

CALCULATED SOUND LEVELS AT POINTS OF RECEPTION FOR NOISE BARRIER OPTIONS AT SITE 5 C CSST, OTTAWA

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Table 1: Summary of Calculated Sound Levels for – Hoe Ram operations on the surface at Site 5C, with 2.5 m “SHAVER” Barrier – NRC 0.65.

ID	Description	Hoe Ram at Site 5C Center of Extraction Area L _{max} (dBA)
POR21_W1	50 Queen Victoria 1st Floor	91.8
POR21_W2	50 Queen Victoria 2 nd Floor	99.2
POR22_W1	54 Queen Victoria 1st Floor	91.7
POR22_W2	54 Queen Victoria 2 nd Floor	99.4
POR23_W1	51 Queen Victoria 1st Floor	92.6
POR23_W2	51 Queen Victoria 2 nd Floor	100.5
POR24_W1	55 Queen Victoria 1st Floor	92.1
POR24_W2	55 Queen Victoria 2 nd Floor	99.8
POR25_W1	49 Queen Victoria 1st Floor	88.9
POR25_W2	49 Queen Victoria 2 nd Floor	95.9
POR26_W1	136 Stanley Ave 1st Floor	84
POR26_W2	136 Stanley Ave 2 nd Floor	89.7
POR27_W1	132 Stanley Ave 1st Floor	86.3
POR27_W2	132 Stanley Ave 2 nd Floor	89.8
POR28_W1	58 Queen Victoria 1st Floor	86.8
POR28_W2	58 Queen Victoria 2 nd Floor	93.4
POR29_W1	63 Queen Victoria 1st Floor	84.7
POR29_W2	63 Queen Victoria 2 nd Floor	86.9
POR29_W3	63 Queen Victoria 3rd Floor	90.9
POR30_W1	103A River Lane 1st Floor	78.8
POR30_W2	103A River Lane 2 nd Floor	80.1
POR31_W1*	56 Queen Victoria 1st Floor	88.9
POR31_W2*	56 Queen Victoria 2 nd Floor	95.5
POR32_W1*	61 Queen Victoria 1st Floor	87.8
POR32_W2*	61 Queen Victoria 2 nd Floor	94.5
POR33_W1*	132 Stanley Ave 1st Floor	87.4
POR34_W1*	50 Queen Victoria 1st Floor	90.3
POR34_W2*	50 Queen Victoria 2 nd Floor	97.2
POR35_W1*	57 Queen Victoria 1st Floor	90.9
POR35_W2*	57 Queen Victoria 2 nd Floor	98.8
NMS*	Noise Monitor Station	94.6

*Additional receptor not included in NCP added this location. Refer to Figure 1, Addendum 1 to the NCP for location.



Table 2: Summary of Calculated Sound Levels for – Hoe Ram operations on the surface at Site 5C, with 3 m “SHAVER” Barrier – NRC 0.65.

ID	Description	Hoe Ram at Site 5C Center of Extraction Area L _{max} (dBA)
POR21_W1	50 Queen Victoria 1st Floor	88.9
POR21_W2	50 Queen Victoria 2 nd Floor	99.5
POR22_W1	54 Queen Victoria 1st Floor	89
POR22_W2	54 Queen Victoria 2 nd Floor	99.4
POR23_W1	51 Queen Victoria 1st Floor	89.8
POR23_W2	51 Queen Victoria 2 nd Floor	100.7
POR24_W1	55 Queen Victoria 1st Floor	89.2
POR24_W2	55 Queen Victoria 2 nd Floor	99.9
POR25_W1	49 Queen Victoria 1st Floor	86.9
POR25_W2	49 Queen Victoria 2 nd Floor	96.2
POR26_W1	136 Stanley Ave 1st Floor	82.7
POR26_W2	136 Stanley Ave 2 nd Floor	86.1
POR27_W1	132 Stanley Ave 1st Floor	85.4
POR27_W2	132 Stanley Ave 2 nd Floor	87.6
POR28_W1	58 Queen Victoria 1st Floor	85.1
POR28_W2	58 Queen Victoria 2 nd Floor	89.1
POR29_W1	63 Queen Victoria 1st Floor	82.8
POR29_W2	63 Queen Victoria 2 nd Floor	86
POR29_W3	63 Queen Victoria 3rd Floor	90.4
POR30_W1	103A River Lane 1st Floor	76.6
POR30_W2	103A River Lane 2 nd Floor	77.8
POR31_W1*	56 Queen Victoria 1st Floor	86.9
POR31_W2*	56 Queen Victoria 2 nd Floor	95.8
POR32_W1*	61 Queen Victoria 1st Floor	86.1
POR32_W2*	61 Queen Victoria 2 nd Floor	90.4
POR33_W1*	132 Stanley Ave 1st Floor	85.6
POR34_W1*	50 Queen Victoria 1st Floor	87.9
POR34_W2*	50 Queen Victoria 2 nd Floor	97.3
POR35_W1*	57 Queen Victoria 1st Floor	88.1
POR35_W2*	57 Queen Victoria 2 nd Floor	98.9
NMS*	Noise Monitor Station	91.4

*Additional receptor not included in NCP added this location. Refer to Figure 1, Addendum 1 to the NCP for location.



