	9	16.36%
Western Power Distribution	2,323	463	387	16.66%
<b>Total</b>	<b>37630</b>	<b>5439</b>	<b>3991</b>	<b>10.61%</b>

NCC Permit Scheme KPI3

Works Promoter	Applications Received	Permit Condition Breaches	Permit Condition Breach Percentage
Anglian Water	8,154	52	0.64%
BT	4,308	61	1.42%
Cadent Gas Limited	2,320	74	3.19%
Cityfibre	105	0	0.00%
Dept for Transport Stat Roads	1	0	0.00%
Energetics Electricity Limited	21	0	0.00%
Energetics Gas Limited	21	0	0.00%
ES Pipelines Ltd	111	3	2.70%
ESP Electricity Ltd	10	0	0.00%
Fulcrum Pipelines Limited	79	2	2.53%
Gigaclear	649	21	3.24%
GTC	179	3	1.68%
Harlaxton Energy Networks	57	3	5.26%
Hartlepool Water	1	0	0.00%
Independent Next Generation Networks Ltd	7	1	14.29%
Interoute	3	0	0.00%
Level 3 Comms UK Ltd	6	0	0.00%
National Grid Electric PLC	3	0	0.00%
Network Rail	87	3	3.45%
Northamptonshire	16,493	68	0.41%
Orange PCS Group	10	0	0.00%
Romec	10	0	0.00%
Scottish & Southern Electricity Networks	2	0	0.00%
Severn Trent Water Ltd	12	0	0.00%
Southern Gas Networks	98	1	1.02%
Surf Telecoms Ltd	19	0	0.00%
Telefonica (O2 (UK) Limited)	68	0	0.00%
Thames Water Utilities Ltd	24	2	8.33%
T-Mobile (UK) Limited	119	3	2.52%
Virgin Media	2,258	7	0.31%
Vodafone	17	0	0.00%
WarwickNet Ltd	55	5	9.09%
Western Power Distribution	2,323	99	4.26%
<b>Total</b>	<b>37630</b>	<b>408</b>	<b>1.09%</b>

NCC Permit Scheme KPI4

Works Promoter	Applications Received	Working Without a Permit	Working Without a Permit Percentage
Anglian Water	8,154	12	0.15%
BT	4,308	12	0.28%
Cadent Gas Limited	2,320	8	0.34%
Cityfibre	105	0	0.00%
Dept for Transport Stat Roads	1	0	0.00%
Energetics Electricity Limited	21	0	0.00%
Energetics Gas Limited	21	1	4.76%
ES Pipelines Ltd	111	0	0.00%
ESP Electricity Ltd	10	0	0.00%
Fulcrum Pipelines Limited	79	0	0.00%
Gigaclear	649	1	0.15%
GTC	179	0	0.00%
Harlaxton Energy Networks	57	0	0.00%
Hartlepool Water	1	0	0.00%
Independent Next Generation Networks Ltd	7	0	0.00%
Interoute	3	0	0.00%
Level 3 Comms UK Ltd	6	0	0.00%
National Grid Electric PLC	3	0	0.00%
Network Rail	87	0	0.00%
Northamptonshire	16,493	3	0.02%
Orange PCS Group	10	0	0.00%
Romec	10	0	0.00%
Scottish & Southern Electricity Networks	2	0	0.00%
Severn Trent Water Ltd	12	0	0.00%
Southern Gas Networks	98	0	0.00%
Surf Telecoms Ltd	19	0	0.00%
Telefonica (O2 (UK) Limited)	68	0	0.00%
Thames Water Utilities Ltd	24	0	0.00%
T-Mobile (UK) Limited	119	0	0.00%
Virgin Media	2,258	2	0.09%
Vodafone	17	0	0.00%
WarwickNet Ltd	55	0	0.00%
Western Power Distribution	2,323	1	0.04%
<b>Total</b>	<b>37630</b>	<b>40</b>	<b>0.11%</b>



