

15. Climate Change & Resilience

15.1 Relevant Policies,
Guidance & Legislation

15.2 Westergate ES Traffic
Flows

15.3 Westergate Construction
EFT

15.4 Westergate Operational
EFT

15.5 Average Annual Mean
Temperature Anomaly

15.6 Mean Annual Precipitation
Anomaly

15.7 Maximum Summer Air
Temperature

15.8 Minimum Winter
Temperature Anomaly

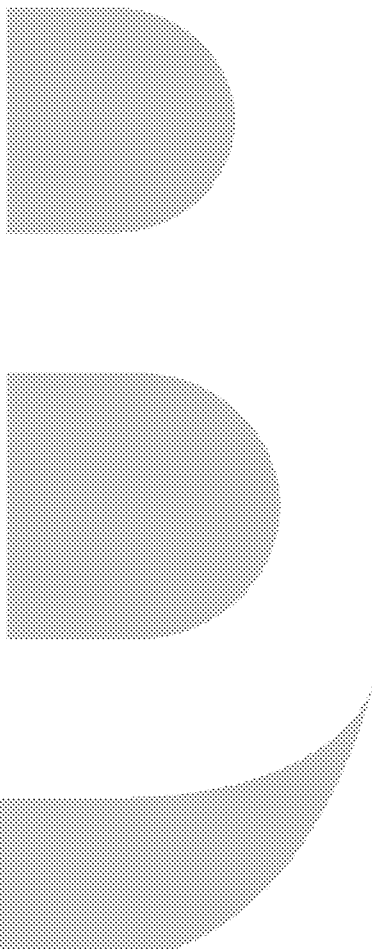
15.9 Summer Precipitation Rate
Anomaly

15.10 Winter Precipitation
Anomaly

15.11

Appendix 15.1

Relevant Policies, Guidance & Legislation



14.0 APPENDIX 14: RELEVANT POLICIES, GUIDANCE & LEGISLATION

Policy Context

National Planning Policy

Climate Change and Sustainable Energy Actⁱ

- 14.1 The Climate Change and Sustainable Energy Act (2006) is an Act of Parliament which aims to boost the number of heat and electricity microgeneration installations in the United Kingdom, helping to cut carbon emissions and reduce fuel poverty. It gives powers to the UK Government to require certain organisations to report on how they are adapting to climate change through the Adaptation Reporting Power.
- 14.2 The Act provides that the government must set and meet national targets for the number of installed microgeneration systems and informs that the government must promote community energy projects. Local planning authorities may influence the success of community energy schemes through making planning permission for certain developments conditional on the use of such schemes.

The Clean Growth Strategy

- 14.3 In October 2017, the UK Government published its Clean Growth Strategy (CGS)ⁱⁱ setting out ambitious policies and proposals, through to 2032 and beyond, to reduce emissions across the economy and promote clean growth. The CGS provides an 'ambitious' blueprint for Britain's low carbon future, outlining how investment in green energy goes hand – in – hand with economic growth and industrial, commercial and residential strategies. Core to the strategy are actions that will cut emissions, increase efficiency and lower the amount consumers and business spent on energy. The CGS six key areas that together are responsible for 100% of the UK's carbon emissions. These are:
1. Improving business and industry efficiency (25% of UK emissions): Improving business and industry efficiency, improving energy productivity and commercial building standards, delivering industrial energy efficiency, investing in industrial innovation;
 2. Accelerating the shift to low-carbon transport (24% of UK emissions): Accelerating the shift to low – carbon transport, supporting the take – up of ultra – low emission vehicles, developing electric vehicle charging network, shifting freight from road to rail and innovation in Connected and Autonomous Vehicles and electric batteries;
 3. Improving our homes (13% of UK emissions): Improving our homes, upgrading energy efficiency across a million homes, strengthening building standards, rolling out heat networks, phasing out of high carbon heating;
 4. Enhancing the benefits and value of our natural resources (15% of UK emissions): Enhancing the benefits and value of our natural resources, supporting agriculture, a new network of forests, zero avoidable waste by 2050, managing emissions from landfill;
 5. Leading the public sector (2% of UK emissions): Leading in the public sector, setting a voluntary 30 percent public sector carbon reduction target by 2020 and funding for energy efficiency improvements in England; and
 6. Delivering clean, smart, flexible power (21% of UK emissions): Delivering clean, smart, flexible power, phasing – out of coal, developing new ways of balancing the grid through electricity storage and demand response.

25 Year Environment Plan

14.4 Building on the proposals set out in the CGS, the UK outlined its plans to improve the environment in 'A Green Future: Our 25 Year Plan to Improve the Environment' (2018)ⁱⁱⁱ. The 25 Year Environment Plan was published in January 2018 and sets out the UK's approach to deliver on our ambition to leave our environment in a better state than we inherited, and to fully seize the opportunities of clean growth. At a glance, the key proponents of the 25 Year Plan are:

- ***Embedding an 'environment net gain' principle for development, including housing and infrastructure:*** reforming developer contributions and tariffs to limit environmental damage and secure investment in natural capital.
- ***Clean Air:*** meeting legally binding targets to reduce emissions of five damaging air pollutants; this should halve the effects of air pollution on health by 2030 and maintaining the continuous improvement in industrial emissions by building on existing good practice and the successful regulatory framework.
- ***Reducing the risks of harm from environmental hazards:*** We will reduce the risk of harm to people, the environment and the economy from natural hazards including flooding, drought and coastal erosion.
- ***Increasing resource efficiency and reducing pollution and waste:*** achieving zero avoidable waste by 2050 and eliminating avoidable plastic waste by 2042 and reducing food chain emissions and wastage as well as improving the management of residual waste.
- ***Using resources from nature more sustainably and efficiently:*** ensure that resources from nature, such as timber, are used more sustainably and efficiently.
- ***Enhancing beauty, heritage and engagement with the natural environment:*** making sure that there are high quality, accessible, natural spaces close to where people live and work, particularly in urban areas, and encouraging more people to spend time in them to benefit their health and wellbeing.
- ***Mitigating and adapting to climate change:*** We will take all possible action to mitigate climate change, while adapting to reduce its impact.

Environmental Improvement Plan 2023^{iv}

14.5 The Environmental Improvement Plan, published by DEFRA in February 2023 follows on from the 25 Year Plan to Improve the Environment published in 2018 which sets out the governments environmental priorities and goals. The Environmental Improvement Plan 2023 reports on the progress in delivering these goals and sets key actions to deliver the goals up to 2043 – the remaining duration of the 25 Year Plan.

14.6 The Environmental Improvement Plan (EIP) includes a review and revision of the ten goals from the 25YEP, including the goal 'Improving our mitigation of climate change'. In regard to mitigating and adapting to climate change, the EIP states "The relationship is two-way: we also cannot mitigate and adapt to climate change without Nature-based Solutions."

14.7 The EIP sets out key objectives to achieve this goal, including:

- "update on our progress and plans to reach net zero
- publish a Land Use Framework in 2023, setting out how we will balance multiple demands on our land including climate mitigation and adaptation
- publish the third National Adaptation Programme (NAP3) in 2023 that will set out our 5 year strategy to build the UK's climate resilience
- continue our role as a global leader in tackling climate change, biodiversity loss and land degradation and push for an integrated approach to international action

- *Climate change is also exacerbating natural hazards and the risk they pose to our health, the environment, and to our economy – hence our goal of a reduced risk of harm from environmental hazards.*
- *deliver our investment plan to improve coastal and flood defences, including £100 million on the most frequently flooded areas.*
- *reward farmers for actions to reduce risks and impacts from floods, droughts, and wildfires through our new future farming schemes.”*

The Environment Act

- 14.8 Furthermore, the Environment Act (2021) mandates for adoption of an 'environmental improvement plan'. The current environmental improvement plan is *"A Green Future: our 25 year plan to improve the environment"*, which as outlined above seeks to holistically tackle specific environmental issues and the wider climate change challenge.
- 14.9 The Environment Act received Royal Assent on the 10th November 2021 and sets objectives to restore habitats, increase biodiversity, reduce waste, halt species decline, tackle deforestation and make better use of resources. One purpose of the Act is described as: *"to transform our domestic environmental governance based on environmental principles; codify a comprehensive framework for legally binding targets; and the establishment of a new Office for Environmental Protection"*. In effect, the Act aims to replicate a set of overarching European Union (EU) principles into UK law.

References

ⁱ Climate Change and Sustainable Energy Act 2006. UK Public General Acts. 2006 c.19.

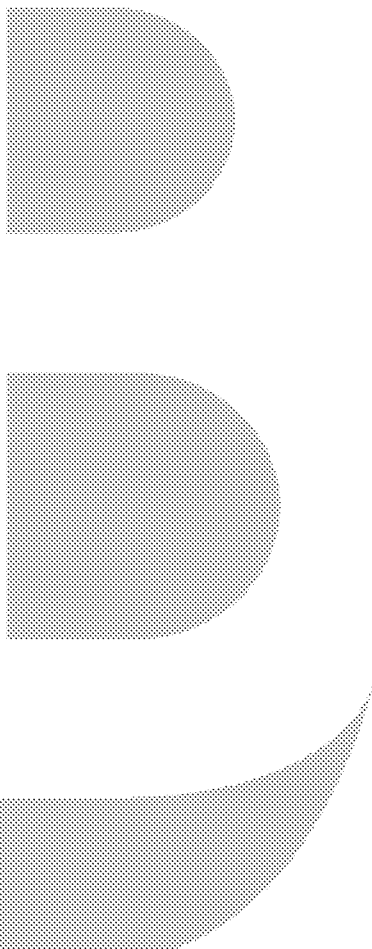
ⁱⁱ HM Government (2017): Clean Growth Strategy Link:
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/700496/clean-growth-strategy-correction-april-2018.pdf

ⁱⁱⁱ HM Government (2018): A Green Future: Our 25 Year Plan to Improve the Environment. Link:
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/693158/25-year-environment-plan.pdf

^{iv} <https://www.gov.uk/government/publications/environmental-improvement-plan>

