



Essex Permit Scheme

End of Year 3 Review

April 2018

Document Control Sheet

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Table of revisions

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1 Objectives of the Essex County Council Permit Scheme

Essex County Council have operated a permit scheme since 16th March 2015 and have produced an annual review which explores the benefits and the fees associated with operating the scheme. The objectives of Essex County Council's (ECC) Permit Scheme are set out in Section 2 of the original Scheme Document. These are summarised below along with a description of how they have been met.

- To proactively manage the local highway network to maximise the safe and efficient use of road space including:
 - Adopting industry best practice from Highway Authorities Utilities Committee (HAUC),
 - Site meetings to discuss the method of a work activity taking into consideration all highway users,
 - Applying measured conditions in line with HAUC (England) Guidance for the Operation of Permit Scheme
 - Maximising collaborative working to encourage the efficient use of occupied road space

- To improve the quality and timeliness of information and compliance with highway legislation from all activity promoters.
 - Essex County Council implemented a target response objective in 2015 which is still in operation today as we aim to process permit applications quicker, the information can be made available to the public earlier and allow the works promoter earlier confirmation of the works, Furthermore the public benefits through more accurate information being available through www.roadworks.org

- To improve the information available to the public to help provide and inform reliable journey times.
 - Essex County Council continues to encourage works promoters and the Permit Team to provide regular updates to ECC's Traffic Control Centre, if the Traffic Management on site is going to change and adversely affect the network during critical periods, allowing the information to be shared out through multiple media channels (i.e. Radio, Twitter, Elgin (www.roadworks.org), etc.) and be presented to Highway Users, thus improving the timeliness and quality of information.

- To ensure the safety of those using the street and those working on activities that fall under the scheme, with particular emphasis on people with disabilities.
 - We are continuing to utilise our Permit Scheme to further reduce the occupation/duration of work activities. The new HAUC (England)

Guidance for the Operation of Permit Scheme provides the industry with further clarification and supports Permit Authorities when imposing conditions. One of the conditions can be agreed with a promoter is that of available widths of footway/carriageway when undertaking works. If required, wider remaining widths are to be available to all Highway Users over and above the minimums outlined in the codes of practice. Therefore reducing exposure to works by occupation/duration and ensuring protecting remaining widths during works activities, safety is ensured as well the movement of all highway users.

- To protect the structure of the street and the integrity of the apparatus in it.
 - Continued performance meetings alongside the enhanced checks undertaken at the planning stage (i.e. permit co-ordinates and proposed route of apparatus). ECC still undertakes its duties under NSRWA in the protection of the Asset, however, the enhanced elements undertaken within the Permit Scheme improve the outcome
- To ensure parity of treatment for all activity promoters particularly between statutory undertakers and highway authority works and activities
 - Essex County Council, undertake the same checks for all work promoters to ensure parity treatment on our network. ECC works with its integrated partner through KPI's to drive improvements. All promoters have performance reviews to establish any trends to aid improvement and betterment of the co-ordination/delivery of works on the ECC network.

2 Fee structure

The Permit Scheme fee structure in Essex will continued to be assessed to ensure the scheme is recovering all allowable associated costs to ensure the scheme remains cost neutral. Essex County Council have reviewed year 3 (2017/18) operational expenditure and income received for this period and the scheme still demonstrates that the Essex Permit Scheme is charging fees correctly to ensure that income is not unreasonably exceeding the prescribed costs in accordance with the requirements of the Permit Scheme.

The Essex Permit Scheme generated revenue of £1,613,326 against expenditure of £1,858,389 during the operational year of 2017/18 which resulted in an under recovery of £245,063.

3 Evaluation of the Scheme

The benefits the scheme has delivered in 2017/18 are highlighted below:

- **181** instances of collaboration were recorded this year (16 less than in the previous year). A total of 669 days were saved through these instances of collaboration; this is a 36% increase on 2016-17 (244 days more).
- **96,650** total permits and permit variations were processed this year; a 7% increase in volume in comparison to last year (89,871) and a 21% increase on 2015-16 (79,934)
- **71,704** permits and permit variations were granted this year; **74%** of all applications received.
- **24,838** (and permit variations) were refused this year; **26%** of all applications received.
- **19%** of applications from the Highway Authority were refused, and **28%** of applications from Utilities.
- **33,061** variation requests were made this year, a **15%** increase on the previous year (where 27,880 variations were received); of these variations **24,513** were granted (**76%** of requests; 77% Yr. 2).
- **0** permits/permit variations were classified by our Streetworks system as deemed (to be granted as response time missed) this year, meaning **100%** of works were reviewed by the Essex permit team within the required timescale (this figures matches performance in previous years).
- **94,988** conditions were applied this year (an increase on the previous 90,151). This is likely due to the volumes in permit applications.
- **16%** of duration variation applications were denied this year for all work promoters, wherein promoters were unable to complete works within their given time frame as a result of poor planning.
- **8,131** Permit condition inspections were conducted, of which **1,263** were found to be non-compliant. This is a 16% failure rate, which is an improvement on Yr. 2 18.1% failure rate.
- **11,749** Highway & Utility Permits were offered a 15% and 100% discount for working wholly outside Traffic Sensitive times or undertaking Collaborative working (respectively). This is seen as positive behaviour leading to further

minimised disruption to our busiest roads at the busiest time which is, over and above applying conditions to sites/permits. The table below shows savings to utilities and ECC (Highway) plus the society benefits to the residents and business of Essex

	Number of permits	Cost Saving to organisations	Society Benefit (20.16:1)
Highway	4,792	£157,500.10*	£3,175,202
Utilities	6,957	£205,096.95	£4,134,754
Total	11,749	£362,597.05	£7,309,956

*Opportunity cost saving because of approach of internal permitting

- **0.2%** is the average deviation from our draft statement to final invoice (down from 0.8% in Yr2, which shows the commitment to the Invoicing Team's accuracy and ability to deliver under the demanding volumes. The team review all grants and variations to ensure correct discounts are added and the correct charge is applied to permits.

4 Performance Indicators

Nationally Permit Schemes are measured through the use of 3 different types of performance indicators and they are:

- Indicators that the DfT require in all approved permit schemes – These are in section 4
- HAUC England KPI measures – Set out in Section 5
- Authority Measures – Which ECC set out within the Permit Scheme Document – Set out in section 6

4.1 KPI1 The Number of Permit and Permit Variation Applications

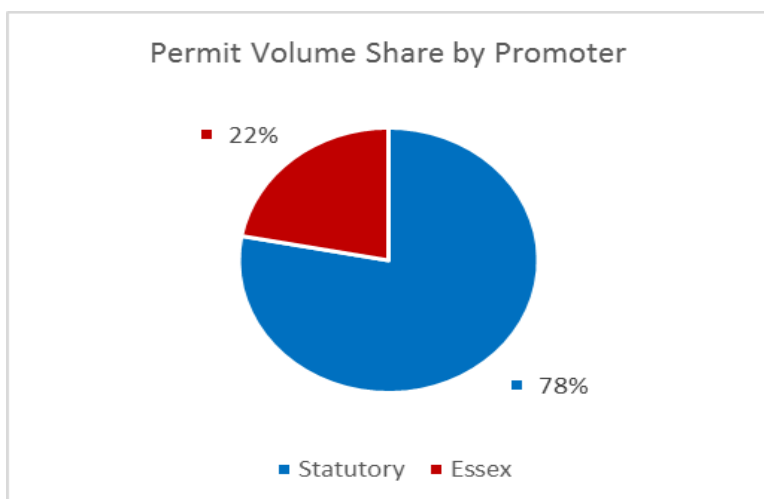
The number of permits and permit variation applications received, the number granted and the number refused excluding any applications that are subsequently withdrawn.

STATUTORY UNDERTAKERS	Granted			Refused		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation
TOTALS BY PERMIT TYPE	1870	33117	19615	1142	12576	7008

ESSEX	Granted			Refused		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation
TOTALS BY PERMIT TYPE	2534	9201	5475	485	2664	963

4.2 KPI1 The Number of Permit Applications Granted

The number of permit applications granted as a percentage of the total applications made.



4.3 KPI1 The Number of Permit Applications Refused

The number of permit applications refused as a percentage of the total applications made.

These are explored in more detail in tables 1 & 2 of Appendixes A(i) & A(ii) and show a breakdown of permit applications received, granted and refused for the third year of operation in Essex County Council. The complete summary of the data can be found in Appendixes A(i), A(ii) & A(iii).

The chart below shows the split of permit applications received from both highway authority and utility promoters. On average, highway authorities generated 22% and utility promoters 78% of the applications received.

The table below shows a comparison of the volume of conditions applied to permits during Yr1, Yr2 and Yr3. The table shows an increase of 4814 on the previous year, due to a higher volume of permits across all involved parties.

PERMIT CONDITIONS	Yr1	Yr2	Yr3
1. Date Constraints	6752	3192	2811
2. Time Constraints	19957	17625	19970
3. Out of Hours Work	4804	4327	2652
4. Material and Plant Storage	4401	3954	3142
5. Road Occupation Dimensions	3314	2952	2635
6. Traffic Space Dimensions	15981	15118	12429
7. Road Closure	4137	5153	6800
8. Light Signals and Shuttle Working	9005	9375	10570
9. Traffic Management Changes	6955	11148	13542
10. Works Methodology	4847	5225	5544
11. Consultation and Publicity	9236	10812	12716
12. Environmental	1072	1060	2071
13. Local	500	210	106
TOTAL	90961	90151	94988
Difference between Previous Year		-810	+4814

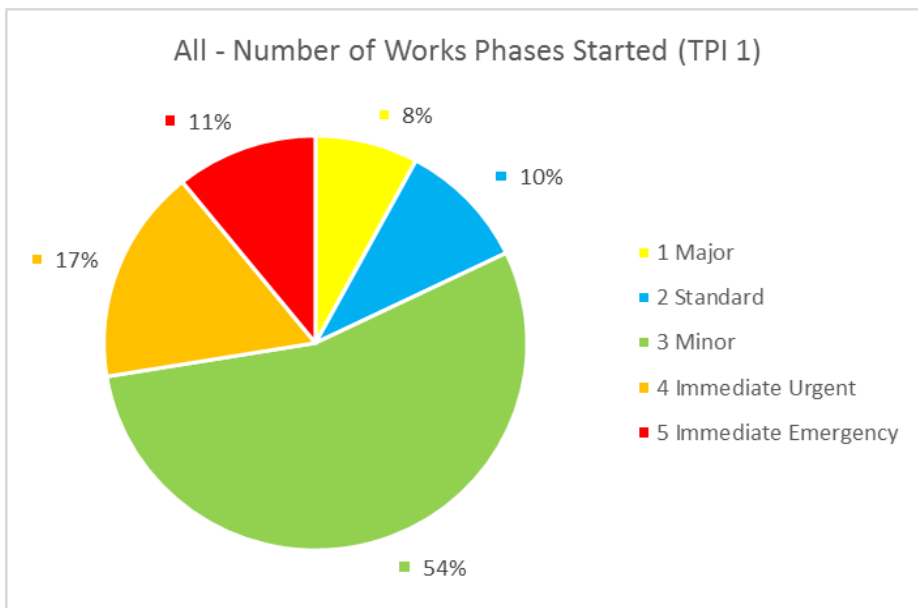
The tables in Appendixes B(i), B(ii) & B(iii), and the graphs in G(iv) show the percentage of permit conditions applied against permits in relation to works for road purposes and streets works undertaken on the basis of the 13 standard EToN conditions.

