

**Unmitigated Scenario**

**NSR P03**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	39.0	100.0%	-39.8	0.0	0.0	3.0	75.2
Generator		CNP 103	95	1	95	39.0	100.0%	-39.8	0.0	0.0	3.0	58.2
Hand-held Breaker		CNP 024	108	1	108	39.0	100.0%	-39.8	0.0	0.0	3.0	71.2
Dump Truck		CNP 067	117	1	117	39.0	50.0%	-39.8	-3.0	0.0	3.0	77.2
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	184.3	100.0%	-53.3	0.0	0.0	3.0	72.7
Excavator		CNP 081	112	1	112	184.3	100.0%	-53.3	0.0	0.0	3.0	61.7
Concrete Pump		CNP 047	109	1	109	184.3	100.0%	-53.3	0.0	0.0	3.0	58.7
											<b>Max PNL</b>	<b>77</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	40.1	100.0%	-40.0	0.0	0.0	3.0	72.0
Roller, vibratory		CNP 186	108	1	108	40.1	100.0%	-40.0	0.0	0.0	3.0	71.0
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	184.3	100.0%	-53.3	0.0	0.0	3.0	72.7
Excavator		CNP 081	112	1	112	184.3	100.0%	-53.3	0.0	0.0	3.0	61.7
Concrete Pump		CNP 047	109	1	109	184.3	100.0%	-53.3	0.0	0.0	3.0	58.7
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**

**NSR P03**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	39.0	100.0%	-39.8	0.0	0.0	3.0	66.2
Generator		CNP 103	95	1	95	39.0	100.0%	-39.8	0.0	0.0	3.0	58.2
Hand-held Breaker		CNP 024	108	1	108	39.0	100.0%	-39.8	0.0	0.0	3.0	71.2
Lorry		C.8 25	96	1	96	39.0	50.0%	-39.8	-3.0	0.0	3.0	56.2
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	184.3	100.0%	-53.3	0.0	0.0	3.0	72.7
Excavator		C.8 24	103	1	103	184.3	100.0%	-53.3	0.0	0.0	3.0	52.7
Concrete Pump		C.3 115	106	1	106	184.3	100.0%	-53.3	0.0	0.0	3.0	55.7
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	40.1	100.0%	-40.0	0.0	0.0	3.0	64.0
Roller, vibratory		C.3 115	102	1	102	40.1	100.0%	-40.0	0.0	0.0	3.0	65.0
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	184.3	100.0%	-53.3	0.0	0.0	3.0	72.7
Excavator		C.8 24	103	1	103	184.3	100.0%	-53.3	0.0	0.0	3.0	52.7
Concrete Pump		C.3 115	106	1	106	184.3	100.0%	-53.3	0.0	0.0	3.0	55.7
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**
**NSR54**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	145.6	100.0%	-51.2	0.0	0.0	3.0	63.8
Generator		CNP 103	95	1	95	145.6	100.0%	-51.2	0.0	0.0	3.0	46.8
Hand-held Breaker		CNP 024	108	1	108	145.6	100.0%	-51.2	0.0	0.0	3.0	59.8
Drump Truck		CNP 067	117	1	117	145.6	50.0%	-51.2	-3.0	0.0	3.0	65.7
											<b>Max PNL</b>	<b>66</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	146.5	100.0%	-51.3	0.0	0.0	3.0	60.7
Roller, vibratory		CNP186	108	1	108	146.5	100.0%	-51.3	0.0	0.0	3.0	59.7
											<b>Max PNL</b>	<b>61</b>

**Unmitigated Scenario**
**NSR53**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	13.8	100.0%	-30.8	0.0	0.0	3.0	84.2
Generator		CNP 103	95	1	95	13.8	100.0%	-30.8	0.0	0.0	3.0	67.2
Hand-held Breaker		CNP 024	108	1	108	13.8	100.0%	-30.8	0.0	0.0	3.0	80.2
Dump Truck		CNP 067	117	1	117	13.8	50.0%	-30.8	-3.0	0.0	3.0	86.2
<b>Geotechnical Work</b>												
Rotary Driller	No concurrent Geotechnical Work and Road Works	CNP 064	103	1	103	9.8	70.0%	-27.8	-1.5	0.0	3.0	76.6
											<b>Max PNL</b>	<b>86</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	13.7	100.0%	-30.7	0.0	0.0	3.0	81.3
Roller, vibratory		CNP 186	108	1	108	13.7	100.0%	-30.7	0.0	0.0	3.0	80.3
<b>Geotechnical Work</b>												
Rotary Driller	No concurrent Geotechnical Work and Road Works	CNP 064	103	1	103	9.8	70.0%	-27.8	-1.5	0.0	3.0	76.6
											<b>Max PNL</b>	<b>81</b>

**Mitigated Scenario**
**NSR53**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	93	1	93	13.8	100.0%	-30.8	0.0	0.0	3.0	65.2
Generator		CNP 103	95	1	95	13.8	100.0%	-30.8	0.0	0.0	3.0	67.2
Hand-held Breaker		CNP 024	108	1	108	13.8	100.0%	-30.8	0.0	-10.0	3.0	70.2
Lorry		C.8 25	96	1	96	13.8	50.0%	-30.8	-3.0	0.0	3.0	65.2
<b>Geotechnical Work</b>												
Rotary Driller	No concurrent Geotechnical Work and Road Works	CNP 064	103	1	103	9.8	70.0%	-27.8	-1.5	-5.0	3.0	71.6
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	13.7	100.0%	-30.7	0.0	0.0	3.0	73.3
Roller, vibratory		C.3 115	102	1	102	13.7	100.0%	-30.7	0.0	0.0	3.0	74.3
<b>Geotechnical Work</b>												
Rotary Driller	No concurrent Geotechnical Work and Road Works	CNP 064	103	1	103	9.8	70.0%	-27.8	-1.5	-5.0	3.0	71.6
											<b>Max PNL</b>	<b>74</b>

## Unmitigated Scenario

## NSR52

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	32.6	100.0%	-38.2	0.0	0.0	3.0	76.8
Generator		CNP 103	95	1	95	32.6	100.0%	-38.2	0.0	0.0	3.0	59.8
Hand-held Breaker		CNP 024	108	1	108	32.6	100.0%	-38.2	0.0	0.0	3.0	72.8
Dump Truck		CNP 067	117	1	117	32.6	50.0%	-38.2	-3.0	0.0	3.0	78.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	36.3	70.0%	-39.2	-1.5	0.0	3.0	65.3
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	37.7	100.0%	-39.5	0.0	0.0	3.0	72.5
Roller, vibratory		CNP185	108	1	108	37.7	100.0%	-39.5	0.0	0.0	3.0	71.5
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	36.3	70.0%	-39.6	-1.5	0.0	3.0	64.9
											<b>Max PNL</b>	<b>73</b>

## Mitigated Scenario

## NSR52

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	32.6	100.0%	-38.2	0.0	0.0	3.0	67.8
Generator		CNP 103	95	1	95	32.6	100.0%	-38.2	0.0	0.0	3.0	59.8
Hand-held Breaker		CNP 024	108	1	108	32.6	100.0%	-38.2	0.0	0.0	3.0	72.8
Lorry		C.8 25	96	1	96	32.6	50.0%	-38.2	-3.0	0.0	3.0	57.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	36.3	70.0%	-39.2	-1.5	0.0	3.0	65.3
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	37.7	100.0%	-39.5	0.0	0.0	3.0	64.5
Roller, vibratory		C.3 115	102	1	102	37.7	100.0%	-39.5	0.0	0.0	3.0	65.5
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	36.3	70.0%	-39.2	-1.5	0.0	3.0	65.3
											<b>Max PNL</b>	<b>68</b>

## Unmitigated Scenario

## NSR51

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	32.1	100.0%	-38.1	0.0	0.0	3.0	76.9
Generator		CNP 103	95	1	95	32.1	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	32.1	100.0%	-38.1	0.0	0.0	3.0	72.9
Dump Truck		CNP 067	117	1	117	32.1	50.0%	-38.1	-3.0	0.0	3.0	78.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	31.9	100.0%	-38.1	0.0	0.0	3.0	73.9
Roller, vibratory		CNP 186	108	1	108	31.9	100.0%	-38.1	0.0	0.0	3.0	72.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>74</b>

## Mitigated Scenario

## NSR51

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	32.1	100.0%	-38.1	0.0	0.0	3.0	67.9
Generator		CNP 103	95	1	95	32.1	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	32.1	100.0%	-38.1	0.0	0.0	3.0	72.9
Lorry		C.8 25	96	1	96	32.1	50.0%	-38.1	-3.0	0.0	3.0	57.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	31.9	100.0%	-38.1	0.0	0.0	3.0	65.9
Roller, vibratory		C.3 115	102	1	102	31.9	100.0%	-38.1	0.0	0.0	3.0	66.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>68</b>

## Unmitigated Scenario

## NSR50

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	34.5	100.0%	-38.7	0.0	0.0	3.0	76.3
Generator		CNP 103	95	1	95	34.5	100.0%	-38.7	0.0	0.0	3.0	59.3
Hand-held Breaker		CNP 024	108	1	108	34.5	100.0%	-38.7	0.0	0.0	3.0	72.3
Dump Truck		CNP 067	117	1	117	34.5	50.0%	-38.7	-3.0	0.0	3.0	78.3
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	50.5	70.0%	-42.0	-1.5	0.0	3.0	62.4
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	36.0	100.0%	-39.1	0.0	0.0	3.0	72.9
Roller, vibratory		CNP 186	108	1	108	36.0	100.0%	-39.1	0.0	0.0	3.0	71.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	50.5	70.0%	-42.0	-1.5	0.0	3.0	62.4
											<b>Max PNL</b>	<b>73</b>