Appendix 15.2

Westergate ES Traffic Flows



Link Description					AADT (24 hours)		AAWT (18 hours)		AM Peak		PM Peak		2019 Base		355465
Link ID	Road Class	Lanes	Speed Limit (mph)	Speed Lim One Way/Two Way	Flow (veh/day)	% HDV	Flow (veh/day)	% HDV	Flow	%HDV	Flow	%HDV	% HGV		
2019 Baseline															
1	A27 Westbound between A29 and A285 - TMU Site 5756/1	A	2	70	112.6 OneWay	20475	7.2	20763	8.4	1410	7.2	1249	8.4		
	A27 Eastbound between A29 and A285 - TMU Site 5755/1	A	2	70	112.6 OneWay	20811	6.5	21281	7.5	1162	6.5	1917	7.5		
2	A27 Eastbound between A29 near Bognor Regis	A	2	70	112.6 OneWay	19089	7	19279	8.1	1211	7	1205	8.1		
	A27 Westbound between A29 near Bognor Regis	A	2	70	112.6 OneWay	19145	6.6	19591	7.6	1497	6.6	1491	6.6		
3	A27 Westbound - Bognor Regis and Arundel	A	2	70	112.6 OneWay	14186	7.3	14362	8.3	808	7.3	1045	8.3		
	A27 Eastbound - Bognor Regis and Arundel	A	2	70	112.6 OneWay	14337	7.8	14686	8.8	1098	8.8	799	8.8		
4	A27 Eastbound (W of Fontwell Roundabout)	A	2	70	112.6 OneWay	20475	7	20523	7.5	1211	6.6	1608	7.5		
	A27 Westbound (W of Fontwell Roundabout)	A	2	70	112.6 OneWay	13121	7	15389	6.8	1497	6	1491	6		
5	A29 Westergate Street (North of Site Access) (Northbound)		1	30	48.2 OneWay	6404	5	6582	5	568	4.8	361	5		
	A29 Westergate Street (North of Site Access) (Southbound)		1	30	48.2 OneWay	6347	5	6644	5	423	5	595	5		
6	Meadow Way Westbound		1	30	48.2 OneWay	100	0.7	90	0.7	13	0.7	7	0.7		
	Meadow Way Eastbound		1	30	48.2 OneWay	210	1.7	190	1.7	16.8	1.7	15.2	1.7		
7	Ivy Lane Westbound		1	30	48.2 OneWay	1000	0	900	0	80	0	72	0		
	Ivy Lane Eastbound		1	30	48.2 OneWay	422	0	380	0	33.76	0	30.4	0		
8	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Northbound)		1	40	64.3 OneWay	8575	9.3	7622	9.3	686	9.3	610	9.3		
	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Southbound)		1	40	64.3 OneWay	5818	8.8	5172	8.8	465	8.8	414	8.8		
9	A29 Fontwell Avenue (North Memorial Roundabout) (Northbound)		1	30	48.2 OneWay	5839	4.653	5185	4.6525	467	4.6525	576	4.6525		
	A29 Fontwell Avenue (North Memorial Roundabout) (Southbound)		1	30	48.2 OneWay	8258	4.653	7333	4.6525	661	4.6525	475	4.6525		
10	A29 Nyton Road (Eastbound)		1	30	48.2 OneWay	10959	6	9741	6	877	6	779	6		
	A29 Nyton Road (Westbound)		1	30	48.2 OneWay	10657	5.5	9472	5.5	853	5.5	758	5.5		
11	B2233 Barnham Road (Eastbound)		1	30	48.2 OneWay	3946	2	3508	2	302	2	268	2		
	B2233 Barnham Road (Westbound)		1	30	48.2 OneWay	6482	3	5761	3	498	3	443	3		
12	B2233 Nyton Road (South of A27) (Northbound)		1	30	48.2 OneWay	7516	2.2	6681	2.2	601	2.2	534	2.2		
	B2233 Nyton Road (South of A27) (Southbound)		1	30	48.2 OneWay	3620	3	3218	3	290	3	257	3		
13	B2233 Nyton Road (Between Oving Road and A29) (Eastbound)		1	30	48.2 OneWay	3222	3	2864	3	258	3	420	3		
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)		1	30	48.2 OneWay	9712	2.5	8633	2.5	777	2.5	375	2.5		
14	A29 Shripney Road (Northbound)		2	40	64.3 OneWay	16158	2	14362	2	1293	2	1149	2		
	A29 Shripney Road (Southbound)		2	40	64.3 OneWay	16821	2	14952	2	1346	2	1196	2		
15	Oving Road (Northbound)		1	30	48.2 OneWay	2852	1	2535	1	228	1	203	1		
	Oving Road (Southbound)		1	30	48.2 OneWay	2096	2	1863	2	168	2	149	2		
16	Hook Lane (Eastbound)		1	30	48.2 OneWay	1538	1	1367	1	123	1	109	1		
	Hook Lane (Westbound)		1	30	48.2 OneWay	1328	1	1181	1	106	1	94	1		
17	Church Lane (Southbound)		1	30	48.2 OneWay	463	2	416	2	37	2	33	2		
	Church Lane (Northbound)		1	30	48.2 OneWay	389	2	346	2	31	2	28	2		
18	A259 Rowan Way (Eastbound)		1	30	48.2 OneWay	6184	9	5800	9	495	9	464	9		
	A259 Rowan Way (Westbound)		1	40	64.3 OneWay	6722	8	6307	8	538	8	505	8		
19	A259 Charles Purley Way (Northbound)		1	40	64.3 OneWay	6783	2	6029	2	543	2	482	2		
	A259 Charles Purely Way (Southbound)		1	40	64.3 OneWay	9970	1	8862	1	798	1	709	1		
21	A29 Westergate Street (South of Site Access) (Northbound)		1	30	48.2 OneWay	6300	5	6501	5	504	5	498	5		
	A29 Westergate Street (South of Site Access) (Southbound)		1	30	48.2 OneWay	6350	5	6517	5	572	5	512	5		
22	Site Access (Eastbound)		1	30	48.2 OneWay	0	0	0	0	0	0	0	0		
	Site Access (Westbound)		1	30	48.2 OneWay	0	0	0	0	0	0	0	0		
23	Realigned A29 (Northbound)		1	30	48.2 OneWay	0	0	0	0	0	0	0	0		
	Realigned A29 (Southbound)		1	30	48.2 OneWay	0	0	0	0	0	0	0	0		
24	A29 East of Fontwell East Roundabout (Eastbound)		1	60	96.5 OneWay	10049	6	8932	12	804	6	622	12		
	A29 East of Fontwell East Roundabout (Westbound)		1	60	96.5 OneWay	7828	10	6958	7	626	10	763	7		
25	Gladius Way (Eastbound)		1	50	80.4 OneWay	6184	4	5504	4	495	4	515	4		
	Gladius Way (Westbound)		1	50	80.4 OneWay	6722	3	5983	3	538	3	560	3		

Link Description	A-B	B-A	A Node X	A Node Y	Road Class	Lanes	Speed Limi	Speed Limi	One Way/Two Way	AADT (24 hours) Flow (veh/ % HDV	AAWT (18 hours) Flow (veh/ % HDV	AM Peak Flow	%HDV	PM Peak Flow	%HDV	2031 Base % HGV	383231 4
2031 Baseline																	
1 A27 Westbound between A29 and A285 - TMU Site 5756/1			492811	106930	A	2	70	112.6	OneWay	22005	7	22292	8	1551	7	1381	8
A27 Eastbound between A29 and A285 - TMU Site 5755/1			491362	107033	A	2	70	112.6	OneWay	22366	7	22849	8	1282	7	2109	8
2 A27 Eastbound between A29 near Bognor Regis			495269	107210	A	2	70	112.6	OneWay	20541	7	20713	8	1335	7	1333	8
A27 Westbound between A29 near Bognor Regis			495274	107200	A	2	70	112.6	OneWay	20601	7	21046	8	1646	7	1645	7
3 A27 Westbound - Bognor Regis and Arundel			496760	106857	A	2	70	112.6	OneWay	15297	7	15458	8	897	7	1159	8
A27 Eastbound - Bognor Regis and Arundel			496640	106862	A	2	70	112.6	OneWay	15458	8	15804	9	1212	9	891	9
4 A27 Westbound (W of Fontwell Roundabout)			495269	107210	A	2	70	112.6	OneWay	22005	7	22292	8	1335	7	1772	8
A27 Eastbound (W of Fontwell Roundabout)			495269	107210	A	2	70	112.6	OneWay	14101	6	16522	7	1646	6	1645	6
5 A29 Westergate Street (North of Site Access) (Northbound)						1	30	48.2	OneWay	7413	5	7542	5	657	5	436	5
A29 Westergate Street (North of Site Access) (Southbound)						1	30	48.2	OneWay	7352	5	7607	5	499	5	690	5
6 Meadow Way Westbound						1	30	48.2	OneWay	107	1	96	1	18	1	10	1
Meadow Way Eastbound						1	30	48.2	OneWay	225	2	203	2	18	2	16	2
7 Ivy Lane Westbound						1	30	48.2	OneWay	1070	0	962	0	86	0	77	0
Ivy Lane Eastbound						1	30	48.2	OneWay	451	0	406	0	36	0	32	0
8 A29 Fontwell Avenue (South of Fontwell West Roundabout) (Northbound)						1	40	64.3	OneWay	9215	9	8183	9	737	9	655	9
A29 Fontwell Avenue (South of Fontwell West Roundabout) (Southbound)						1	40	64.3	OneWay	6253	9	5552	9	500	9	444	9
9 A29 Fontwell Avenue (North Memorial Roundabout) (Northbound)						1	30	48.2	OneWay	6275	5	5572	5	502	5	619	5
A29 Fontwell Avenue (North Memorial Roundabout) (Southbound)						1	30	48.2	OneWay	8875	5	7881	5	710	5	510	5
10 A29 Nyton Road (Eastbound)						1	30	48.2	OneWay	11778	6	10459	6	942	6	837	6
A29 Nyton Road (Westbound)						1	30	48.2	OneWay	11453	6	10170	6	916	6	814	6
11 B2233 Barnham Road (Eastbound)						1	30	48.2	OneWay	4241	2	3766	2	341	2	304	2
B2233 Barnham Road (Westbound)						1	30	48.2	OneWay	6966	3	6186	3	557	3	492	3
12 B2233 Nyton Road (South of A27) (Northbound)						1	30	48.2	OneWay	8078	2	7173	2	646	2	574	2
B2233 Nyton Road (South of A27) (Southbound)						1	30	48.2	OneWay	3890	3	3455	3	311	3	276	3
13 B2233 Nyton Road (Between Oving Road and A29) (Eastbound)						1	30	48.2	OneWay	3463	3	3075	3	277	3	451	2
B2233 Nyton Road (Between Oving Road and A29) (Westbound)						1	30	48.2	OneWay	10438	3	9269	3	835	3	403	3
14 A29 Shripney Road (Northbound)						2	40	64.3	OneWay	17365	2	15420	2	1389	2	1234	2
A29 Shripney Road (Southbound)						2	40	64.3	OneWay	18078	2	16053	2	1446	2	1284	2
15 Oving Road (Northbound)						1	30	48.2	OneWay	3065	1	2722	1	245	1	218	1
Oving Road (Southbound)						1	30	48.2	OneWay	2252	2	2000	2	180	2	160	2
16 Hook Lane (Eastbound)						1	30	48.2	OneWay	1652	1	1467	1	132	1	117	1
Hook Lane (Westbound)						1	30	48.2	OneWay	1427	1	1268	1	114	1	101	1
17 Church Lane (Southbound)						1	30	48.2	OneWay	473	2	437	2	38	2	35	2
Church Lane (Northbound)						1	30	48.2	OneWay	393	2	364	2	31	2	29	2
18 A259 Rowan Way (Eastbound)						1	40	64.3	OneWay	6679	9	6088	9	527	9	487	9
A259 Rowan Way (Westbound)						1	40	64.3	OneWay	7255	8	6708	8	579	8	535	8
19 A259 Charles Purely Way (Northbound)						1	40	64.3	OneWay	7290	2	6561	2	590	2	518	2
A259 Charles Purely Way (Southbound)						1	40	64.3	OneWay	10715	1	9515	1	857	1	761	1
21 A29 Westergate Street (South of Site Access) (Northbound)						1	30	48.2	OneWay	6802	5	6947	5	539	5	533	5
A29 Westergate Street (South of Site Access) (Southbound)						1	30	48.2	OneWay	6855	5	6964	5	612	5	548	5
22 Site Access (Eastbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
Site Access (Westbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
23 Realigned A29 (Northbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
Realigned A29 (Southbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
24 A29 East of Fontwell East Roundabout (Eastbound)						1	60	96.5	OneWay	10800	6	9590	12	864	6	668	12
A29 East of Fontwell East Roundabout (Westbound)						1	60	96.5	OneWay	8413	10	7470	7	673	10	820	7
25 Gladius Way (Eastbound)						1	50	80.4	OneWay	6614	4	7431	4	529	4	596	4
Gladius Way (Westbound)						1	50	80.4	OneWay	7189	3	8078	3	575	3	648	3

Link Description										AADT (24 hours)		AAWT (18 hours)		AM Peak		PM Peak					
Link ID	A-B	B-A	A Node X	A Node Y	Road Class	Lanes	Speed	Lim	Speed	Lim	One Way/Two Way	Flow (veh/ % HDV)	Flow (veh/ % HDV)	Flow	%HDV	Flow	%HDV	2031 Base + Dev	419172		
2031 Baseline + Development																				% HGv	3.97
1	A27 Westbound between A29 and A285 - TMU Site 5756/1		492811	106930	A	2	70		112.6		OneWay	22414	7.2	22655	8.4	1603	7.2	1457	8.4		
	A27 Eastbound between A29 and A285 - TMU Site 5755/1		491362	107033	A	2	70		112.6		OneWay	22529	6.5	22993	7.5	1301	6.5	2134	7.5		
2	A27 Eastbound between A29 near Bognor Regis		495269	107210	A	2	70		112.6		OneWay	20703	7	20857	8.1	1355	7	1358	8.1		
	A27 Westbound between A29 near Bognor Regis		495274	107200	A	2	70		112.6		OneWay	21171	6.6	21552	7.6	1698	6.6	1721	6.6		
3	A27 Westbound - Bognor Regis and Arundel		496760	106857	A	2	70		112.6		OneWay	15867	7.3	15965	8.3	950	7.3	1235	8.3		
	A27 Eastbound - Bognor Regis and Arundel		496640	106862	A	2	70		112.6		OneWay	15621	7.8	16311	8.8	1232	8.8	916	8.8		
4	A27 Westbound (W of Fontwell Roundabout)		495269	107210	A	2	70		112.6		OneWay	22168	6.6	22436	7.5	1335	6.6	1772	7.5		
	A27 Eastbound (W of Fontwell Roundabout)		495269	107210	A	2	70		112.6		OneWay	14671	6	17028	6.8	1646	6	1645	6		
5	A29 Westergate Street (North of Site Access) (Northbound)					1	30		48.2		OneWay	7464	5	7595	5	657	4.8	436	5		
	A29 Westergate Street (North of Site Access) (Southbound)					1	30		48.2		OneWay	7368	5	7628	5	499	5	690	5		
6	Meadow Way Westbound					1	30		48.2		OneWay	107	0.7	96	0.7	9	0.7	8	0.7		
	Meadow Way Eastbound					1	30		48.2		OneWay	225	1.7	203	1.7	18	1.7	16	1.7		
7	Ivy Lane Westbound					1	30		48.2		OneWay	1070	0	962	0	86	0	77	0		
	Ivy Lane Eastbound					1	30		48.2		OneWay	451	0	406	0	36	0	32	0		
8	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Northbound)					1	40		64.3		OneWay	9388	9.3	8340	9.3	744	9.3	660	9.3		
	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Southbound)					1	40		64.3		OneWay	6355	8.8	5646	8.8	507	8.8	450	8.8		
9	A29 Fontwell Avenue (North Memorial Roundabout) (Northbound)					1	30		48.2		OneWay	6331	5	5625	5	502	5	619	5		
	A29 Fontwell Avenue (North Memorial Roundabout) (Southbound)					1	30		48.2		OneWay	8931	5	7934	5	710	5	510	5		
10	A29 Nyton Road (Eastbound)					1	30		48.2		OneWay	11995	6	10655	6	965	6	857	6		
	A29 Nyton Road (Westbound)					1	30		48.2		OneWay	11625	5.5	10327	5.5	939	5.5	834	5.5		
11	B2233 Barnham Road (Eastbound)					2	30		48.2		OneWay	4439	2	4138	2	344	2	306	2		
	B2233 Barnham Road (Westbound)					1	30		48.2		OneWay	7381	3	6365	3	555	3	493	3		
12	B2233 Nyton Road (South of A27) (Northbound)					1	30		48.2		OneWay	8543	2.2	7589	2.2	669	2.2	594	2.2		
	B2233 Nyton Road (South of A27) (Southbound)					1	30		48.2		OneWay	4108	3	3871	3	334	3	297	3		
13	B2233 Nyton Road (Between Oving Road and A29) (Eastbound)					1	30		48.2		OneWay	3680	3	3128	3	277	3	451	2.2		
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)					1	30		48.2		OneWay	10902	2.5	9322	2.5	835	2.5	403	3		
14	A29 Shripney Road (Northbound)					2	40		64.3		OneWay	17554	2	15772	2	1408	2	1250	2		
	A29 Shripney Road (Southbound)					2	40		64.3		OneWay	18470	2	16224	2	1465	2	1301	2		
15	Oving Road (Northbound)					1	30		48.2		OneWay	3121	1	2775	1	248	1	220	1		
	Oving Road (Southbound)					1	30		48.2		OneWay	2308	2	2053	2	183	2	162	2		
16	Hook Lane (Eastbound)					1	30		48.2		OneWay	1708	1	1520	1	135	1	120	1		
	Hook Lane (Westbound)					1	30		48.2		OneWay	1483	1	1321	1	117	1	104	1		
17	Church Lane (Southbound)					1	30		48.2		OneWay	529	2	517	2	40	2	37	2		
	Church Lane (Northbound)					1	30		48.2		OneWay	449	2	444	2	34	2	31	2		
18	A259 Rowan Way (Eastbound)					1	40		64.3		OneWay	6711	9	6120	9	527	9	497	9		
	A259 Rowan Way (Westbound)					1	40		64.3		OneWay	7287	8	6730	8	579	8	535	8		
19	A259 Charles Purley Way (Northbound)					1	40		64.3		OneWay	7346	2	6617	2	586	2	520	2		
	A259 Charles Purley Way (Southbound)					1	40		64.3		OneWay	10771	1	9568	1	860	1	763	1		
21	A29 Westergate Street (South of Site Access) (Northbound)					1	30		48.2		OneWay	6927	5	7000	5	558	5	562	5		
	A29 Westergate Street (South of Site Access) (Southbound)					1	30		48.2		OneWay	7183	5	7017	5	660	5	562	5		
22	Site Access (Eastbound)					1	30		48.2		OneWay	755	1	670	1	60	1	116	1		
	Site Access (Westbound)					1	30		48.2		OneWay	1910	1	1696	1	153	1	57	1		
23	Realigned A29 (Northbound)					1	30		48.2		OneWay	16006	1	12596	1	1130	1	587	1		
	Realigned A29 (Southbound)					1	30		48.2		OneWay	9794	2	7268	2	650	2	1064	2		
24	A29 East of Fontwell East Roundabout (Eastbound)					1	60		96.5		OneWay	10973	8	9751	7	681	8	877	7		
	A29 East of Fontwell East Roundabout (Westbound)					1	60		96.5		OneWay	8515	5	7533	12	963	5	700	12		
25	Gladius Way (Eastbound)					1	50		80.4		OneWay	6646	4	7453	4	529	4	596	4		
	Gladius Way (Westbound)					1	50		80.4		OneWay	7221	3	8100	3	575	3	648	3		