5 HAUC England KPI Measures

This section outlines the Permit Indicators (KPI) contained as Annex A within the Statutory Guidance for Highway Authority Permit Schemes.

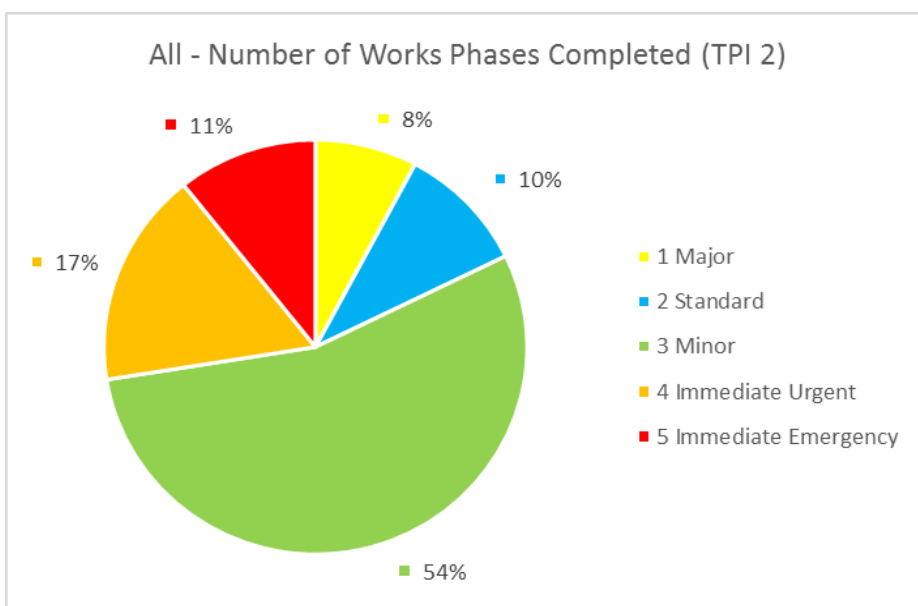
These indicators for permit schemes are additional to the general TMA Performance Indicators (TPIs) which are already being produced through DfT scorecard., ECC (like all permit authorities) also has to report on a number of KPI indicators which our outlined in our Permit Scheme document.

5.1 TPI 1 Works Phases Started (Base Data)



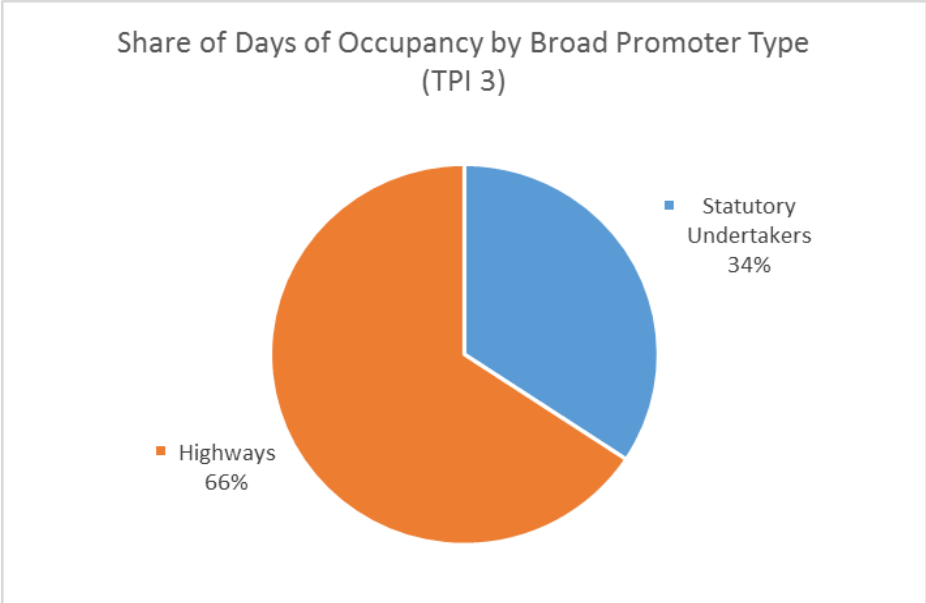
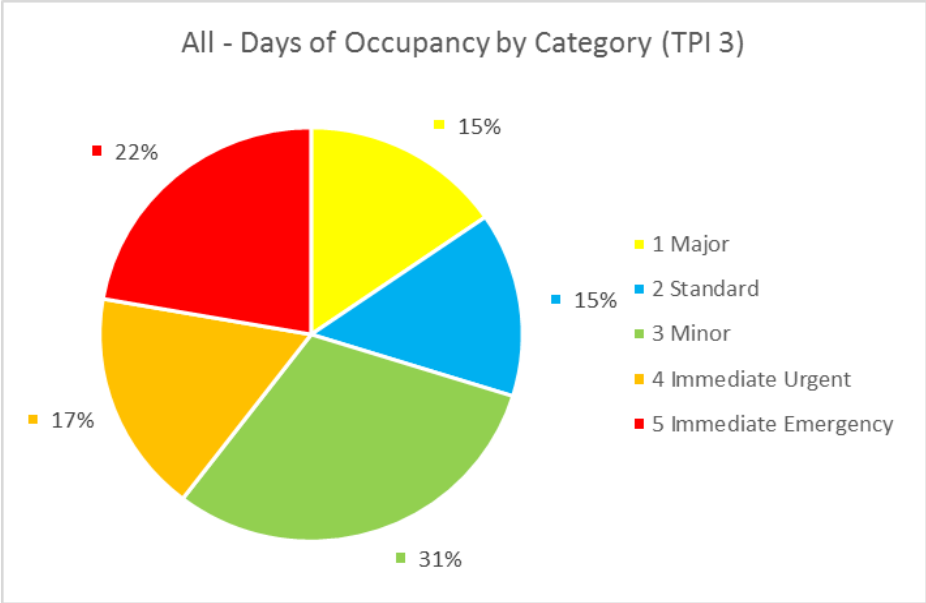
5.2 TPI 2 Works Phases Completed (Base Data)

The results are fully explored in Appendix C(i) for the current operational year (Yr3).

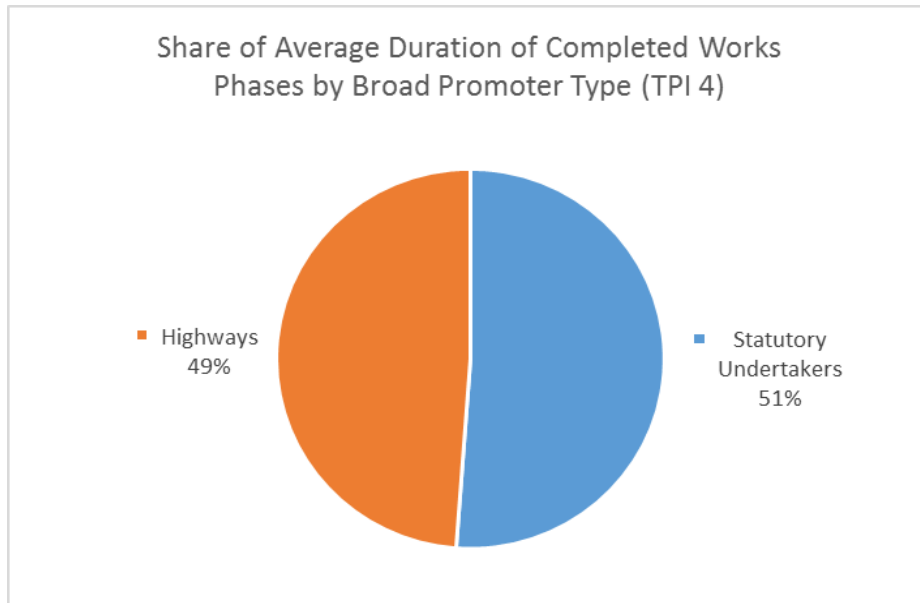


5.3 TPI 3 Days of Occupancy Phases Completed

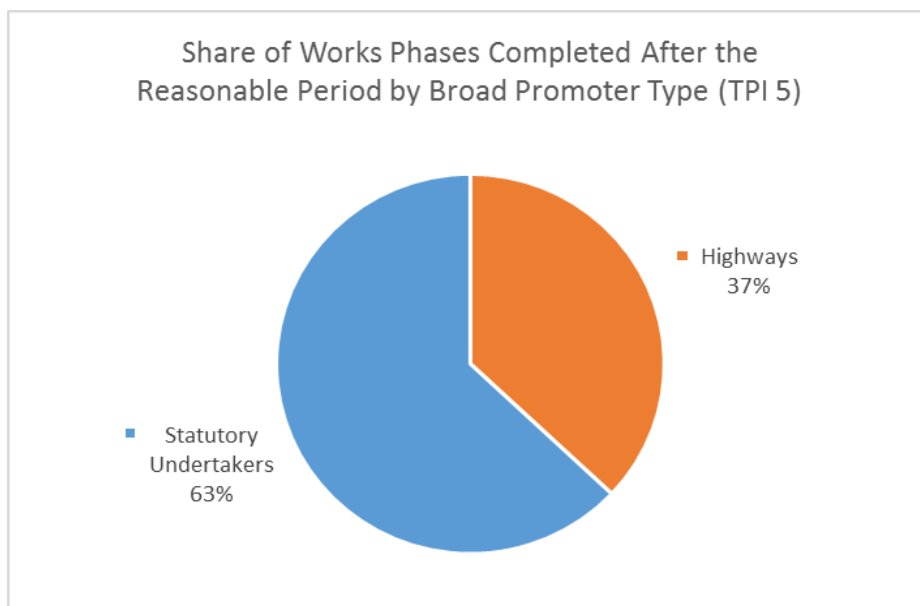
The results are further explored in Appendixes D(i) & D(ii).