## 9. Appendix 2 – Performance Indicators

	Applications Received			Granted					Refused				
	HighwayAuthority	Utilities	Total	HighwayAuthority	Utilities	Total	Cancelled	%	HighwayAuthority	Utilities	Total	Cancelled	%
Anglian Water	0	8,154	8,154	0	7,100	7,100	1,086	87.07%	0	731	731	345	8.96%
BT	0	4,308	4,308	0	3,722	3,722	725	86.40%	0	473	473	269	10.98%
Cadent Gas Limited	0	2,320	2,320	0	2,080	2,080	396	89.66%	0	137	137	62	5.91%
Cityfibre	0	105	105	0	78	78	35	74.29%	0	6	6	6	5.71%
Dept for Transport Stat Roads	0	1	1	0	1	1	0	100.00%	0	0	0	0	0.00%
Energetics Electricity Limited	0	21	21	0	17	17	4	80.95%	0	3	3	0	14.29%
Energetics Gas Limited	0	21	21	0	15	15	1	71.43%	0	5	5	0	23.81%
ES Pipelines Ltd	0	111	111	0	85	85	10	76.58%	0	17	17	6	15.32%
ESP Electricity Ltd	0	10	10	0	7	7	0	70.00%	0	3	3	0	30.00%
Fulcrum Pipelines Limited	0	79	79	0	66	66	15	83.54%	0	6	6	1	7.59%
Gigaclear	0	649	649	0	527	527	14	81.20%	0	46	46	31	7.09%
GTC	0	179	179	0	129	129	12	72.07%	0	30	30	10	16.76%
Harlaxton Energy Networks	0	57	57	0	34	34	3	59.65%	0	12	12	2	21.05%
Hartlepool Water	0	1	1	0	0	0	0	0.00%	0	0	0	0	0.00%
Independent Next Generation Networks Ltd	0	7	7	0	0	0	0	0.00%	0	3	3	1	42.86%
Interoute	0	3	3	0	3	3	0	100.00%	0	0	0	0	0.00%
Level 3 Comms UK Ltd	0	6	6	0	3	3	0	50.00%	0	0	0	0	0.00%
National Grid Electric PLC	0	3	3	0	2	2	1	66.67%	0	1	1	0	33.33%
Network Rail	0	87	87	0	78	78	18	89.66%	0	6	6	2	6.90%
Northamptonshire	16,361	132	16,493	15,315	33	15,348	488	93.06%	393	0	393	165	2.38%
Orange PCS Group	0	10	10	0	7	7	0	70.00%	0	3	3	0	30.00%
Romec	0	10	10	0	10	10	4	100.00%	0	0	0	0	0.00%
Scottish & Southern Electricity Networks	0	2	2	0	1	1	1	50.00%	0	1	1	1	50.00%
Severn Trent Water Ltd	0	12	12	0	11	11	2	91.67%	0	0	0	0	0.00%
Southern Gas Networks	0	98	98	0	84	84	3	85.71%	0	9	9	0	9.18%
Surf Telecoms Ltd	0	19	19	0	18	18	0	94.74%	0	0	0	0	0.00%
Telefonica (O2 (UK) Limited)	0	68	68	0	51	51	9	75.00%	0	9	9	1	13.24%
Thames Water Utilities Ltd	0	24	24	0	20	20	1	83.33%	0	3	3	1	12.50%
T-Mobile (UK) Limited	0	119	119	0	97	97	6	81.51%	0	11	11	3	9.24%
Virgin Media	0	2,258	2,258	0	2,046	2,046	505	90.61%	0	121	121	76	5.36%
Vodafone	0	17	17	0	15	15	4	88.24%	0	0	0	0	0.00%
WarwickNet Ltd	0	55	55	0	43	43	0	78.18%	0	6	6	0	10.91%
Western Power Distribution	7	2,316	2,323	7	2,116	2,123	120	91.39%	0	123	123	36	5.29%
<b>Total</b>	<b>16368</b>	<b>21262</b>	<b>37630</b>	<b>15322</b>	<b>18499</b>	<b>33821</b>	<b>3463</b>	<b>89.88%</b>	<b>393</b>	<b>1765</b>	<b>2158</b>	<b>1018</b>	<b>5.73%</b>