Link Description										AADT (24 hours)		AAWT (18 hours)		AM Peak		PM Peak		
Link ID	A-B	B-A	A Node X	A Node Y	Road Class	Lanes	Speed Lim	Speed Lim	One Way/Two Way	Flow (veh/day)	% HDV	Flow (veh/ % HDV	% HDV	Flow	%HDV	Flow	%HDV	
2038 Baseline																		
1	A27 Westbound between A29 and A285 - TMU		Site 5756/1	492811	106930	A	2	70	112.6	OneWay	23087	7.2	23378	8.4	1622	7.2	1445	8.4
	A27 Eastbound between A29 and A285 - TMU		Site 5755/1	491362	107033	A	2	70	112.6	OneWay	23463	6.5	24026	7.5	1340	6.5	2206	7.5
2	A27 Eastbound between A29 near Bognor Regis			495269	107210	A	2	70	112.6	OneWay	21764	7	21721	8.1	1396	7	1395	8.1
	A27 Westbound between A29 near Bognor Regis			495274	107200	A	2	70	112.6	OneWay	22114	6.6	22071	7.6	1721	6.6	1721	6.6
3	A27 Westbound - Bognor Regis and Arundel			496760	106857	A	2	70	112.6	OneWay	16047	7.3	16209	8.3	938	7.3	1212	8.3
	A27 Eastbound - Bognor Regis and Arundel			496640	106862	A	2	70	112.6	OneWay	16217	7.8	16573	8.8	1267	8.8	932	8.8
4	A27 Westbound (W of Fontwell Roundabout)			495269	107210	A	2	70	112.6	OneWay	14878	6.6	15841	7.5	1396	6.6	1854	7.5
	A27 Eastbound (W of Fontwell Roundabout)			495269	107210	A	2	70	112.6	OneWay	23270	6	23814	6.8	1721	6	1721	6
5	A29 Westergate Street (North of Site Access) (Northbound)						1	30	48.2	OneWay	7752	5	7822	5	685	4.8	454	5
	A29 Westergate Street (North of Site Access) (Southbound)						1	30	48.2	OneWay	7688	5	7891	5	521	5	721	5
6	Meadow Way Westbound						1	30	48.2	OneWay	112	0.7	101	0.7	9	0.7	8	0.7
	Meadow Way Eastbound						1	30	48.2	OneWay	236	1.7	213	1.7	19	1.7	17	1.7
7	Ivy Lane Westbound						1	30	48.2	OneWay	1122	0	1009	0	90	0	81	0
	Ivy Lane Eastbound						1	30	48.2	OneWay	474	0	426	0	38	0	34	0
8	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Northbound)						1	40	64.3	OneWay	9526	9.3	8536	9.3	764	9.3	683	9.3
	A29 Fontwell Avenue (South of Fontwell West Roundabout) (Southbound)						1	40	64.3	OneWay	7292	8.8	6505	8.8	581	8.8	520	8.8
9	A29 Fontwell Avenue (North Memorial Roundabout) (Northbound)						1	30	48.2	OneWay	3100	2	2753	2	248	2	364	2
	A29 Fontwell Avenue (North Memorial Roundabout) (Southbound)						1	30	48.2	OneWay	6375	2.2	5661	2.2	510	2.2	361	2.1
10	A29 Nyton Road (Eastbound)						1	30	48.2	OneWay	12171	6	10911	6	966	6	873	6
	A29 Nyton Road (Westbound)						1	30	48.2	OneWay	12347	5.5	11233	5.5	995	5.5	899	5.5
11	B2233 Barnham Road (Eastbound)						1	30	48.2	OneWay	4248	2	3796	2	335	2	304	2
	B2233 Barnham Road (Westbound)						1	30	48.2	OneWay	6821	3	6216	3	552	3	500	3
12	B2233 Nyton Road (South of A27) (Northbound)						1	30	48.2	OneWay	8209	2.2	7537	2.2	649	2.2	600	2.2
	B2233 Nyton Road (South of A27) (Southbound)						1	30	48.2	OneWay	3884	3	3719	3	318	3	297	3
13	B2233 Nyton Road (Between Oving Road and A29) (Eastbound)						1	30	48.2	OneWay	3616	3	3210	3	289	3	471	3
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)						1	30	48.2	OneWay	10901	2.5	9676	2.5	872	2.5	421	2.5
14	A29 Shripney Road (Northbound)						2	40	64.3	OneWay	17742	2	15840	2	1413	2	1267	2
	A29 Shripney Road (Southbound)						2	40	64.3	OneWay	18376	2	16539	2	1476	2	1323	2
15	Oving Road (Northbound)						1	30	48.2	OneWay	3750	1	3330	1	300	1	266	1
	Oving Road (Southbound)						1	30	48.2	OneWay	2363	2	2098	2	189	2	168	2
16	Hook Lane (Eastbound)						1	30	48.2	OneWay	2375	1	2109	1	190	1	169	1
	Hook Lane (Westbound)						1	30	48.2	OneWay	3025	1	2686	1	242	1	215	1
17	Church Lane (Southbound)						1	30	48.2	OneWay	520	2	443	2	40	2	35	2
	Church Lane (Northbound)						1	30	48.2	OneWay	437	2	373	2	33	2	30	2
18	A259 Rowan Way (Eastbound)						1	40	64.3	OneWay	7029	9	5915	9	553	9	466	9
	A259 Rowan Way (Westbound)						1	40	64.3	OneWay	7623	8	6422	8	606	8	507	8
19	A259 Charles Purley Way (Northbound)						1	40	64.3	OneWay	7738	2	6959	2	626	2	550	2
	A259 Charles Purely Way (Southbound)						1	40	64.3	OneWay	9600	1	8525	1	768	1	682	1
21	A29 Westergate Street (South of Site Access) (Northbound)						1	30	48.2	OneWay	7135	5	7351	5	566	5	559	5
	A29 Westergate Street (South of Site Access) (Southbound)						1	30	48.2	OneWay	7191	5	7369	5	642	5	575	5
22	Site Access (Eastbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
	Site Access (Westbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
23	Realigned A29 (Northbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
	Realigned A29 (Southbound)						1	30	48.2	OneWay	0	0	0	0	0	0	0	0
24	A29 East of Fontwell East Roundabout (Eastbound)						1	60	96.5	OneWay	8513	8	5420	7	681	8	877	7
	A29 East of Fontwell East Roundabout (Westbound)						1	60	96.5	OneWay	12038	5	8060	12	963	5	700	12
25	Gladius Way (Eastbound)						1	50	80.4	OneWay	6941	4	7799	4	555	4	578	4
	Gladius Way (Westbound)						1	50	80.4	OneWay	7545	3	8477	3	604	3	629	3

Link Description										AADT (24 hours)		AAWT (18 hours)		AM Peak		PM Peak	
Link ID	A-B	B-A	A Node X	A Node Y	Road Class	Lanes	Speed Limi	Speed Limi	One Way/Two Way	Flow (veh/ % HDV)	Flow (veh/ % HDV)	Flow	%HDV	Flow	%HDV		
2038 Baseline + Development																	
1	A27 Westbound between A29 and A285 - TMU Site 5756/1					2	70	112.6	OneWay	23496	7.2	23741	8.4	1674	7.2	1521	8.4
	A27 Eastbound between A29 and A285 - TMU Site 5755/1					2	70	112.6	OneWay	23626	6.5	24170	7.5	1360	6.5	2232	7.5
2	A27 Eastbound between A29 near Bognor Regis					2	70	112.6	OneWay	21926	7	21865	8.1	1415	7	1420	8.1
	A27 Westbound between A29 near Bognor Regis					2	70	112.6	OneWay	22684	6.6	22577	7.6	1773	6.6	1797	6.6
3	A29 Westergate Street (Northbound)					1	30	48.2	OneWay	16618	5	16716	5	990	7.3	1288	8.3
	A29 Westergate Street (Southbound)					1	30	48.2	OneWay	16379	5	17079	5	1287	8.8	957	8.8
4	A27 Eastbound - Bognor Regis an		496760	106857	A	2	70	112.6	OneWay	15041	6.6	15985	7.5	1396	6.6	1854	7.5
	A27 Westbound - Bognor Regis a		496640	106862	A	2	70	112.6	OneWay	23840	6	24320	6.8	1721	6	1721	6
5	A29 Westergate Street (North of		495269	107210	A	2	70	112.6	OneWay	7803	6.6	7874	7.5	685	4.8	454	5
	A29 Westergate Street (North of		495269	107210	A	2	70	112.6	OneWay	7703	6	7912	6.8	521	5	721	5
6	Meadow Way Westbound					1	30	48.2	OneWay	112	0.7	101	0.7	9	0.7	8	0.7
	Meadow Way Eastbound					1	30	48.2	OneWay	236	1.7	213	1.7	19	1.7	17	1.7
7	Ivy Lane Westbound					1	30	48.2	OneWay	1122	0	1009	0	90	0	81	0
	Ivy Lane Eastbound					1	30	48.2	OneWay	474	0	426	0	38	0	34	0
8	A29 Fontwell Avenue (South of Fontwell West Roundabout) (North					1	40	64.3	OneWay	9699	9.3	8692	9.3	771	9.3	689	9.3
	A29 Fontwell Avenue (South of Fontwell West Roundabout) (South					1	40	64.3	OneWay	7394	8.8	6598	8.8	588	8.8	526	8.8
9	A29 Fontwell Avenue (North Memorial Roundabout) (Northbound					1	30	48.2	OneWay	3156	5	2806	5	252	5	269	5
	A29 Fontwell Avenue (North Memorial Roundabout) (Southbound					1	30	48.2	OneWay	6431	5	5714	5	514	5	534	5
9	A29 Nyton Road (Eastbound)					1	30	48.2	OneWay	12389	6	11108	6	989	6	893	6
	A29 Nyton Road (Westbound)					1	30	48.2	OneWay	12519	5.5	11390	5.5	1018	5.5	919	5.5
10	B2233 Barnham Road (Eastbound)					1	30	48.2	OneWay	4446	2	4168	2	347	2	321	2
	B2233 Barnham Road (Westbound)					1	30	48.2	OneWay	7236	3	6395	3	559	3	510	3
12	B2233 Nyton Road (South of A27) (Northbound)					1	30	48.2	OneWay	8674	2.2	7953	2.2	672	2.2	612	2.2
	B2233 Nyton Road (South of A27) (Southbound)					1	30	48.2	OneWay	4102	3	4134	3	341	3	318	3
13	B2233 Nyton Road (Between Oving Road and A29) (Eastbound)					1	30	48.2	OneWay	3834	3	3263	3	289	3	471	3
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)					1	30	48.2	OneWay	11366	2.5	9729	2.5	872	2.5	421	2.5
12	A29 Shripney Road (Northbound)					2	40	64.3	OneWay	17931	2	16191	2	1432	2	1284	2
	A29 Shripney Road (Southbound)					2	40	64.3	OneWay	18768	2	16710	2	1495	2	1340	2
13	Oving Road (Northbound)					1	30	48.2	OneWay	3806	1	3383	1	302	1	269	1
	Oving Road (Southbound)					1	30	48.2	OneWay	2419	2	2151	2	191	2	170	2
14	Hook Lane (Eastbound)					1	30	48.2	OneWay	2431	1	2162	1	192	1	171	1
	Hook Lane (Westbound)					1	30	48.2	OneWay	3081	1	2739	1	244	1	217	1
15	Church Lane (Southbound)					1	30	48.2	OneWay	576	2	523	2	42	2	37	2
	Church Lane (Northbound)					1	30	48.2	OneWay	493	2	453	2	36	2	31	2
16	A259 Rowan Way (Eastbound)					1	40	64.3	OneWay	7061	9	5947	9	556	9	489	9
	A259 Rowan Way (Westbound)					1	40	64.3	OneWay	7655	8	6444	8	604	8	532	8
17	A259 Charles Purley Way (Northbound)					1	40	64.3	OneWay	7794	2	7768	2	621	2	552	2
	A259 Charles Purely Way (Southbound)					1	40	64.3	OneWay	9656	1	8578	1	906	1	808	1
21	A29 Westergate Street (South of Site Access) (Northbound)					1	30	48.2	OneWay	7260	5	7404	5	585	5	588	5
	A29 Westergate Street (South of Site Access) (Southbound)					1	30	48.2	OneWay	7519	5	7422	5	690	5	589	5
22	Site Access (Eastbound)					1	30	48.2	OneWay	755	1	670	1	60	1	116	1
	Site Access (Westbound)					1	30	48.2	OneWay	1910	1	1696	1	153	1	57	1
23	Realigned A29 (Northbound)					1	30	48.2	OneWay	16006	1	12596	1	1276	1	671	1
	Realigned A29 (Southbound)					1	30	48.2	OneWay	9794	1	7268	1	779	1	1150	1
24	A29 East of Fontwell East Roundabout (Eastbound)					1	60	96.5	OneWay	8685	8	5581	7	681	8	877	7
	A29 East of Fontwell East Roundabout (Westbound)					1	60	96.5	OneWay	12140	5	8123	12	963	5	700	12
25	Gladius Way (Eastbound)					1	50	80.4	OneWay	6973	4	7821	4	555	4	578	4
	Gladius Way (Westbound)					1	50	80.4	OneWay	7577	3	8499	3	604	3	629	3