5.4 TPI 4 Average Duration of Works



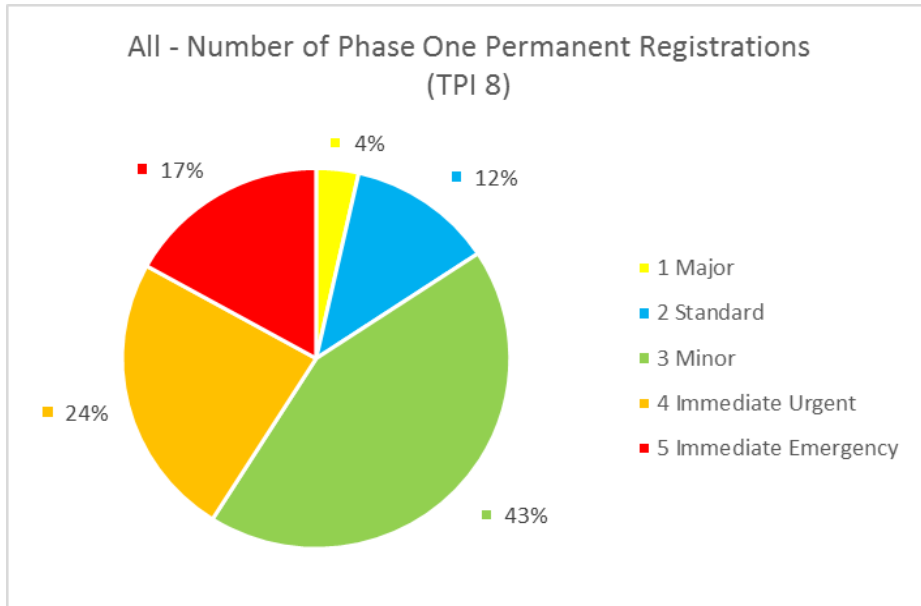
5.5 TPI 5 Phases Completed After the Reasonable Period



5.6 TPI 6 Number of Deemed Permit Application (Not Included Under GeoPlace Figures)

No Permit Applications Deemed this year, therefore no data or graphic representation can be provided.

5.7 TPI 8 Number of Phase One Permanent Registrations



6 Authority Measures

This section outlines the Permit Indicators (TPI) contained as Appendix E(i) – E(iii) within the Statutory Guidance for Highway Authority Permit Schemes. These indicators for permit schemes are additional to the general TMA Performance Indicators (KPIs & AMs), ECC (like all permit authorities) also has to report on a number of KPI indicators which our outlined in our Permit Scheme document.

6.1 AM 1 Inspections

Number of failed permit compliance inspections (where one or more permit conditions have been breached) shown as a percentage of the total undertaken within a period.

Year of Operation	Condition Inspections Total	Non-Compliant	Percentage of Non-Compliance	Cat A Inspections Total	Failed Cat A Inspections	Percent age of Failures
Year 1	6608	1213	18.36%	No Data	No Data	No Data
Year 2	7325	1326	18.10%	672	88	13%
Year 3	8131	1263	15.53%	3076	288	9%

6.2 AM 2 Number of Collaborative Works

The authority data of the number of collaborative works and the number of days saved as a result of collaborative works on the authority road network.

This measure is the number of days of disruption saved through the various co-ordination methods available e.g. collaborative works or challenging initial duration and/or proposed methodology of working (whether formally through the S74 mechanism or through informal discussion at the planning stage).

This data was collated outside the EToN Streetworks System and a summary of the output is shown overleaf.

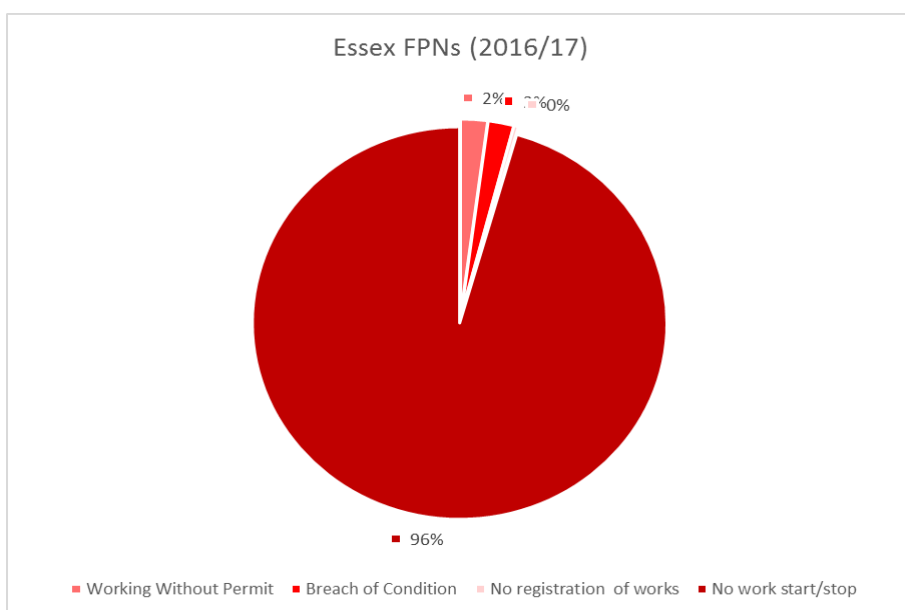
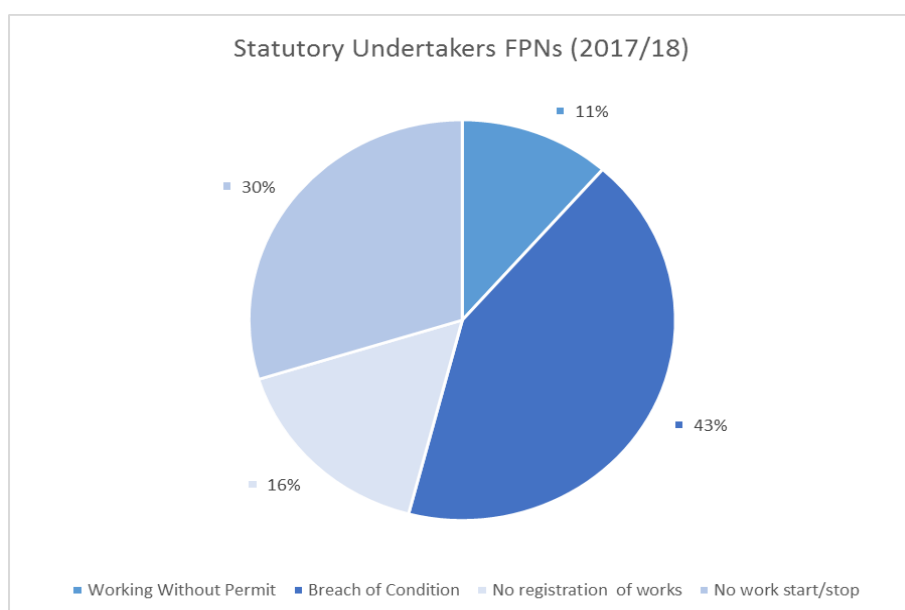
Year of Operation	Instances of Collaboration	Number of Days Saved	Average Number of Days Saved per Instance
Year 1	191	No Data	No Data
Year 2	197	425	2
Year 3	181	669	4

The table above shows that, while instances of collaboration decreased this year, the average number of days saved per instance doubled, and the total number of days saved increased greatly.

6.3 AM 4 FPNs

See below breakdown of FPNs given, by promoter FPN type.

Offence Type	Statutory Undertakers	Highways/Essex
Working Without a Permit (Reg.19)	393	45
Breach of Condition (Reg.20)	1516	46
Registration (s.70)	540	7
Works Start/Stop (s.74b)	1041	2139
TOTAL	3490	2237



9 Conclusion

The Essex County Council Permit Scheme has been in operation for 3 years. Through the permit scheme, new ways of working continue to be developed and ECC aspires to be one of the leading authorities and exemplar of good practice in both permitting and undertaking our network management duty as well as facilitating works to encourage economic growth with an emphasis on driving parity between all work promoters on the network. For example ECC and the Permit Team supporting the Department for Culture, Media and Sport (DCMS) in the rollout of broadband across Essex and England.

The high level benefits and achievements explored through the report for year 3 once again demonstrate the success of the scheme and the collaboration between the Authority and Work Promoters. ECC is continuing to build on and exceed the achievements made in year 1. Through the operation of years 1, 2 and 3 the Scheme has shown trends which have been identified mostly as a positive journey however, there are some which require improvement which will be continued to be targeted in year 4 of operation, for example: trying to reduce the duration of immediate emergency works on ECC's busiest parts of the network (Appendix E(i)) and reducing the amount of Permit Conditions Inspections which have been non-complaint, were work promoters have not worked to the agreed conditions on site.

Essex County Council has committed to work within and adopt the HAUC (England) Operation of Permit Scheme guidance document as industry best practice. ECC also welcomes the DfT's announcement around the possible ability to investigate and apply to operate a Lane Rental Scheme, although, the industry awaits the latest guidance to be published, ECC will fully investigate the benefits this could bring to the residents of Essex

10 Glossary

Yr1 – The first fully charged operational year of the Essex Permit Scheme which is from the 1st April 2015 to 31st March 2016 (Excludes the soft launch period from the 16th March 2015 to 31st March 2015).

Yr2 – The second fully charged operational year of the Essex Permit Scheme which is from the 1st April 2016 to 31st March 2017.

