



Appendix 19-P3-1: Part 3 Predicted Construction Noise Levels

Table of Contents

Appendix 19-P3-1: Part 3 Predicted Construction Noise Levels	1
1. Introduction	1
2. Predicted Construction Noise Levels	1

Tables

Table 1: Predicted Noise Levels from Construction of Refill Pipeline and Structures for Filling the Drayton Reservoir	1
Table 2: Predicted Noise Levels from Construction of Refill Pipeline and Structures for Filling the Daventry Reservoir	1
Table 3: Predicted Noise Levels from Construction of Drayton Discharge (Siphon) Modifications	2
Table 4: Predicted Noise Levels from Construction of Daventry Outlet and Discharge Channel	3
Table 5: Predicted Noise Levels from Construction of Weirs at Daventry Reservoir	3

Appendix 19-P3-1: Part 3 Predicted Construction Noise Levels

1. Introduction

- 1.1.1 This appendix lists the predicted construction noise levels for Part 3 of the Proposed Development.

2. Predicted Construction Noise Levels

- 2.1.1 **Table 1** provides predicted noise levels from construction of the Refill Pipeline and Structures for Filling the Drayton Reservoir.
- 2.1.2 **Table 2** provides predicted noise levels from construction of the Refill Pipeline and Structures for Filling the Daventry Reservoir.
- 2.1.3 **Table 3** provides predicted noise levels from construction of the Drayton Discharge (Siphon) Modifications.
- 2.1.4 **Table 4** provides predicted noise levels from construction of the Daventry Outlet and Discharge Channel.
- 2.1.5 **Table 5** provides predicted noise levels from construction of the Weirs at Daventry Reservoir.

Table 1: Predicted Noise Levels from Construction of Refill Pipeline and Structures for Filling the Drayton Reservoir

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase 1	Phase 2	Weir	Weir_2		
DRO_REF_01	Residential	456532	264551	A	65	64	27	18	24	64	Minor
DRO_REF_02	Residential	456510	264523	A	65	65	27	15	25	65	Minor
DRO_REF_03	Residential	456481	264500	A	65	67	27	2	28	67	Moderate
DRO_REF_04	Residential	456461	264481	A	65	67	27	N/A	25	67	Moderate
DRO_REF_05	Non-residential	456425	264426	A	65	58	33	N/A	29	58	Negligible
DRO_REF_06	Residential	456295	264682	A	65	66	N/A	N/A	32	66	Moderate
DRO_REF_07	Non-residential	456227	264595	A	65	58	N/A	N/A	30	58	Negligible
DRO_REF_08	Non-residential	456294	264363	A	65	53	22	N/A	28	53	Negligible
DRO_REF_09	Residential	456291	264750	A	65	59	N/A	N/A	34	59	Negligible
DRO_REF_10	Residential	456561	264511	A	65	58	28	20	27	58	Negligible
DRO_REF_11	Residential	456592	264535	A	65	59	28	22	30	59	Negligible
DRO_REF_12	Residential	456622	264549	A	65	58	28	22	29	58	Negligible
DRO_REF_13	Residential	456546	264484	A	65	59	27	19	24	59	Negligible
DRO_REF_14	Residential	456506	264449	A	65	61	27	16	29	61	Minor
Note - Explanations of each assessment scenario: a. Phase1: This scenario includes the construction of refill pipeline and structures at Drayton Reservoir, discharge modifications works at Drayton Reservoir, as well as the construction of refill pipeline and structure at Daventry Reservoir; b. Phase2 This scenario includes the construction of outlet and discharge channel at Daventry Reservoir; c. Weir: This scenario includes the construction of weir at Daventry Reservoir; and d. Weir_2: This scenario includes the construction of weir 2.											