Link Description			Speed Limit (mph)	Speed Limit (kph)	One Way/Two Way	AADT (24 hours)	
2019 Base	Link ID	Road Class Lanes				Flow (veh/day)	% HDV
	10 A29 Nyton Road (Eastbound)		1	30	48.2 OneWay	10959	6
	A29 Nyton Road (Westbound)		1	30	48.2 OneWay	10657	5.5
	13 B2233 Nyton Road (Between Oving Road and A29) (Eastbound)		1	30	48.2 OneWay	3222	3
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)		1	30	48.2 OneWay	9712	2.5
	21 A29 Westergate Street (South of Site Access) (Northbound)		1	30	48.2 OneWay	6300	5
	A29 Westergate Street (South of Site Access) (Southbound)		1	30	48.2 OneWay	6350	5
	22 Site Access (Eastbound)		1	30	48.2 OneWay	0	0
	Site Access (Westbound)		1	30	48.2 OneWay	0	0
2031 Base							
	10 A29 Nyton Road (Eastbound)		1	30	48.2 OneWay	11778	6
	A29 Nyton Road (Westbound)		1	30	48.2 OneWay	11453	6
	13 B2233 Nyton Road (Between Oving Road and A29) (Eastbound)		1	30	48.2 OneWay	3463	3
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)		1	30	48.2 OneWay	10438	3
	21 A29 Westergate Street (South of Site Access) (Northbound)		1	30	48.2 OneWay	6927	5
	A29 Westergate Street (South of Site Access) (Southbound)		1	30	48.2 OneWay	7183	5
	22 Site Access (Eastbound)		1	30	48.2 OneWay	755	1
	Site Access (Westbound)		1	30	48.2 OneWay	1910	1
2031 Base + Dev							
	10 A29 Nyton Road (Eastbound)		1	30	48.2 OneWay	11995	6
	A29 Nyton Road (Westbound)		1	30	48.2 OneWay	11625	5.5
	13 B2233 Nyton Road (Between Oving Road and A29) (Eastbound)		1	30	48.2 OneWay	3680	3
	B2233 Nyton Road (Between Oving Road and A29) (Westbound)		1	30	48.2 OneWay	10902	2.5
	21 A29 Westergate Street (South of Site Access) (Northbound)		1	30	48.2 OneWay	6927	5
	A29 Westergate Street (South of Site Access) (Southbound)		1	30	48.2 OneWay	7183	5
	22 Site Access (Eastbound)		1	30	48.2 OneWay	755	1
	Site Access (Westbound)		1	30	48.2 OneWay	1910	1
EFT							
2019 Base		47200					
2031 Base + Dev		54978					
Uplift		7778					
% HGV		3.625					
Speed		48.2					
Link Length (km)		9.2					
2031 Base		53906					

Construction					
	AADT		AAWT		
	Cars	HGVs	Cars	HGVs	
Arrivals	51	13	64	16	
Departures	51	13	64	16	

Appendix 15.3

Westergate Construction EFT

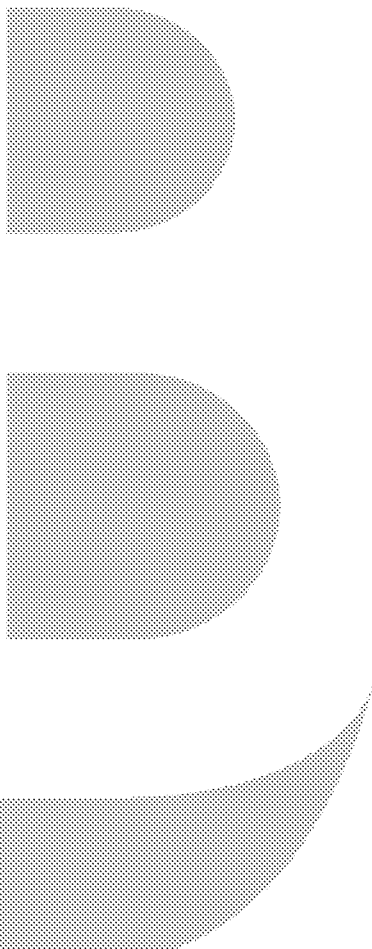
B

B

ARUN DISTRICT COUNCIL AL/11/24/OUT

Appendix 15.4

Westergate Operational EFT



Select Pollutants		Select Outputs		Additional Outputs		Advanced Options		Click the buttons:	
☐ SO ₂	☐ CO ₂	☐ Air Quality Modelling (tonnes)	☐ Breakdown by vehicle	☐ Road Transport Only	☐ Property CO ₂ Emissions	☐ ECU Annual Emissions (tonnes)		Run EFT	
☐ PM ₁₀	☐ PM _{2.5}	☐ Emissions Rates (g/kWh)	☐ Source Emission Rates	☐ Single Car ECU Contribution	☐ Global N ₂ Contribution (per ECU Emission)	☐ ECU Annual Emissions (tonnes)		Clear Input Data	
☐ Road Link Emissions	☐ ECU by Source			☐ Road Transport Only		☐ ECU Annual Emissions (tonnes)			

Please Select from the Following Options:

Expert Output	
Area: Westergate	Year: 2023
Traffic Format: Road Link	File Name:

Select "Basic Split" or "Detailed Emissions" by "No" or "Motorcycle/Technological" checkbox

Source(s)	Road Type	Traffic Flow	% HDV	Speed (kph)	No. of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
Westergate	Urban (per London)	7770	3.5%	55.3	24	8.2			

Source Name	Pollutant Name	All Vehicles (Annual Emissions (kg/yr except CO ₂ tonnes/yr))	All LDVs (Annual Emissions (kg/yr except CO ₂ tonnes/yr))	All HDVs (Annual Emissions (kg/yr except CO ₂ tonnes/yr))
Westergate	CO ₂	3,083.58655	2,447.01082	636.57573

All links	Total CO ₂ Emissions (tonnes/annum)	Direct CO ₂ Emissions from Tailpipe (tonnes/annum)	Indirect CO ₂ Emissions from Electric Charging (tonnes/annum)
	3142.71	3083.69	59.03

Per Link	Total CO ₂ Emissions (tonnes/annum)	Direct CO ₂ Emissions from Tailpipe			Indirect CO ₂ Emissions from Electric Charging (CO ₂ e)				
		All Vehicles (tonnes/annum)	All LDVs (tonnes/annum)	All HDVs (tonnes/annum)	All Vehicles (tonnes/annum)	Electric Cars (tonnes/annum)	Plugin Hybrid Cars (tonnes/annum)	Electric LGVs (tonnes/annum)	Plugin Hybrid LGVs (tonnes/annum)
Source Name									
Westergate	3,142.71	3,083.69	2,447.01	636.58	59.03	42.53	11.09	5.40	0.00

Appendix 15.5

Average Annual Mean Temperature Anomaly

LB

LB

header length	16						
Area	487500.0 112500.0						
Baseline	1981-2000						
Data Source	Land probabilistic projections						
Data Type	cdf						
Scenario	RCP 8.5						
Show Labels	TRUE						
Software Versior	WPS-2.8.0-DP-2.8.0-CV-1.0.10						
Spatial Represen	25km grid						
Temporal Averag	Annual						
Time Period	annual						
Time Slice Type	1-year time slices						
Variable	Mean air temperature anomaly at 1.5m (°C)						
Year Maximum	2100						
Year Minimum	2023						
Date	Mean air t Mean air t Mean air t Mean air t Mean air t Mean air t Mean air temperature anomaly at 1.5m (°C)(95th Percentile)						
01/06/2023	-0.39747	-0.11543	0.359379	0.896676	1.454926	1.968118	2.282598
01/06/2024	-0.37919	-0.09557	0.382184	0.923547	1.486781	2.005109	2.323134
01/06/2025	-0.36113	-0.07587	0.405019	0.950765	1.519311	2.043133	2.364919
01/06/2026	-0.34318	-0.05623	0.427991	0.978427	1.552591	2.082231	2.40798
01/06/2027	-0.32522	-0.03654	0.451212	1.006631	1.586692	2.122439	2.452335
01/06/2028	-0.30713	-0.01667	0.474792	1.035472	1.621681	2.163784	2.497998
01/06/2029	-0.2888	0.003491	0.498841	1.06504	1.657617	2.206291	2.544974
01/06/2030	-0.27011	0.024045	0.523463	1.095419	1.694552	2.249979	2.593269
01/06/2031	-0.25097	0.045101	0.548754	1.126683	1.73253	2.294861	2.642882
01/06/2032	-0.23129	0.066751	0.5748	1.158894	1.771583	2.340947	2.693811
01/06/2033	-0.21098	0.089078	0.601676	1.192105	1.811736	2.388245	2.746056
01/06/2034	-0.18999	0.11215	0.629441	1.226352	1.853005	2.436759	2.799612
01/06/2035	-0.16827	0.136023	0.658145	1.261661	1.895395	2.486491	2.854479
01/06/2036	-0.14577	0.160737	0.68782	1.298046	1.938906	2.537444	2.910654
01/06/2037	-0.12248	0.18632	0.718487	1.335505	1.983528	2.589616	2.968136
01/06/2038	-0.09839	0.212787	0.750151	1.37403	2.029248	2.643007	3.026926
01/06/2039	-0.07351	0.240139	0.782808	1.413599	2.076045	2.697615	3.087022
01/06/2040	-0.04785	0.268367	0.816442	1.454187	2.123899	2.753439	3.148425
01/06/2041	-0.02143	0.297453	0.851031	1.495758	2.172786	2.810475	3.211133
01/06/2042	0.00571	0.327373	0.886542	1.538278	2.222683	2.86872	3.275144
01/06/2043	0.033544	0.358095	0.922942	1.581706	2.273567	2.92817	3.340453
01/06/2044	0.062032	0.389585	0.960192	1.626003	2.325419	2.988818	3.407053
01/06/2045	0.091136	0.421806	0.998252	1.671132	2.37822	3.050655	3.474933
01/06/2046	0.120818	0.45472	1.037081	1.717056	2.431956	3.113669	3.544077
01/06/2047	0.151042	0.488289	1.076642	1.763743	2.486615	3.177846	3.614467
01/06/2048	0.181774	0.522475	1.116896	1.811164	2.542188	3.24317	3.686079
01/06/2049	0.212982	0.557242	1.157808	1.859294	2.598671	3.309618	3.758884
01/06/2050	0.244637	0.592556	1.199345	1.908112	2.65606	3.37717	3.832851
01/06/2051	0.276714	0.628384	1.241477	1.957601	2.714352	3.445798	3.907946
01/06/2052	0.309188	0.664692	1.284176	2.007747	2.773548	3.515475	3.98413
01/06/2053	0.342037	0.701452	1.327414	2.058539	2.833647	3.586172	4.061364
01/06/2054	0.375239	0.738633	1.371169	2.10997	2.894647	3.657859	4.139608
01/06/2055	0.408774	0.776208	1.415417	2.162034	2.956547	3.730504	4.218822
01/06/2056	0.442623	0.814151	1.460139	2.214728	3.019342	3.804076	4.298965
01/06/2057	0.476768	0.852438	1.505316	2.268049	3.083026	3.878544	4.38
01/06/2058	0.511193	0.891048	1.550933	2.321997	3.147591	3.953877	4.461892
01/06/2059	0.545882	0.929961	1.596976	2.376572	3.213022	4.030042	4.544607
01/06/2060	0.580821	0.969163	1.643434	2.431775	3.279305	4.10701	4.628113
01/06/2061	0.616001	1.008641	1.690297	2.487608	3.346418	4.184749	4.71238
01/06/2062	0.651412	1.048389	1.737561	2.544071	3.414337	4.263225	4.797379
01/06/2063	0.687051	1.088402	1.785221	2.601166	3.483032	4.342403	4.883076
01/06/2064	0.722919	1.128684	1.83328	2.658891	3.552468	4.422243	4.969437
01/06/2065	0.759023	1.169243	1.881742	2.717248	3.622605	4.502702	5.056421
01/06/2066	0.795374	1.210093	1.930616	2.776233	3.6934	4.583731	5.143981
01/06/2067	0.831995	1.251256	1.979917	2.835844	3.764803	4.665275	5.23206
01/06/2068	0.868913	1.292761	2.029664	2.89608	3.836764	4.747273	5.320593
01/06/2069	0.906166	1.334645	2.079883	2.956937	3.909227	4.829659	5.409506
01/06/2070	0.943799	1.37695	2.130606	3.018414	3.982139	4.912362	5.498716
01/06/2071	0.981862	1.419726	2.181868	3.080508	4.055444	4.995309	5.58813
01/06/2072	1.020414	1.463029	2.233712	3.143222	4.129092	5.078426	5.67765
01/06/2073	1.059517	1.506917	2.286186	3.206557	4.203034	5.161638	5.767171
01/06/2074	1.099236	1.551453	2.339338	3.270519	4.277231	5.244875	5.856591
01/06/2075	1.139638	1.5967	2.393222	3.335116	4.351647	5.328072	5.945808
01/06/2076	1.180786	1.642724	2.447895	3.400358	4.426259	5.411175	6.034724

