

APPENDIX 9.3

NOISE MONITORING RESULTS

Noise Survey Results

Date: Friday 8th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW(0-1m/s), temp. 0-4degC

Calibration: 94dB

TABLE 1

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
10:00	01:00	56.6	60.2	47.1	75.7	Dominated by local road traffic noise
11:00	01:00	57.6	59.4	47.0	83.7	
12:00	01:00	56.7	59.2	47.1	75.7	
13:00	01:00	56.2	59.1	46.7	75.2	
14:00	01:00	56.4	59.3	48.6	73.0	
15:00	01:00	57.4	59.7	48.5	77.8	
16:00	01:00	55.9	58.7	49.3	69.0	
17:00	01:00	55.7	58.6	48.1	68.7	
18:00	01:00	55.8	58.1	46.3	81.3	
19:00	01:00	54.0	57.5	44.4	71.3	
20:00	01:00	53.5	56.9	44.8	75.1	
21:00	01:00	52.4	55.5	46.0	67.8	
22:00	01:00	52.3	54.8	46.0	70.1	
Average 1000-2300		55.7	58.2	46.9	67.8-83.7	

Noise Survey Results

Date: Friday 8th - Saturday 9th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, clear sky, calm, temp. 0degC

Calibration: 94dB

TABLE 2

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	52.3	54.1	47.5	67.9	
00:00	01:00	50.7	52.9	44.2	68.5	
01:00	01:00	50.3	51.1	47.2	68.7	
02:00	01:00	49.6	51.2	46.2	65.7	
03:00	01:00	51.3	52.2	47.7	71.2	
04:00	01:00	53.5	55.7	48.2	70.2	
05:00	01:00	56.9	60.3	51.1	77.3	
06:00	01:00	56.2	59.5	49.6	78.5	
Average 2300-0700		53.4	54.6	47.7	65.7-78.5	

Noise Survey Results

Date: Saturday 9th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NW (2-3m/s), temp. 0-5degC

Calibration: 94dB

TABLE 3

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	55.7	59.4	47.3	71.3	
08:00	01:00	55.1	58.5	46.9	72.7	
09:00	01:00	55.8	58.6	47.7	77.6	
10:00	01:00	55.8	58.3	49.2	80.9	
11:00	01:00	56.1	58.5	49.8	74.4	
12:00	01:00	56.5	59.1	50.8	78.2	
13:00	01:00	55.4	58.0	49.8	70.5	
14:00	01:00	55.9	58.6	49.3	72.0	
15:00	01:00	55.8	58.6	49.5	72.7	
16:00	01:00	56.4	58.9	50.6	73.7	
17:00	01:00	57.2	59.1	48.6	81.9	
18:00	01:00	54.4	57.5	47.3	72.0	
19:00	01:00	53.7	56.9	47.1	72.2	
20:00	01:00	52.8	56.0	47.5	66.5	
21:00	01:00	52.0	54.7	47.3	68.5	
22:00	01:00	52.4	54.8	47.3	71.8	
Average 0700-2300		55.2	57.8	48.5	66.5-81.9	

Noise Survey Results

Date: Saturday 9th - Sunday 10th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW(1-2m/s), temp. 2-6degC

Calibration: 94dB

TABLE 4

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	51.0	53.4	46.4	66.7	
00:00	01:00	49.9	52.3	45.7	67.1	
01:00	01:00	50.3	52.1	46.8	70.4	
02:00	01:00	48.0	49.0	43.9	69.4	
03:00	01:00	50.2	50.4	47.6	70.6	
04:00	01:00	50.7	53.2	47.0	68.8	
05:00	01:00	54.6	58.1	48.6	70.4	
06:00	01:00	55.4	58.6	48.0	74.5	
Average 2300-0700		51.9	53.4	46.8	66.7-74.5	

Noise Survey Results

Date: Sunday 10th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW (0-1m/s), temp. 1-4degC