## Mitigated Scenario

## NSR50

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	34.5	100.0%	-38.7	0.0	0.0	3.0	67.3
Generator		CNP 103	95	1	95	34.5	100.0%	-38.7	0.0	0.0	3.0	59.3
Hand-held Breaker		CNP 024	108	1	108	34.5	100.0%	-38.7	0.0	0.0	3.0	72.3
Lorry		C.8 25	96	1	96	34.5	50.0%	-38.7	-3.0	0.0	3.0	57.3
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	50.5	70.0%	-42.0	-1.5	0.0	3.0	62.4
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	36.0	100.0%	-39.1	0.0	0.0	3.0	64.9
Roller, vibratory		C.3 115	102	1	102	36.0	100.0%	-39.1	0.0	0.0	3.0	65.9
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	50.5	70.0%	-42.0	-1.5	0.0	3.0	62.4
											<b>Max PNL</b>	<b>67</b>

**Unmitigated Scenario**
**NSR49**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	11.0	100.0%	-28.8	0.0	0.0	3.0	86.2
Generator		CNP 103	95	1	95	11.0	100.0%	-28.8	0.0	0.0	3.0	69.2
Hand-held Breaker		CNP 024	108	1	108	11.0	100.0%	-28.8	0.0	0.0	3.0	82.2
Dump Truck		CNP 067	117	1	117	11.0	50.0%	-28.8	-3.0	0.0	3.0	88.2
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	16.1	70.0%	-32.1	-1.5	0.0	3.0	72.3
											<b>Max PNL</b>	<b>88</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	13.1	100.0%	-30.3	0.0	0.0	3.0	81.7
Roller, vibratory		CNP 186	108	1	108	13.1	100.0%	-30.3	0.0	0.0	3.0	80.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	16.1	70.0%	-32.1	-1.5	0.0	3.0	72.3
											<b>Max PNL</b>	<b>82</b>

**Mitigated Scenario**
**NSR49**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	11.0	100.0%	-28.8	0.0	0.0	3.0	67.2
Generator		CNP 103	95	1	95	11.0	100.0%	-28.8	0.0	0.0	3.0	69.2
Hand-held Breaker		CNP 024	108	1	108	11.0	100.0%	-28.8	0.0	-10.0	3.0	72.2
Lorry		C.8 25	96	1	96	11.0	50.0%	-28.8	-3.0	0.0	3.0	67.2
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	16.1	70.0%	-32.1	-1.5	-5.0	3.0	67.3
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	13.1	100.0%	-30.3	0.0	0.0	3.0	73.7
Roller, vibratory		C.3 115	102	1	102	13.1	100.0%	-30.3	0.0	0.0	3.0	74.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	16.1	70.0%	-32.1	-1.5	-5.0	3.0	67.3
											<b>Max PNL</b>	<b>75</b>

**Unmitigated Scenario**
**NSR48**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	56.1	100.0%	-43.0	0.0	0.0	3.0	72.0
Generator		CNP 103	95	1	95	56.1	100.0%	-43.0	0.0	0.0	3.0	55.0
Hand-held Breaker		CNP 024	108	1	108	56.1	100.0%	-43.0	0.0	0.0	3.0	68.0
Dump Truck		CNP 067	117	1	117	56.1	50.0%	-43.0	-3.0	0.0	3.0	74.0
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	70.0	70.0%	-44.9	-1.5	0.0	3.0	59.6
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	58.3	100.0%	-43.3	0.0	0.0	3.0	68.7
Roller, vibratory		CNP185	108	1	108	58.3	100.0%	-43.3	0.0	0.0	3.0	67.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	70.0	70.0%	-44.9	-1.5	0.0	3.0	59.6
											<b>Max PNL</b>	<b>69</b>



**Unmitigated Scenario**
**NSR47**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	181.5	100.0%	-53.2	0.0	0.0	3.0	61.8
Generator		CNP 103	95	1	95	181.5	100.0%	-53.2	0.0	0.0	3.0	44.8
Hand-held Breaker		CNP 024	108	1	108	181.5	100.0%	-53.2	0.0	0.0	3.0	57.8
Drump Truck		CNP 067	117	1	117	181.5	50.0%	-53.2	-3.0	0.0	3.0	63.8
											<b>Max PNL</b>	<b>64</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	186.7	100.0%	-53.4	0.0	0.0	3.0	58.6
Roller, vibratory		CNP186	108	1	108	186.7	100.0%	-53.4	0.0	0.0	3.0	57.6
											<b>Max PNL</b>	<b>59</b>

**Unmitigated Scenario**
**NSR46**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	154.0	100.0%	-51.7	0.0	0.0	3.0	63.3
Generator		CNP 103	95	1	95	154.0	100.0%	-51.7	0.0	0.0	3.0	46.3
Hand-held Breaker		CNP 024	108	1	108	154.0	100.0%	-51.7	0.0	0.0	3.0	59.3
Drump Truck		CNP 067	117	1	117	154.0	50.0%	-51.7	-3.0	0.0	3.0	65.3
											<b>Max PNL</b>	<b>65</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	156.1	100.0%	-51.8	0.0	0.0	3.0	60.2
Roller, vibratory		CNP186	108	1	108	156.1	100.0%	-51.8	0.0	0.0	3.0	59.2
											<b>Max PNL</b>	<b>60</b>

**Unmitigated Scenario**
**NSR45**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	31.9	100.0%	-38.1	0.0	0.0	3.0	76.9
Generator		CNP 103	95	1	95	31.9	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	31.9	100.0%	-38.1	0.0	0.0	3.0	72.9
Dump Truck		CNP 067	117	1	117	31.9	50.0%	-38.1	-3.0	0.0	3.0	78.9
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	36.3	100.0%	-39.2	0.0	0.0	3.0	72.8
Roller, vibratory		CNP185	108	1	108	36.3	80.0%	-39.2	-1.0	0.0	3.0	70.9
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**
**NSR45**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	31.9	100.0%	-38.1	0.0	0.0	3.0	67.9
Generator		CNP 103	95	1	95	31.9	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	31.9	100.0%	-38.1	0.0	0.0	3.0	72.9
Lorry		C.8 25	96	1	96	31.9	50.0%	-38.1	-3.0	0.0	3.0	57.9
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	36.3	100.0%	-39.2	0.0	0.0	3.0	64.8
Roller, vibratory		C.3 115	102	1	102	36.3	100.0%	-39.2	0.0	0.0	3.0	65.8
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**

**NSR44**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	34.5	100.0%	-38.7	0.0	0.0	3.0	76.3
Generator		CNP 103	95	1	95	34.5	100.0%	-38.7	0.0	0.0	3.0	59.3
Hand-held Breaker		CNP 024	108	1	108	34.5	100.0%	-38.7	0.0	0.0	3.0	72.3
Drump Truck		CNP 067	117	1	117	34.5	50.0%	-38.7	-3.0	0.0	3.0	78.3
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	36.2	100.0%	-39.2	0.0	0.0	3.0	72.8
Roller, vibratory		CNP186	108	1	108	36.2	100.0%	-39.2	0.0	0.0	3.0	71.8
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**

**NSR44**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	34.5	100.0%	-38.7	0.0	0.0	3.0	67.3
Generator		CNP 103	95	1	95	34.5	100.0%	-38.7	0.0	0.0	3.0	59.3
Hand-held Breaker		CNP 024	108	1	108	34.5	100.0%	-38.7	0.0	0.0	3.0	72.3
Lorry		C.8 25	96	1	96	34.5	50.0%	-38.7	-3.0	0.0	3.0	57.3
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	36.2	100.0%	-39.2	0.0	0.0	3.0	64.8
Roller, vibratory		C.3 115	102	1	102	36.2	100.0%	-39.2	0.0	0.0	3.0	65.8
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**

**NSR43**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	25.7	100.0%	-36.2	0.0	0.0	3.0	78.8
Generator		CNP 103	95	1	95	25.7	100.0%	-36.2	0.0	0.0	3.0	61.8
Hand-held Breaker		CNP 024	108	1	108	25.7	100.0%	-36.2	0.0	0.0	3.0	74.8
Drump Truck		CNP 067	117	1	117	25.7	50.0%	-36.2	-3.0	0.0	3.0	80.8
											<b>Max PNL</b>	<b>81</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	27.8	100.0%	-36.9	0.0	0.0	3.0	75.1
Roller, vibratory		CNP186	108	1	108	27.8	100.0%	-36.9	0.0	0.0	3.0	74.1
											<b>Max PNL</b>	<b>75</b>

**Mitigated Scenario**

**NSR43**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	25.7	100.0%	-36.2	0.0	0.0	3.0	69.8
Generator		CNP 103	95	1	95	25.7	100.0%	-36.2	0.0	0.0	3.0	61.8
Hand-held Breaker		CNP 024	108	1	108	25.7	100.0%	-36.2	0.0	0.0	3.0	74.8
Lorry		C.8 25	96	1	96	25.7	50.0%	-36.2	-3.0	0.0	3.0	59.8
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	27.8	100.0%	-36.9	0.0	0.0	3.0	67.1
Roller, vibratory		C.3 115	102	1	102	27.8	100.0%	-36.9	0.0	0.0	3.0	68.1
											<b>Max PNL</b>	<b>68</b>

**Unmitigated Scenario**

**NSR42**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	9.3	100.0%	-27.4	0.0	0.0	3.0	87.6
Generator		CNP 103	95	1	95	9.3	100.0%	-27.4	0.0	0.0	3.0	70.6
Hand-held Breaker		CNP 024	108	1	108	9.3	100.0%	-27.4	0.0	0.0	3.0	83.6
Drump Truck		CNP 067	117	1	117	9.3	50.0%	-27.4	-3.0	0.0	3.0	89.6
											<b>Max PNL</b>	<b>90</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	15.7	100.0%	-31.9	0.0	0.0	3.0	80.1
Roller, vibratory		CNP186	108	1	108	15.7	100.0%	-31.9	0.0	0.0	3.0	79.1
											<b>Max PNL</b>	<b>80</b>