01/06/2077	1.222745	1.689585	2.503409	3.466259	4.501053	5.49414	6.123255
01/06/2078	1.265569	1.737343	2.55982	3.532836	4.576027	5.576937	6.21133
01/06/2079	1.30931	1.78605	2.617178	3.600107	4.651192	5.659555	6.298898
01/06/2080	1.354008	1.835752	2.675529	3.668093	4.72657	5.741999	6.385933
01/06/2081	1.399694	1.886487	2.734911	3.736815	4.802198	5.824297	6.472436
01/06/2082	1.446388	1.938281	2.795358	3.806297	4.878126	5.906498	6.558437
01/06/2083	1.494097	1.991151	2.856892	3.876561	4.954413	5.988674	6.644004
01/06/2084	1.542818	2.0451	2.919524	3.947629	5.031129	6.070915	6.729235
01/06/2085	1.592533	2.100121	2.983257	4.01952	5.108355	6.153335	6.814259
01/06/2086	1.643215	2.156193	3.04808	4.092254	5.186174	6.236059	6.899235
01/06/2087	1.694826	2.213284	3.113974	4.165844	5.264673	6.319227	6.984348
01/06/2088	1.747318	2.271353	3.180908	4.240304	5.343939	6.402984	7.069798
01/06/2089	1.800637	2.330346	3.24884	4.315638	5.424052	6.487476	7.155791
01/06/2090	1.85472	2.390201	3.317719	4.391847	5.505086	6.572846	7.242539
01/06/2091	1.909498	2.450849	3.387486	4.468925	5.587103	6.659219	7.33024
01/06/2092	1.9649	2.512215	3.458073	4.546858	5.670147	6.746707	7.419074
01/06/2093	2.020851	2.574215	3.529405	4.625623	5.754244	6.835393	7.509193
01/06/2094	2.07727	2.636764	3.601398	4.705183	5.839398	6.925334	7.600711
01/06/2095	2.134077	2.69977	3.673963	4.785491	5.925588	7.016548	7.693701
01/06/2096	2.191186	2.763136	3.747001	4.866482	6.012763	7.109016	7.788184
01/06/2097	2.248509	2.826761	3.820407	4.948076	6.100844	7.202678	7.884126
01/06/2098	2.305951	2.890539	3.894061	5.030168	6.189719	7.297426	7.981438
01/06/2099	2.363411	2.954352	3.967835	5.112633	6.279239	7.393104	8.079966

Appendix 15.6

Mean Annual Precipitation Anomaly

LB

LB

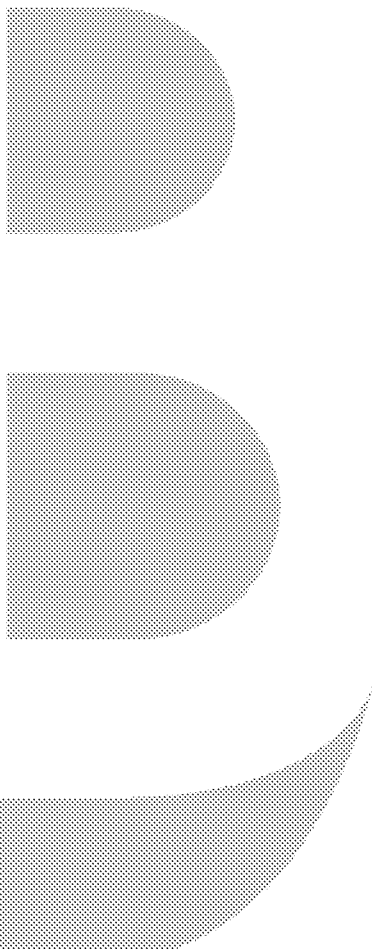
header length 16
 Area 487500.0 112500.0
 Baseline 1981-2000
 Data Source Land probabilistic projections
 Data Type cdf
 Scenario RCP 8.5
 Show Labels TRUE
 Software Version WPS-2.8.0-DP-2.8.0-CV-1.0.10
 Spatial Representation 25km grid
 Temporal Averaging Annual
 Time Period annual
 Time Slice Type 1-year time slices
 Variable Precipitation rate anomaly (%)
 Year Maximum 2100
 Year Minimum 2023

Date	Precipitation rate anomaly (%) (5th Percentile)	Precipitation rate anomaly (%) (10th Percentile)	Precipitation rate anomaly (%) (25th Percentile)	Precipitation rate anomaly (%) (50th Percentile)	Precipitation rate anomaly (%) (75th Percentile)	Precipitation rate anomaly (%) (90th Percentile)	Precipitation rate anomaly (%) (95th Percentile)
01/06/2023	-22.9541	-17.7031	-9.17031	1.173026	12.19374	22.97319	29.89876
01/06/2024	-22.8365	-17.6427	-9.16884	1.129846	12.17012	22.94003	29.82542
01/06/2025	-22.7253	-17.59	-9.17318	1.083785	12.14311	22.89537	29.73594
01/06/2026	-22.6226	-17.5464	-9.1837	1.035504	12.11274	22.84032	29.63206
01/06/2027	-22.5304	-17.5129	-9.20071	0.98566	12.0791	22.77609	29.51567
01/06/2028	-22.4506	-17.4908	-9.22438	0.934905	12.04236	22.70396	29.38882
01/06/2029	-22.3851	-17.4809	-9.25478	0.883884	12.00283	22.62531	29.25373
01/06/2030	-22.3354	-17.484	-9.29185	0.833238	11.96091	22.54164	29.11277
01/06/2031	-22.3031	-17.5007	-9.33538	0.783594	11.91718	22.45456	28.96844
01/06/2032	-22.2892	-17.5314	-9.38506	0.735565	11.87235	22.3658	28.82336
01/06/2033	-22.2945	-17.5763	-9.44045	0.689739	11.82729	22.27723	28.68029
01/06/2034	-22.3195	-17.6353	-9.50103	0.646668	11.783	22.1908	28.54202
01/06/2035	-22.3644	-17.7083	-9.56619	0.606861	11.7406	22.10857	28.41141
01/06/2036	-22.429	-17.7948	-9.63529	0.570769	11.70129	22.03264	28.29132
01/06/2037	-22.5128	-17.8943	-9.70767	0.538771	11.6663	21.96515	28.18457
01/06/2038	-22.615	-18.006	-9.78268	0.511164	11.63685	21.90818	28.09391
01/06/2039	-22.7347	-18.1291	-9.85969	0.48815	11.61413	21.86375	28.02195
01/06/2040	-22.8706	-18.2626	-9.93815	0.469829	11.59922	21.83375	27.97109
01/06/2041	-23.0213	-18.4055	-10.0176	0.456196	11.59306	21.81987	27.94353
01/06/2042	-23.1852	-18.5568	-10.0976	0.447142	11.59645	21.82357	27.94112
01/06/2043	-23.3608	-18.7154	-10.1778	0.442452	11.60995	21.846	27.96539
01/06/2044	-23.5463	-18.8802	-10.2581	0.441822	11.63396	21.88804	28.01743
01/06/2045	-23.7401	-19.05	-10.3384	0.444868	11.66862	21.95017	28.0979
01/06/2046	-23.9406	-19.224	-10.4185	0.451146	11.7139	22.03253	28.20696
01/06/2047	-24.1463	-19.4011	-10.4985	0.460168	11.76953	22.13486	28.34424
01/06/2048	-24.3557	-19.5803	-10.5785	0.471429	11.83509	22.25656	28.50884
01/06/2049	-24.5674	-19.7607	-10.6586	0.48443	11.91	22.39666	28.69931
01/06/2050	-24.7802	-19.9415	-10.7388	0.498704	11.99357	22.55387	28.91371
01/06/2051	-24.993	-20.1219	-10.8193	0.513837	12.08501	22.7266	29.1496
01/06/2052	-25.2047	-20.3011	-10.9	0.529491	12.18347	22.91303	29.40412
01/06/2053	-25.4144	-20.4783	-10.9808	0.545419	12.28811	23.11116	29.67408
01/06/2054	-25.6212	-20.6527	-11.0618	0.561478	12.39805	23.31881	29.95597
01/06/2055	-25.8243	-20.8236	-11.1425	0.577633	12.51246	23.53377	30.24613
01/06/2056	-26.0229	-20.9902	-11.2227	0.593951	12.6305	23.75373	30.54081
01/06/2057	-26.2163	-21.1519	-11.302	0.610598	12.75141	23.97644	30.83625
01/06/2058	-26.4039	-21.3078	-11.3797	0.627817	12.87443	24.19967	31.12882
01/06/2059	-26.585	-21.4572	-11.4553	0.64591	12.99885	24.42132	31.41508
01/06/2060	-26.7589	-21.5993	-11.5281	0.665211	13.12396	24.6394	31.69189
01/06/2061	-26.925	-21.7336	-11.5974	0.686053	13.24909	24.85208	31.95644
01/06/2062	-27.0827	-21.8593	-11.6625	0.708734	13.37354	25.05771	32.20635
01/06/2063	-27.2314	-21.9758	-11.7229	0.733482	13.49661	25.25485	32.43967
01/06/2064	-27.3706	-22.0828	-11.7778	0.760417	13.61758	25.44226	32.65495
01/06/2065	-27.5	-22.1799	-11.827	0.789524	13.73568	25.6189	32.85118
01/06/2066	-27.6193	-22.2669	-11.8702	0.820618	13.85013	25.78397	33.02786
01/06/2067	-27.7282	-22.3439	-11.9073	0.853333	13.9601	25.93686	33.18491
01/06/2068	-27.8268	-22.4111	-11.9386	0.887105	14.06475	26.07718	33.32269
01/06/2069	-27.9152	-22.469	-11.9645	0.921179	14.16325	26.20474	33.44193
01/06/2070	-27.994	-22.5183	-11.9857	0.954619	14.25476	26.31955	33.54374
01/06/2071	-28.0635	-22.5599	-12.003	0.986334	14.33851	26.42185	33.62949