Calibration: 94dB

TABLE 5

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	53.0	56.9	45.8	68.0	
08:00	01:00	55.8	58.8	47.8	78.9	
09:00	01:00	54.8	57.9	47.9	67.7	
10:00	01:00	55.6	58.1	49.3	76.5	
11:00	01:00	56.5	58.2	49.3	80.1	
12:00	01:00	55.9	58.5	49.1	75.6	
13:00	01:00	56.5	58.4	48.4	82.5	
14:00	01:00	54.8	57.7	47.3	71.9	
15:00	01:00	54.1	57.1	46.4	71.4	
16:00	01:00	54.1	57.1	46.3	72.3	
17:00	01:00	55.3	58.3	47.1	73.9	
18:00	01:00	54.1	56.7	46.3	72.1	
19:00	01:00	54.0	57.1	47.2	75.0	
20:00	01:00	52.3	55.3	46.8	67.8	
21:00	01:00	52.7	54.9	46.8	68.8	
22:00	01:00	51.2	52.6	47.8	67.6	
Average 0700-2300		54.6	57.1	47.5	67.6-82.5	

Noise Survey Results

Date: Sunday 10th - Monday 11th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, clear sky, light winds WNW (1-2m/s), temp. 4-5degC

Calibration: 94dB

TABLE 6

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	50.1	51.0	45.9	72.4	
00:00	01:00	47.7	48.4	44.6	70.5	
01:00	01:00	46.8	47.8	42.9	67.9	
02:00	01:00	48.6	47.6	41.0	72.2	
03:00	01:00	49.0	49.2	43.2	70.8	
04:00	01:00	53.6	56.0	47.6	71.2	
05:00	01:00	57.0	60.5	49.0	73.0	
06:00	01:00	57.1	60.5	48.6	78.0	
Average 2300-0700		53.0	52.6	45.4	67.9-78.0	

Noise Survey Results

Date: Monday 11th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds NW (1-2m/s), temp. 6-7degC

Calibration: 94dB

TABLE 7

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	57.1	60.5	49.8	71.0	
08:00	01:00	56.7	60.0	49.4	74.9	
09:00	01:00	57.6	60.1	48.4	77.4	
10:00	01:00	57.6	60.0	50.0	79.3	
11:00	01:00	57.3	60.6	48.4	76.8	
12:00	01:00	57.5	59.5	47.6	83.8	
13:00	01:00	56.2	59.6	46.9	74.6	
14:00	01:00	56.4	59.6	47.7	74.9	
15:00	01:00	55.9	58.9	47.9	70.8	
16:00	01:00	57.0	59.6	49.0	79.8	
17:00	01:00	56.5	59.7	49.1	70.6	
18:00	01:00	56.7	59.7	48.9	74.8	
19:00	01:00	55.4	58.9	45.7	72.3	
20:00	01:00	53.6	57.0	44.3	76.3	
21:00	01:00	52.4	55.5	42.7	73.7	
22:00	01:00	50.8	53.0	42.5	69.2	
Average 0700-2300		56.2	58.9	47.4	69.2-83.8	

Noise Survey Results

Date: Monday 11th - Tuesday 12th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, occasional light rain, light winds WNW (1-2m/s), temp. 7degC

Calibration: 94dB

TABLE 8

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	51.0	53.6	41.4	70.7	
00:00	01:00	46.8	47.6	41.9	67.5	
01:00	01:00	46.2	45.9	41.7	66.9	
02:00	01:00	48.7	48.2	42.4	69.3	
03:00	01:00	51.7	50.1	42.5	69.9	
04:00	01:00	53.5	56.3	42.2	70.6	
05:00	01:00	57.3	61.3	48.0	71.0	
06:00	01:00	57.4	61.3	48.5	75.9	
Average 2300-0700		53.3	53.0	43.6	66.9-75.9	

Noise Survey Results

Date: Tuesday 12th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, occasional light rain, light winds WNW (1-2m/s), temp. 7-8degC

Calibration: 94dB

TABLE 9

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	58.5	61.7	50.2	81.0	
08:00	01:00	57.8	60.9	48.9	77.5	
09:00	01:00	56.4	60.1	46.5	73.6	
10:00	01:00	58.1	60.4	47.1	81.1	
11:00	01:00	57.9	59.8	47.4	83.9	
12:00	01:00	56.7	60.3	47.3	74.3	
13:00	01:00	56.6	60.4	46.9	73.4	
14:00	01:00	58.0	61.4	49.7	77.6	
15:00	01:00	58.7	60.8	50.1	82.4	
16:00	01:00	57.1	59.8	50.0	76.1	
17:00	01:00	57.4	60.0	49.6	77.7	
18:00	01:00	56.7	59.8	48.7	80.9	
19:00	01:00	56.8	58.9	47.7	82.0	
20:00	01:00	53.3	56.5	47.6	67.6	
21:00	01:00	52.7	55.5	47.5	70.7	
22:00	01:00	51.9	53.6	48.0	67.4	
Average 0700-2300		56.9	59.4	48.3	67.4-83.9	