**Mitigated Scenario**

**NSR42**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	9.3	100.0%	-27.4	0.0	0.0	3.0	68.6
Generator		CNP 103	95	1	95	9.3	100.0%	-27.4	0.0	0.0	3.0	70.6
Hand-held Breaker		CNP 024	108	1	108	9.3	100.0%	-27.4	0.0	-10.0	3.0	73.6
Lorry		C.8 25	96	1	96	9.3	50.0%	-27.4	-3.0	0.0	3.0	68.6
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	15.7	100.0%	-31.9	0.0	0.0	3.0	72.1
Roller, vibratory		C.3 115	102	1	102	15.7	100.0%	-31.9	0.0	0.0	3.0	73.1
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**
**NSR41**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	15.6	100.0%	-31.8	0.0	0.0	3.0	83.2
Generator		CNP 103	95	1	95	15.6	100.0%	-31.8	0.0	0.0	3.0	66.2
Hand-held Breaker		CNP 024	108	1	108	15.6	100.0%	-31.8	0.0	0.0	3.0	79.2
Drump Truck		CNP 067	117	1	117	15.6	50.0%	-31.8	-3.0	0.0	3.0	85.1
											<b>Max PNL</b>	<b>85</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	16.6	100.0%	-32.4	0.0	0.0	3.0	79.6
Roller, vibratory		CNP186	108	1	108	16.6	100.0%	-32.4	0.0	0.0	3.0	78.6
											<b>Max PNL</b>	<b>80</b>

**Mitigated Scenario**
**NSR41**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	15.6	100.0%	-31.8	0.0	0.0	3.0	74.2
Generator		CNP 103	95	1	95	15.6	100.0%	-31.8	0.0	0.0	3.0	66.2
Hand-held Breaker		CNP 024	108	1	108	15.6	100.0%	-31.8	0.0	-10.0	3.0	69.2
Lorry		C.8 25	96	1	96	15.6	50.0%	-31.8	-3.0	0.0	3.0	64.1
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	16.6	100.0%	-32.4	0.0	0.0	3.0	71.6
Roller, vibratory		C.3 115	102	1	102	16.6	100.0%	-32.4	0.0	0.0	3.0	72.6
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**
**NSR39**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	3.9	100.0%	-19.8	0.0	0.0	3.0	95.2
Generator		CNP 103	95	1	95	3.9	100.0%	-19.8	0.0	0.0	3.0	78.2
Hand-held Breaker		CNP 024	108	1	108	3.9	100.0%	-19.8	0.0	0.0	3.0	91.2
Drump Truck		CNP 067	117	1	117	3.9	50.0%	-19.8	-3.0	0.0	3.0	97.2
											<b>Max PNL</b>	<b>97</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	5.2	100.0%	-22.3	0.0	0.0	3.0	89.7
Roller, vibratory		CNP186	108	1	108	5.2	100.0%	-22.3	0.0	0.0	3.0	88.7
											<b>Max PNL</b>	<b>90</b>

**Mitigated Scenario**
**NSR39**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	3.9	100.0%	-19.8	0.0	0.0	3.0	76.2
Generator		CNP 103	95	1	95	3.9	100.0%	-19.8	0.0	0.0	3.0	78.2
Hand-held Breaker		CNP 024	108	1	108	3.9	100.0%	-19.8	0.0	-10.0	3.0	81.2
Lorry		C.8 25	96	1	96	3.9	50.0%	-19.8	-3.0	0.0	3.0	76.2
											<b>Max PNL</b>	<b>83</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	5.2	100.0%	-22.3	0.0	0.0	3.0	81.7
Roller, vibratory		C.3 115	102	1	102	5.2	100.0%	-22.3	0.0	0.0	3.0	82.7
											<b>Max PNL</b>	<b>83</b>



## Unmitigated Scenario

## NSR38

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	25.8	100.0%	-36.2	0.0	0.0	3.0	78.8
Generator		CNP 103	95	1	95	25.8	100.0%	-36.2	0.0	0.0	3.0	61.8
Hand-held Breaker		CNP 024	108	1	108	25.8	100.0%	-36.2	0.0	0.0	3.0	74.8
Dump Truck		CNP 067	117	1	117	25.8	50.0%	-36.2	-3.0	0.0	3.0	80.8
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	47.9	70.0%	-41.6	-1.5	0.0	3.0	62.9
											<b>Max PNL</b>	<b>81</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	31.0	100.0%	-37.8	0.0	0.0	3.0	74.2
Roller, vibratory		CNP 186	108	1	108	31.0	100.0%	-37.8	0.0	0.0	3.0	73.2
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	47.9	70.0%	-41.6	-1.5	0.0	3.0	62.9
											<b>Max PNL</b>	<b>74</b>

## Mitigated Scenario

## NSR38

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	25.8	100.0%	-36.2	0.0	0.0	3.0	69.8
Generator		CNP 103	95	1	95	25.8	100.0%	-36.2	0.0	0.0	3.0	61.8
Hand-held Breaker		CNP 024	108	1	108	25.8	100.0%	-36.2	0.0	0.0	3.0	74.8
Lorry		C.8 25	96	1	96	25.8	50.0%	-36.2	-3.0	0.0	3.0	59.8
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	47.9	70.0%	-41.6	-1.5	0.0	3.0	62.9
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	31.0	100.0%	-37.8	0.0	0.0	3.0	66.2
Roller, vibratory		C.3 115	102	1	102	31.0	100.0%	-37.8	0.0	0.0	3.0	67.2
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	47.9	70.0%	-41.6	-1.5	0.0	3.0	62.9
											<b>Max PNL</b>	<b>69</b>

## Unmitigated Scenario

## NSR37

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	29.2	100.0%	-37.3	0.0	0.0	3.0	77.7
Generator		CNP 103	95	1	95	29.2	100.0%	-37.3	0.0	0.0	3.0	60.7
Hand-held Breaker		CNP 024	108	1	108	29.2	100.0%	-37.3	0.0	0.0	3.0	73.7
Dump Truck		CNP 067	117	1	117	29.2	50.0%	-37.3	-3.0	0.0	3.0	79.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	43.7	70.0%	-40.8	-1.5	0.0	3.0	63.7
											<b>Max PNL</b>	<b>80</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	31.2	100.0%	-37.9	0.0	0.0	3.0	74.1
Roller, vibratory		CNP 186	108	1	108	31.2	100.0%	-37.9	0.0	0.0	3.0	73.1
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	43.7	70.0%	-40.8	-1.5	0.0	3.0	63.7
											<b>Max PNL</b>	<b>75</b>

## Mitigated Scenario

## NSR37

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	29.2	100.0%	-37.3	0.0	0.0	3.0	68.7
Generator		CNP 103	95	1	95	29.2	100.0%	-37.3	0.0	0.0	3.0	60.7
Hand-held Breaker		CNP 024	108	1	108	29.2	100.0%	-37.3	0.0	0.0	3.0	73.7
Lorry		C.8 25	96	1	96	29.2	50.0%	-37.3	-3.0	0.0	3.0	58.7
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	43.7	70.0%	-40.8	-1.5	0.0	3.0	63.7
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	31.2	100.0%	-37.9	0.0	0.0	3.0	66.1
Roller, vibratory		C.3 115	102	1	102	31.2	100.0%	-37.9	0.0	0.0	3.0	67.1
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	43.7	70.0%	-40.8	-1.5	0.0	3.0	63.7
											<b>Max PNL</b>	<b>69</b>

## Unmitigated Scenario

## NSR36

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	33.6	100.0%	-38.5	0.0	0.0	3.0	76.5
Generator		CNP 103	95	1	95	33.6	100.0%	-38.5	0.0	0.0	3.0	59.5
Hand-held Breaker		CNP 024	108	1	108	33.6	100.0%	-38.5	0.0	0.0	3.0	72.5
Dump Truck		CNP 067	117	1	117	33.6	50.0%	-38.5	-3.0	0.0	3.0	78.5
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	35.1	100.0%	-38.9	0.0	0.0	3.0	73.1
Roller, vibratory		CNP185	108	1	108	35.1	100.0%	-38.9	0.0	0.0	3.0	72.1
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>73</b>

## Mitigated Scenario

## NSR36

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	33.6	100.0%	-38.5	0.0	0.0	3.0	67.5
Generator		CNP 103	95	1	95	33.6	100.0%	-38.5	0.0	0.0	3.0	59.5
Hand-held Breaker		CNP 024	108	1	108	33.6	100.0%	-38.5	0.0	0.0	3.0	72.5
Lorry		C.8 25	96	1	96	33.6	50.0%	-38.5	-3.0	0.0	3.0	57.5
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	35.1	100.0%	-38.9	0.0	0.0	3.0	65.1
Roller, vibratory		C.3 115	102	1	102	35.1	100.0%	-38.9	0.0	0.0	3.0	66.1
<b>Geotechnical Work</b>												
Rotary Driller		CNP 064	103	1	103	68.8	70.0%	-44.7	-1.5	0.0	3.0	59.7
											<b>Max PNL</b>	<b>67</b>

**Unmitigated Scenario**

**NSR35**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	31.9	100.0%	-38.1	0.0	0.0	3.0	76.9
Generator		CNP 103	95	1	95	31.9	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	31.9	100.0%	-38.1	0.0	0.0	3.0	72.9
Dump Truck		CNP 067	117	1	117	31.9	50.0%	-38.1	-3.0	0.0	3.0	78.9
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	135.0	100.0%	-50.6	0.0	0.0	3.0	75.4
Excavator		CNP 081	112	1	112	135.0	100.0%	-50.6	0.0	0.0	3.0	64.4
Concrete Pump		CNP 047	109	1	109	135.0	100.0%	-50.6	0.0	0.0	3.0	61.4
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	32.6	100.0%	-38.2	0.0	0.0	3.0	73.8
Roller, vibratory		CNP 186	108	1	108	32.6	100.0%	-38.2	0.0	0.0	3.0	72.8
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	135.0	100.0%	-50.6	0.0	0.0	3.0	75.4
Excavator		CNP 081	112	1	112	135.0	100.0%	-50.6	0.0	0.0	3.0	64.4
Concrete Pump		CNP 047	109	1	109	135.0	100.0%	-50.6	0.0	0.0	3.0	61.4
											<b>Max PNL</b>	<b>75</b>