Yr3- The third fully charged operational year of the Essex Permit Scheme which is from the 1st April 2017 to 31st March 2018

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

Appendix A(i) – Grants, Refusals & Deems

RESPONSE BY APPLICATION TYPE (TABLE 1):

STATUTORY UNDERTAKERS	Granted			Refused			Deemed			TOTALS		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation
Immediate - Urgent	0	6762	2325	0	71	260	0	0	0	0	6833	2585
Immediate - Emergency	0	4251	1887	0	47	230	0	0	0	0	4298	2117
Minor	0	18177	10389	0	9426	4130	0	0	0	0	27603	14519
Standard	0	2683	3736	0	2575	1966	0	0	0	0	5258	5702
Major	1870	1244	1278	1142	457	422	0	0	0	3012	1701	1700
TOTALS BY PERMIT TYPE	1870	33117	19615	1142	12576	7008	0	0	0	3012	45693	26623
TOTALS BY RESPONSE TYPE	54602			20726			0			75328		

ESSEX	Granted			Refused			Deemed			TOTALS		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation
Immediate - Urgent	0	401	75	0	2	3	0	0	0	0	403	78
Immediate - Emergency	0	217	41	0	1	2	0	0	0	0	218	43
Minor	0	5680	2905	0	2063	501	0	0	0	0	7743	3406
Standard	0	674	1128	0	410	275	0	0	0	0	1084	1403
Major	2534	2229	1326	485	188	182	0	0	0	3019	2417	1508
TOTALS BY PERMIT TYPE	2534	9201	5475	485	2664	963	0	0	0	3019	11865	6438
TOTALS BY RESPONSE TYPE	17210			4112			0			21322		

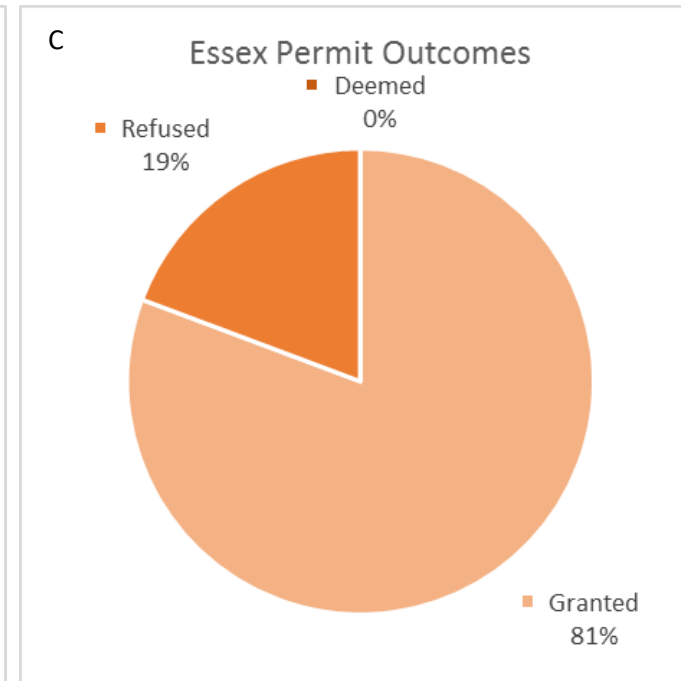
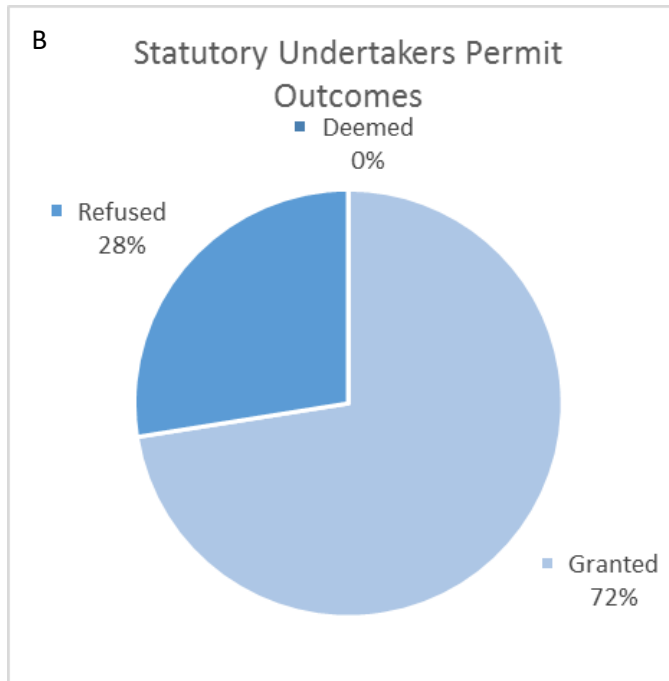
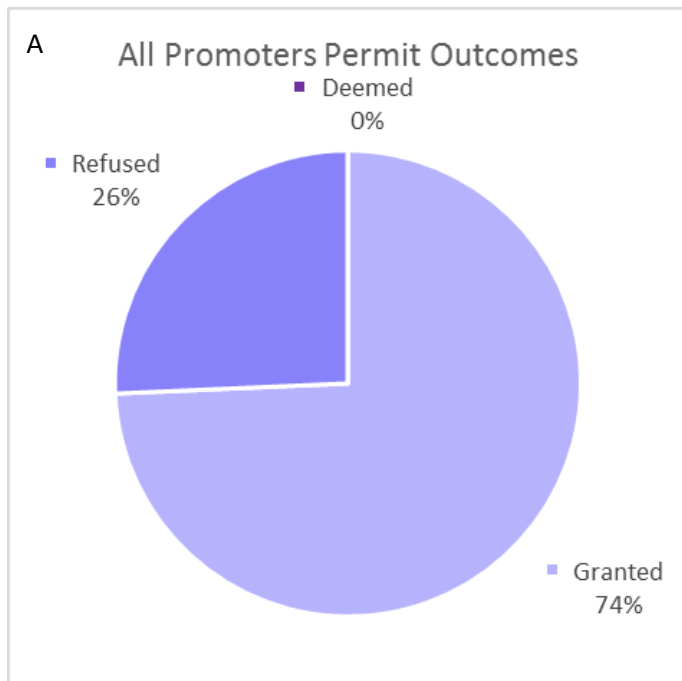
Appendix A(ii) – Grants, Refusals & Deems

RESPONSE BY APPLICATION MONTH (TABLE 2):

STATUTORY UNDERTAKERS	Granted			Refused			Deemed		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation
Apr-17	170	2463	1336	76	977	485	0	0	0
May-17	207	2879	1655	113	1245	601	0	0	0
Jun-17	206	3042	1559	95	1177	492	0	0	0
Jul-17	187	2846	1613	88	1051	546	0	0	0
Aug-17	167	2905	1568	121	970	548	0	0	0
Sep-17	144	2683	1512	113	1003	547	0	0	0
Oct-17	127	2893	1723	93	1229	694	0	0	0
Nov-17	129	2943	1819	83	1087	581	0	0	0
Dec-17	113	2270	1160	81	768	419	0	0	0
Jan-18	139	2908	1959	87	1070	689	0	0	0
Feb-18	132	2705	1798	99	1049	693	0	0	0
Mar-18	170	2463	1336	76	977	485	0	0	0
TOTALS BY PERMIT TYPE	1891	33000	19038	1125	12603	6780	0	0	0
ESSEX	Granted			Refused			Deemed		
	PAA	Permit Application	Variation	PAA	Permit Application	Variation	PAA	Permit Application	Variation
Apr-17	267	640	358	52	207	75	0	0	0
May-17	355	811	422	40	237	65	0	0	0
Jun-17	284	829	396	36	220	48	0	0	0
Jul-17	209	833	428	55	192	67	0	0	0
Aug-17	260	741	527	53	244	107	0	0	0
Sep-17	173	663	408	23	134	72	0	0	0
Oct-17	123	674	461	18	209	66	0	0	0
Nov-17	100	692	430	20	225	88	0	0	0
Dec-17	168	433	266	28	121	47	0	0	0
Jan-18	220	981	507	44	290	82	0	0	0
Feb-18	158	900	603	44	283	121	0	0	0
Mar-18	217	1004	669	72	302	125	0	0	0
TOTALS BY PERMIT TYPE	2534	9201	5475	485	2664	963	0	0	0
COMBINED TOTAL BY PERMIT TYPE	4425	42201	24513	1610	15267	7743	0	0	0
GRAND TOTALS BY RESPONSE TYPE	71139			24620			0		

Appendix A(iii) – Grants, Refusals & Deems

PERMIT OUTCOMES BY PROMOTER (GRAPHS A-C):



Appendix B(i) – Permit Conditions

PERMIT CONDITIONS APPLIED BY TYPE PER MONTH (TABLE 1):

STATUTORY UNDERTAKERS

PERMIT CONDITIONS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
1. Date Constraints	226	779	201	151	132	90	97	157	87	144	168	174	2406
2. Time Constraints	790	927	995	941	885	790	936	854	553	940	898	949	10458
3. Out of Hours Work	88	100	75	58	97	61	77	86	54	88	88	89	961
4. Material and Plant Storage	266	262	308	323	308	274	216	282	164	210	248	224	3085
5. Road Occupation Dimensions	307	295	333	307	254	201	161	148	133	147	141	120	2547
6. Traffic Space Dimensions	1272	1449	1410	1230	1087	802	844	831	782	900	742	745	12094
7. Road Closure	160	178	153	192	173	165	147	173	125	200	150	205	2021
8. Light Signals and Shuttle Working	499	658	602	610	599	552	533	583	430	654	707	865	7292
9. Traffic Management Changes	663	827	729	754	760	692	744	786	549	862	985	1078	9429
10. Works Methodology	365	340	299	370	354	371	327	371	207	421	398	432	4255
11. Consultation and Publicity	587	1148	1134	679	584	546	575	595	374	542	549	556	7869
12. Environmental	17	35	22	54	40	54	88	82	45	69	63	89	658
13. Local	2	10	10	20	10	12	6	2	4	8	3	5	82
TOTAL	5242	7008	6271	5689	5283	4610	4751	4950	3507	5185	5140	5531	63167

Appendix B(ii) – Permit Conditions

PERMIT CONDITIONS APPLIED BY TYPE PER MONTH (TABLE 2):

ESSEX

PERMIT CONDITIONS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
1. Date Constraints	27	8	19	26	49	28	32	37	17	38	38	86	405
2. Time Constraints	843	1014	844	774	871	643	563	553	484	840	888	1195	9512
3. Out of Hours Work	209	216	155	84	96	78	76	73	119	198	195	192	1691
4. Material and Plant Storage	14	6	5	7	1	3	3	1	3	6	3	5	57
5. Road Occupation Dimensions	14	6	10	1	7	3	6	6	2	6	7	20	88
6. Traffic Space Dimensions	20	27	15	25	52	29	35	35	25	28	22	22	335
7. Road Closure	473	644	505	501	474	340	254	186	264	320	358	460	4779
8. Light Signals and Shuttle Working	254	260	273	205	278	239	243	239	147	334	351	455	3278
9. Traffic Management Changes	351	339	342	287	326	264	271	338	196	444	406	539	4113
10. Works Methodology	117	84	69	62	133	68	88	98	119	160	145	146	1289
11. Consultation and Publicity	557	670	518	535	525	376	321	223	270	386	428	556	5365
12. Environmental	154	165	96	82	120	95	81	82	69	120	156	193	1413
13. Local	1	1	0	0	0	0	0	0	0	4	5	3	14
TOTAL	3034	3440	2851	2599	2932	2166	1973	1871	1715	2884	3002	3872	32339