Noise Survey Results

Date: Tuesday 12th - Wednesday 13th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds Northerly (1-2m/s), temp. 5-6degC

Calibration: 94dB

TABLE 10

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	49.0	50.3	43.1	69.6	
00:00	01:00	46.2	47.2	42.4	64.4	
01:00	01:00	46.0	46.3	41.0	67.3	
02:00	01:00	49.1	48.9	42.8	69.1	
03:00	01:00	50.1	51.0	43.4	68.7	
04:00	01:00	53.6	56.2	44.0	78.6	
05:00	01:00	57.3	60.9	50.2	70.1	
06:00	01:00	58.3	61.2	51.8	80.2	
Average 2300-0700		53.4	52.8	44.8	64.4-80.2	

Noise Survey Results

Date: Wednesday 13th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds NE (1-2m/s), temp. 2-7degC

Calibration: 94dB

TABLE 11

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	58.6	61.6	53.2	71.5	
08:00	01:00	58.4	61.2	53.5	75.2	
09:00	01:00	58.1	61.1	52.0	74.4	
10:00	01:00	58.6	62.0	52.2	74.3	
11:00	01:00	58.3	60.9	52.3	79.9	
12:00	01:00	58.1	61.1	52.1	76.4	
13:00	01:00	60.3	61.9	53.0	81.0	
14:00	01:00	60.0	61.3	53.1	83.8	
15:00	01:00	58.8	60.9	53.0	79.0	
16:00	01:00	58.2	60.7	53.9	76.1	
17:00	01:00	57.0	59.7	52.5	70.1	
18:00	01:00	56.8	59.8	51.4	71.6	
19:00	01:00	56.8	58.9	49.8	80.3	
20:00	01:00	53.3	56.1	48.0	69.6	
21:00	01:00	52.1	55.1	46.3	67.4	
22:00	01:00	50.9	53.2	45.4	69.4	
Average 0700-2300		57.7	59.7	51.4	67.4-83.8	

Noise Survey Results

Date: Wednesday 13th -Thursday 14th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 1 - Bryn Hyfryd, Holyhead Road**

Instrumentation: Cirrus 831A Integrating Precision SLM (B15420FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds Easterly (1-2m/s), temp. 3-4degC

Calibration: 94dB

TABLE 12

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	49.2	50.6	45.6	65.7	
00:00	01:00	50.1	51.4	46.1	71.5	
01:00	01:00	48.9	49.3	45.1	67.0	
02:00	01:00	48.7	49.0	43.3	67.7	
03:00	01:00	50.7	52.1	42.7	69.9	
04:00	01:00	54.5	56.1	47.7	79.9	
05:00	01:00	57.2	60.7	50.2	75.4	
06:00	01:00	56.4	59.7	50.1	69.9	
Average 2300-0700		53.2	53.6	46.4	65.7-79.9	

Overall average	56.2	58.5	48.4	66.5-83.9
Range	54.6-57.7	57.1-59.7	46.9-51.4	66.5-83.9
Overall average	53.1	53.3	45.8	50.7-80.2
Daily Range	51.9-53.4	52.6-54.6	43.6-47.7	50.7-80.2

Noise Survey Results

Date: Friday 8th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW(0-1m/s), temp. 0-4degC

Calibration: 94dB

TABLE 13

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
11:00	01:00	59.9	58.6	48.6	81.8	General 'hum' from the industrial sites occasional road traffic movement locally
12:00	01:00	58.8	56.9	48.4	80.3	
13:00	01:00	58.4	56.3	47.7	82.8	
14:00	01:00	58.7	55.4	50.0	83.4	
15:00	01:00	58.2	57.1	50.6	78.6	
16:00	01:00	58.2	55.2	50.0	79.4	
17:00	01:00	56.9	54.7	49.9	79.9	
18:00	01:00	55.8	52.8	48.5	78.9	
19:00	01:00	56.5	53.9	48.8	80.1	
20:00	01:00	55.0	54.6	48.7	77.3	
21:00	01:00	52.4	51.2	48.1	80.1	
22:00	01:00	53.4	50.4	48.4	82.1	
Average 1100-2300		57.3	54.8	49.0	77.3-83.4	