PI2				
Condition (NCT Code)	Condition Description	HA Works	SU Works	Total
1	Date Constraints	5	4,276	4,281
2	Time Constraints	1,790	3,502	5,292
3	Out of Hours Work	61	219	280
4	Material and Plant Storage	264	643	907
5	Road Occupation Dimensions	273	2,238	2,511
6	Traffic Space Dimensions	24	5,013	5,037
7	Road Closure	6	215	221
8	Light Signals and Shuttle Working	1,430	905	2,335
9	Traffic Management Changes	752	2,343	3,095
10	Work Methodology	1	1,759	1,760
11	Consultation and Publicity	273	4,207	4,480
12	Environmental	1	90	91
13	Local	11,615	45	11,660

PI3						
Works Promoter	Permits Issued	Permits Granted	Revised Duration Requests	Request Percentage	Revised Durations Granted	Requests Granted Percentage
Anglian Water	5597	5197	251	4.48%	241	96.02%
BT	2775	2571	121	4.36%	116	95.87%
Cadent Gas	1247	1167	349	27.99%	332	95.13%
CityFibre	33	32	0	0.00%	0	0.00%
Dept for Transport Stat Roads	1	1	0	0.00%	0	0.00%
Energetics Electricity Ltd	10	9	2	20.00%	1	50.00%
Energetics Gas Ltd	6	5	3	50.00%	3	100.00%
ES Pipelines Ltd	42	34	16	38.10%	16	100.00%
ESP Electricity Ltd	5	2	2	40.00%	2	100.00%
Fulcrum Pipelines Ltd	39	30	3	7.69%	3	100.00%
Gigaclear	442	380	30	6.79%	26	86.67%
GTC	92	75	13	14.13%	11	84.62%
Harlaxton Energy Networks	15	9	6	40.00%	6	100.00%
Hartlepool Water	1	0	0	0.00%	0	0.00%
Independent Next Generation Networks Ltd	1	0	0	0.00%	0	0.00%
Interoute	2	2	0	0.00%	0	0.00%
Level 3 Comms UK Ltd	3	1	0	0.00%	0	0.00%
National Grid Electric Plc	1	0	0	0.00%	0	0.00%
Network Rail	37	35	0	0.00%	0	0.00%
Northamptonshire Highways	14082	13482	231	1.64%	219	94.81%
Orange PCS Group	7	4	0	0.00%	0	0.00%
Romec	6	6	0	0.00%	0	0.00%
Severn Trent Water Ltd	9	9	0	0.00%	0	0.00%
Southern Gas Networks	59	51	10	16.95%	8	80.00%
Surf Telecoms Ltd	12	11	5	41.67%	5	100.00%
Telefonica (O2 (UK) Limited)	32	23	5	15.63%	4	80.00%
Thames Water Utilities Ltd	20	18	0	0.00%	0	0.00%
T-Mobile (UK) Ltd	85	74	0	0.00%	0	0.00%
Virgin Media	1412	1330	41	2.90%	37	90.24%
WarwickNet Ltd	37	34	13	35.14%	8	61.54%
Western Power Distribution	1732	1631	157	9.06%	147	93.63%
<b>Totals</b>	<b>27842</b>	<b>26223</b>	<b>1258</b>		<b>1185</b>	

