

APPENDIX 5D-2

NOISE EMISSION INVENTORY

Table 5D-2-1: Noise Source Data (Mine Site)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier
- L = Lagging
E = Acoustic Enclosure

2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package
- EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	1	-1

Source ID ⁽¹⁾	Source Description	Sound Power Level (dBA)	Existing Noise Control Measures ⁽¹⁾ (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ⁽²⁾	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
MR_HR_Mine01	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,559.9	7,913,445.2	318.1
MR_HR_Mine02	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,625.8	7,913,376.9	298.7
MR_HR_Mine03	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,708.0	7,913,381.1	291.2
MR_HR_Mine04	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,714.3	7,913,480.4	322.5
MR_HR_Mine05	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,735.9	7,913,577.9	339.2
MR_HR_Mine06	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,793.9	7,913,658.7	352.6
MR_HR_Mine07	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,851.1	7,913,739.8	373.9
MR_HR_Mine08	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,892.1	7,913,825.7	394.5
MR_HR_Mine09	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,913.2	7,913,921.4	417.1
MR_HR_Mine10	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,983.6	7,913,986.5	429.5
MR_HR_Mine11	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	564,041.6	7,914,064.9	448.4
MR_HR_Mine12	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	564,071.8	7,914,159.4	464.9
MR_HR_Mine13	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	564,074.0	7,914,258.9	491.3
MR_HR_Mine14	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	564,068.4	7,914,357.0	511.0
MR_HR_Mine15	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,994.8	7,914,420.5	535.4
MR_HR_Mine16	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,900.4	7,914,445.9	534.5
MR_HR_Mine17	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,804.0	7,914,467.2	539.5
MR_HR_Mine18	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,708.2	7,914,493.6	548.1
MR_HR_Mine19	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,610.1	7,914,505.8	558.0
MR_HR_Mine20	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,531.4	7,914,445.9	555.5
MR_HR_Mine22	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,334.7	7,914,411.9	575.1
MR_HR_Mine23	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,241.7	7,914,384.3	590.9
MR_HR_Mine24	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,174.4	7,914,312.9	597.5
MR_HR_Mine25	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,218.7	7,914,226.8	574.1
MR_HR_Mine26	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,247.9	7,914,132.2	550.7
MR_HR_Mine27	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,279.5	7,914,037.6	523.5
MR_HR_Mine28	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,297.4	7,913,939.7	505.1
MR_HR_Mine29	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,281.3	7,913,883.2	511.8
MR_HR_Mine30	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,231.1	7,913,967.6	540.5
MR_HR_Mine31	Mary River Haul Route - Mine to Primary Crusher	112	U	103.1	104.1	107.1	104.1	108.1	108.1	105.1	99.1	94.1	Mea	2.5	563,160.9	7,914,038.6	573.7