Table 2: Predicted Noise Levels from Construction of Refill Pipeline and Structures for Filling the Daventry Reservoir

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DAV_REF_01	Residential	457399	263587	A	65	51	42	29	23	51	Negligible
DAV_REF_02	Residential	457375	263638	A	65	54	49	34	24	54	Negligible
DAV_REF_03	Residential	457365	263606	A	65	51	44	28	23	51	Negligible
DAV_REF_04	Residential	457356	263554	A	65	49	46	28	23	49	Negligible
DAV_REF_05	Non-residential	457414	263492	A	65	52	48	34	24	52	Negligible
DAV_REF_06	Residential	457372	263493	A	65	51	47	34	23	51	Negligible

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DAV_REF_07	Non-residential	457454	263486	A	65	57	49	35	24	57	Negligible
Note - Explanations of each assessment scenario: a. Phase1: This scenario includes the construction of refill pipeline and structures at Drayton Reservoir, discharge modifications works at Drayton Reservoir, as well as the construction of refill pipeline and structure at Daventry Reservoir; b. Phase2 This scenario includes the construction of outlet and discharge channel at Daventry Reservoir; c. Weir: This scenario includes the construction of weir at Daventry Reservoir; and d. Weir_2: This scenario includes the construction of weir 2.											

Table 3: Predicted Noise Levels from Construction of Drayton Discharge (Siphon) Modifications

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DRO_OUT_01	Residential	456837	265054	A	65	86	39	32	44	86	Major
DRO_OUT_02	Residential	456802	265042	A	65	76	38	32	45	76	Major
DRO_OUT_03	Residential	456762	265015	A	65	72	37	31	43	72	Major
DRO_OUT_04	Residential	456834	265087	A	65	74	40	33	44	74	Major
DRO_OUT_05	Residential	456912	265096	A	65	73	39	33	45	73	Major
DRO_OUT_06	Residential	456940	265104	A	65	70	30	22	30	70	Moderate
DRO_OUT_07	Residential	456827	265122	A	65	70	42	33	45	70	Moderate
DRO_OUT_08	Residential	456812	265100	A	65	61	41	33	43	61	Minor
DRO_OUT_09	Residential	456818	265085	A	65	65	40	27	36	65	Minor
DRO_OUT_10	Residential	456788	265086	A	65	58	40	29	40	58	Negligible
DRO_OUT_11	Residential	456785	265068	A	65	65	39	29	38	65	Minor
DRO_OUT_12	Residential	456765	265057	A	65	60	39	27	35	60	Negligible
DRO_OUT_13	Residential	457167	264901	A	65	59	31	23	32	59	Negligible
DRO_OUT_14	Residential	457202	264950	A	65	57	30	24	39	57	Negligible
DRO_OUT_15	Residential	457233	264966	A	65	58	30	24	36	58	Negligible
DRO_OUT_16	Residential	457102	264747	A	65	59	31	23	29	59	Negligible
Explanations of each assessment scenario: a. Phase1: This scenario includes the construction of refill pipeline and structures at Drayton Reservoir, discharge modifications works at Drayton Reservoir, as well as the construction of refill pipeline and structure at Daventry Reservoir; b. Phase2 This scenario includes the construction of outlet and discharge channel at Daventry Reservoir; c. Weir: This scenario includes the construction of weir at Daventry Reservoir; and d. Weir_2: This scenario includes the construction of weir 2											

Table 4: Predicted Noise Levels from Construction of Daventry Outlet and Discharge Channel