01/06/2072	-28.1246	-22.5948	-12.0177	1.015118	14.41379	26.51204	33.70086
01/06/2073	-28.1781	-22.6243	-12.0309	1.039694	14.48001	26.59078	33.75974
01/06/2074	-28.225	-22.6496	-12.0441	1.058775	14.53673	26.65891	33.80824
01/06/2075	-28.2663	-22.6721	-12.0586	1.071114	14.58369	26.71752	33.84866
01/06/2076	-28.3032	-22.6931	-12.0757	1.075576	14.62084	26.7679	33.88344
01/06/2077	-28.3367	-22.7138	-12.0968	1.071184	14.64836	26.81159	33.91517
01/06/2078	-28.3679	-22.7354	-12.1229	1.05717	14.66667	26.85031	33.94653
01/06/2079	-28.3978	-22.7589	-12.155	1.033019	14.67644	26.88597	33.98027
01/06/2080	-28.4272	-22.785	-12.1936	0.998493	14.67857	26.92061	34.01915
01/06/2081	-28.4569	-22.8144	-12.2392	0.953643	14.67417	26.95638	34.06586
01/06/2082	-28.4876	-22.8474	-12.2918	0.898816	14.66454	26.99546	34.12302
01/06/2083	-28.5197	-22.8842	-12.3514	0.834638	14.65112	27.03998	34.19304
01/06/2084	-28.5535	-22.9247	-12.4174	0.76199	14.63543	27.092	34.27805
01/06/2085	-28.5893	-22.9687	-12.4891	0.681976	14.61907	27.15336	34.37986
01/06/2086	-28.6272	-23.0157	-12.5657	0.595881	14.6036	27.22567	34.49986
01/06/2087	-28.6671	-23.0653	-12.6462	0.505123	14.59053	27.31021	34.6389
01/06/2088	-28.7088	-23.1169	-12.7294	0.411202	14.58126	27.40789	34.79734
01/06/2089	-28.7522	-23.1697	-12.8142	0.315648	14.57702	27.51918	34.97491
01/06/2090	-28.7969	-23.2231	-12.8994	0.219963	14.57883	27.6441	35.17076
01/06/2091	-28.8427	-23.2765	-12.9839	0.125569	14.58744	27.78221	35.38346
01/06/2092	-28.8892	-23.3291	-13.0668	0.033754	14.60333	27.93257	35.61103
01/06/2093	-28.936	-23.3805	-13.1471	-0.05438	14.62665	28.09385	35.85103
01/06/2094	-28.9828	-23.4302	-13.2242	-0.13794	14.65723	28.26433	36.10064
01/06/2095	-29.0293	-23.4779	-13.2975	-0.21633	14.69458	28.44196	36.35679
01/06/2096	-29.0753	-23.5234	-13.3669	-0.28921	14.73792	28.62448	36.61628
01/06/2097	-29.1206	-23.5667	-13.4322	-0.35653	14.7862	28.80953	36.87593
01/06/2098	-29.165	-23.6078	-13.4937	-0.41851	14.83816	28.9947	37.1327
01/06/2099	-29.2085	-23.6468	-13.5515	-0.47559	14.89247	29.17773	37.38381

Appendix 15.7

Maximum Summer Air Temperature

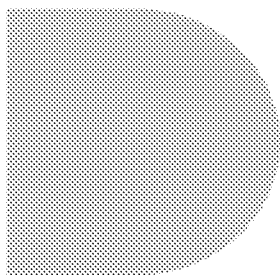
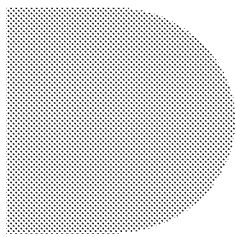


header lengt	16						
Area	487500.0 112500.0						
Baseline	1981-2000						
Data Source	Land probabilistic projections						
Data Type	cdf						
Scenario	RCP 8.5						
Show Labels	TRUE						
Software Ver	WPS-2.8.0-DP-2.8.0-CV-1.0.10						
Spatial Repr	25km grid						
Temporal Av	Seasonal						
Time Period	June July August						
Time Slice Ty	1-year time slices						
Variable	Maximum air temperature anomaly at 1.5m (°C)						
Year Maximu	2100						
Year Minimu	2023						
Date	Maximum	Maximum	Maximum	Maximum	Maximum	Maximum	Maximum air temperature anomaly at 1.5m (°C)(95th Percentile)
01/07/2023	-2.0119	-1.28689	-0.07159	1.301499	2.710068	4.001133	4.786974
01/07/2024	-1.99048	-1.26191	-0.04075	1.339856	2.755118	4.053894	4.844475
01/07/2025	-1.97008	-1.23767	-0.01014	1.378487	2.800994	4.108152	4.903917
01/07/2026	-1.95053	-1.214	0.020419	1.4176	2.847937	4.164158	4.965547
01/07/2027	-1.93163	-1.19072	0.051128	1.457405	2.896186	4.222147	5.029585
01/07/2028	-1.91318	-1.16762	0.082182	1.498105	2.945971	4.282332	5.096222
01/07/2029	-1.89499	-1.14452	0.113772	1.539892	2.997498	4.344889	5.16561
01/07/2030	-1.87685	-1.12124	0.146078	1.582938	3.050947	4.409958	5.237856
01/07/2031	-1.85858	-1.09758	0.179265	1.627393	3.106465	4.477634	5.313022
01/07/2032	-1.83999	-1.07338	0.21348	1.673377	3.164161	4.547967	5.39112
01/07/2033	-1.82091	-1.04847	0.248852	1.720986	3.224104	4.620958	5.47212
01/07/2034	-1.80117	-1.02271	0.28549	1.770284	3.286326	4.696569	5.555945
01/07/2035	-1.78063	-0.99596	0.323486	1.821312	3.350822	4.774722	5.642488
01/07/2036	-1.75914	-0.96809	0.362914	1.874087	3.417554	4.855305	5.731607
01/07/2037	-1.73657	-0.93899	0.403837	1.928607	3.486459	4.938185	5.823145
01/07/2038	-1.71279	-0.90854	0.446308	1.984857	3.557452	5.023213	5.916933
01/07/2039	-1.68767	-0.87665	0.490369	2.042814	3.630437	5.110235	6.0128
01/07/2040	-1.6611	-0.84322	0.536061	2.102452	3.705312	5.199102	6.110587
01/07/2041	-1.63297	-0.80815	0.583418	2.163744	3.781978	5.289679	6.210152
01/07/2042	-1.60319	-0.77137	0.632474	2.22667	3.860343	5.38185	6.311378
01/07/2043	-1.57167	-0.73281	0.683262	2.291213	3.940329	5.475531	6.414182
01/07/2044	-1.53832	-0.6924	0.735808	2.357365	4.021875	5.570664	6.518511
01/07/2045	-1.50309	-0.6501	0.790136	2.425125	4.104936	5.667225	6.624351
01/07/2046	-1.46594	-0.60588	0.846261	2.494497	4.189488	5.765224	6.731714
01/07/2047	-1.42685	-0.55973	0.904186	2.565486	4.275519	5.864691	6.840645
01/07/2048	-1.38584	-0.51166	0.963899	2.638095	4.363035	5.965684	6.951207
01/07/2049	-1.34294	-0.46172	1.025372	2.712324	4.452047	6.068271	7.063475
01/07/2050	-1.29823	-0.40998	1.088555	2.788162	4.542573	6.172528	7.17753
01/07/2051	-1.25181	-0.35654	1.153375	2.865585	4.634627	6.278531	7.293446
01/07/2052	-1.20381	-0.30154	1.219737	2.944556	4.728223	6.386342	7.411284
01/07/2053	-1.15441	-0.24511	1.287521	3.02502	4.823361	6.49601	7.531087
01/07/2054	-1.10379	-0.18746	1.356589	3.106907	4.920031	6.607561	7.652871
01/07/2055	-1.05217	-0.12876	1.426787	3.190128	5.01821	6.720996	7.776625
01/07/2056	-0.99974	-0.06924	1.497948	3.274586	5.11786	6.836288	7.902309
01/07/2057	-0.94675	-0.00909	1.569902	3.360173	5.218929	6.953383	8.029858
01/07/2058	-0.8934	0.051485	1.642479	3.446774	5.321353	7.072203	8.159181
01/07/2059	-0.83991	0.112282	1.715519	3.534275	5.425058	7.192646	8.290167
01/07/2060	-0.78644	0.173132	1.788872	3.622567	5.52996	7.314591	8.422693
01/07/2061	-0.73316	0.233886	1.862412	3.711546	5.63597	7.437904	8.556623
01/07/2062	-0.68019	0.294427	1.936036	3.801122	5.742997	7.562441	8.691822
01/07/2063	-0.62762	0.354669	2.009667	3.891218	5.850948	7.688055	8.828153
01/07/2064	-0.57549	0.414567	2.083266	3.981775	5.959734	7.814599	8.965484
01/07/2065	-0.52382	0.474116	2.156822	4.072757	6.069273	7.941933	9.103697
01/07/2066	-0.47255	0.533349	2.230363	4.164149	6.17949	8.069932	9.242685
01/07/2067	-0.42161	0.592344	2.303954	4.25596	6.290323	8.198484	9.382361
01/07/2068	-0.37086	0.651217	2.377693	4.348221	6.401727	8.327502	9.522653
01/07/2069	-0.32016	0.710121	2.45171	4.44099	6.513672	8.456922	9.663506
01/07/2070	-0.26929	0.769239	2.526163	4.534345	6.626148	8.586703	9.804889
01/07/2071	-0.21805	0.828784	2.601236	4.628384	6.739165	8.716839	9.946784
01/07/2072	-0.16619	0.888985	2.677128	4.723223	6.852753	8.847346	10.08919
01/07/2073	-0.11346	0.950084	2.754051	4.818991	6.966963	8.97827	10.23212

01/07/2074	-0.05961	1.012327	2.83222	4.915825	7.081865	9.109677	10.3756
01/07/2075	-0.00441	1.075956	2.911849	5.01387	7.197546	9.241661	10.51965
01/07/2076	0.05237	1.1412	2.993141	5.113268	7.314107	9.374331	10.66432
01/07/2077	0.110932	1.208273	3.076287	5.214163	7.431664	9.507811	10.80966
01/07/2078	0.171447	1.277362	3.161459	5.316688	7.550341	9.642238	10.9557
01/07/2079	0.234057	1.348629	3.248804	5.420971	7.670273	9.777757	11.1025
01/07/2080	0.298866	1.422202	3.338446	5.527126	7.791597	9.914518	11.25014
01/07/2081	0.365947	1.498181	3.430481	5.635255	7.914454	10.05268	11.39867
01/07/2082	0.435336	1.57663	3.524979	5.745446	8.038982	10.19239	11.54818
01/07/2083	0.507039	1.657582	3.621979	5.85777	8.165319	10.3338	11.69876
01/07/2084	0.58103	1.741037	3.721496	5.972281	8.293589	10.47706	11.85053
01/07/2085	0.657259	1.826968	3.823516	6.089016	8.423909	10.62231	12.00361
01/07/2086	0.73565	1.915316	3.928	6.207994	8.556378	10.76966	12.15813
01/07/2087	0.816108	2.005996	4.034882	6.329208	8.691075	10.91923	12.31424
01/07/2088	0.898515	2.098894	4.14407	6.452634	8.828051	11.07109	12.47207
01/07/2089	0.982734	2.193872	4.255444	6.578218	8.967325	11.2253	12.63175
01/07/2090	1.06861	2.290764	4.368862	6.70588	9.108884	11.38188	12.79342
01/07/2091	1.155971	2.389381	4.484153	6.835514	9.252672	11.54081	12.95715
01/07/2092	1.244628	2.489508	4.601123	6.966983	9.398597	11.70203	13.12302
01/07/2093	1.334376	2.590914	4.719555	7.100123	9.546521	11.86544	13.29104
01/07/2094	1.424998	2.693348	4.839212	7.234738	9.696269	12.03088	13.4612
01/07/2095	1.516264	2.796545	4.959838	7.37061	9.847627	12.19816	13.63341
01/07/2096	1.607941	2.900234	5.081165	7.507497	10.00034	12.36704	13.80754
01/07/2097	1.699789	3.004139	5.202914	7.645134	10.15413	12.53725	13.98341
01/07/2098	1.791572	3.107988	5.324801	7.783235	10.30868	12.70847	14.16075
01/07/2099	1.883055	3.211507	5.446533	7.921496	10.46364	12.88033	14.33926