PI4									
	Early Start Requests			Early Start Agreements			% Early Starts Agreed		
	HighwayAuthority	Utilities	Total	HighwayAuthority	Utilities	Total	HighwayAuthority	Utilities	Total
June 2016	36	15	51	25	5	30	69.44	33.33	58.82
July 2016	50	13	63	13	7	20	26.00	53.85	31.75
August 2016	58	34	92	43	28	71	74.14	82.35	77.17
September 2016	54	32	86	37	23	60	68.52	71.88	69.77
October 2016	31	47	78	18	37	55	58.06	78.72	70.51
November 2016	23	48	71	17	24	41	73.91	50.00	57.75
December 2016	17	24	41	12	13	25	70.59	54.17	60.98
January 2017	43	53	96	35	35	70	81.40	66.04	72.92
February 2017	62	29	91	49	17	66	79.03	58.62	72.53
March 2017	99	23	122	95	8	103	95.96	34.78	84.43
April 2017	74	26	100	71	15	86	95.95	57.69	86.00
May 2017	63	31	94	58	22	80	92.06	70.97	85.11
<b>Total</b>	<b>610</b>	<b>375</b>	<b>985</b>	<b>473</b>	<b>234</b>	<b>707</b>	<b>77.54</b>	<b>62.40</b>	<b>71.78</b>

## 10. Appendix 3 - HAUC TPI Measures

TPI1 Q2 2016						
Promoter	Major	Standard	Minor	Urgent	Emergency	Total
ANGLIAN WATER	92	113	3666	1117	24	5012
BT	32	293	1624	697	106	2752
Cadent Gas Limited	163	236	296	84	421	1200
CityFibre	0	2	33	0	0	35
Energetics Electricity Limited	3	5	2	0	1	11
Energetics Gas Limited	0	1	5	0	0	6
ES Pipelines Ltd	0	36	8	0	1	45
ESP Electricity Ltd	0	5	0	0	0	5
Fulcrum Pipelines Limited	0	33	4	0	0	37
Gigaclear	48	69	175	98	58	448
GTC	4	52	39	0	1	96
Harlaxton Energy Networks	0	14	0	0	0	14
HARTLEPOOL WATER	0	0	0	1	0	1
Independent Next Generation Networks Ltd	0	1	0	0	0	1
Interoute	2	0	0	0	0	2
Level 3 Comms UK Ltd (Global Crossing)	0	0	5	0	0	5
National Grid Electric	1	2	2	1	0	6
NETWORK RAIL -PROMOTERS NATIONAL	25	25	135	3	1	189
NORTHAMPTONSHIRE	912	518	2384	10185	46	14045
Orange PCS Group	0	3	8	0	0	11
Romec	0	3	7	0	0	10
Scottish and Southern Electricity	6	60	14	41	0	121
SEVERN TRENT WATER LTD.	1	0	3	1	3	8
SOUTHERN GAS NETWORKS	10	18	13	0	12	53
Telefonica (O2 (UK) Limited)	0	2	31	0	0	33
Thames Water	1	1	20	7	8	37
T-Mobile (UK) Limited	1	0	73	0	0	74
VIRGIN MEDIA	37	76	1075	128	3	1319
Vodafone	1	0	6	3	0	10
WarwickNet Ltd	4	33	312	80	3	432
Western Power Distribution (Midlands)	73	588	246	645	5	1557
<b>Total</b>	<b>1416</b>	<b>2189</b>	<b>10186</b>	<b>13091</b>	<b>693</b>	<b>27575</b>

Promoter	Major	Standard	Minor	Urgent	Emergency	Total
Anglian Water	96	119	3967	1187	27	5396
BT	30	290	1633	699	105	2757
Cadent Gas Limited	145	231	294	104	420	1194
Cityfibre	0	1	26	0	0	27
Dept for Transport Stat Roads	0	0	1	0	0	1
Energetics Electricity Limited	3	5	2	0	1	11
Energetics Gas Limited	0	2	4	0	0	6
ES Pipelines Ltd	0	28	10	0	0	38
ESP Electricity Ltd	0	5	0	0	0	5
Fulcrum Pipelines Limited	0	35	5	0	0	40
Gigaclear	51	76	174	98	58	457
GTC	2	50	43	0	1	96
Harlaxton Energy Networks	0	14	0	0	0	14
HARTLEPOOL WATER	0	0	0	1	0	1
Independent Next Generation Networks Ltd	0	1	0	0	0	1
Interoute	2	0	0	0	0	2
Level 3 Comms UK Ltd (Global Crossing)	0	0	5	0	0	5
National Grid Electric PLC	0	0	1	0	0	1
Network Rail	22	9	24	2	0	57
Northamptonshire	910	519	2362	10186	46	14023
Orange PCS Group	0	4	3	0	0	7
Romec	0	0	6	0	0	6
Severn Trent Water Ltd	1	0	4	0	3	8
Southern Gas Networks	8	19	11	0	12	50
Telefonica (O2 (UK) Limited)	0	3	30	0	0	33
Thames Water Utilities Ltd	1	0	7	9	8	25
T-Mobile (UK) Limited	1	0	78	0	0	79
Virgin Media	30	86	1178	130	4	1428
Vodafone	1	0	7	3	0	11
WarwickNet Ltd	0	27	6	0	0	33
Western Power Distribution (Midlands)	69	638	259	683	5	1654
<b>Total</b>	<b>1372</b>	<b>2162</b>	<b>10140</b>	<b>13102</b>	<b>690</b>	<b>27466</b>