Noise Survey Results

Date: Friday 8th - Saturday 9th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, clear sky, calm, temp. 0degC

Calibration: 94dB

TABLE 14

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	51.1	52.3	49.4	64.7	
00:00	01:00	51.8	53.1	50.4	56.4	
01:00	01:00	51.5	52.9	49.9	53.2	
02:00	01:00	52.2	53.6	50.9	56.8	
03:00	01:00	53.8	54.7	51.1	79.9	
04:00	01:00	53.4	53.6	51.3	79.7	
05:00	01:00	60.0	64.0	51.5	74.3	
06:00	01:00	55.7	56.3	52.7	79.2	
Average 2300-0700		54.8	55.1	50.9	53.2-79.9	

Noise Survey Results

Date: Saturday 9th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NW (2-3m/s), temp. 0-5degC

Calibration: 94dB

TABLE 15

Start Time	Run Time (hrs.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
07:00	01:00	55.6	55.2	51.4	79.7	
08:00	01:00	58.9	56.1	50.1	83.4	
09:00	01:00	59.9	57.4	49.5	81.7	
10:00	01:00	62.0	63.6	49.0	84.4	
11:00	01:00	62.9	66.1	48.9	80.1	
12:00	01:00	63.3	67.5	49.4	80.9	
13:00	01:00	63.3	65.9	49.4	83.7	
14:00	01:00	62.1	63.3	49.0	81.2	
15:00	01:00	58.7	57.5	48.8	81.1	
16:00	01:00	59.5	56.6	48.7	84.7	
17:00	01:00	57.5	56.3	48.7	77.5	
18:00	01:00	56.5	55.0	49.1	79.0	
19:00	01:00	55.1	54.7	50.2	79.3	
20:00	01:00	56.9	53.8	47.6	79.4	
21:00	01:00	51.0	49.6	47.6	77.4	
22:00	01:00	51.4	50.4	48.6	75.3	
Average 0700-2300		59.7	58.1	49.1	75.3-84.7	

Noise Survey Results

Date: Saturday 9th - Sunday 10th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW(1-2m/s), temp. 2-6degC

Calibration: 94dB

TABLE 16

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
23:00	01:00	48.8	49.9	47.8	51.8	
00:00	01:00	50.8	50.3	48.6	75.4	
01:00	01:00	48.9	49.8	47.9	51.8	
02:00	01:00	49.9	51.3	48.2	55.1	
03:00	01:00	50.0	51.8	48.2	53.9	
04:00	01:00	50.1	51.8	48.5	55.3	
05:00	01:00	59.0	62.6	50.9	81.6	
06:00	01:00	54.7	55.9	50.8	78.4	
Average 2300-0700		53.1	52.9	48.9	51.8-81.6	

Noise Survey Results

Date: Sunday 10th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds NNW (0-1m/s), temp. 1-4degC

Calibration: 94dB

TABLE 17

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
07:00	01:00	56.8	57.1	50.5	81.0	
08:00	01:00	59.9	57.3	51.5	81.6	
09:00	01:00	61.7	59.4	50.5	83.1	
10:00	01:00	66.7	70.2	50.9	85.2	
11:00	01:00	65.2	70.3	50.7	79.9	
12:00	01:00	62.8	67.1	49.4	82.6	
13:00	01:00	62.4	66.8	48.3	81.7	
14:00	01:00	62.6	66.7	48.7	80.0	
15:00	01:00	60.2	60.9	49.0	79.3	
16:00	01:00	59.4	58.0	47.9	79.1	
17:00	01:00	57.1	55.4	47.6	78.4	
18:00	01:00	56.9	54.2	47.6	80.4	
19:00	01:00	55.2	54.9	48.3	78.3	
20:00	01:00	54.2	50.8	48.3	77.9	
21:00	01:00	52.8	51.0	48.3	79.6	
22:00	01:00	47.0	48.4	45.1	53.2	
Average 0700-2300		60.9	59.3	48.9	53.2-85.2	

Noise Survey Results

Date: Sunday 10th - Monday 11th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, clear sky, light winds WNW (1-2m/s), temp. 4-5degC