Appendix 15.8

Minimum Winter Temperature Anomaly



```

header length      16
Area               487500.0 112500.0
Baseline           1981-2000
Data Source        Land probabilistic projections
Data Type          cdf
Scenario           RCP 8.5
Show Labels        TRUE
Software Ver       WPS-2.8.0-DP-2.8.0-CV-1.0.10
Spatial Repre      25km grid
Temporal Aver      Seasonal
Time Period        December January February
Time Slice Type    1-year time slices
Variable           Minimum air temperature anomaly at 1.5m (Â°C)
Year Maximum       2100
Year Minimum       2023
Date              Minimum Minimum Minimum Minimum Minimum Minimum Minimum air temperature anomaly at 1.5m (Â°C)(95th Percentile
01/01/2023        -1.5072 -0.99745 -0.15492 0.793014 1.755179 2.633061 3.171797
01/01/2024        -1.49082 -0.97821 -0.13136 0.821083 1.789037 2.671196 3.213989
01/01/2025        -1.47386 -0.95852 -0.10753 0.849347 1.823137 2.709804 3.256695
01/01/2026        -1.45629 -0.93836 -0.08337 0.877882 1.857544 2.748961 3.299971
01/01/2027        -1.43805 -0.91767 -0.05883 0.906773 1.892325 2.788753 3.343886
01/01/2028        -1.41912 -0.89643 -0.03386 0.936107 1.927558 2.829264 3.388516
01/01/2029        -1.39947 -0.87459 -0.00839 0.965976 1.963323 2.870583 3.433944
01/01/2030        -1.37909 -0.85213 0.017624 0.996468 1.999698 2.912795 3.480257
01/01/2031        -1.35795 -0.82901 0.044232 1.027665 2.036762 2.955984 3.527544
01/01/2032        -1.33607 -0.80523 0.071479 1.059642 2.074589 3.000224 3.575895
01/01/2033        -1.31346 -0.78079 0.099396 1.092463 2.113242 3.045585 3.625397
01/01/2034        -1.29016 -0.75568 0.128007 1.126176 2.15278 3.092121 3.676128
01/01/2035        -1.26619 -0.72993 0.157323 1.160814 2.193244 3.139877 3.72816
01/01/2036        -1.24163 -0.70357 0.187342 1.196393 2.234666 3.188882 3.78155
01/01/2037        -1.21653 -0.67664 0.218049 1.232911 2.277061 3.23915 3.836344
01/01/2038        -1.19097 -0.64919 0.249418 1.270347 2.32043 3.29068 3.89257
01/01/2039        -1.16504 -0.62129 0.281409 1.308664 2.364761 3.343456 3.950242
01/01/2040        -1.13882 -0.59299 0.313976 1.347811 2.410028 3.397448 4.009354
01/01/2041        -1.1124 -0.56439 0.347065 1.387724 2.456194 3.452616 4.069889
01/01/2042        -1.08587 -0.53554 0.380617 1.428332 2.503215 3.508909 4.131811
01/01/2043        -1.05931 -0.50652 0.414572 1.469555 2.551038 3.566268 4.195073
01/01/2044        -1.0328 -0.4774 0.448871 1.511313 2.599608 3.624631 4.259616
01/01/2045        -1.0064 -0.44825 0.483458 1.553527 2.648867 3.683931 4.325373
01/01/2046        -0.98016 -0.4191 0.518282 1.596119 2.698758 3.744104 4.392267
01/01/2047        -0.95412 -0.39002 0.553299 1.639017 2.749227 3.805086 4.460221
01/01/2048        -0.92831 -0.36104 0.58847 1.682157 2.800225 3.866815 4.529155
01/01/2049        -0.90274 -0.33217 0.623765 1.725482 2.851706 3.929237 4.59899
01/01/2050        -0.87743 -0.30345 0.659158 1.768946 2.903633 3.992304 4.669652
01/01/2051        -0.85237 -0.27488 0.694629 1.812507 2.955974 4.055974 4.741071
01/01/2052        -0.82755 -0.24646 0.730164 1.856135 3.008706 4.120212 4.81319
01/01/2053        -0.80296 -0.21821 0.765747 1.899808 3.06181 4.184995 4.885961
01/01/2054        -0.7786 -0.19011 0.801367 1.943507 3.115278 4.250307 4.959349
01/01/2055        -0.75445 -0.16216 0.837012 1.987224 3.169105 4.31614 5.033332
01/01/2056        -0.73051 -0.13437 0.872666 2.030953 3.223295 4.382496 5.107904
01/01/2057        -0.70677 -0.10674 0.908315 2.074695 3.277857 4.449386 5.183075
01/01/2058        -0.68325 -0.07927 0.94394 2.118455 3.332808 4.51683 5.258868
01/01/2059        -0.65996 -0.05197 0.979523 2.162242 3.388168 4.584858 5.335322
01/01/2060        -0.63691 -0.02486 1.015043 2.206069 3.443963 4.653504 5.412489
01/01/2061        -0.61414 0.002056 1.05048 2.249956 3.500227 4.722816 5.490429
01/01/2062        -0.59167 0.028759 1.085815 2.293928 3.556994 4.79284 5.569214
01/01/2063        -0.56953 0.055233 1.121035 2.338014 3.614306 4.863633 5.648917
01/01/2064        -0.54775 0.081468 1.156131 2.382249 3.672205 4.935249 5.729613
01/01/2065        -0.52636 0.107457 1.191101 2.426678 3.730737 5.007744 5.81137
01/01/2066        -0.50537 0.133199 1.225954 2.471347 3.789946 5.08117 5.894251
01/01/2067        -0.48479 0.158705 1.26071 2.516313 3.849878 5.15557 5.978301
01/01/2068        -0.46461 0.183991 1.295399 2.561636 3.910574 5.230979 6.063551
01/01/2069        -0.44482 0.20909 1.330066 2.607383 3.972072 5.307422 6.150012
01/01/2070        -0.42539 0.234044 1.364766 2.653626 4.034406 5.384907 6.23767
01/01/2071        -0.40626 0.258907 1.399567 2.700438 4.097605 5.463431 6.326493
01/01/2072        -0.38737 0.283744 1.434548 2.747897 4.16169 5.542977 6.416427
01/01/2073        -0.36865 0.308631 1.469796 2.79608 4.226679 5.623513 6.507398
01/01/2074        -0.35002 0.333651 1.505404 2.845067 4.292583 5.704998 6.599319

```

01/01/2075	-0.33138	0.358894	1.541471	2.894932	4.359408	5.787382	6.692092
01/01/2076	-0.31262	0.384456	1.578097	2.945749	4.427158	5.870608	6.785615
01/01/2077	-0.29364	0.410431	1.615382	2.997587	4.495832	5.954621	6.879786
01/01/2078	-0.27435	0.436915	1.653422	3.050506	4.565428	6.039363	6.974512
01/01/2079	-0.25463	0.463998	1.692305	3.10456	4.635943	6.124785	7.069709
01/01/2080	-0.23439	0.491763	1.73211	3.159793	4.707374	6.210841	7.165313
01/01/2081	-0.21355	0.520284	1.772903	3.216238	4.779717	6.2975	7.261279
01/01/2082	-0.19204	0.549623	1.814735	3.273912	4.852969	6.384743	7.357589
01/01/2083	-0.16979	0.579826	1.857643	3.332824	4.927128	6.472568	7.45425
01/01/2084	-0.14678	0.610924	1.901643	3.392964	5.002194	6.560983	7.551296
01/01/2085	-0.12298	0.642931	1.946733	3.454311	5.078165	6.650016	7.648785
01/01/2086	-0.09838	0.675842	1.992893	3.516827	5.155041	6.739709	7.7468
01/01/2087	-0.073	0.709636	2.040085	3.580463	5.23282	6.830112	7.845439
01/01/2088	-0.04689	0.744273	2.088253	3.645156	5.311498	6.921286	7.944815
01/01/2089	-0.02008	0.779699	2.137328	3.710835	5.39107	7.013297	8.045047
01/01/2090	0.007354	0.815847	2.187226	3.777418	5.471526	7.10621	8.146252
01/01/2091	0.03534	0.852635	2.237855	3.844817	5.55285	7.200088	8.248542
01/01/2092	0.063792	0.889976	2.289115	3.912942	5.635024	7.294984	8.352011
01/01/2093	0.092621	0.927775	2.340905	3.981695	5.71802	7.390936	8.456737
01/01/2094	0.121735	0.965935	2.393117	4.050983	5.801801	7.487967	8.562764
01/01/2095	0.151043	1.004357	2.44565	4.120709	5.886322	7.586073	8.670111
01/01/2096	0.180455	1.042944	2.4984	4.190774	5.97152	7.685223	8.778751
01/01/2097	0.209886	1.0816	2.551268	4.261081	6.057319	7.785353	8.888621
01/01/2098	0.239254	1.120232	2.604153	4.331523	6.143621	7.886362	8.999605
01/01/2099	0.268485	1.15875	2.656956	4.40199	6.230304	7.988106	9.111537

)

Appendix 15.9

Summer Precipitation Rate Anomaly

B

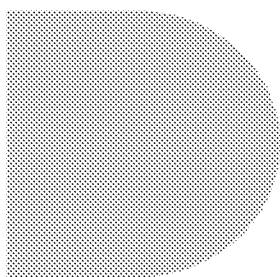
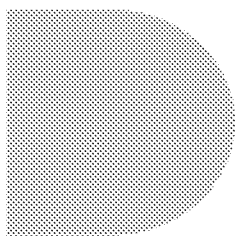
B

header length	16							
Area	487500.0 112500.0							
Baseline	1981-2000							
Data Source	Land probabilistic projections							
Data Type	cdf							
Scenario	RCP 8.5							
Show Labels	TRUE							
Software Versio	WPS-2.8.0-DP-2.8.0-CV-1.0.10							
Spatial Represe	25km grid							
Temporal Avera	Seasonal							
Time Period	June July August							
Time Slice Type	1-year time slices							
Variable	Precipitation rate anomaly (%)							
Year Maximum	2100							
Year Minimum	2023							
Date	Precipitatio	Precipitatio	Precipitatio	Precipitatio	Precipitatio	Precipitatio	Precipitation rate anomaly (%)	(95th Percentile)
16/07/2023	-65.9482	-55.5039	-36.1838	-9.13615	22.36585	51.28949	68.69981	
16/07/2024	-66.4972	-56.0294	-36.6725	-9.58976	22.03249	51.12498	68.62615	
16/07/2025	-67.0624	-56.5786	-37.1813	-10.0578	21.68069	50.96204	68.57869	
16/07/2026	-67.6402	-57.1487	-37.7089	-10.5408	21.30963	50.79805	68.55444	
16/07/2027	-68.2267	-57.7362	-38.2534	-11.039	20.91857	50.63018	68.54976	
16/07/2028	-68.8174	-58.3369	-38.8126	-11.5524	20.50697	50.45554	68.56049	
16/07/2029	-69.4075	-58.9463	-39.3839	-12.0808	20.07447	50.27127	68.58215	
16/07/2030	-69.9919	-59.5595	-39.9643	-12.6235	19.621	50.0747	68.61005	
16/07/2031	-70.5655	-60.1714	-40.5505	-13.1796	19.14681	49.86344	68.63953	
16/07/2032	-71.1234	-60.7768	-41.139	-13.7477	18.65247	49.63551	68.66611	
16/07/2033	-71.6607	-61.3706	-41.7263	-14.3262	18.1389	49.38942	68.68571	
16/07/2034	-72.1732	-61.9482	-42.3089	-14.9132	17.60736	49.12425	68.69476	
16/07/2035	-72.6573	-62.5054	-42.8835	-15.5066	17.05939	48.8397	68.69034	
16/07/2036	-73.1101	-63.0386	-43.4473	-16.1042	16.49683	48.53608	68.67024	
16/07/2037	-73.5294	-63.545	-43.9979	-16.704	15.92172	48.21433	68.633	
16/07/2038	-73.914	-64.0226	-44.5333	-17.3038	15.33629	47.87594	68.57791	
16/07/2039	-74.2636	-64.4703	-45.0523	-17.9018	14.74285	47.52286	68.50486	
16/07/2040	-74.5789	-64.8879	-45.5545	-18.4963	14.14372	47.15737	68.41429	
16/07/2041	-74.8611	-65.2761	-46.0397	-19.086	13.54122	46.78196	68.30703	
16/07/2042	-75.1126	-65.6364	-46.5086	-19.6699	12.93752	46.39917	68.18409	
16/07/2043	-75.3359	-65.9708	-46.9624	-20.2472	12.33464	46.01143	68.04652	
16/07/2044	-75.5344	-66.2819	-47.4027	-20.8175	11.7344	45.62091	67.89526	
16/07/2045	-75.7115	-66.5729	-47.8313	-21.3807	11.13835	45.22947	67.73096	
16/07/2046	-75.8711	-66.8468	-48.2504	-21.9369	10.54778	44.83845	67.55391	
16/07/2047	-76.0169	-67.1071	-48.662	-22.4863	9.963739	44.44873	67.364	
16/07/2048	-76.1526	-67.3571	-49.0683	-23.0291	9.387005	44.06064	67.16063	
16/07/2049	-76.2817	-67.5998	-49.4712	-23.5659	8.818138	43.67402	66.94282	
16/07/2050	-76.4075	-67.8382	-49.8724	-24.0968	8.257504	43.28819	66.70921	
16/07/2051	-76.5329	-68.0749	-50.2734	-24.6223	7.705299	42.90213	66.4582	
16/07/2052	-76.6606	-68.3122	-50.6753	-25.1425	7.161581	42.51444	66.188	
16/07/2053	-76.7928	-68.5519	-51.0791	-25.6576	6.626271	42.12349	65.89674	
16/07/2054	-76.9315	-68.7956	-51.4851	-26.1677	6.099157	41.72748	65.58262	
16/07/2055	-77.0784	-69.0448	-51.8939	-26.6728	5.57987	41.32449	65.24389	
16/07/2056	-77.2351	-69.3004	-52.3057	-27.173	5.067864	40.91252	64.87897	
16/07/2057	-77.4026	-69.5634	-52.7205	-27.6685	4.562378	40.48957	64.48646	
16/07/2058	-77.5821	-69.8346	-53.1385	-28.1598	4.062412	40.05366	64.06516	
16/07/2059	-77.7745	-70.1146	-53.5599	-28.6473	3.566701	39.60281	63.61411	
16/07/2060	-77.9807	-70.4042	-53.9851	-29.1321	3.073707	39.13516	63.13254	
16/07/2061	-78.2013	-70.7041	-54.4146	-29.6153	2.581626	38.64893	62.6199	
16/07/2062	-78.4371	-71.0149	-54.849	-30.0983	2.088401	38.14246	62.07586	
16/07/2063	-78.6884	-71.3374	-55.2893	-30.5829	1.591771	37.6143	61.5003	
16/07/2064	-78.9557	-71.6722	-55.7367	-31.0712	1.089318	37.06315	60.8933	
16/07/2065	-79.2393	-72.0201	-56.1921	-31.5653	0.578536	36.48798	60.25514	
16/07/2066	-79.5393	-72.3817	-56.6571	-32.0677	0.056912	35.888	59.58632	
16/07/2067	-79.8557	-72.7575	-57.1329	-32.5808	-0.47799	35.26273	58.88755	
16/07/2068	-80.1881	-73.148	-57.6207	-33.1069	-1.02844	34.61202	58.15974	
16/07/2069	-80.5362	-73.5533	-58.1218	-33.6483	-1.59647	33.93605	57.4041	
16/07/2070	-80.8993	-73.9734	-58.6371	-34.207	-2.18376	33.23539	56.62207	
16/07/2071	-81.2764	-74.4082	-59.1674	-34.7849	-2.79163	32.51099	55.8154	