TPI3 - Days of Occupancy						
Works Promoter	Major	Standard	Minor	Urgent	Emergency	Total
Anglian Water	1036	1009	11586	5725	66	19422
BT	298	3075	5135	2312	318	11138
Cadent Gas Ltd	5089	1367	965	580	2932	10933
CityFibre	0	2	111	0	0	113
Dept for Transport Stat Roads	0	0	1	0	0	1
Energetics Electricity Limited	148	45	18	0	1	212
Energetics Gas Limited	0	22	20	0	0	42
ES Pipelines Ltd	0	334	33	0	0	367
ESP Electricity Ltd	0	64	0	0	0	64
Fulcrum Pipelines Limited	0	238	20	0	0	258
Gigaclear	1515	1277	585	220	113	3710
GTC	150	531	79	0	2	762
Harlaxton Energy Networks	0	165	0	0	0	165
HARTLEPOOL WATER	0	0	0	1	0	1
Independent Next Generation Networks Ltd	0	7	0	0	0	7
Interoute	119	0	0	0	0	119
Level 3 Comms UK Ltd (Global Crossing)	0	0	10	0	0	10
NETWORK RAIL - PROMOTERS NATIONAL	109	61	30	3	0	203
NORTHAMPTONSHIRE	30131	8230	15432	17625	51	71469
Orange PCS Group	0	16	7	0	0	23
Romec	0	0	6	0	0	6
SEVERN TRENT WATER LTD	5	0	4	0	10	19
SOUTHERN GAS NETWORKS	349	178	49	0	79	655
Telefonica (O2 (UK) Limited)	0	31	55	0	0	86
Thames Water Utilities Ltd	19	0	10	78	31	138
T-Mobile (UK) Limited	1	0	166	0	0	167
VIRGIN MEDIA	1148	1164	2844	332	7	5495
Vodafone	1	0	9	2	0	12
WarwickNet Ltd	0	356	38	0	0	394
Western Power Distribution (Midlands)	2690	4685	442	4231	7	12055
<b>All Works Promoters (totals)</b>	<b>42808</b>	<b>22857</b>	<b>37655</b>	<b>31109</b>	<b>3617</b>	<b>138046</b>

TPI4				
Works Category	Utilities		Authority	
	Average Duration	Quantity	Average Duration	Quantity
Major	15.92	560	17.62	989
Standard	6.83	1780	5.97	511
Minor	2.40	8126	2.01	2254
Immediate - Urgent	3.66	3008	1.03	10195
Immediate - Emergency	4.02	661	1.03	46