Appendix B(iii) – Permit Conditions

PERMIT CONDITIONS APPLIED BY TYPE PER MONTH (TABLE 3):

ALL

PERMIT CONDITIONS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
1. Date Constraints	253	787	220	177	181	118	129	194	104	182	206	260	2811
2. Time Constraints	1633	1941	1839	1715	1756	1433	1499	1407	1037	1780	1786	2144	11970
3. Out of Hours Work	297	316	230	142	193	139	153	159	173	286	283	281	2652
4. Material and Plant Storage	280	268	313	330	309	277	219	283	167	216	251	229	3142
5. Road Occupation Dimensions	321	301	343	308	261	204	167	154	135	153	148	140	2635
6. Traffic Space Dimensions	1292	1476	1425	1255	1139	831	879	866	807	928	764	767	12429
7. Road Closure	633	822	658	693	647	505	401	359	389	520	508	665	6800
8. Light Signals and Shuttle Working	753	918	875	815	877	791	776	822	577	988	1058	1320	10570
9. Traffic Management Changes	1014	1166	1071	1051	1086	956	1015	1124	745	1306	1391	1617	13542
10. Works Methodology	482	424	368	432	487	439	415	469	326	581	543	578	5544
11. Consultation and Publicity	1144	1818	1134	1214	1109	922	896	818	644	928	977	1112	12716
12. Environmental	171	200	118	136	160	149	169	164	114	189	219	282	2071
13. Local	3	11	10	20	10	12	6	2	4	12	8	8	106
TOTAL	8276	10448	8604	8288	8215	6776	6724	6821	5222	8069	8142	9403	94988

Appendix C(i) – Extensions

NUMBER OF EXTENSIONS APPROVED PER MONTH (TABLES 1-3):

ESSEX	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Permits Granted	1265	1588	1509	1470	1528	1244	1258	1222	867	1708	1661	1890	17210
Permit Duration Requests	36	65	44	66	62	62	52	62	41	63	76	103	732
Permit Durations Approved	29	48	39	62	48	50	46	51	37	49	65	87	611
Requests Vs Approved %	81%	74%	89%	94%	77%	81%	88%	82%	90%	78%	86%	84%	84%

STATUTORY	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Permits Granted	3969	4736	4797	4643	4633	4323	4730	4875	3524	4983	4620	4642	54602
Permit Duration Requests	157	200	232	206	225	270	259	272	182	312	345	266	2926
Permit Durations Approved	141	167	200	175	185	225	220	221	152	252	279	229	2446
Requests Vs Approved %	90%	84%	86%	85%	82%	83%	85%	81%	84%	81%	81%	86%	84%

COMBINED	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Permits Granted	5234	6324	6306	6113	6161	5567	5988	6097	4391	6691	6281	6532	71812
Permit Duration Requests	193	265	276	272	287	332	311	334	223	375	421	369	3658
Permit Durations Approved	170	215	239	237	233	275	266	272	189	301	344	316	3057
Requests Vs Approved %	88%	81%	87%	87%	81%	83%	86%	81%	85%	80%	82%	86%	84%
Permits Vs Requests %	4%	4%	4%	4%	5%	6%	5%	5%	5%	6%	7%	6%	5%
Permits Vs Approved %	3%	3%	4%	4%	4%	5%	4%	4%	4%	4%	5%	5%	4%

Appendix D(i) – Reduced Application Periods

NUMBER OF REDUCED APPLICATIONS AGREED PER MONTH (TABLE 1):

STATUTORY UNDERTAKERS	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Number of Applications	6808	6689	6555	6319	6263	5973	6731	6615	4775	6819	6451	6344	76342
Number of Reduced Periods	792	865	907	931	866	846	956	889	412	779	757	735	9735
Number of Early Start Agreements	418	379	448	465	453	345	393	410	229	326	361	357	4584
Percentage of Early Start Approvals	53%	44%	49%	50%	52%	41%	41%	46%	56%	42%	48%	49%	47%

ESSEX	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Number of Applications	1599	1930	1813	1784	1932	1473	1551	1555	1063	2124	2109	2389	21322
Number of Reduced Periods	868	866	788	704	824	551	451	446	399	731	778	905	8311
Number of Early Start Agreements	599	573	567	468	552	407	280	302	320	543	505	600	5716
Percentage of Early Start Approvals	69%	66%	72%	66%	67%	74%	62%	68%	80%	74%	65%	66%	69%

ALL	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	GRAND TOTAL
Number of Applications	8407	8619	8368	8103	8195	7446	8282	8170	5838	8943	8560	8733	97664
Number of Reduced Periods	1160	1731	1695	1635	1690	1397	1407	1335	811	1510	1535	1640	18046
Number of Early Start Agreements	1017	952	1015	933	1005	752	673	712	549	869	866	957	10300
Percentage of Early Start Approvals	61%	55%	60%	57%	59%	54%	48%	53%	68%	58%	56%	58%	57%

Appendix D(ii) – Reduced Application Periods

NUMBER OF REDUCED APPLICATIONS AGREED PER MONTH FOR YEARS 1, 2 & 3 (TABLE 2):

Period	Year 1			Year 2			Year 3		
	Early Start Agreements								
	ESSEX	STATUTORY	TOTAL	ESSEX	STATUTORY	TOTAL	ESSEX	STATUTORY	TOTAL
April	366	144	510	597	326	923	599	418	1017
May	477	179	656	450	332	782	573	379	952
June	479	168	647	486	319	805	567	448	1015
July	486	234	720	408	303	711	468	465	933
August	386	183	569	388	295	683	552	453	1005
September	568	202	770	404	315	719	407	345	752
October	626	239	865	349	343	692	280	393	673
November	475	261	736	325	341	666	302	410	712
December	564	229	793	258	240	498	320	229	549
January	486	274	760	330	312	642	543	326	869
February	712	326	1038	597	367	964	505	361	866
March	702	312	1014	769	445	1214	600	357	957
GRAND TOTAL	6327	2751	9078	6873	6513	13386	5716	4584	10300

Appendix E(i) – TPI Measures 1 – 8 (Excluding 7)

TPI MEASURES FOR ALL WORKS PROMOTERS (TABLE 1):

Broad Promoter Type	Category	TPI 1	TPI 2	TPI 3	TPI 4	TPI 5	TPI 6	TPI 8
		Works Phases Started	Works Phases Completed	Days of Occupancy	Average Duration of Completed Works Phases in Days	Works Phases Completed After the Reasonable Period	Overrun Days	Number of Phase 1 Permanent Registrations
All	1 Major	3438	3390	108225	16	40	443	388
	2 Standard	4354	4332	101306	9	81	670	1336
	3 Minor	23811	23762	214863	2	76	220	4751
	4 Immediate Urgent	7313	7298	121930	3	57	132	2646
	5 Immediate Emergency	4728	4656	156297	7	37	299	1857
	Total	43644	43438	702621	5	290	1763	10976

Appendix E(ii) – TPI Measures 1 – 8 (Excluding 7)

TPI MEASURES FOR STATUTORY UNDERTAKERS PROMOTERS ONLY (TABLE 2):

Broad Promoter Type	Category	TPI 1	TPI 2	TPI 3	TPI 4	TPI 5	TPI 6	TPI 8
		Works Phases Started	Works Phases Completed	Days of Occupancy	Average Duration of Completed Works Phases in Days	Works Phases Completed After the Reasonable Period	Overrun Days	Number of Phase 1 Permanent Registrations
Statutory Undertakers	1 Major	1301	1321	31248	22	51	365	774
	2 Standard	3582	3614	38789	9	128	467	2593
	3 Minor	18906	18940	104453	3	131	370	9490
	4 Immediate Urgent	6945	6990	38636	5	110	253	5291
	5 Immediate Emergency	4511	4505	27880	5	73	581	3714
	Total	35245	35370	241006	5	493	2036	21862

Appendix E(iii) – TPI Measures 1 – 8 (Excluding 7)

TPI MEASURES FOR ESSEX HIGHWAY AUTHORITY ONLY (TABLE 3):

Broad Promoter Type	Category	TPI 1	TPI 2	TPI 3	TPI 4	TPI 5	TPI 6	TPI 8
		Works Phases Started	Works Phases Completed	Days of Occupancy	Average Duration of Completed Works Phases in Days	Works Phases Completed After the Reasonable Period	Overrun Days	Number of Phase 1 Permanent Registrations
Essex	1 Major	2137	2069	76977	10	29	521	1
	2 Standard	772	718	62517	9	33	873	78
	3 Minor	4905	4822	110410	2	20	69	11
	4 Immediate Urgent	368	308	83294	2	3	10	0
	5 Immediate Emergency	217	151	128417	9	1	17	0
	Total	8399	8068	461645	5	86	1490	90