Table 3: Summary of Calculated Sound Levels for – Hoe Ram operations on the surface at Site 5C, with 3 m Wood Barrier – NRC 0.1.

ID	Description	Hoe Ram at Site 5C Center of Extraction Area Lmax (dBA)
POR21_W1	50 Queen Victoria 1st Floor	91
POR21_W2	50 Queen Victoria 2 nd Floor	100.6
POR22_W1	54 Queen Victoria 1st Floor	90.6
POR22_W2	54 Queen Victoria 2 nd Floor	100.2
POR23_W1	51 Queen Victoria 1st Floor	91.5
POR23_W2	51 Queen Victoria 2 nd Floor	101.7
POR24_W1	55 Queen Victoria 1st Floor	90.6
POR24_W2	55 Queen Victoria 2 nd Floor	100
POR25_W1	49 Queen Victoria 1st Floor	89.1
POR25_W2	49 Queen Victoria 2 nd Floor	98.1
POR26_W1	136 Stanley Ave 1st Floor	83.8
POR26_W2	136 Stanley Ave 2 nd Floor	87.9
POR27_W1	132 Stanley Ave 1st Floor	86.5
POR27_W2	132 Stanley Ave 2 nd Floor	89.8
POR28_W1	58 Queen Victoria 1st Floor	86.7
POR28_W2	58 Queen Victoria 2 nd Floor	90.9
POR29_W1	63 Queen Victoria 1st Floor	84.1
POR29_W2	63 Queen Victoria 2 nd Floor	87.9
POR29_W3	63 Queen Victoria 3rd Floor	90.7
POR30_W1	103A River Lane 1st Floor	76.6
POR30_W2	103A River Lane 2 nd Floor	77.8
POR31_W1*	56 Queen Victoria 1st Floor	88.8
POR31_W2*	56 Queen Victoria 2 nd Floor	96.9
POR32_W1*	61 Queen Victoria 1st Floor	87.7
POR32_W2*	61 Queen Victoria 2 nd Floor	92.3
POR33_W1*	132 Stanley Ave 1st Floor	88.1
POR34_W1*	50 Queen Victoria 1st Floor	90.3
POR34_W2*	50 Queen Victoria 2 nd Floor	98.5
POR35_W1*	57 Queen Victoria 1st Floor	88.6
POR35_W2*	57 Queen Victoria 2 nd Floor	99.1
NMS*	Noise Monitor Station	93

*Additional receptor not included in NCP added this location. Refer to Figure 1, Addendum 1 to the NCP for location.



Table 4: Summary of Calculated Sound Levels for – Hoe Ram operations on the surface at Site 5C, with 5 m “SHAVER” Barrier – NRC 0.65.

ID	Description	Hoe Ram at Site 5C Center of Extraction Area Lmax (dBA)
POR21_W1	50 Queen Victoria 1st Floor	82.9
POR21_W2	50 Queen Victoria 2 nd Floor	88.6
POR22_W1	54 Queen Victoria 1st Floor	82.6
POR22_W2	54 Queen Victoria 2 nd Floor	86.8
POR23_W1	51 Queen Victoria 1st Floor	83.6
POR23_W2	51 Queen Victoria 2 nd Floor	88.2
POR24_W1	55 Queen Victoria 1st Floor	83
POR24_W2	55 Queen Victoria 2 nd Floor	87.7
POR25_W1	49 Queen Victoria 1st Floor	81.2
POR25_W2	49 Queen Victoria 2 nd Floor	86.1
POR26_W1	136 Stanley Ave 1st Floor	78
POR26_W2	136 Stanley Ave 2 nd Floor	80.6
POR27_W1	132 Stanley Ave 1st Floor	83.9
POR27_W2	132 Stanley Ave 2 nd Floor	84.7
POR28_W1	58 Queen Victoria 1st Floor	79.2
POR28_W2	58 Queen Victoria 2 nd Floor	81.9
POR29_W1	63 Queen Victoria 1st Floor	77.3
POR29_W2	63 Queen Victoria 2 nd Floor	79.4
POR29_W3	63 Queen Victoria 3rd Floor	83.2
POR30_W1	103A River Lane 1st Floor	70.9
POR30_W2	103A River Lane 2 nd Floor	71.6
POR31_W1*	56 Queen Victoria 1st Floor	80.9
POR31_W2*	56 Queen Victoria 2 nd Floor	84.7
POR32_W1*	61 Queen Victoria 1st Floor	80
POR32_W2*	61 Queen Victoria 2 nd Floor	83
POR33_W1*	132 Stanley Ave 1st Floor	80.9
POR34_W1*	50 Queen Victoria 1st Floor	81.8
POR34_W2*	50 Queen Victoria 2 nd Floor	87.5
POR35_W1*	57 Queen Victoria 1st Floor	81.7
POR35_W2*	57 Queen Victoria 2 nd Floor	86.6
NMS*	Noise Monitor Station	85.5

*Additional receptor not included in NCP added this location. Refer to Figure 1, Addendum 1 to the NCP for location.