TPI5 - Phases Completed on Time			
Works Promoter	Over-run	No. of Works	Completed on Time %
ANGLIAN WATER	13	5,590	99.77
BT	12	2,869	99.58
Cadent Gas Limited	115	1,529	92.48
CityFibre	0	33	100.00
Dept for Transport Stat Roads	0	1	100.00
Energetics Electricity Limited	1	16	93.75
Energetics Gas Limited	1	6	83.33
ES Pipelines Ltd	1	41	97.57
ESP Electricity Ltd	0	5	100.00
Fulcrum Pipelines Limited	2	39	94.87
Gigaclear	6	480	98.75
GTC	2	95	97.89
Harlaxton Energy Networks	0	15	100.00
HARTLEPOOL WATER	0	1	100.00
Independent Next Generation Networks Ltd	1	1	0.00
Interoute	0	2	100.00
Level 3 Comms UK Ltd (Global Crossing)	0	5	100.00
National Grid Electric PLC	0	1	100.00
NETWORK RAIL -PROMOTERS NATIONAL	0	60	100.00
NORTHAMPTONSHIRE	92	14,205	99.35
Orange PCS Group	0	8	100.00
Romec	0	6	100.00
SEVERN TRENT WATER LTD.	0	9	100.00
SOUTHERN GAS NETWORKS	2	61	96.73
SURF TELECOMS LTD	0	12	100.00
Telefonica (O2 (UK) Limited)	0	33	100.00
Thames Water	0	23	100.00
T-Mobile (UK) Limited	0	83	100.00
VIRGIN MEDIA	16	1,475	98.92
Vodafone	0	10	100.00
WarwickNet Ltd	2	35	94.29
Western Power Distribution (Midlands)	21	1729	98.79
Total	287	28,478	99.00

**TPI6 - Number of deemed permit applications**

June 2016		Utilities		Permit Authority		Deemed Percentage
Phase Category	Deemed	Not Deemed	Deemed	Not Deemed		
June Totals	10	1,086	8	1299	0.75%	
July Totals	12	1,064	8	1215	0.88%	
August Totals	13	1,168	7	1223	0.84%	
September Totals	10	1,196	12	1320	0.87%	
October Totals	11	1,184	1	1208	0.50%	
November Totals	13	1,253	4	1295	0.68%	
December Totals	3	952	3	851	0.33%	
January Totals	15	1,162	10	1007	1.15%	
February Totals	5	1,090	6	996	0.53%	
March Totals	8	1,349	11	1227	0.74%	
April Totals	5	1,063	0	1144	0.23%	
May Totals	1	1,147	0	1198	0.04%	
Yearly Total	106	13,714	70	13983	0.64%	

**TPI7 - Number of phase one permanent registrations**

Utility Company	Major	Standard	Minor	Urgent	Emergency	Total
ANGLIAN WATER	81	73	2309	887	9	3359
BT	23	254	1133	581	85	2076
Cadent Gas Limited	129	217	225	95	366	1032
CityFibre	0	1	5	0	0	6
Dept for Transport Stat Roads	0	0	1	0	0	1
Energetics Electricity Limited	1	2	3	0	0	6
Energetics Gas Limited	0	1	1	0	0	2
ES Pipelines Ltd	0	15	5	0	0	20
ESP Electricity Ltd	0	5	0	0	0	5
Fulcrum Pipelines Limited	0	23	3	0	0	26
Gigaclear	50	73	90	87	54	354
GTC	3	29	7	0	0	39
Harlaxton Energy Networks	0	11	0	0	0	11
Interoute	2	0	0	0	0	2
Level 3 Comms UK Ltd	0	1	0	0	0	1
NETWORK RAIL	0	0	1	0	0	1
NORTHAMPTONSHIRE	295	220	1077	4098	16	5706
Orange PCS Group	0	0	3	0	0	3
Romec	0	0	5	0	0	5
SEVERN TRENT WATER LTD.	0	0	2	0	3	5
SOUTHERN GAS NETWORKS	5	20	9	0	15	49
Telefonica (O2 (UK) Limited)	0	2	9	0	0	11
Thames Water Utilities Ltd	0	0	2	6	2	10
T-Mobile (UK) Limited	1	0	31	0	0	32
VIRGIN MEDIA	32	70	806	78	3	989
Vodafone	0	0	4	1	0	5
WarwickNet Ltd	0	25	6	0	0	31
Western Power Distribution (Midlands)	57	542	34	575	2	1210
<b>Total</b>	<b>679</b>	<b>1584</b>	<b>5771</b>	<b>6408</b>	<b>555</b>	<b>14997</b>