Calibration: 94dB

TABLE 18

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
23:00	01:00	46.6	48.4	44.8	50.3	
00:00	01:00	46.8	47.9	45.5	50.3	
01:00	01:00	49.3	51.3	46.4	55.5	
02:00	01:00	49.9	49.1	45.9	79.8	
03:00	01:00	50.1	51.6	48.3	53.4	
04:00	01:00	50.3	51.8	48.7	58.0	
05:00	01:00	57.2	61.1	50.9	75.1	
06:00	01:00	56.5	55.8	51.3	81.0	
Average 2300-0700		52.6	52.1	47.7	50.3-81.0	

Noise Survey Results

Date: Monday 11th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds NW (1-2m/s), temp. 6-7degC

Calibration: 94dB

TABLE 19

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
07:00	01:00	57.3	56.0	50.2	80.4	
08:00	01:00	59.5	56.6	50.1	81.4	
09:00	01:00	57.3	54.7	48.1	79.9	
10:00	01:00	58.1	56.2	48.6	81.1	
11:00	01:00	56.8	58.1	47.7	80.7	
12:00	01:00	58.0	57.6	46.2	80.5	
13:00	01:00	59.0	56.5	46.5	84.6	
14:00	01:00	56.0	54.7	46.5	77.8	
15:00	01:00	55.9	55.8	47.6	78.6	
16:00	01:00	58.1	54.3	47.5	79.1	
17:00	01:00	56.8	52.6	46.7	83.0	
18:00	01:00	57.4	52.8	46.9	84.1	
19:00	01:00	59.1	53.1	47.6	83.8	
20:00	01:00	54.1	50.8	47.1	81.2	
21:00	01:00	52.6	49.6	47.3	79.6	
22:00	01:00	50.9	52.1	48.1	73.6	
Average 0700-2300		57.1	54.5	47.7	73.6-84.6	

Noise Survey Results

Date: Monday 11th - Tuesday 12th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, occasional light rain, light winds WNW (1-2m/s), temp. 7degC

Calibration: 94dB

TABLE 20

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmix (dB)	Observations
23:00	01:00	50.4	51.7	48.6	68.7	
00:00	01:00	54.2	50.8	48.6	84.5	
01:00	01:00	49.7	50.7	48.6	65.6	
02:00	01:00	49.9	51.0	48.7	53.4	
03:00	01:00	49.5	50.7	48.0	53.5	
04:00	01:00	49.0	50.1	47.7	57.5	
05:00	01:00	57.7	62.2	48.0	74.1	
06:00	01:00	53.4	54.9	48.4	74.1	
Average 2300-0700		52.8	52.8	48.3	53.4-84.5	

Noise Survey Results

Date: Tuesday 12th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, occasional light rain, light winds WNW (1-2m/s), temp. 7-8degC

Calibration: 94dB

TABLE 21

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
07:00	01:00	58.1	55.4	47.3	81.4	
08:00	01:00	59.6	57.5	47.7	81.1	
09:00	01:00	59.0	56.2	46.1	83.4	
10:00	01:00	57.2	55.7	45.1	79.6	
11:00	01:00	57.5	56.2	44.7	79.1	
12:00	01:00	56.7	54.7	44.0	78.3	
13:00	01:00	58.3	56.4	43.2	84.0	
14:00	01:00	58.0	54.0	43.3	79.7	
15:00	01:00	58.5	55.8	43.4	81.7	
16:00	01:00	58.6	54.7	42.4	84.1	
17:00	01:00	57.2	54.1	43.6	82.8	
18:00	01:00	56.2	51.0	42.8	83.0	
19:00	01:00	53.6	53.5	44.1	79.0	
20:00	01:00	54.7	48.2	43.1	82.4	
21:00	01:00	50.8	45.3	42.5	82.9	
22:00	01:00	53.4	44.8	41.5	84.0	
Average 0700-2300		57.2	53.3	44.1	78.3-84.1	

Noise Survey Results

Date: Tuesday 12th - Wednesday 13th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds Northerly (1-2m/s), temp. 5-6degC

Calibration: 94dB

TABLE 22

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
23:00	01:00	51.5	47.5	42.0	80.6	
00:00	01:00	48.0	49.1	46.8	64.2	
01:00	01:00	46.7	48.4	44.3	49.5	
02:00	01:00	48.0	49.1	46.3	57.1	
03:00	01:00	49.1	50.7	45.2	51.9	
04:00	01:00	53.2	52.0	49.3	80.2	
05:00	01:00	57.7	61.7	51.8	73.4	
06:00	01:00	55.7	57.0	46.7	79.1	
Average 2300-0700		52.9	51.9	46.6	49.5-80.6	