16/07/2072	-81.6666	-74.8572	-59.713	-35.3832	-3.42097	31.7642	54.9862
16/07/2073	-82.0685	-75.3196	-60.2742	-36.0031	-4.07221	30.99675	54.13694
16/07/2074	-82.4808	-75.7945	-60.8507	-36.6453	-4.74531	30.21078	53.2705
16/07/2075	-82.902	-76.2807	-61.4419	-37.3099	-5.43981	29.40876	52.39016
16/07/2076	-83.3305	-76.7768	-62.0472	-37.9967	-6.15483	28.5935	51.4996
16/07/2077	-83.7649	-77.2815	-62.6653	-38.7053	-6.88917	27.76809	50.60288
16/07/2078	-84.2035	-77.7931	-63.2951	-39.4349	-7.64131	26.93578	49.70437
16/07/2079	-84.645	-78.3101	-63.9353	-40.1845	-8.40957	26.09997	48.80864
16/07/2080	-85.0882	-78.831	-64.5843	-40.9529	-9.19213	25.26407	47.92036
16/07/2081	-85.532	-79.3545	-65.241	-41.7388	-9.98713	24.43141	47.04414
16/07/2082	-85.9757	-79.8793	-65.9039	-42.5409	-10.7927	23.60512	46.18435
16/07/2083	-86.4187	-80.4046	-66.5722	-43.358	-11.6072	22.78801	45.34496
16/07/2084	-86.8608	-80.9297	-67.2448	-44.1889	-12.4291	21.98247	44.52931
16/07/2085	-87.302	-81.4542	-67.9212	-45.0324	-13.2568	21.19034	43.73998
16/07/2086	-87.7426	-81.9781	-68.601	-45.8876	-14.0894	20.41284	42.97857
16/07/2087	-88.1832	-82.5015	-69.2841	-46.7535	-14.9257	19.65051	42.24562
16/07/2088	-88.6245	-83.025	-69.9706	-47.6293	-15.7653	18.90311	41.5405
16/07/2089	-89.0673	-83.5493	-70.6607	-48.5142	-16.6076	18.16966	40.8614
16/07/2090	-89.5126	-84.0752	-71.355	-49.4076	-17.4525	17.44843	40.20532
16/07/2091	-89.9615	-84.6037	-72.0539	-50.3087	-18.2999	16.73701	39.5682
16/07/2092	-90.4149	-85.136	-72.7581	-51.217	-19.1501	16.03241	38.94507
16/07/2093	-90.8736	-85.6729	-73.4682	-52.1318	-20.0035	15.33117	38.33026
16/07/2094	-91.3385	-86.2155	-74.1846	-53.0526	-20.8607	14.62956	37.71767
16/07/2095	-91.8099	-86.7646	-74.9079	-53.9788	-21.7221	13.92377	37.10111
16/07/2096	-92.2882	-87.3206	-75.6382	-54.9098	-22.5884	13.21014	36.47461
16/07/2097	-92.7734	-87.884	-76.3756	-55.8449	-23.46	12.48538	35.83276
16/07/2098	-93.2652	-88.4546	-77.1197	-56.7834	-24.3373	11.7468	35.17108
16/07/2099	-93.763	-89.0321	-77.87	-57.7242	-25.2201	10.99254	34.48623

Appendix 15.10

Winter Precipitation Anomaly



```

header lengt      16
Area      487500.0 112500.0
Baseline    1981-2000
Data Source Land probabilistic projections
Data Type   cdf
Scenario    RCP 8.5
Show Labels  TRUE
Software Ver WPS-2.8.0-DP-2.8.0-CV-1.0.10
Spatial Repr 25km grid
Temporal Av Seasonal
Time Period December January February
Time Slice Ty 1-year time slices
Variable     Precipitation rate anomaly (%)
Year Maximu   2100
Year Minimu   2023
Date          Precipitatio Precipitatio Precipitatio Precipitatio Precipitatio Precipitatio Precipitation rate anomaly (%) (95th Percentile)
16/01/2023   -37.3376    -27.941    -10.9021    8.735252    28.93301    48.90028    62.15833
16/01/2024   -37.3315    -27.8624    -10.7105    8.974491    29.12199    49.04434    62.35341
16/01/2025   -37.3223    -27.7806    -10.5238    9.203928    29.29761    49.17435    62.53506
16/01/2026   -37.311     -27.6961    -10.3421    9.423997    29.46205    49.29421    62.70743
16/01/2027   -37.2986    -27.6095    -10.1652    9.635288    29.61757    49.40785    62.87474
16/01/2028   -37.2866    -27.5215    -9.99297    9.838536    29.76642    49.5192     63.04126
16/01/2029   -37.2763    -27.4326    -9.82493    10.03462    29.91089    49.63215    63.21122
16/01/2030   -37.2691    -27.3436    -9.66069    10.22453    30.05332    49.75054    63.38885
16/01/2031   -37.2661    -27.255     -9.49974    10.4094     30.19604    49.87814    63.57834
16/01/2032   -37.2684    -27.1673    -9.34154    10.59044    30.34144    50.0187     63.78379
16/01/2033   -37.2768    -27.0808    -9.18554    10.76898    30.49195    50.1759     64.0092
16/01/2034   -37.2917    -26.9957    -9.03119    10.94635    30.65003    50.35334    64.25842
16/01/2035   -37.3132    -26.9122    -8.87799    11.12397    30.81818    50.55456    64.53505
16/01/2036   -37.3411    -26.8303    -8.72555    11.30317    30.9989     50.78292    64.84244
16/01/2037   -37.3748     -26.75     -8.57355    11.48527    31.19464    51.04162    65.18353
16/01/2038   -37.4138    -26.6713    -8.42186    11.67143    31.40776    51.33359    65.56084
16/01/2039   -37.4568     -26.594     -8.27048     11.8627     31.64049    51.66144    65.97636
16/01/2040   -37.5029    -26.5183    -8.11957    12.05991    31.89486     52.0274     66.43153
16/01/2041   -37.5509     -26.444     -7.96947    12.26369    32.17267    52.43327    66.92724
16/01/2042   -37.5995    -26.3713    -7.82063    12.47447    32.47545    52.88038    67.46379
16/01/2043   -37.6475    -26.3003    -7.67361    12.69246    32.80444    53.36956    68.04094
16/01/2044   -37.6939    -26.2314    -7.52904    12.91768    33.16058    53.90115    68.65797
16/01/2045   -37.7378    -26.1648    -7.38756    13.15001     33.5445     54.47501    69.31374
16/01/2046   -37.7784    -26.1009    -7.24981    13.38921    33.95655    55.09058    70.00679
16/01/2047   -37.815     -26.0401    -7.11635    13.63499    34.39683    55.74682    70.73537
16/01/2048   -37.8473     -25.983     -6.98764    13.88704    34.86516    56.44235    71.49753
16/01/2049   -37.8748    -25.9298     -6.864     14.14506    35.36115    57.17543     72.2912
16/01/2050   -37.8974    -25.8811    -6.74559    14.40887    35.88422     57.944     73.11418
16/01/2051   -37.915     -25.8372    -6.63239    14.67835    36.43358    58.74571    73.96421
16/01/2052   -37.9275    -25.7982    -6.52414    14.95357    37.00829    59.57795    74.83894
16/01/2053   -37.9349    -25.7641    -6.42035    15.23474    37.60725    60.43789    75.73591
16/01/2054   -37.937     -25.7348    -6.32029    15.52225    38.22923     61.3225     76.6526
16/01/2055   -37.9336     -25.71     -6.22298    15.81668    38.87284    62.22853    77.58636
16/01/2056   -37.9243    -25.6888    -6.12719    16.11875    39.53659    63.15263    78.53441
16/01/2057   -37.9086    -25.6703    -6.03145    16.42936    40.21886     64.0913     79.49388
16/01/2058   -37.8859    -25.6534    -5.93408    16.74948    40.91793    65.04101    80.46182
16/01/2059   -37.8555    -25.6366    -5.83323    17.08017    41.63196    65.99819    81.43522
16/01/2060   -37.8166    -25.6181    -5.72692    17.42249    42.35903    66.95935     82.4111
16/01/2061   -37.7682    -25.5963    -5.61311    17.77744    43.09713    67.92107    83.38655
16/01/2062   -37.7097    -25.5692    -5.48976    18.14593    43.84417    68.88012    84.35886
16/01/2063   -37.6404    -25.5349    -5.35491    18.52866    44.59797    69.83349    85.32552
16/01/2064   -37.5598    -25.4917    -5.20677    18.92607    45.35629    70.77844    86.28436
16/01/2065   -37.4678    -25.4379    -5.04378    19.33831    46.11682    71.71253    87.23357
16/01/2066   -37.3645    -25.3724    -4.86474    19.76516     46.8772     72.63365    88.17175
16/01/2067   -37.2504    -25.294     -4.66878     20.206     47.63503    73.54001    89.09791
16/01/2068   -37.1266    -25.2023    -4.45549    20.65979    48.38788    74.43015    90.01148
16/01/2069   -36.9942    -25.097     -4.22494     21.1251     49.13334    75.30291    90.91229

```

16/01/2070	-36.855	-24.9784	-3.97765	21.60009	49.869	76.15743	91.80048
16/01/2071	-36.7107	-24.8473	-3.71463	22.08259	50.59256	76.99308	92.67649
16/01/2072	-36.5636	-24.7045	-3.43734	22.57011	51.3018	77.80946	93.54099
16/01/2073	-36.4159	-24.5517	-3.14762	23.05996	51.99465	78.60635	94.39482
16/01/2074	-36.2698	-24.3903	-2.84768	23.54931	52.66926	79.38374	95.23893
16/01/2075	-36.1276	-24.2223	-2.53996	24.0353	53.324	80.14175	96.07437
16/01/2076	-35.9913	-24.0497	-2.22709	24.51511	53.95756	80.88068	96.90225
16/01/2077	-35.8629	-23.8744	-1.91175	24.98612	54.56895	81.601	97.7237
16/01/2078	-35.7439	-23.6984	-1.59662	25.44593	55.15757	82.30337	98.53991
16/01/2079	-35.6355	-23.5236	-1.28422	25.89253	55.72322	82.98863	99.35208
16/01/2080	-35.5386	-23.3515	-0.97687	26.32431	56.26616	83.65788	100.1615
16/01/2081	-35.4537	-23.1837	-0.67658	26.74016	56.78707	84.31241	100.9693
16/01/2082	-35.3809	-23.0212	-0.38498	27.1395	57.28713	84.95377	101.777
16/01/2083	-35.3198	-22.8649	-0.10326	27.52232	57.76794	85.58379	102.5858
16/01/2084	-35.2698	-22.7153	0.167816	27.88914	58.23153	86.20454	103.3973
16/01/2085	-35.2299	-22.5726	0.427996	28.24106	58.68036	86.81829	104.2129
16/01/2086	-35.1988	-22.4366	0.677485	28.57966	59.11721	87.42758	105.0341
16/01/2087	-35.1752	-22.3071	0.916944	28.90701	59.54515	88.03507	105.8624
16/01/2088	-35.1575	-22.1834	1.147452	29.22554	59.96749	88.64356	106.6995
16/01/2089	-35.144	-22.0647	1.370454	29.53797	60.38763	89.25587	107.5466
16/01/2090	-35.133	-21.9499	1.587701	29.84723	60.80903	89.87478	108.4052
16/01/2091	-35.123	-21.838	1.801175	30.15634	61.23501	90.50294	109.2766
16/01/2092	-35.1123	-21.7276	2.013013	30.46827	61.66875	91.14276	110.1616
16/01/2093	-35.0995	-21.6175	2.22541	30.78588	62.11309	91.79633	111.0612
16/01/2094	-35.0835	-21.5064	2.440519	31.11172	62.57045	92.46532	111.9757
16/01/2095	-35.0631	-21.3932	2.660355	31.44798	63.04275	93.15091	112.9053
16/01/2096	-35.0376	-21.2766	2.886685	31.79639	63.5313	93.85368	113.8497
16/01/2097	-35.0063	-21.1558	3.120938	32.15809	64.03677	94.57359	114.8079
16/01/2098	-34.9689	-21.0301	3.364124	32.53361	64.55907	95.30991	115.7789
16/01/2099	-34.9255	-20.8991	3.616774	32.92284	65.09746	96.06126	116.7607

16. Human Health Impact Assessment

No Appendices for this Chapter

BB



LUKEN  BECK

Management | Development | Planning

[W: lukenbeck.com](http://www.lukenbeck.com)

30 Carlton Crescent
Polygon
Southampton
Hampshire
SO15 2EW