## 11. Appendix 4 - Authority Measures

AM1									
	Collaborative Phases			Working Days Saved			Calendar Days Saved		
	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total
June 2016	1	4	5	2	13	15	2	15	17
July 2016	0	8	8	0	46	46	0	62	62
August 2016	0	8	8	0	106	106	0	136	136
September 2016	0	5	5	0	84	84	0	114	114
October 2016	0	10	10	0	80	80	0	102	102
November 2016	0	7	7	0	42	42	0	54	54
December 2016	0	3	3	0	18	18	0	24	24
January 2017	0	13	13	0	92	92	0	121	121
February 2017	0	9	9	0	125	125	0	173	173
March 2017	0	2	2	0	5	5	0	5	5
April 2017	0	6	6	0	23	23	0	30	30
May 2017	0	11	11	0	40	40	0	54	54
<b>Totals</b>	<b>1</b>	<b>86</b>	<b>87</b>	<b>2</b>	<b>674</b>	<b>676</b>	<b>2</b>	<b>890</b>	<b>892</b>

AM2									
	Phase Total			Working Days Saved			Calendar Days Saved		
	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total
June 2016	1	2	3	7	2	9	7	6	13
July 2016	4	5	9	17	6	23	17	8	25
August 2016	1	6	7	1	9	10	2	5	7
September 2016	0	6	6	0	9	9	0	16	16
October 2016	0	1	1	0	1	1	0	3	3
November 2016	1	1	2	2	1	3	2	3	5
December 2016	0	3	3	0	5	5	0	5	5
January 2017	0	7	7	0	13	13	0	21	21
February 2017	3	3	6	3	8	11	5	11	16
March 2017	3	9	12	22	78	100	32	100	132
April 2017	2	9	11	3	36	39	3	50	53
May 2017	0	3	3	0	8	8	0	10	10
<b>Totals</b>	<b>15</b>	<b>55</b>	<b>70</b>	<b>55</b>	<b>176</b>	<b>231</b>	<b>68</b>	<b>238</b>	<b>306</b>

AM3a

	Phase Total			Working Days Saved			Calendar Days Saved		
	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total
June 2016	1	2	3	7	2	9	7	6	13
July 2016	4	5	9	17	6	23	17	8	25
August 2016	1	6	7	1	9	10	2	5	7
September 2016	0	6	6	0	9	9	0	16	16
October 2016	0	1	1	0	1	1	0	3	3
November 2016	1	1	2	2	1	3	2	3	5
December 2016	0	3	3	0	5	5	0	5	5
January 2017	0	7	7	0	13	13	0	21	21
February 2017	3	3	6	3	8	11	5	11	16
March 2017	3	9	12	22	78	100	32	100	132
April 2017	2	9	11	3	36	39	3	50	53
May 2017	0	3	3	0	8	8	0	10	10
<b>Totals</b>	<b>15</b>	<b>55</b>	<b>70</b>	<b>55</b>	<b>176</b>	<b>231</b>	<b>68</b>	<b>238</b>	<b>306</b>

AM3b

	Collaborative Phases			Working Days Saved			Calendar Days Saved		
	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total	Highway Authority	Utilities	Total
June 2016	1	4	5	2	13	15	2	15	17
July 2016	0	8	8	0	46	46	0	62	62
August 2016	0	8	8	0	106	106	0	136	136
September 2016	0	5	5	0	84	84	0	114	114
October 2016	0	10	10	0	80	80	0	102	102
November 2016	0	7	7	0	42	42	0	54	54
December 2016	0	3	3	0	18	18	0	24	24
January 2017	0	13	13	0	92	92	0	121	121
February 2017	0	9	9	0	125	125	0	173	173
March 2017	0	2	2	0	5	5	0	5	5
April 2017	0	6	6	0	23	23	0	30	30
May 2017	0	11	11	0	40	40	0	54	54
<b>Totals</b>	<b>1</b>	<b>86</b>	<b>87</b>	<b>2</b>	<b>674</b>	<b>676</b>	<b>2</b>	<b>890</b>	<b>892</b>