Noise Survey Results

Date: Wednesday 13th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, partly cloudy, light winds NE (1-2m/s), temp. 2-7degC

Calibration: 94dB

TABLE 23

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
07:00	01:00	57.1	54.4	46.4	81.6	
08:00	01:00	59.4	55.4	46.5	81.1	
09:00	01:00	59.3	56.7	47.4	81.1	
10:00	01:00	59.8	58.0	48.1	82.1	
11:00	01:00	61.2	60.3	48.2	80.1	
12:00	01:00	60.3	58.6	47.6	80.6	
13:00	01:00	59.5	57.2	46.5	80.8	
14:00	01:00	58.4	55.8	46.5	79.0	
15:00	01:00	58.1	55.3	46.8	78.5	
16:00	01:00	57.8	53.3	46.4	79.8	
17:00	01:00	58.0	55.1	47.0	81.6	
18:00	01:00	55.2	56.0	47.9	80.1	
19:00	01:00	56.3	52.9	47.3	80.7	
20:00	01:00	55.8	50.5	47.5	81.6	
21:00	01:00	51.4	49.2	47.4	78.4	
22:00	01:00	49.2	49.9	48.3	63.9	
Average 0700-2300		58.1	54.9	47.2	63.9-82.1	

Noise Survey Results

Date: Wednesday 13th -Thursday 14th April 2011

Site: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position 2 - Station Avenue, West of Site**

Instrumentation: Cirrus 831A Integrating Precision SLM (B14325FF) Calibration due July 2011

Weather Conditions: Dry, variable cloud, light winds Easterly (1-2m/s), temp. 3-4degC