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase 1	Phase 2	Weir	Weir_2		
DAV_OUT_01	Residential	458045	264517	A	65	39	59	43	27	59	Negligible
DAV_OUT_02	Residential	458038	264502	A	65	40	59	43	27	59	Negligible
DAV_OUT_03	Residential	458026	264491	A	65	40	59	42	27	59	Negligible
DAV_OUT_04	Residential	458019	264480	A	65	41	60	37	30	60	Negligible
DAV_OUT_05	Residential	458002	264471	A	65	40	61	39	27	61	Minor
DAV_OUT_06	Residential	457988	264453	A	65	39	59	42	27	59	Negligible
DAV_OUT_07	Residential	457952	264451	A	65	42	59	41	30	59	Negligible
DAV_OUT_08	Residential	457939	264412	A	65	43	60	40	30	60	Negligible
DAV_OUT_09	Residential	457924	264396	A	65	43	48	41	32	48	Negligible
DAV_OUT_10	Residential	457906	264382	A	65	41	59	42	31	59	Negligible
DAV_OUT_11	Residential	457906	264369	A	65	40	57	42	31	57	Negligible
DAV_OUT_12	Residential	457896	264349	A	65	46	59	43	29	59	Negligible
DAV_OUT_13	Residential	457881	264333	A	65	48	59	41	27	59	Negligible
DAV_OUT_14	Residential	457858	264303	A	65	47	59	41	26	59	Negligible
DAV_OUT_15	Residential	457851	264289	A	65	47	59	42	26	59	Negligible
DAV_OUT_16	Residential	457839	264278	A	65	47	59	40	26	59	Negligible
DAV_OUT_17	Residential	457816	264265	A	65	48	59	40	26	59	Negligible
DAV_OUT_18	Residential	457793	264247	A	65	41	49	33	31	49	Negligible
DAV_OUT_19	Residential	458788	263886	C	75	39	53	42	27	53	Negligible
DAV_OUT_20	Residential	458772	263858	C	75	40	55	43	27	55	Negligible
DAV_OUT_21	Residential	458716	263828	C	75	40	57	41	27	57	Negligible
Note - Explanations of each assessment scenario: a. Phase1: This scenario includes the construction of refill pipeline and structures at Drayton Reservoir, discharge modifications works at Drayton Reservoir, as well as the construction of refill pipeline and structure at Daventry Reservoir; b. Phase2 This scenario includes the construction of outlet and discharge channel at Daventry Reservoir; c. Weir: This scenario includes the construction of weir at Daventry Reservoir; and d. Weir_2: This scenario includes the construction of weir 2.											

Table 5: Predicted Noise Levels from Construction of Weirs at Daventry Reservoir

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DAV_WEI_01	Residential	458414	264916	A	65	37	43	55	34	55	Negligible
DAV_WEI_02	Residential	458419	264895	A	65	36	48	55	38	55	Negligible
DAV_WEI_03	Residential	458416	264882	A	65	35	47	60	37	60	Negligible
DAV_WEI_04	Residential	458403	264857	A	65	35	55	57	34	57	Negligible