**Mitigated Scenario**

**NSR35**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	31.9	100.0%	-38.1	0.0	0.0	3.0	67.9
Generator		CNP 103	95	1	95	31.9	100.0%	-38.1	0.0	0.0	3.0	59.9
Hand-held Breaker		CNP 024	108	1	108	31.9	100.0%	-38.1	0.0	0.0	3.0	72.9
Lorry		C.8 25	96	1	96	31.9	50.0%	-38.1	-3.0	0.0	3.0	57.9
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	135.0	100.0%	-50.6	0.0	0.0	3.0	75.4
Excavator		C.8 24	103	1	103	135.0	100.0%	-50.6	0.0	0.0	3.0	55.4
Concrete Pump		C.3 115	106	1	106	135.0	100.0%	-50.6	0.0	0.0	3.0	58.4
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	32.6	100.0%	-38.2	0.0	0.0	3.0	65.8
Roller, vibratory		C.3 115	102	1	102	32.6	100.0%	-38.2	0.0	0.0	3.0	66.8
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	135.0	100.0%	-50.6	0.0	0.0	3.0	75.4
Excavator		C.8 24	103	1	103	135.0	100.0%	-50.6	0.0	0.0	3.0	55.4
Concrete Pump		C.3 115	106	1	106	135.0	100.0%	-50.6	0.0	0.0	3.0	58.4
											<b>Max PNL</b>	<b>75</b>

**Unmitigated Scenario**
**NSR34**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	29.1	100.0%	-37.2	0.0	0.0	3.0	77.8
Generator		CNP 103	95	1	95	29.1	100.0%	-37.2	0.0	0.0	3.0	60.8
Hand-held Breaker		CNP 024	108	1	108	29.1	100.0%	-37.2	0.0	0.0	3.0	73.8
Dump Truck		CNP 067	117	1	117	29.1	50.0%	-37.2	-3.0	0.0	3.0	79.7
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	103.8	100.0%	-48.3	0.0	0.0	3.0	77.7
Excavator		CNP 081	112	1	112	103.8	100.0%	-48.3	0.0	0.0	3.0	66.7
Concrete Pump		CNP 047	109	1	109	103.8	100.0%	-48.3	0.0	0.0	3.0	63.7
											<b>Max PNL</b>	<b>80</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	30.4	100.0%	-37.6	0.0	0.0	3.0	74.4
Roller, vibratory		CNP 186	108	1	108	30.4	100.0%	-37.6	0.0	0.0	3.0	73.4
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	103.8	100.0%	-48.3	0.0	0.0	3.0	77.7
Excavator		CNP 081	112	1	112	103.8	100.0%	-48.3	0.0	0.0	3.0	66.7
Concrete Pump		CNP 047	109	1	109	103.8	100.0%	-48.3	0.0	0.0	3.0	63.7
											<b>Max PNL</b>	<b>78</b>

**Mitigated Scenario**
**NSR34**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	29.1	100.0%	-37.2	0.0	0.0	3.0	68.8
Generator		CNP 103	95	1	95	29.1	100.0%	-37.2	0.0	0.0	3.0	60.8
Hand-held Breaker		CNP 024	108	1	108	29.1	100.0%	-37.2	0.0	-10.0	3.0	63.8
Lorry		C.8 25	96	1	96	29.1	50.0%	-37.2	-3.0	0.0	3.0	58.7
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	103.8	100.0%	-48.3	0.0	-5.0	3.0	72.7
Excavator		C.8 24	103	1	103	103.8	100.0%	-48.3	0.0	0.0	3.0	57.7
Concrete Pump		C.3 115	106	1	106	103.8	100.0%	-48.3	0.0	0.0	3.0	60.7
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	30.4	100.0%	-37.6	0.0	0.0	3.0	66.4
Roller, vibratory		C.3 115	102	1	102	30.4	100.0%	-37.6	0.0	0.0	3.0	67.4
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	103.8	100.0%	-48.3	0.0	-5.0	3.0	72.7
Excavator		C.8 24	103	1	103	103.8	100.0%	-48.3	0.0	0.0	3.0	57.7
Concrete Pump		C.3 115	106	1	106	103.8	100.0%	-48.3	0.0	0.0	3.0	60.7
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**

**NSR33**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	23.0	100.0%	-35.2	0.0	0.0	3.0	79.8
Generator		CNP 103	95	1	95	23.0	100.0%	-35.2	0.0	0.0	3.0	62.8
Hand-held Breaker		CNP 024	108	1	108	23.0	100.0%	-35.2	0.0	0.0	3.0	75.8
Dump Truck		CNP 067	117	1	117	23.0	50.0%	-35.2	-3.0	0.0	3.0	81.8
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	212.6	100.0%	-54.5	0.0	0.0	3.0	71.5
Excavator		CNP 081	112	1	112	212.6	100.0%	-54.5	0.0	0.0	3.0	60.5
Concrete Pump		CNP 047	109	1	109	212.6	100.0%	-54.5	0.0	0.0	3.0	57.5
											<b>Max PNL</b>	<b>82</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	24.1	100.0%	-35.6	0.0	0.0	3.0	76.4
Roller, vibratory		CNP 186	108	1	108	24.1	100.0%	-35.6	0.0	0.0	3.0	75.4
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	212.6	100.0%	-54.5	0.0	0.0	3.0	71.5
Excavator		CNP 081	112	1	112	212.6	100.0%	-54.5	0.0	0.0	3.0	60.5
Concrete Pump		CNP 047	109	1	109	212.6	100.0%	-54.5	0.0	0.0	3.0	57.5
											<b>Max PNL</b>	<b>76</b>

**Mitigated Scenario**

**NSR33**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 15	103	1	103	23.0	100.0%	-35.2	0.0	0.0	3.0	70.8
Generator		CNP 103	95	1	95	23.0	100.0%	-35.2	0.0	0.0	3.0	62.8
Hand-held Breaker		CNP 024	108	1	108	23.0	100.0%	-35.2	0.0	-10.0	3.0	65.8
Lorry		C.8 25	96	1	96	23.0	50.0%	-35.2	-3.0	0.0	3.0	60.8
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	212.6	100.0%	-54.5	0.0	0.0	3.0	71.5
Excavator		C.8 24	103	1	103	212.6	100.0%	-54.5	0.0	0.0	3.0	51.5
Concrete Pump		C.3 115	106	1	106	212.6	100.0%	-54.5	0.0	0.0	3.0	54.5
											<b>Max PNL</b>	<b>71</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	24.1	100.0%	-35.6	0.0	0.0	3.0	68.4
Roller, vibratory		C.3 115	102	1	102	24.1	100.0%	-35.6	0.0	0.0	3.0	69.4
<b>Soldier Pile Wall Construction</b>												
Rock drill, crawler mounted	Any one of the PME used at a time	CNP 182	123	1	123	212.6	100.0%	-54.5	0.0	0.0	3.0	71.5
Excavator		C.8 24	103	1	103	212.6	100.0%	-54.5	0.0	0.0	3.0	51.5
Concrete Pump		C.3 115	106	1	106	212.6	100.0%	-54.5	0.0	0.0	3.0	54.5
											<b>Max PNL</b>	<b>71</b>

**Unmitigated Scenario**

**NSR32**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	29.9	100.0%	-37.5	0.0	0.0	3.0	77.5
Generator		CNP 103	95	1	95	29.9	100.0%	-37.5	0.0	0.0	3.0	60.5
Hand-held Breaker		CNP 024	108	1	108	29.9	100.0%	-37.5	0.0	0.0	3.0	73.5
Drump Truck		CNP 067	117	1	117	29.9	50.0%	-37.5	-3.0	0.0	3.0	79.5
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	31.4	100.0%	-37.9	0.0	0.0	3.0	74.1
Roller, vibratory		CNP186	108	1	108	31.4	100.0%	-37.9	0.0	0.0	3.0	73.1
											<b>Max PNL</b>	<b>74</b>

**Mitigated Scenario**

**NSR32**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	29.9	100.0%	-37.5	0.0	0.0	3.0	68.5
Generator		CNP 103	95	1	95	29.9	100.0%	-37.5	0.0	0.0	3.0	60.5
Hand-held Breaker		CNP 024	108	1	108	29.9	100.0%	-37.5	0.0	0.0	3.0	73.5
Lorry		C.8 25	96	1	96	29.9	50.0%	-37.5	-3.0	0.0	3.0	58.5
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	31.4	100.0%	-37.9	0.0	0.0	3.0	66.1
Roller, vibratory		C.3 115	102	1	102	31.4	100.0%	-37.9	0.0	0.0	3.0	67.1
											<b>Max PNL</b>	<b>67</b>

**Unmitigated Scenario**

**NSR31**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	17.3	100.0%	-32.7	0.0	0.0	3.0	82.3
Generator		CNP 103	95	1	95	17.3	100.0%	-32.7	0.0	0.0	3.0	65.3
Hand-held Breaker		CNP 024	108	1	108	17.3	100.0%	-32.7	0.0	0.0	3.0	78.3
Drump Truck		CNP 067	117	1	117	17.3	50.0%	-32.7	-3.0	0.0	3.0	84.2
											<b>Max PNL</b>	<b>84</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	18.3	100.0%	-33.2	0.0	0.0	3.0	78.8
Roller, vibratory		CNP186	108	1	108	18.3	100.0%	-33.2	0.0	0.0	3.0	77.8
											<b>Max PNL</b>	<b>79</b>