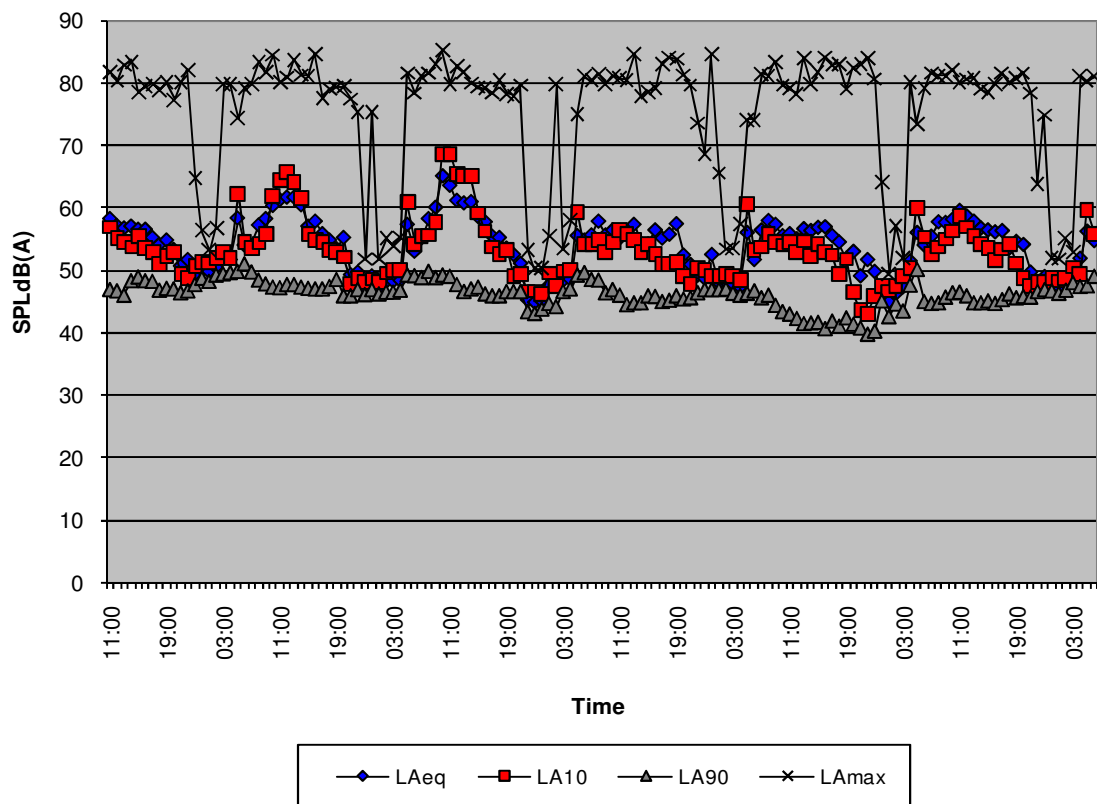
Calibration: 94dB

TABLE 24

Start Time	Run Time (mins.)	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
23:00	01:00	50.7	49.8	48.6	74.8	
00:00	01:00	49.4	50.4	48.4	51.9	
01:00	01:00	49.0	50.0	48.0	51.8	
02:00	01:00	49.5	50.4	48.5	55.1	
03:00	01:00	50.9	52.2	49.7	53.0	
04:00	01:00	53.6	51.0	49.1	81.0	
05:00	01:00	57.9	61.4	49.2	80.3	
06:00	01:00	56.4	57.4	50.7	81.0	
Average 2300-0700		53.4	52.8	49.0	51.8-81.0	

Overall average	58.7	55.8	47.6	53.2-85.2
Range	57.1-60.9	53.3-59.3	44.1-49.1	53.2-85.2
Overall average	53.3	52.9	48.6	49.5-84.5
Daily Range	52.6-54.8	51.9-55.1	46.6-50.9	49.5-84.5

Kronospan Baseline Noise Study
Position 2 - Station Road, West of Site (8th-14th April 2011)



Noise Survey Results

Date: Friday 8th April 2011

Location: Kronospan

Client: AXIS

Project: Baseline Noise Study

Data: **Position - Roaming Measurements**

Instrumentation: Norsonic 118 Real Time Analyser (31992) Calibration due May 2011

Weather Conditions: Dry, variable cloud, light winds NNW(0-1m/s), temp. 0-4degC

Calibration 94dB

TABLE 25

Start Time	LAeq (dB)	LA10 (dB)	LA90 (dB)	LAmx (dB)	Observations
00:15	45.1	46.8	41.8	49.1	1. Linden Avenue
00:20	40.9	43.6	37.8	49	1. Linden Avenue
00:25	42.1	44	39.3	51.6	1. Linden Avenue
Average	43.0	44.8	39.6	49.9	
00:36	47.5	48.3	46.4	53.5	2. Wern
00:41	46.7	47.8	45.4	55.1	2. Wern
00:46	46.1	47.6	42.4	51	2. Wern
Average	46.8	47.9	44.7	53.2	
01:10	47.3	48.2	43.5	56.1	3. Front of George Street
01:15	48.1	48.3	44.1	54.5	3. Front of George Street
01:20	47.7	48.4	43.9	50.6	3. Front of George Street
Average	47.7	48.3	43.8	53.7	
01:32	52.3	52.8	50.7	67	4. Maes-y-waun
01:37	51.2	51.8	49.8	62.3	4. Maes-y-waun
01:42	52.4	53.4	51.2	60.1	4. Maes-y-waun
Average	51.9	52.7	50.6	63.1	
01:52	45.2	46.1	44.1	49.9	5. Shepherds Lane
01:57	46.4	47.4	44.9	48.6	5. Shepherds Lane
02:02	46.2	47.6	44.8	49.5	5. Shepherds Lane
Average	45.9	47.0	44.6	49.3	
02:13	52.6	54.6	50.4	62.5	6. Cadbury's Entrance
02:18	51.7	53.6	49.6	59.7	6. Cadbury's Entrance
02:23	51.2	52.8	49.3	57.8	6. Cadbury's Entrance
Average	51.8	53.7	49.8	60.0	
02:32	60.5	60.9	60	63.8	7. Canalwood Industrial Estate
02:37	60.2	60.6	59.8	64.1	7. Canalwood Industrial Estate
02:42	60.2	60.6	59.7	64.1	7. Canalwood Industrial Estate
Average	60.3	60.7	59.8	64.0	
02:53	48.9	49.8	48.1	51.3	8. Lylwn-y-Cil Road
02:58	50.1	50.9	49.3	51.7	8. Lylwn-y-Cil Road
03:03	49.6	50.2	48.8	50.9	8. Lylwn-y-Cil Road
Average	49.5	50.3	48.7	51.3	
03:15	50.2	51.7	48.7	53	9. Castle Drive
03:20	49.1	49.8	48.3	51.4	9. Castle Drive
03:25	48.2	48.9	47.4	49.9	9. Castle Drive
Average	49.2	50.1	48.1	51.4	