## AM4

Works Promoter	Over-run	No. of Works	Over-run %
ANGLIAN WATER	13	5,590	0.23
BT	12	2,869	0.42
Cadent Gas Limited	115	1,529	7.52
CityFibre	0	33	0.00
Dept for Transport Stat Roads	0	1	0.00
Energetics Electricity Limited	1	16	6.25
Energetics Gas Limited	1	6	16.67
ES Pipelines Ltd	1	41	2.43
ESP Electricity Ltd	0	5	0.00
Fulcrum Pipelines Limited	2	39	5.13
Gigaclear	6	480	1.25
GTC	2	95	2.11
Harlaxton Energy Networks	0	15	0.00
HARTLEPOOL WATER	0	1	0.00
Independent Next Generation Networks Ltd	1	1	100.00
Interoute	0	2	0.00
Level 3 Comms UK Ltd (Global Crossing)	0	5	0.00
National Grid Electric PLC	0	1	0.00
NETWORK RAIL -PROMOTERS NATIONAL	0	60	0.00
NORTHAMPTONSHIRE	92	14,205	0.65
Orange PCS Group	0	8	0.00
Romec	0	6	0.00
Scottish & Southern Electricity Networks	0	2	0.00
SEVERN TRENT WATER LTD.	0	9	0.00
SOUTHERN GAS NETWORKS	2	61	3.27
SURF TELECOMS LTD	0	12	0.00
Telefonica (O2 (UK) Limited)	0	33	0.00
Thames Water	0	23	0.00
T-Mobile (UK) Limited	0	83	0.00
VIRGIN MEDIA	16	1,475	1.08
Vodafone	0	10	0.00
WarwickNet Ltd	2	35	5.71
Western Power Distribution (Midlands)	21	1729	1.21
<b>Total</b>	<b>287</b>	<b>28,480</b>	<b>1.00</b>

AM5					
FPN's Given	70(6)	74(7B)	19(1)	20(1)	Total
ANGLIAN WATER	0	30	13	44	87
BT	4	26	12	50	92
Cadent Gas Limited	7	152	16	83	258
CityFibre	1	2	0	0	3
Dept for transport Stat Roads	0	0	0	0	0
Energetics Electricity Limited	0	0	0	0	0
Energetics Gas Limited	0	2	1	0	3
ES Pipelines Ltd	0	0	0	3	3
ESP Electricity Ltd	0	0	0	0	0
Fulcrum Pipelines Limited	2	11	1	1	15
Gigaclear	0	8	2	19	29
GTC	0	1	0	3	4
Harlaxton Energy Networks	0	0	0	3	3
Hartlepool Water	0	0	0	0	0
Independent Next Generation Networks Ltd	0	0	0	1	1
Interoute	1	0	0	0	1
Level 3 Comms UK Ltd	0	0	0	0	0
National Grid Electric PLC	0	0	0	0	0
NETWORK RAIL -PROMOTERS NATIONAL	2	2	0	4	8
NORTHAMPTONSHIRE	63	67	9	71	210
Orange PCS Group	0	0	0	0	0
Romec	0	0	0	0	0
Scottish & Southern Electricity Networks	0	0	0	0	0
Severn Trent Water Ltd	0	0	0	0	0
SOUTHERN GAS NETWORKS	0	2	0	1	3
Surf Telecoms Ltd	0	0	0	0	0
Telefonica (O2 (UK) Limited)	1	2	0	0	3
Thames Water	0	3	0	0	3
T-Mobile (UK) Limited	0	0	0	2	2
VIRGIN MEDIA	20	6	2	5	33
Vodafone	0	0	0	0	0
WarwickNet Ltd	8	1	1	3	13
Western Power Distribution (Midlands)	21	21	3	92	137
<b>Total</b>	<b>130</b>	<b>336</b>	<b>60</b>	<b>385</b>	<b>911</b>