MR_Stacker01	Mary River - Lump Mobile Stacker 1 (2400-SK-004)	103	U	113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	562,421.4	7,912,445.7	211.0
MR_Stacker02	Mary River - Fines Mobile Stacker (2400-SK-002)	103	U	113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	562,227.6	7,912,615.5	203.9
MR_Stacker03	Mary River - Lump Mobile Stacker 2 (2400-SK-005)	103	U	113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	562,232.3	7,912,510.8	209.0
MR_Incinerator	Mary River - Incinerator	91	U	103.9	106.8	106.0	102.5	99.6	93.6	88.6			Man	5.8	560,712.5	7,913,456.7	192.6
MR_Reclaimer01	Mary River - Reclaimer 1	111	U	104.0	106.9	117.4	109.4	110.2	103.6	101.2	95.5	89.7	EC	3.0	562,289.2	7,912,563.7	204.6
MR_Reclaimer02	Mary River - Reclaimer 2	111	U	104.0	106.9	117.4	109.4	110.2	103.6	101.2	95.5	89.7	EC	3.0	562,259.5	7,912,489.2	210.7
MR_Grader01	Mary River - Grader 1	115	U	113.8	115.8	113.5	109.9	109.6	110.4	108.4	104.5	101.9	Mea	3.0	563,116.1	7,913,974.7	607.0
MR_Grader02	Mary River - Grader 2	115	U	113.8	115.8	113.5	109.9	109.6	110.4	108.4	104.5	101.9	Mea	3.0	563,336.2	7,913,082.3	278.2
MR_Dozer01	Mary River - Dozer 1	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	563,213.6	7,913,916.1	555.6
MR_Dozer02	Mary River - Dozer 2	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	563,100.2	7,913,996.3	610.0
MR_Dozer03	Mary River - Dozer 3	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	563,464.6	7,913,474.9	329.4
MR_Backhoe01	Mary River - Backhoe 1	110	U	103.9	106.8	117.4	109.3	110.0	102.5	99.6	93.6	88.6	Mea	3.0	562,351.4	7,912,616.2	206.4
MR_Shovel01	Mary River - Shovel 1	120	U	119.8	119.8	116.8	117.6	115.2	112.3	108.2	107.4		Man	3.0	563,064.9	7,914,079.0	612.3
MR_Shovel02	Mary River - Shovel 2	120	U	119.8	119.8	116.8	117.6	115.2	112.3	108.2	107.4		Man	3.0	563,122.1	7,914,125.9	594.7
MR_Shovel03	Mary River - Shovel 3	120	U	119.8	119.8	116.8	117.6	115.2	112.3	108.2	107.4		Man	3.0	563,109.2	7,914,061.0	596.9
MR Loader01	Mary River - Loader 1	112	U	109.3	106.2	116.3	112.7	107.9	107.1	102.7	96.4	94.2	Mea	3.0	558,976.5	7,914,363.2	179.0
MR_Drill01	Mary River - Drill 1	123	U	114.7	119.9	122.5	121.9	119.4	115.8	115.9	112.3	107.9	Mea	3.0	562,917.5	7,914,275.7	645.7
MR_Drill02	Mary River - Drill 2	123	U	114.7	119.9	122.5	121.9	119.4	115.8	115.9	112.3	107.9	Mea	3.0	562,792.5	7,914,306.3	613.7
MR_Drill03	Mary River - Drill 3	123	U	114.7	119.9	122.5	121.9	119.4	115.8	115.9	112.3	107.9	Mea	3.0	562,526.8	7,914,753.6	549.4
MR_Drill04	Mary River - Drill 4	123	U	114.7	119.9	122.5	121.9	119.4	115.8	115.9	112.3	107.9	Mea	3.0	563,650.5	7,914,663.8	582.5
MR_Drill05	Mary River - Drill 5	123	U	114.7	119.9	122.5	121.9	119.4	115.8	115.9	112.3	107.9	Mea	3.0	563,363.9	7,914,378.6	564.0
MR_PH_Gen_exh1	Mary River Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	561,124.8	7,913,442.0	205.0
MR_PH_Gen_exh3	Mary River Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	561,151.7	7,913,436.8	205.1
MR_PH_Gen_exh5	Mary River Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	561,153.8	7,913,433.9	205.2
MR_PH_chlr1	Mary River Powerhouse - Chiller	110	U	111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0		Man/EC	3.4	561,118.1	7,913,423.6	193.4
MR_PH_chlr3	Mary River Powerhouse - Chiller	110	U	111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0		Man/EC	3.4	561,143.1	7,913,418.9	193.4