**Mitigated Scenario**

**NSR31**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	17.3	100.0%	-32.7	0.0	0.0	3.0	73.3
Generator		CNP 103	95	1	95	17.3	100.0%	-32.7	0.0	0.0	3.0	65.3
Hand-held Breaker		CNP 024	108	1	108	17.3	100.0%	-32.7	0.0	-10.0	3.0	68.3
Lorry		C.8 25	96	1	96	17.3	50.0%	-32.7	-3.0	0.0	3.0	63.2
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	18.3	100.0%	-33.2	0.0	0.0	3.0	70.8
Roller, vibratory		C.3 115	102	1	102	18.3	100.0%	-33.2	0.0	0.0	3.0	71.8
											<b>Max PNL</b>	<b>72</b>



**Unmitigated Scenario**
**NSR30**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	34.8	100.0%	-38.8	0.0	0.0	3.0	76.2
Generator		CNP 103	95	1	95	34.8	100.0%	-38.8	0.0	0.0	3.0	59.2
Hand-held Breaker		CNP 024	108	1	108	34.8	100.0%	-38.8	0.0	0.0	3.0	72.2
Drump Truck		CNP 067	117	1	117	34.8	50.0%	-38.8	-3.0	0.0	3.0	78.2
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	36.2	100.0%	-39.2	0.0	0.0	3.0	72.8
Roller, vibratory		CNP186	108	1	108	36.2	100.0%	-39.2	0.0	0.0	3.0	71.8
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**
**NSR30**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	34.8	100.0%	-38.8	0.0	0.0	3.0	67.2
Generator		CNP 103	95	1	95	34.8	100.0%	-38.8	0.0	0.0	3.0	59.2
Hand-held Breaker		CNP 024	108	1	108	34.8	100.0%	-38.8	0.0	0.0	3.0	72.2
Lorry		C.8 25	96	1	96	34.8	50.0%	-38.8	-3.0	0.0	3.0	57.2
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	36.2	100.0%	-39.2	0.0	0.0	3.0	64.8
Roller, vibratory		C.3 115	102	1	102	36.2	100.0%	-39.2	0.0	0.0	3.0	65.8
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**

**NSR29**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	14.8	100.0%	-31.4	0.0	0.0	3.0	83.6
Generator		CNP 103	95	1	95	14.8	100.0%	-31.4	0.0	0.0	3.0	66.6
Hand-held Breaker		CNP 024	108	1	108	14.8	100.0%	-31.4	0.0	0.0	3.0	79.6
Drump Truck		CNP 067	117	1	117	14.8	50.0%	-31.4	-3.0	0.0	3.0	85.6
											<b>Max PNL</b>	<b>86</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	16.4	100.0%	-32.3	0.0	0.0	3.0	79.7
Roller, vibratory		CNP186	108	1	108	16.4	100.0%	-32.3	0.0	0.0	3.0	78.7
											<b>Max PNL</b>	<b>80</b>

**Mitigated Scenario**

**NSR29**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	14.8	100.0%	-31.4	0.0	0.0	3.0	74.6
Generator		CNP 103	95	1	95	14.8	100.0%	-31.4	0.0	0.0	3.0	66.6
Hand-held Breaker		CNP 024	108	1	108	14.8	100.0%	-31.4	0.0	-10.0	3.0	69.6
Lorry		C.8 25	96	1	96	14.8	50.0%	-31.4	-3.0	0.0	3.0	64.6
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	16.4	100.0%	-32.3	0.0	0.0	3.0	71.7
Roller, vibratory		C.3 115	102	1	102	16.4	100.0%	-32.3	0.0	0.0	3.0	72.7
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**
**NSR28**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	51.6	100.0%	-42.2	0.0	0.0	3.0	72.8
Generator		CNP 103	95	1	95	51.6	100.0%	-42.2	0.0	0.0	3.0	55.8
Hand-held Breaker		CNP 024	108	1	108	51.6	100.0%	-42.2	0.0	0.0	3.0	68.8
Drump Truck		CNP 067	117	1	117	51.6	50.0%	-42.2	-3.0	0.0	3.0	74.8
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	52.6	100.0%	-42.4	0.0	0.0	3.0	69.6
Roller, vibratory		CNP186	108	1	108	52.6	100.0%	-42.4	0.0	0.0	3.0	68.6
											<b>Max PNL</b>	<b>70</b>

**Unmitigated Scenario**

**NSR27**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	6.4	100.0%	-24.1	0.0	0.0	3.0	90.9
Generator		CNP 103	95	1	95	6.4	100.0%	-24.1	0.0	0.0	3.0	73.9
Hand-held Breaker		CNP 024	108	1	108	6.4	100.0%	-24.1	0.0	0.0	3.0	86.9
Drump Truck		CNP 067	117	1	117	6.4	50.0%	-24.1	-3.0	0.0	3.0	92.9
											<b>Max PNL</b>	<b>93</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	6.4	100.0%	-24.1	0.0	0.0	3.0	87.9
Roller, vibratory		CNP186	108	1	108	6.4	100.0%	-24.1	0.0	0.0	3.0	86.9
											<b>Max PNL</b>	<b>88</b>

**Mitigated Scenario**

**NSR27**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	6.4	100.0%	-24.1	0.0	-5.0	3.0	66.9
Generator		CNP 103	95	1	95	6.4	100.0%	-24.1	0.0	-10.0	3.0	63.9
Hand-held Breaker		CNP 024	108	1	108	6.4	100.0%	-24.1	0.0	-10.0	3.0	76.9
Lorry		C.8 25	96	1	96	6.4	50.0%	-24.1	-3.0	-5.0	3.0	66.9
											<b>Max PNL</b>	<b>77</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	6.4	100.0%	-24.1	0.0	-5.0	3.0	74.9
Roller, vibratory		C.3 115	102	1	102	6.4	100.0%	-24.1	0.0	-5.0	3.0	75.9
											<b>Max PNL</b>	<b>76</b>

**Unmitigated Scenario**
**NSR26**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	20.5	100.0%	-34.2	0.0	0.0	3.0	80.8
Generator		CNP 103	95	1	95	20.5	100.0%	-34.2	0.0	0.0	3.0	63.8
Hand-held Breaker		CNP 024	108	1	108	20.5	100.0%	-34.2	0.0	0.0	3.0	76.8
Drump Truck		CNP 067	117	1	117	20.5	50.0%	-34.2	-3.0	0.0	3.0	82.8
											<b>Max PNL</b>	<b>83</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	22.7	100.0%	-35.1	0.0	0.0	3.0	76.9
Roller, vibratory		CNP186	108	1	108	22.7	100.0%	-35.1	0.0	0.0	3.0	75.9
											<b>Max PNL</b>	<b>77</b>

**Mitigated Scenario**
**NSR26**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	20.5	100.0%	-34.2	0.0	0.0	3.0	71.8
Generator		CNP 103	95	1	95	20.5	100.0%	-34.2	0.0	0.0	3.0	63.8
Hand-held Breaker		CNP 024	108	1	108	20.5	100.0%	-34.2	0.0	-10.0	3.0	66.8
Lorry		C.8 25	96	1	96	20.5	50.0%	-34.2	-3.0	0.0	3.0	61.8
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	22.7	100.0%	-35.1	0.0	0.0	3.0	68.9
Roller, vibratory		C.3 115	102	1	102	22.7	100.0%	-35.1	0.0	0.0	3.0	69.9
											<b>Max PNL</b>	<b>70</b>

**Unmitigated Scenario**
**NSR25**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	36.9	100.0%	-39.3	0.0	0.0	3.0	75.7
Generator		CNP 103	95	1	95	36.9	100.0%	-39.3	0.0	0.0	3.0	58.7
Hand-held Breaker		CNP 024	108	1	108	36.9	100.0%	-39.3	0.0	0.0	3.0	71.7
Drump Truck		CNP 067	117	1	117	36.9	50.0%	-39.3	-3.0	0.0	3.0	77.7
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	38.0	100.0%	-39.6	0.0	0.0	3.0	72.4
Roller, vibratory		CNP186	108	1	108	38.0	100.0%	-39.6	0.0	0.0	3.0	71.4
											<b>Max PNL</b>	<b>72</b>

**Mitigated Scenario**
**NSR25**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	36.9	100.0%	-39.3	0.0	0.0	3.0	66.7
Generator		CNP 103	95	1	95	36.9	100.0%	-39.3	0.0	0.0	3.0	58.7
Hand-held Breaker		CNP 024	108	1	108	36.9	100.0%	-39.3	0.0	0.0	3.0	71.7
Lorry		C.8 25	96	1	96	36.9	50.0%	-39.3	-3.0	0.0	3.0	56.7
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	38.0	100.0%	-39.6	0.0	0.0	3.0	64.4
Roller, vibratory		C.3 115	102	1	102	38.0	100.0%	-39.6	0.0	0.0	3.0	65.4
											<b>Max PNL</b>	<b>65</b>

**Unmitigated Scenario**
**NSR24**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	14.4	100.0%	-31.1	0.0	0.0	3.0	83.9
Generator		CNP 103	95	1	95	14.4	100.0%	-31.1	0.0	0.0	3.0	66.9
Hand-held Breaker		CNP 024	108	1	108	14.4	100.0%	-31.1	0.0	0.0	3.0	79.9
Drump Truck		CNP 067	117	1	117	14.4	50.0%	-31.1	-3.0	0.0	3.0	85.9
											<b>Max PNL</b>	<b>86</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	16.2	100.0%	-32.2	0.0	0.0	3.0	79.8
Roller, vibratory		CNP186	108	1	108	16.2	100.0%	-32.2	0.0	0.0	3.0	78.8
											<b>Max PNL</b>	<b>80</b>