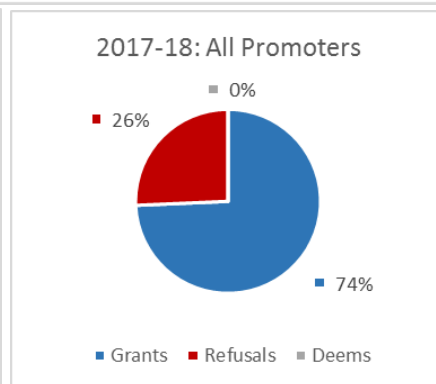
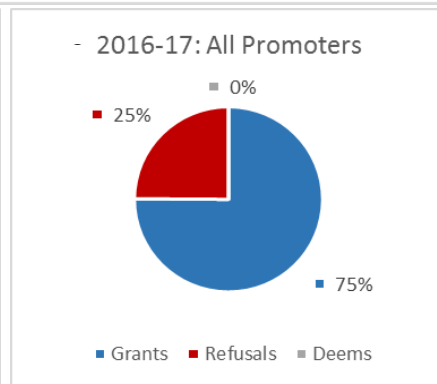
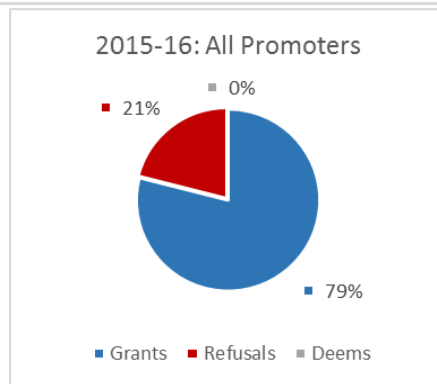
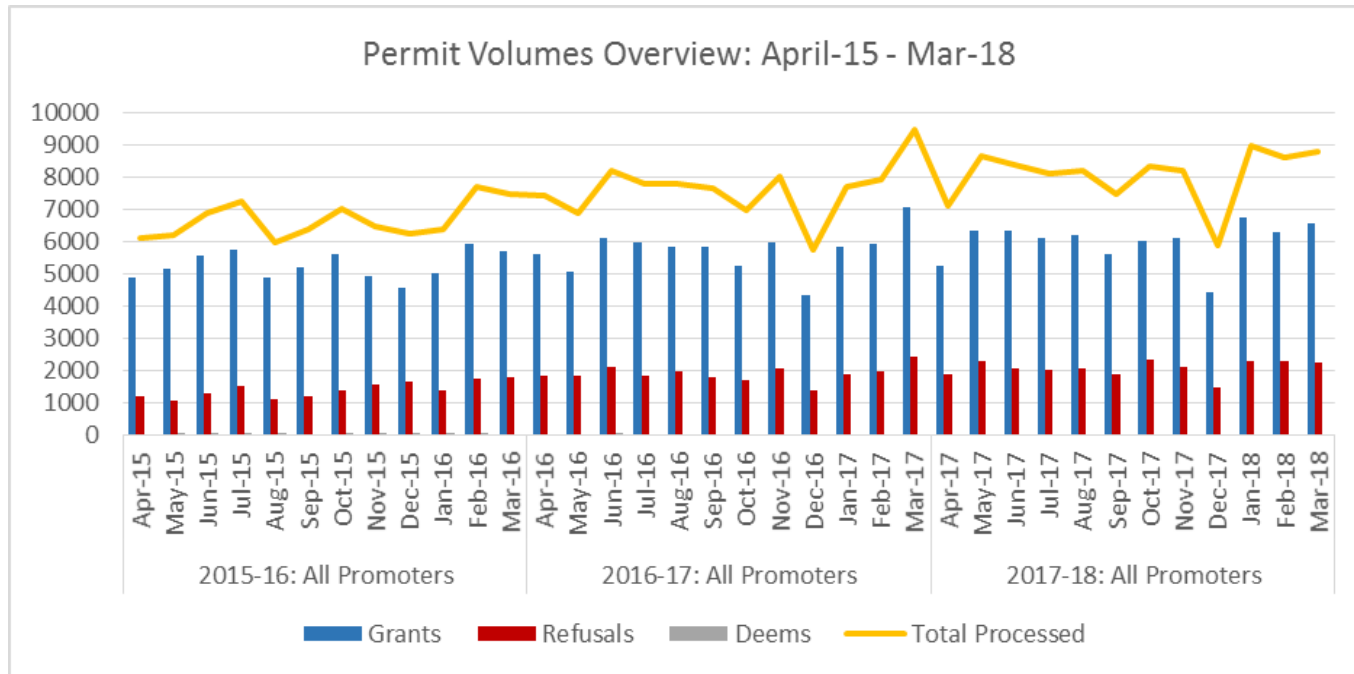
Appendix F(i) – Permit Inspections

PERMIT CONDITIONS INSPECTIONS BY MONTH (TABLE 1):

Permit Conditions	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
Total Inspected	656	631	563	544	535	641	761	863	571	923	749	727
Non-Compliant	84	102	113	82	96	124	116	132	80	126	100	108

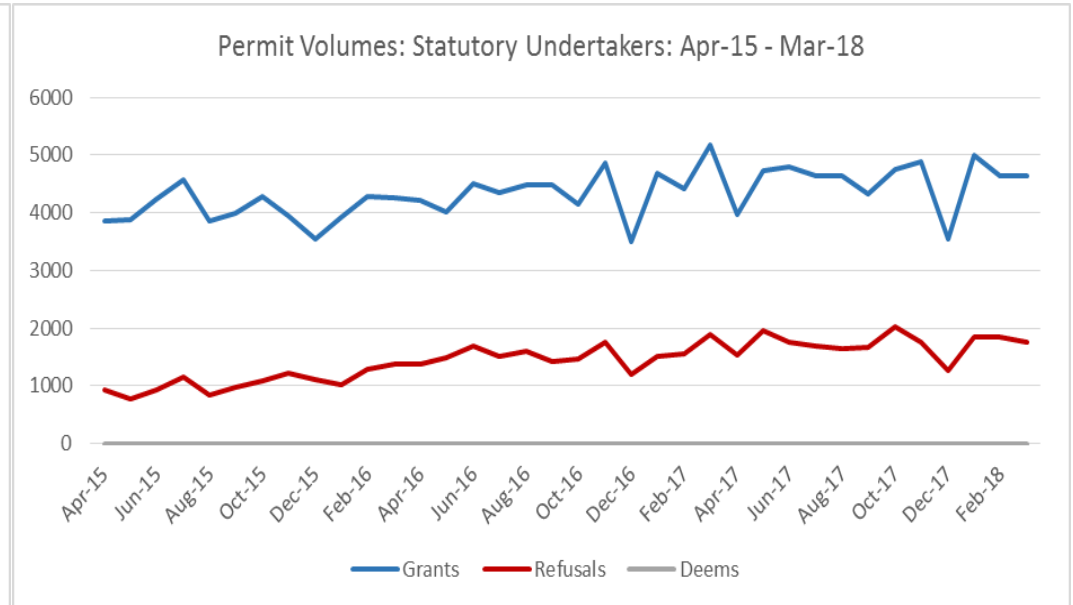
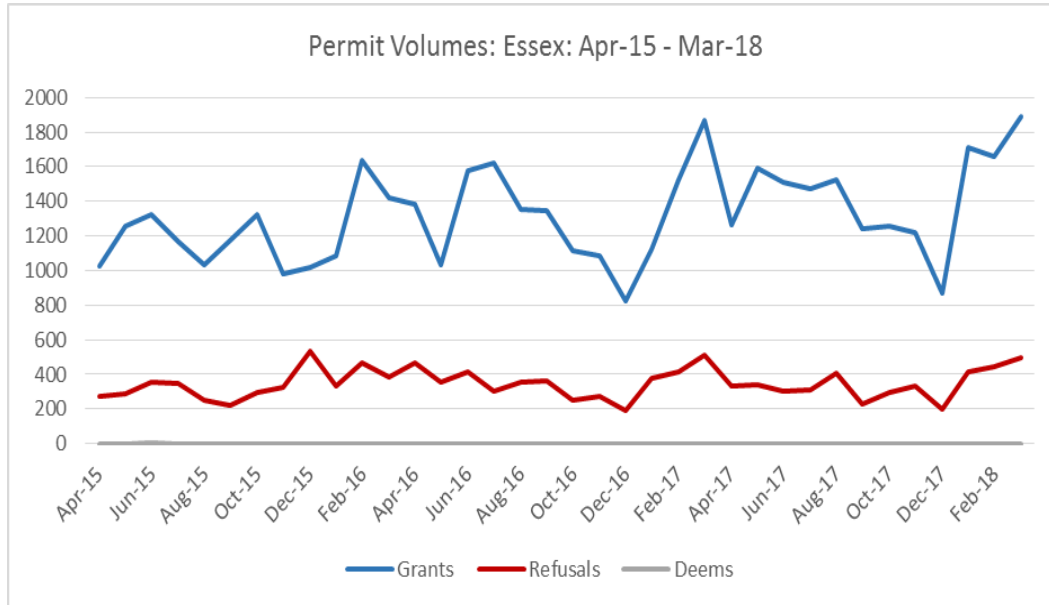
Appendix G(i) – Permit Trends

KPI 1, PERMIT VOLUMES SINCE SCHEME IMPLEMENTATION (GRAPHS A-D):



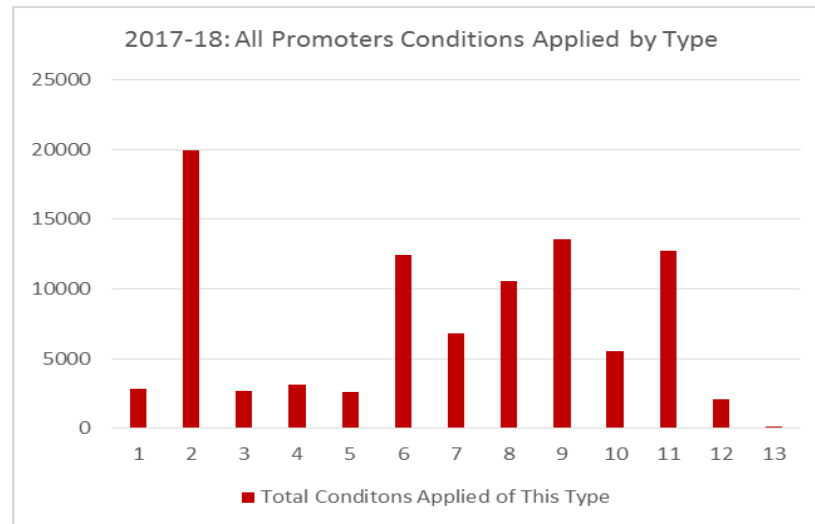
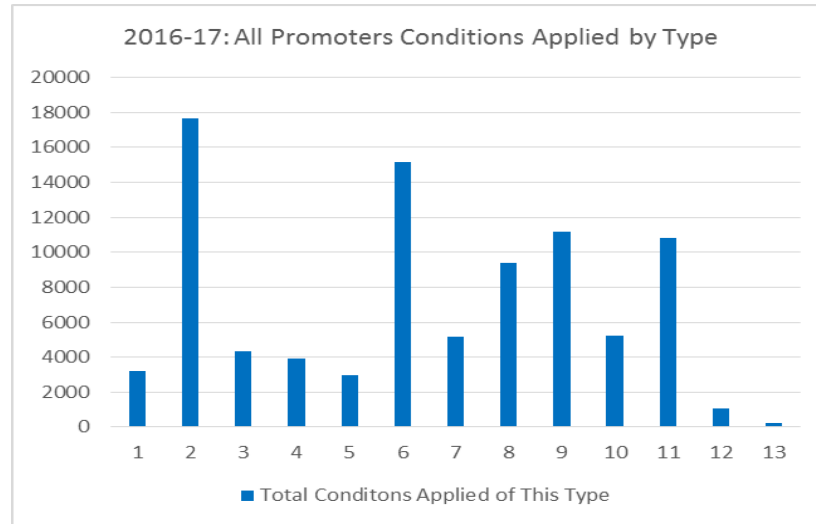
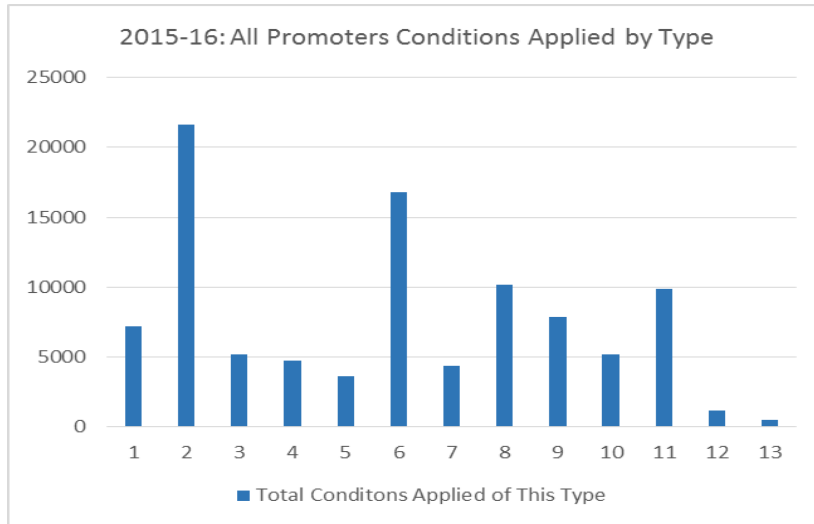
Appendix G(ii) – Permit Trends