Table 5D-2-1: Noise Source Data (Mine Site)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier
2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package
- L = Lagging
E = Acoustic Enclosure

EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	-1	

Source ID ⁽¹⁾	Source Description	Sound Power Level (dBA)	Existing Noise Control Measures ⁽¹⁾ (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ⁽²⁾	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
MR_PH_chlr5	Mary River Powerhouse - Chiller	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	Man/EC	3.4	561,159.0	7,913,415.6	193.4
MR_PH_intake1	Mary River Powerhouse - Intake Air Unit	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	EC	5.1	561,133.2	7,913,479.8	193.7
MR_PH_intake2	Mary River Powerhouse - Intake Air Unit	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	EC	5.1	561,139.2	7,913,478.6	193.7
MR_PH_intake3	Mary River Powerhouse - Intake Air Unit	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	EC	5.1	561,156.8	7,913,475.2	193.8
MR_PH_intake4	Mary River Powerhouse - Intake Air Unit	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	EC	5.1	561,162.8	7,913,474.1	193.8
MR_PH_intake5	Mary River Powerhouse - Roof Louvres	110	U	97.8	108.8	107.8	107.8	106.5	105.5	102.5	101.0	98.0	EC	5.1	561,168.6	7,913,472.9	193.9
MR_PH_Lou1	Mary River Powerhouse - Roof Louvres	120	U	107.5	118.5	117.5	117.5	116.3	115.3	112.3	110.9	107.8	EC	10.5	561,130.5	7,913,462.6	199.4
MR_PH_Lou2	Mary River Powerhouse - Roof Louvres	120	U	107.5	118.5	117.5	117.5	116.3	115.3	112.3	110.9	107.8	EC	10.5	561,136.4	7,913,461.4	199.4
MR_PH_Lou3	Mary River Powerhouse - Roof Louvres	120	U	107.5	118.5	117.5	117.5	116.3	115.3	112.3	110.9	107.8	EC	10.5	561,154.1	7,913,458.2	199.4
MR_PH_Lou4	Mary River Powerhouse - Roof Louvres	120	U	107.5	118.5	117.5	117.5	116.3	115.3	112.3	110.9	107.8	EC	10.5	561,160.0	7,913,457.2	199.4
MR_PH_Lou5	Mary River Powerhouse - Roof Louvres	120	U	107.5	118.5	117.5	117.5	116.3	115.3	112.3	110.9	107.8	EC	10.5	561,165.9	7,913,455.9	199.4
MR_Train_Th001	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,977.6	7,913,512.8	188.7
MR_Train_Th002	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,958.1	7,913,471.2	189.0
MR_Train_Th003	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,939.5	7,913,429.2	183.0
MR_Train_Th004	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,929.6	7,913,384.4	184.3
MR_Train_Th005	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,928.8	7,913,338.4	184.6
MR_Train_Th006	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,934.4	7,913,293.4	184.9
MR_Train_Th007	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,949.2	7,913,249.9	185.0
MR_Train_Th008	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,964.1	7,913,206.3	185.0
MR_Train_Th009	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	560,993.9	7,913,171.8	185.0
MR_Train_Th010	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,025.6	7,913,138.5	185.0
MR_Train_Th011	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,060.1	7,913,108.3	185.6
MR_Train_Th012	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,096.9	7,913,080.7	186.6
MR_Train_Th013	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,133.7	7,913,053.1	187.3
MR_Train_Th014	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,170.5	7,913,025.5	188.3
MR_Train_Th015	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,203.0	7,912,993.2	189.2
MR_Train_Th016	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,233.7	7,912,959.0	190.3
MR_Train_Th017	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,264.5	7,912,924.8	190.5
MR_Train_Th018	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,294.1	7,912,889.6	189.2
MR_Train_Th019	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,323.5	7,912,854.2	189.0
MR_Train_Th020	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,352.9	7,912,818.8	189.8
MR_Train_Th021	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,382.3	7,912,783.5	190.9
MR_Train_Th022	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,411.9	7,912,748.3	191.0
MR_Train_Th023	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,441.8	7,912,713.3	191.0
MR_Train_Th024	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,471.7	7,912,678.4	191.0
MR_Train_Th025	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,504.5	7,912,646.2	191.0
MR_Train_Th026	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,541.4	7,912,618.8	191.0
MR_Train_Th027	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,581.2	7,912,595.9	191.8
MR_Train_Th028	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,622.3	7,912,575.4	193.0
MR_Train_Th029	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,664.2	7,912,556.5	193.0
MR_Train_Th030	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,706.2	7,912,537.5	193.0
MR_Train_Th031	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,748.1	7,912,518.6	194.2
MR_Train_Th032	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,790.0	7,912,499.6	194.1
MR_Train_Th033	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,831.9	7,912,480.6	194.5
MR_Train_Th034	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,872.2	7,912,458.6	195.0
MR_Train_Th035	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,911.8	7,912,435.2	195.9
MR_Train_Th036	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,949.9	7,912,409.4	194.7
MR_Train_Th037	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	561,988.0	7,912,383.6	194.1
MR_Train_Th038	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,025.9	7,912,357.6	193.0
MR_Train_Th039	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,063.5	7,912,331.1	193.8
MR_Train_Th040	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,101.2	7,912,304.7	195.9
MR_Train_Th041	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,138.8	7,912,278.2	198.2
MR_Train_Th042	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,176.4	7,912,251.7	199.0
MR_Train_Th043	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,214.0	7,912,225.3	197.1
MR_Train_Th044	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,251.7	7,912,198.8	196.4
MR_Train_Th045	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,289.3	7,912,172.3	196.0