**Mitigated Scenario**
**NSR24**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	14.4	100.0%	-31.1	0.0	0.0	3.0	74.9
Generator		CNP 103	95	1	95	14.4	100.0%	-31.1	0.0	0.0	3.0	66.9
Hand-held Breaker		CNP 024	108	1	108	14.4	100.0%	-31.1	0.0	-10.0	3.0	69.9
Lorry		C.8 25	96	1	96	14.4	50.0%	-31.1	-3.0	0.0	3.0	64.9
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	16.2	100.0%	-32.2	0.0	0.0	3.0	71.8
Roller, vibratory		C.3 115	102	1	102	16.2	100.0%	-32.2	0.0	0.0	3.0	72.8
											<b>Max PNL</b>	<b>73</b>

**Unmitigated Scenario**

**NSR22**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	36.0	100.0%	-39.1	0.0	0.0	3.0	75.9
Generator		CNP 103	95	1	95	36.0	100.0%	-39.1	0.0	0.0	3.0	58.9
Hand-held Breaker		CNP 024	108	1	108	36.0	100.0%	-39.1	0.0	0.0	3.0	71.9
Drump Truck		CNP 067	117	1	117	36.0	50.0%	-39.1	-3.0	0.0	3.0	77.9
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	36.9	100.0%	-39.3	0.0	0.0	3.0	72.7
Roller, vibratory		CNP186	108	1	108	36.9	100.0%	-39.3	0.0	0.0	3.0	71.7
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**

**NSR22**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	36.0	100.0%	-39.1	0.0	0.0	3.0	66.9
Generator		CNP 103	95	1	95	36.0	100.0%	-39.1	0.0	0.0	3.0	58.9
Hand-held Breaker		CNP 024	108	1	108	36.0	100.0%	-39.1	0.0	0.0	3.0	71.9
Lorry		C.8 25	96	1	96	36.0	50.0%	-39.1	-3.0	0.0	3.0	56.9
											<b>Max PNL</b>	<b>72</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	36.9	100.0%	-39.3	0.0	0.0	3.0	64.7
Roller, vibratory		C.3 115	102	1	102	36.9	100.0%	-39.3	0.0	0.0	3.0	65.7
											<b>Max PNL</b>	<b>66</b>



**Unmitigated Scenario**
**NSR21**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	33.0	100.0%	-38.4	0.0	0.0	3.0	76.6
Generator		CNP 103	95	1	95	33.0	100.0%	-38.4	0.0	0.0	3.0	59.6
Hand-held Breaker		CNP 024	108	1	108	33.0	100.0%	-38.4	0.0	0.0	3.0	72.6
Drump Truck		CNP 067	117	1	117	33.0	50.0%	-38.4	-3.0	0.0	3.0	78.6
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	34.2	100.0%	-38.7	0.0	0.0	3.0	73.3
Roller, vibratory		CNP186	108	1	108	34.2	100.0%	-38.7	0.0	0.0	3.0	72.3
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**
**NSR21**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	33.0	100.0%	-38.4	0.0	0.0	3.0	67.6
Generator		CNP 103	95	1	95	33.0	100.0%	-38.4	0.0	0.0	3.0	59.6
Hand-held Breaker		CNP 024	108	1	108	33.0	100.0%	-38.4	0.0	0.0	3.0	72.6
Lorry		C.8 25	96	1	96	33.0	50.0%	-38.4	-3.0	0.0	3.0	57.6
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	34.2	100.0%	-38.7	0.0	0.0	3.0	65.3
Roller, vibratory		C.3 115	102	1	102	34.2	100.0%	-38.7	0.0	0.0	3.0	66.3
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**

**NSR20**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	30.1	100.0%	-37.6	0.0	0.0	3.0	77.4
Generator		CNP 103	95	1	95	30.1	100.0%	-37.6	0.0	0.0	3.0	60.4
Hand-held Breaker		CNP 024	108	1	108	30.1	100.0%	-37.6	0.0	0.0	3.0	73.4
Drump Truck		CNP 067	117	1	117	30.1	50.0%	-37.6	-3.0	0.0	3.0	79.4
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	31.2	100.0%	-37.9	0.0	0.0	3.0	74.1
Roller, vibratory		CNP186	108	1	108	31.2	100.0%	-37.9	0.0	0.0	3.0	73.1
											<b>Max PNL</b>	<b>74</b>

**Mitigated Scenario**

**NSR20**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	30.1	100.0%	-37.6	0.0	0.0	3.0	68.4
Generator		CNP 103	95	1	95	30.1	100.0%	-37.6	0.0	0.0	3.0	60.4
Hand-held Breaker		CNP 024	108	1	108	30.1	100.0%	-37.6	0.0	0.0	3.0	73.4
Lorry		C.8 25	96	1	96	30.1	50.0%	-37.6	-3.0	0.0	3.0	58.4
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	31.2	100.0%	-37.9	0.0	0.0	3.0	66.1
Roller, vibratory		C.3 115	102	1	102	31.2	100.0%	-37.9	0.0	0.0	3.0	67.1
											<b>Max PNL</b>	<b>67</b>

**Unmitigated Scenario**

**NSR19**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	8.6	100.0%	-26.7	0.0	0.0	3.0	88.3
Generator		CNP 103	95	1	95	8.6	100.0%	-26.7	0.0	0.0	3.0	71.3
Hand-held Breaker		CNP 024	108	1	108	8.6	100.0%	-26.7	0.0	0.0	3.0	84.3
Drump Truck		CNP 067	117	1	117	8.6	50.0%	-26.7	-3.0	0.0	3.0	90.3
											<b>Max PNL</b>	<b>90</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	9.4	100.0%	-27.4	0.0	0.0	3.0	84.6
Roller, vibratory		CNP186	108	1	108	9.4	100.0%	-27.4	0.0	0.0	3.0	83.6
											<b>Max PNL</b>	<b>85</b>

**Mitigated Scenario**

**NSR19**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	8.6	100.0%	-26.7	0.0	0.0	3.0	69.3
Generator		CNP 103	95	1	95	8.6	100.0%	-26.7	0.0	0.0	3.0	71.3
Hand-held Breaker		CNP 024	108	1	108	8.6	100.0%	-26.7	0.0	-10.0	3.0	74.3
Lorry		C.8 25	96	1	96	8.6	50.0%	-26.7	-3.0	0.0	3.0	69.3
											<b>Max PNL</b>	<b>76</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	9.4	100.0%	-27.4	0.0	0.0	3.0	76.6
Roller, vibratory		C.3 115	102	1	102	9.4	100.0%	-27.4	0.0	0.0	3.0	77.6
											<b>Max PNL</b>	<b>78</b>

**Unmitigated Scenario**
**NSR18**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	23.8	100.0%	-35.5	0.0	0.0	3.0	79.5
Generator		CNP 103	95	1	95	23.8	100.0%	-35.5	0.0	0.0	3.0	62.5
Hand-held Breaker		CNP 024	108	1	108	23.8	100.0%	-35.5	0.0	0.0	3.0	75.5
Drump Truck		CNP 067	117	1	117	23.8	50.0%	-35.5	-3.0	0.0	3.0	81.5
											<b>Max PNL</b>	<b>81</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	25.6	100.0%	-36.1	0.0	0.0	3.0	75.9
Roller, vibratory		CNP186	108	1	108	25.6	100.0%	-36.1	0.0	0.0	3.0	74.9
											<b>Max PNL</b>	<b>76</b>

**Mitigated Scenario**
**NSR18**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	23.8	100.0%	-35.5	0.0	0.0	3.0	70.5
Generator		CNP 103	95	1	95	23.8	100.0%	-35.5	0.0	0.0	3.0	62.5
Hand-held Breaker		CNP 024	108	1	108	23.8	100.0%	-35.5	0.0	-10.0	3.0	65.5
Lorry		C.8 25	96	1	96	23.8	50.0%	-35.5	-3.0	0.0	3.0	60.5
											<b>Max PNL</b>	<b>70</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	25.6	100.0%	-36.1	0.0	0.0	3.0	67.9
Roller, vibratory		C.3 115	102	1	102	25.6	100.0%	-36.1	0.0	0.0	3.0	68.9
											<b>Max PNL</b>	<b>69</b>

**Unmitigated Scenario**

**NSR17**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	21.8	100.0%	-34.8	0.0	0.0	3.0	80.2
Generator		CNP 103	95	1	95	21.8	100.0%	-34.8	0.0	0.0	3.0	63.2
Hand-held Breaker		CNP 024	108	1	108	21.8	100.0%	-34.8	0.0	0.0	3.0	76.2
Drump Truck		CNP 067	117	1	117	21.8	50.0%	-34.8	-3.0	0.0	3.0	82.2
											<b>Max PNL</b>	<b>82</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	23.0	100.0%	-35.2	0.0	0.0	3.0	76.8
Roller, vibratory		CNP186	108	1	108	23.0	100.0%	-35.2	0.0	0.0	3.0	75.8
											<b>Max PNL</b>	<b>77</b>

**Mitigated Scenario**

**NSR17**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	21.8	100.0%	-34.8	0.0	0.0	3.0	71.2
Generator		CNP 103	95	1	95	21.8	100.0%	-34.8	0.0	0.0	3.0	63.2
Hand-held Breaker		CNP 024	108	1	108	21.8	100.0%	-34.8	0.0	-10.0	3.0	66.2
Lorry		C.8 25	96	1	96	21.8	50.0%	-34.8	-3.0	0.0	3.0	61.2
											<b>Max PNL</b>	<b>71</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	23.0	100.0%	-35.2	0.0	0.0	3.0	68.8
Roller, vibratory		C.3 115	102	1	102	23.0	100.0%	-35.2	0.0	0.0	3.0	69.8
											<b>Max PNL</b>	<b>70</b>