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DAV_WEI_05	Residential	458382	264856	A	65	37	55	60	35	60	Negligible
DAV_WEI_06	Residential	458354	264914	A	65	38	48	53	37	53	Negligible
DAV_WEI_07	Residential	458340	264892	A	65	38	44	49	41	49	Negligible
DAV_WEI_08	Residential	458354	264842	A	65	37	45	55	37	55	Negligible
DAV_WEI_09	Residential	458363	264800	A	65	37	51	52	37	52	Negligible
DAV_WEI_10	Residential	458356	264784	A	65	38	52	48	36	52	Negligible
DAV_WEI_11	Residential	458348	264772	A	65	40	52	52	38	52	Negligible
DAV_WEI_12	Residential	458341	264755	A	65	40	43	48	38	48	Negligible
DAV_WEI_13	Residential	458337	264741	A	65	39	46	48	37	48	Negligible
DAV_WEI_14	Residential	458327	264723	A	65	37	45	44	36	45	Negligible
DAV_WEI_15	Residential	458316	264705	A	65	38	40	45	35	45	Negligible
DAV_WEI_16	Residential	458310	264688	A	65	36	58	39	33	58	Negligible
DAV_WEI_17	Residential	458332	264804	A	65	37	46	46	38	46	Negligible
DAV_WEI_18	Residential	458316	264758	A	65	36	45	46	38	46	Negligible
DAV_WEI_19	Residential	458318	264784	A	65	36	52	46	37	52	Negligible
DAV_WEI_20	Residential	458303	264773	A	65	35	38	45	34	45	Negligible
DAV_WEI_21	Residential	458332	264871	A	65	37	40	51	38	51	Negligible
DAV_WEI_22	Residential	458361	264869	A	65	36	41	51	37	51	Negligible
DAV_WEI_23	Residential	458308	264921	A	65	39	47	51	38	51	Negligible
DAV_WEI_24	Residential	458326	264922	A	65	36	47	52	40	52	Negligible
DAV_WEI_25	Residential	458305	264895	A	65	36	46	48	37	48	Negligible
DAV_WEI_26	Residential	458301	264874	A	65	39	46	47	41	47	Negligible
DAV_WEI_27	Residential	458304	264838	A	65	37	52	52	37	52	Negligible
DAV_WEI_28	Residential	458303	264728	A	65	35	43	46	37	46	Negligible
DAV_WEI_29	Residential	458294	264760	A	65	34	40	46	35	46	Negligible
DAV_WEI_30	Residential	458282	264790	A	65	39	51	48	38	51	Negligible
DAV_WEI_31	Residential	458281	264824	A	65	36	42	44	35	44	Negligible
DAV_WEI_32	Residential	458286	264924	A	65	38	50	49	38	50	Negligible
DRO_WEI_01	Residential	457492	265002	A	65	52	32	28	46	52	Negligible
DRO_WEI_02	Residential	457540	264993	A	65	43	32	32	57	57	Negligible
DRO_WEI_03	Residential	457566	264990	A	65	43	32	32	56	56	Negligible
DRO_WEI_04	Residential	457596	264987	A	65	45	32	36	54	54	Negligible
DRO_WEI_05	Residential	457617	264981	A	65	46	33	36	56	56	Negligible
DRO_WEI_06	Residential	457635	264974	A	65	45	39	33	45	45	Negligible
DRO_WEI_07	Residential	457645	264996	A	65	45	32	40	58	58	Negligible
DRO_WEI_08	Residential	457678	264994	A	65	43	38	35	52	52	Negligible
DRO_WEI_09	Residential	457707	264985	A	65	44	38	30	52	52	Negligible

Receptor ID	Receptor Type	Coordinates (British National Grid)		ABC Category	Criterion	Predicted Noise Level (dB LAeq,T)				Max. Noise Level (LAeq,10hr)	Magnitude of Impact
		X (Easting)	Y (Northing)			Phase1	Phase2	Weir	Weir_2		
DRO_WEI_10	Residential	457469	264997	A	65	52	30	27	54	54	Negligible
DRO_WEI_11	Residential	457602	265007	A	65	47	32	37	60	60	Negligible
DRO_WEI_12	Residential	457623	265006	A	65	44	38	35	48	48	Negligible
DRO_WEI_13	Residential	457729	264982	A	65	47	32	33	52	52	Negligible
DRO_WEI_14	Residential	457755	264973	A	65	40	41	34	42	42	Negligible
DRO_WEI_15	Residential	457424	264990	A	65	52	31	32	55	55	Negligible
DRO_WEI_16	Residential	457447	264976	A	65	52	31	31	54	54	Negligible
DRO_WEI_17	Residential	457501	264948	A	65	50	33	31	54	54	Negligible
DRO_WEI_18	Residential	457541	264978	A	65	44	32	33	52	52	Negligible
DRO_WEI_19	Residential	457667	264970	A	65	46	33	34	52	52	Negligible
DRO_WEI_20	Residential	457691	264966	A	65	45	34	37	50	50	Negligible
Note - Explanations of each assessment scenario: a. Phase1: This scenario includes the construction of refill pipeline and structures at Drayton Reservoir, discharge modifications works at Drayton Reservoir, as well as the construction of refill pipeline and structure at Daventry Reservoir; b. Phase2 This scenario includes the construction of outlet and discharge channel at Daventry Reservoir; c. Weir: This scenario includes the construction of weir at Daventry Reservoir; and d. Weir_2: This scenario includes the construction of weir.											