KPI 1, PERMIT VOLUMES SINCE SCHEME IMPLEMENTATION (GRAPHS A-B):



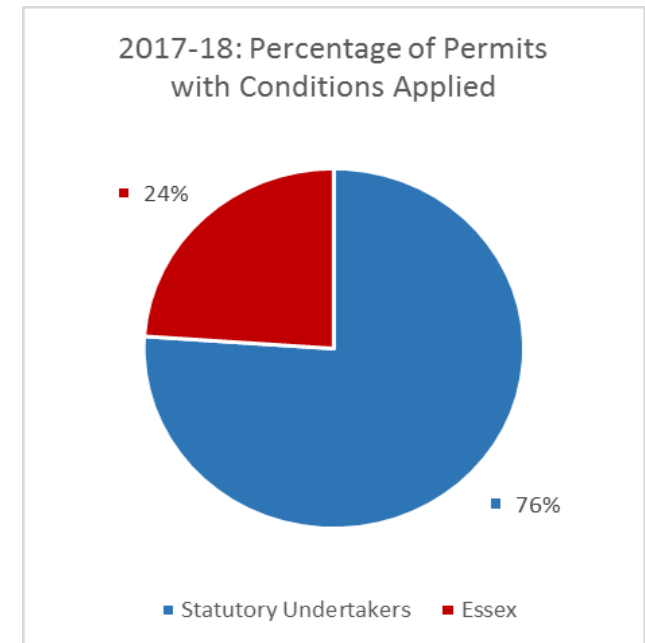
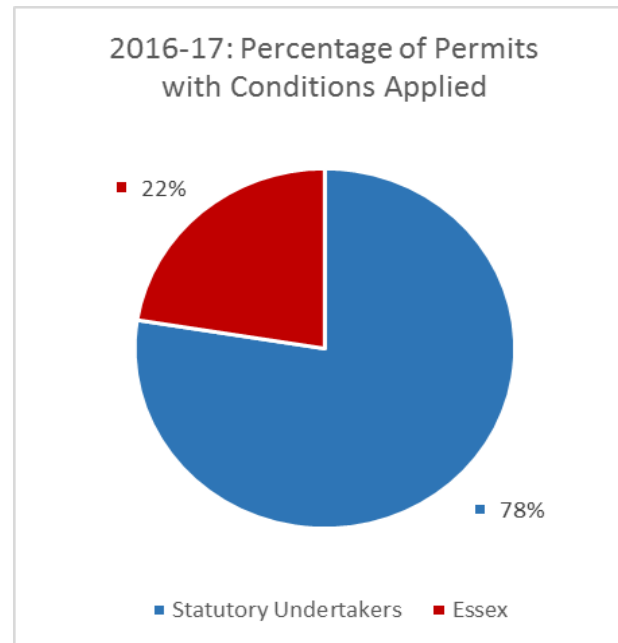
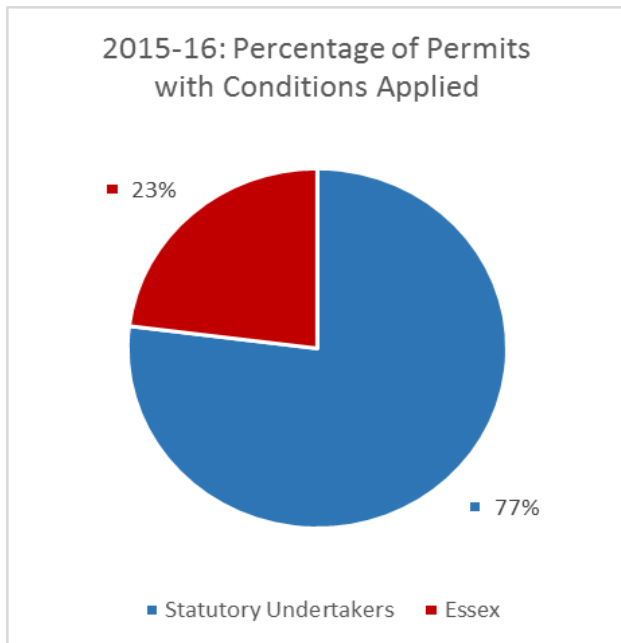
Appendix G(iii) – Permit Trends

KPI 2, PERMIT CONDITIONS VOLUMES SINCE SCHEME IMPLEMENTATION (GRAPHS A-C):



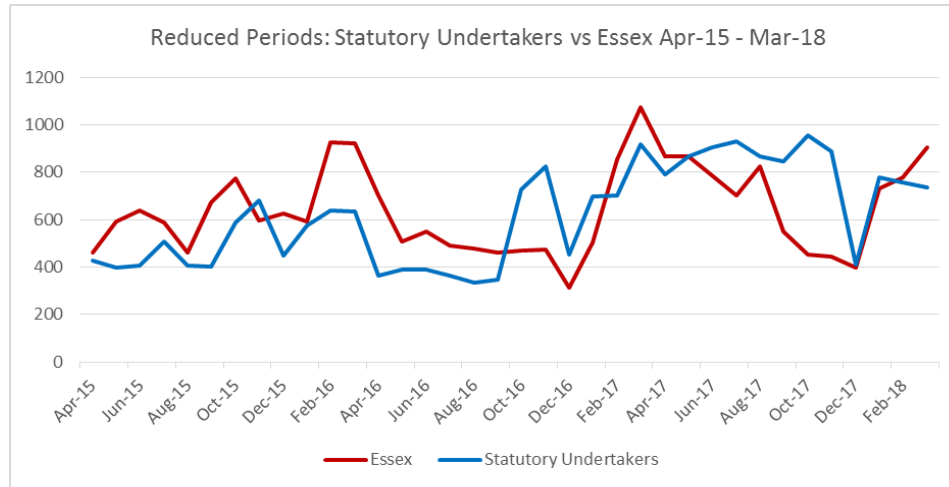
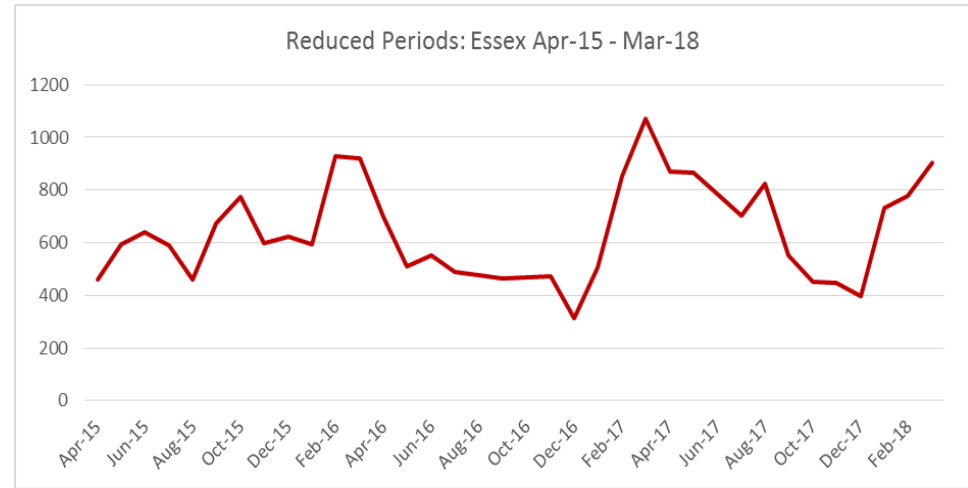
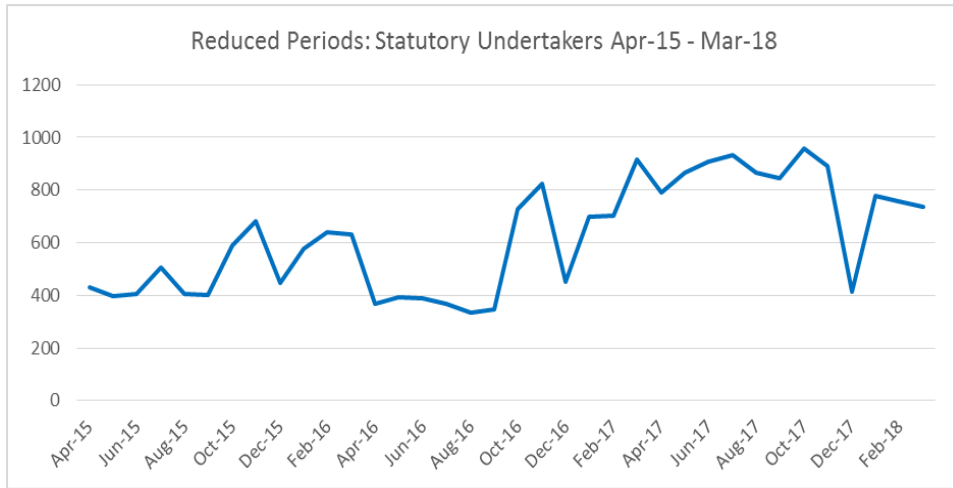
Appendix G(iv) – Permit Trends

KPI 2, PERMIT CONDITIONS PERCENTAGES SINCE SCHEME IMPLEMENTATION (GRAPHS A-C):