**Unmitigated Scenario**
**NSR16**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	28.8	100.0%	-37.2	0.0	0.0	3.0	77.8
Generator		CNP 103	95	1	95	28.8	100.0%	-37.2	0.0	0.0	3.0	60.8
Hand-held Breaker		CNP 024	108	1	108	28.8	100.0%	-37.2	0.0	0.0	3.0	73.8
Drump Truck		CNP 067	117	1	117	28.8	50.0%	-37.2	-3.0	0.0	3.0	79.8
											<b>Max PNL</b>	<b>80</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	32.9	100.0%	-38.3	0.0	0.0	3.0	73.7
Roller, vibratory		CNP186	108	1	108	32.9	100.0%	-38.3	0.0	0.0	3.0	72.7
											<b>Max PNL</b>	<b>74</b>

**Mitigated Scenario**
**NSR16**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	28.8	100.0%	-37.2	0.0	0.0	3.0	68.8
Generator		CNP 103	95	1	95	28.8	100.0%	-37.2	0.0	0.0	3.0	60.8
Hand-held Breaker		CNP 024	108	1	108	28.8	100.0%	-37.2	0.0	0.0	3.0	73.8
Lorry		C.8 25	96	1	96	28.8	50.0%	-37.2	-3.0	0.0	3.0	58.8
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	32.9	100.0%	-38.3	0.0	0.0	3.0	65.7
Roller, vibratory		C.3 115	102	1	102	32.9	100.0%	-38.3	0.0	0.0	3.0	66.7
											<b>Max PNL</b>	<b>67</b>

**Unmitigated Scenario**
**NSR15**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	31.2	100.0%	-37.9	0.0	0.0	3.0	77.1
Generator		CNP 103	95	1	95	31.2	100.0%	-37.9	0.0	0.0	3.0	60.1
Hand-held Breaker		CNP 024	108	1	108	31.2	100.0%	-37.9	0.0	0.0	3.0	73.1
Drump Truck		CNP 067	117	1	117	31.2	50.0%	-37.9	-3.0	0.0	3.0	79.1
											<b>Max PNL</b>	<b>79</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	34.5	100.0%	-38.7	0.0	0.0	3.0	73.3
Roller, vibratory		CNP186	108	1	108	34.5	100.0%	-38.7	0.0	0.0	3.0	72.3
											<b>Max PNL</b>	<b>73</b>

**Mitigated Scenario**
**NSR15**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	31.2	100.0%	-37.9	0.0	0.0	3.0	68.1
Generator		CNP 103	95	1	95	31.2	100.0%	-37.9	0.0	0.0	3.0	60.1
Hand-held Breaker		CNP 024	108	1	108	31.2	100.0%	-37.9	0.0	0.0	3.0	73.1
Lorry		C.8 25	96	1	96	31.2	50.0%	-37.9	-3.0	0.0	3.0	58.1
											<b>Max PNL</b>	<b>73</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	34.5	100.0%	-38.7	0.0	0.0	3.0	65.3
Roller, vibratory		C.3 115	102	1	102	34.5	100.0%	-38.7	0.0	0.0	3.0	66.3
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**

**NSR13**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	3.5	100.0%	-18.9	0.0	0.0	3.0	96.1
Generator		CNP 103	95	1	95	3.5	100.0%	-18.9	0.0	0.0	3.0	79.1
Hand-held Breaker		CNP 024	108	1	108	3.5	100.0%	-18.9	0.0	0.0	3.0	92.1
Drump Truck		CNP 067	117	1	117	3.5	50.0%	-18.9	-3.0	0.0	3.0	98.1
											<b>Max PNL</b>	<b>98</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	6.4	100.0%	-24.1	0.0	0.0	3.0	87.9
Roller, vibratory		CNP186	108	1	108	6.4	100.0%	-24.1	0.0	0.0	3.0	86.9
											<b>Max PNL</b>	<b>88</b>

**Mitigated Scenario**

**NSR13**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini-size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	3.5	100.0%	-18.9	0.0	0.0	3.0	77.1
Generator		CNP 103	95	1	95	3.5	100.0%	-18.9	0.0	0.0	3.0	79.1
Hand-held Breaker		CNP 024	108	1	108	3.5	100.0%	-18.9	0.0	-10.0	3.0	82.1
Lorry		C.8 25	96	1	96	3.5	50.0%	-18.9	-3.0	0.0	3.0	77.1
											<b>Max PNL</b>	<b>84</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	6.4	100.0%	-24.1	0.0	0.0	3.0	79.9
Roller, vibratory		C.3 115	102	1	102	6.4	100.0%	-24.1	0.0	0.0	3.0	80.9
											<b>Max PNL</b>	<b>81</b>



**Unmitigated Scenario**
**NSR12**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	76.7	100.0%	-45.7	0.0	0.0	3.0	69.3
Generator		CNP 103	95	1	95	76.7	100.0%	-45.7	0.0	0.0	3.0	52.3
Hand-held Breaker		CNP 024	108	1	108	76.7	100.0%	-45.7	0.0	0.0	3.0	65.3
Drump Truck		CNP 067	117	1	117	76.7	50.0%	-45.7	-3.0	0.0	3.0	71.3
											<b>Max PNL</b>	<b>71</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	82.4	100.0%	-46.3	0.0	0.0	3.0	65.7
Roller, vibratory		CNP186	108	1	108	82.4	100.0%	-46.3	0.0	0.0	3.0	64.7
											<b>Max PNL</b>	<b>66</b>

**Unmitigated Scenario**
**NSR10**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	14.7	100.0%	-31.3	0.0	0.0	3.0	83.7
Generator		CNP 103	95	1	95	14.7	100.0%	-31.3	0.0	0.0	3.0	66.7
Hand-held Breaker		CNP 024	108	1	108	14.7	100.0%	-31.3	0.0	0.0	3.0	79.7
Drump Truck		CNP 067	117	1	117	14.7	50.0%	-31.3	-3.0	0.0	3.0	85.7
											<b>Max PNL</b>	<b>86</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	19.4	100.0%	-33.7	0.0	0.0	3.0	78.3
Roller, vibratory		CNP186	108	1	108	19.4	100.0%	-33.7	0.0	0.0	3.0	77.3
											<b>Max PNL</b>	<b>78</b>

**Mitigated Scenario**
**NSR10**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	14.7	100.0%	-31.3	0.0	0.0	3.0	74.7
Generator		CNP 103	95	1	95	14.7	100.0%	-31.3	0.0	0.0	3.0	66.7
Hand-held Breaker		CNP 024	108	1	108	14.7	100.0%	-31.3	0.0	-10.0	3.0	69.7
Lorry		C.8 25	96	1	96	14.7	50.0%	-31.3	-3.0	0.0	3.0	64.7
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	19.4	100.0%	-33.7	0.0	0.0	3.0	70.3
Roller, vibratory		C.3 115	102	1	102	19.4	100.0%	-33.7	0.0	0.0	3.0	71.3
											<b>Max PNL</b>	<b>71</b>

**Unmitigated Scenario**

**NSR9**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	15.6	100.0%	-31.8	0.0	0.0	3.0	83.2
Generator		CNP 103	95	1	95	15.6	100.0%	-31.8	0.0	0.0	3.0	66.2
Hand-held Breaker		CNP 024	108	1	108	15.6	100.0%	-31.8	0.0	0.0	3.0	79.2
Drump Truck		CNP 067	117	1	117	15.6	50.0%	-31.8	-3.0	0.0	3.0	85.1
											<b>Max PNL</b>	<b>85</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	17.1	100.0%	-32.6	0.0	0.0	3.0	79.4
Roller, vibratory		CNP186	108	1	108	17.1	100.0%	-32.6	0.0	0.0	3.0	78.4
											<b>Max PNL</b>	<b>79</b>

**Mitigated Scenario**

**NSR9**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	15.6	100.0%	-31.8	0.0	0.0	3.0	74.2
Generator		CNP 103	95	1	95	15.6	100.0%	-31.8	0.0	0.0	3.0	66.2
Hand-held Breaker		CNP 024	108	1	108	15.6	100.0%	-31.8	0.0	-10.0	3.0	69.2
Lorry		C.8 25	96	1	96	15.6	50.0%	-31.8	-3.0	0.0	3.0	64.1
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	17.1	100.0%	-32.6	0.0	0.0	3.0	71.4
Roller, vibratory		C.3 115	102	1	102	17.1	100.0%	-32.6	0.0	0.0	3.0	72.4
											<b>Max PNL</b>	<b>72</b>

**Unmitigated Scenario**

**NSR8**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	14.1	100.0%	-31.0	0.0	0.0	3.0	84.0
Generator		CNP 103	95	1	95	14.1	100.0%	-31.0	0.0	0.0	3.0	67.0
Hand-held Breaker		CNP 024	108	1	108	14.1	100.0%	-31.0	0.0	0.0	3.0	80.0
Drump Truck		CNP 067	117	1	117	14.1	50.0%	-31.0	-3.0	0.0	3.0	86.0
											<b>Max PNL</b>	<b>86</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	13.7	100.0%	-30.7	0.0	0.0	3.0	81.3
Roller, vibratory		CNP186	108	1	108	13.7	100.0%	-30.7	0.0	0.0	3.0	80.3
											<b>Max PNL</b>	<b>81</b>

**Mitigated Scenario**

**NSR8**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	C.8 25	103	1	103	14.1	100.0%	-31.0	0.0	0.0	3.0	75.0
Generator		CNP 103	95	1	95	14.1	100.0%	-31.0	0.0	0.0	3.0	67.0
Hand-held Breaker		CNP 024	108	1	108	14.1	100.0%	-31.0	0.0	-10.0	3.0	70.0
Lorry		C.8 25	96	1	96	14.1	50.0%	-31.0	-3.0	0.0	3.0	65.0
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	13.7	100.0%	-30.7	0.0	0.0	3.0	73.3
Roller, vibratory		C.3 115	102	1	102	13.7	100.0%	-30.7	0.0	0.0	3.0	74.3
											<b>Max PNL</b>	<b>74</b>