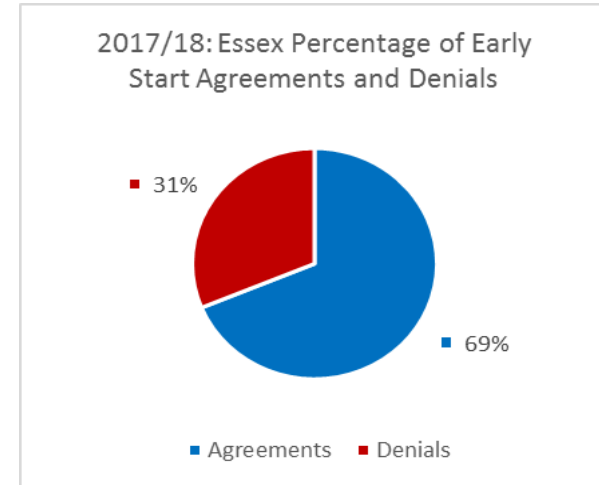
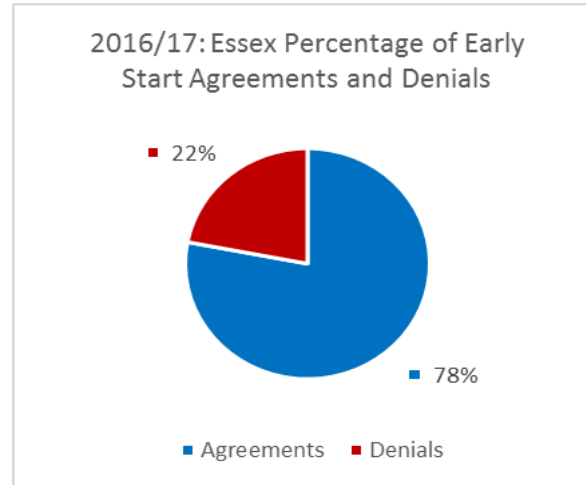
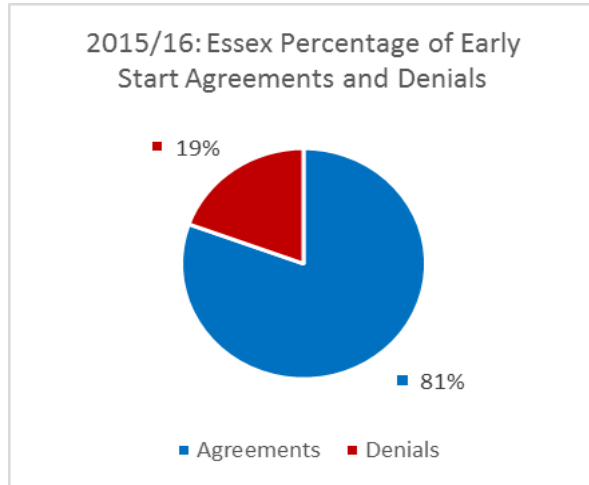
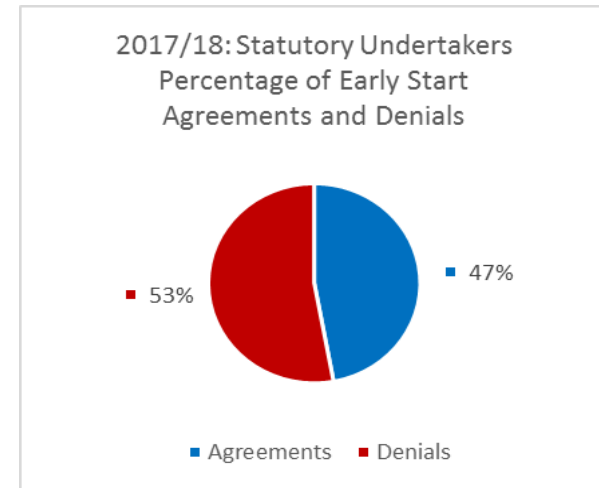
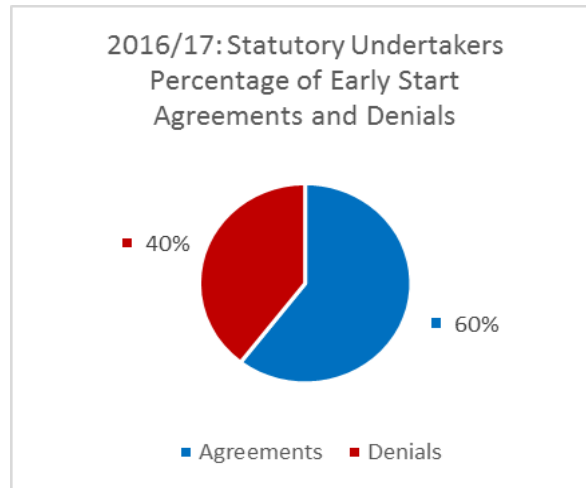
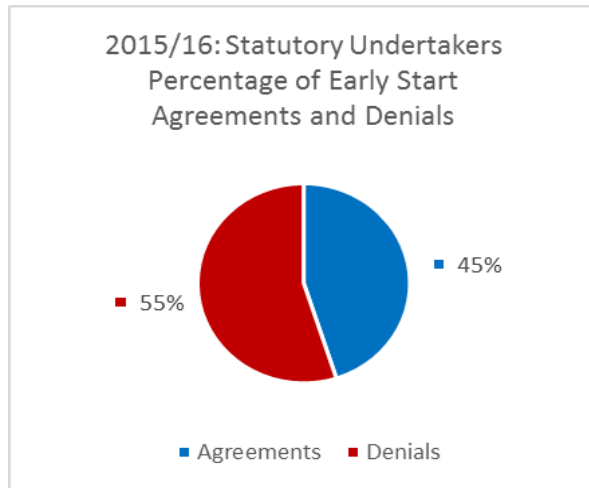
Appendix G(v) – Permit Trends

KPI 4, REDUCED PERIOD VOLUMES SINCE SCHEME IMPLEMENTATION (GRAPHS A-C):



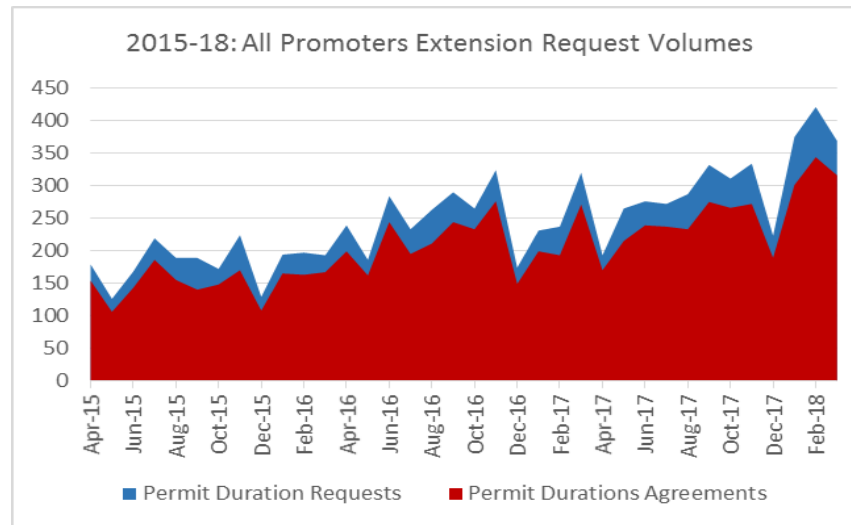
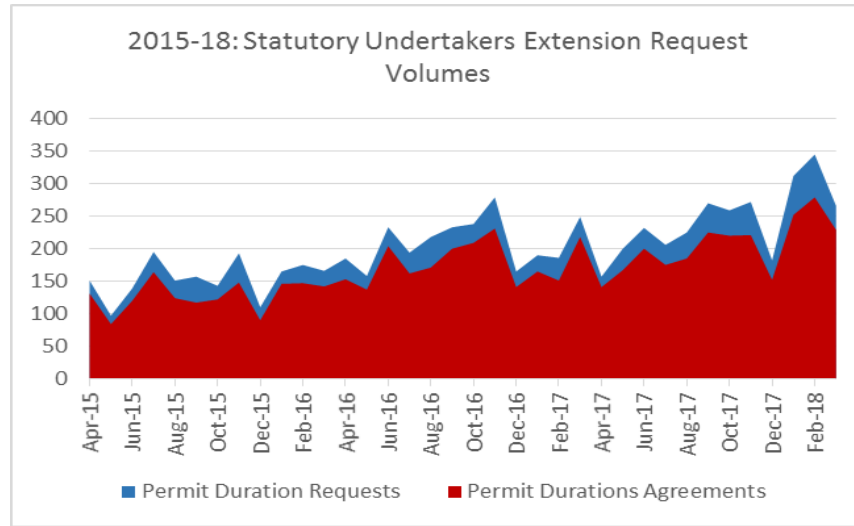
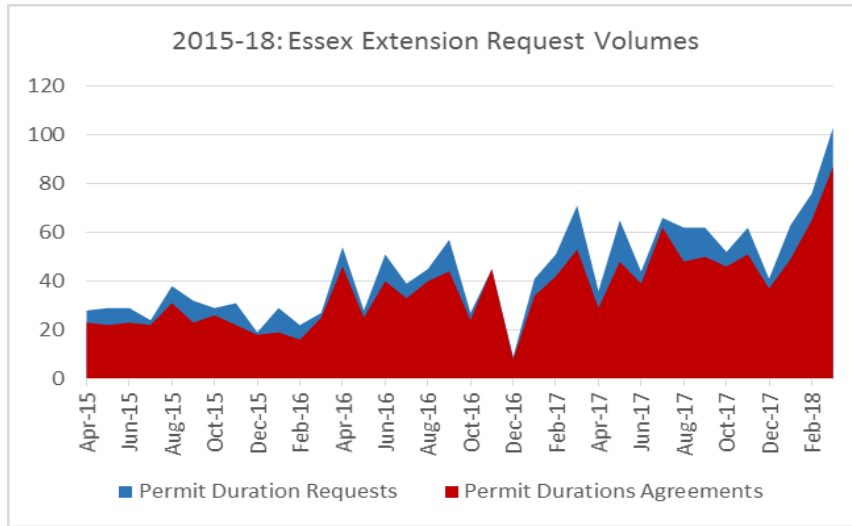
Appendix G (vi) – Permit Trends

KPI 4, PERCENTAGE OF EARLY STARTS SINCE SCHEME IMPLEMENTATION (GRAPHS A-F):



Appendix G (vii) – Permit Trends

KPI 3, VOLUME OF EXTENSION REQUESTS SINCE SCHEME IMPLEMENTATION (GRAPHS A-C):



Appendix G (viii) – Permit Trends

KPI 3, PERCENTAGE OF DURATION REQUESTS SINCE SCHEME IMPLEMENTATION (GRAPHS A-C):