**Unmitigated Scenario**

**NSR7**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	7.2	100.0%	-25.1	0.0	0.0	3.0	89.9
Generator		CNP 103	95	1	95	7.2	100.0%	-25.1	0.0	0.0	3.0	72.9
Hand-held Breaker		CNP 024	108	1	108	7.2	100.0%	-25.1	0.0	0.0	3.0	85.9
Drump Truck		CNP 067	117	1	117	7.2	50.0%	-25.1	-3.0	0.0	3.0	91.9
											<b>Max PNL</b>	<b>92</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	8.2	100.0%	-26.3	0.0	0.0	3.0	85.7
Roller, vibratory		CNP186	108	1	108	8.2	100.0%	-26.3	0.0	0.0	3.0	84.7
											<b>Max PNL</b>	<b>86</b>

**Mitigated Scenario**

**NSR7**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	7.2	100.0%	-25.1	0.0	0.0	3.0	70.9
Generator		CNP 103	95	1	95	7.2	100.0%	-25.1	0.0	0.0	3.0	72.9
Hand-held Breaker		CNP 024	108	1	108	7.2	100.0%	-25.1	0.0	-10.0	3.0	75.9
Lorry		C.8 25	96	1	96	7.2	50.0%	-25.1	-3.0	0.0	3.0	70.9
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	8.2	100.0%	-26.3	0.0	0.0	3.0	77.7
Roller, vibratory		C.3 115	102	1	102	8.2	100.0%	-26.3	0.0	0.0	3.0	78.7
											<b>Max PNL</b>	<b>79</b>

**Unmitigated Scenario**

**NSR6**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	7.0	100.0%	-24.9	0.0	0.0	3.0	90.1
Generator		CNP 103	95	1	95	7.0	100.0%	-24.9	0.0	0.0	3.0	73.1
Hand-held Breaker		CNP 024	108	1	108	7.0	100.0%	-24.9	0.0	0.0	3.0	86.1
Drump Truck		CNP 067	117	1	117	7.0	50.0%	-24.9	-3.0	0.0	3.0	92.1
											<b>Max PNL</b>	<b>92</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	7.9	100.0%	-25.9	0.0	0.0	3.0	86.1
Roller, vibratory		CNP186	108	1	108	7.9	100.0%	-25.9	0.0	0.0	3.0	85.1
											<b>Max PNL</b>	<b>86</b>

**Mitigated Scenario**

**NSR6**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (mini size)	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	QPME	93	1	93	7.0	100.0%	-24.9	0.0	0.0	3.0	71.1
Generator		CNP 103	95	1	95	7.0	100.0%	-24.9	0.0	0.0	3.0	73.1
Hand-held Breaker		CNP 024	108	1	108	7.0	100.0%	-24.9	0.0	-10.0	3.0	76.1
Lorry		C.8 25	96	1	96	7.0	50.0%	-24.9	-3.0	0.0	3.0	71.1
											<b>Max PNL</b>	<b>78</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	7.9	100.0%	-25.9	0.0	0.0	3.0	78.1
Roller, vibratory		C.3 115	102	1	102	7.9	100.0%	-25.9	0.0	0.0	3.0	79.1
											<b>Max PNL</b>	<b>79</b>

**Unmitigated Scenario**
**NSR5**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	52.6	100.0%	-42.4	0.0	0.0	3.0	72.6
Generator		CNP 103	95	1	95	52.6	100.0%	-42.4	0.0	0.0	3.0	55.6
Hand-held Breaker		CNP 024	108	1	108	52.6	100.0%	-42.4	0.0	0.0	3.0	68.6
Drump Truck		CNP 067	117	1	117	52.6	50.0%	-42.4	-3.0	0.0	3.0	74.6
											<b>Max PNL</b>	<b>75</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	53.6	100.0%	-42.6	0.0	0.0	3.0	69.4
Roller, vibratory		CNP186	108	1	108	53.6	100.0%	-42.6	0.0	0.0	3.0	68.4
											<b>Max PNL</b>	<b>69</b>

**Unmitigated Scenario**
**NSR4**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	27.8	100.0%	-36.9	0.0	0.0	3.0	78.1
Generator		CNP 103	95	1	95	27.8	100.0%	-36.9	0.0	0.0	3.0	61.1
Hand-held Breaker		CNP 024	108	1	108	27.8	100.0%	-36.9	0.0	0.0	3.0	74.1
Drump Truck		CNP 067	117	1	117	27.8	50.0%	-36.9	-3.0	0.0	3.0	80.1
											<b>Max PNL</b>	<b>80</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	28.9	100.0%	-37.2	0.0	0.0	3.0	74.8
Roller, vibratory		CNP186	108	1	108	28.9	100.0%	-37.2	0.0	0.0	3.0	73.8
											<b>Max PNL</b>	<b>75</b>

**Mitigated Scenario**
**NSR4**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and breaker)	C.8 25	103	1	103	27.8	100.0%	-36.9	0.0	0.0	3.0	69.1
Generator		CNP 103	95	1	95	27.8	100.0%	-36.9	0.0	0.0	3.0	61.1
Hand-held Breaker		CNP 024	108	1	108	27.8	100.0%	-36.9	0.0	0.0	3.0	74.1
Lorry		C.8 25	96	1	96	27.8	50.0%	-36.9	-3.0	0.0	3.0	59.1
											<b>Max PNL</b>	<b>74</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	28.9	100.0%	-37.2	0.0	0.0	3.0	66.8
Roller, vibratory		C.3 115	102	1	102	28.9	100.0%	-37.2	0.0	0.0	3.0	67.8
											<b>Max PNL</b>	<b>68</b>



**Unmitigated Scenario**

**NSR3**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	45.3	100.0%	-41.1	0.0	0.0	3.0	73.9
Generator		CNP 103	95	1	95	45.3	100.0%	-41.1	0.0	0.0	3.0	56.9
Hand-held Breaker		CNP 024	108	1	108	45.3	100.0%	-41.1	0.0	0.0	3.0	69.9
Drump Truck		CNP 067	117	1	117	45.3	50.0%	-41.1	-3.0	0.0	3.0	75.9
											<b>Max PNL</b>	<b>76</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	46.6	100.0%	-41.3	0.0	0.0	3.0	70.7
Roller, vibratory		CNP186	108	1	108	46.6	100.0%	-41.3	0.0	0.0	3.0	69.7
											<b>Max PNL</b>	<b>71</b>

**Mitigated Scenario**

**NSR3**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator (medium size)	Any one of the PME used at a time (except concurrent use of generator and breaker)	C.8 25	103	1	103	45.3	100.0%	-41.1	0.0	0.0	3.0	64.9
Generator		CNP 103	95	1	95	45.3	100.0%	-41.1	0.0	0.0	3.0	56.9
Hand-held Breaker		CNP 024	108	1	108	45.3	100.0%	-41.1	0.0	0.0	3.0	69.9
Lorry		C.8 25	96	1	96	45.3	50.0%	-41.1	-3.0	0.0	3.0	54.9
											<b>Max PNL</b>	<b>70</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	C.8 24	101	1	101	46.6	100.0%	-41.3	0.0	0.0	3.0	62.7
Roller, vibratory		C.3 115	102	1	102	46.6	100.0%	-41.3	0.0	0.0	3.0	63.7
											<b>Max PNL</b>	<b>64</b>

**Unmitigated Scenario**
**NSR2**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	209.1	100.0%	-54.4	0.0	0.0	3.0	60.6
Generator		CNP 103	95	1	95	209.1	100.0%	-54.4	0.0	0.0	3.0	43.6
Hand-held Breaker		CNP 024	108	1	108	209.1	100.0%	-54.4	0.0	0.0	3.0	56.6
Drump Truck		CNP 067	117	1	117	209.1	50.0%	-54.4	-3.0	0.0	3.0	62.6
											<b>Max PNL</b>	<b>63</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	247.6	100.0%	-55.9	0.0	0.0	3.0	56.1
Roller, vibratory		CNP186	108	1	108	247.6	100.0%	-55.9	0.0	0.0	3.0	55.1
											<b>Max PNL</b>	<b>56</b>

**Unmitigated Scenario**
**NSR1**

PME	Remark	ID code	SWL, dB(A)	No. of PME	Total SWL,	Hor dist, m	% on time	Dist correction, dB(A)	% on time correction, dB(A)	Screening, dB(A)	Façade correction, dB(A)	PNL, dB(A)
<b>Stage 1</b>												
<b>Road Upgrading (including minor excavation and minor slopeworks)</b>												
Excavator, wheeled/tracked	Any one of the PME used at a time (except concurrent use of generator and hand-held breaker)	CNP 081	112	1	112	88.9	100.0%	-47.0	0.0	0.0	3.0	68.0
Generator		CNP 103	95	1	95	88.9	100.0%	-47.0	0.0	0.0	3.0	51.0
Hand-held Breaker		CNP 024	108	1	108	88.9	100.0%	-47.0	0.0	0.0	3.0	64.0
Drump Truck		CNP 067	117	1	117	88.9	50.0%	-47.0	-3.0	0.0	3.0	70.0
											<b>Max PNL</b>	<b>70</b>
<b>Stage 2</b>												
<b>Paving</b>												
Asphalt Paver	Any one of the PME used at a time	CNP 004	109	1	109	181.3	100.0%	-53.1	0.0	0.0	3.0	58.9
Roller, vibratory		CNP186	108	1	108	181.3	100.0%	-53.1	0.0	0.0	3.0	57.9
											<b>Max PNL</b>	<b>59</b>