Table 5D-2-1: Noise Source Data (Mine Site)

0940977 Baffinland, Mary River EA

Notes to Table:

1. Noise Control Measures
- S = Silencer
- A = Acoustic lining, plenum
- B = Barrier
- L = Lagging
- E = Acoustic Enclosure

2. Sound Power Level Data Source
- Man = Manufacturer's Data
- Mea = Measured Directly
- Pre = Pre-tender Package
- EC = Engineering Calc based on specifications
- Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	-1	

Source ID ⁽¹⁾	Source Description	Sound Power Level (dBA)	Existing Noise Control Measures ⁽¹⁾	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ⁽²⁾	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
MR_Train_Th046	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,326.9	7,912,145.9	195.0
MR_Train_Th047	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,364.5	7,912,119.4	195.0
MR_Train_Th048	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,402.4	7,912,093.3	194.1
MR_Train_Th049	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,441.6	7,912,069.3	193.0
MR_Train_Th050	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,481.8	7,912,047.0	193.0
MR_Train_Th051	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,521.5	7,912,023.7	195.0
MR_Train_Th052	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,561.7	7,912,001.6	193.2
MR_Train_Th053	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,604.2	7,911,984.1	187.7
MR_Train_Th054	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,648.3	7,911,970.9	187.7
MR_Train_Th055	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,692.3	7,911,957.7	188.3
MR_Train_Th056	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,736.5	7,911,944.7	187.3
MR_Train_Th057	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,780.7	7,911,932.1	188.5
MR_Train_Th058	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,823.9	7,911,916.5	192.9
MR_Train_Th059	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,867.8	7,911,902.7	193.0
MR_Train_Th060	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,912.0	7,911,889.8	193.0
MR_Train_Th061	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	562,956.1	7,911,876.9	193.1
MR_Train_Th062	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,000.2	7,911,863.9	193.5
MR_Train_Th063	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,044.3	7,911,850.6	193.9
MR_Train_Th064	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,088.0	7,911,836.5	194.1
MR_Train_Th065	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,131.3	7,911,820.8	194.2
MR_Train_Th066	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,173.8	7,911,803.3	193.0
MR_Train_Th067	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,215.0	7,911,783.0	193.4
MR_Train_Th068	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,255.6	7,911,761.4	193.0
MR_Train_Th069	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,295.9	7,911,739.2	192.6
MR_Train_Th070	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,333.6	7,911,712.7	194.3
MR_Train_Th071	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,370.7	7,911,685.6	192.8
MR_Train_Th072	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,407.0	7,911,657.4	191.4
MR_Train_Th073	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,442.2	7,911,627.8	189.9
MR_Train_Th074	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,476.4	7,911,597.1	190.0
MR_Train_Th075	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,510.6	7,911,566.2	191.0
MR_Train_Th076	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,544.7	7,911,535.4	191.0
MR_Train_Th077	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,578.9	7,911,504.6	190.7
MR_Train_Th078	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,612.9	7,911,473.6	191.0
MR_Train_Th079	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,646.8	7,911,442.5	192.8
MR_Train_Th080	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,680.7	7,911,411.4	193.5
MR_Train_Th081	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,712.5	7,911,378.3	194.1
MR_Train_Th082	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,742.9	7,911,343.8	193.0
MR_Train_Th083	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,771.7	7,911,307.9	193.0
MR_Train_Th084	Mary River Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	563,800.0	7,911,271.7	193.0
MR_Train01	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	560,944.9	7,913,443.2	185.5
MR_Train02	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	560,949.6	7,913,248.9	187.5
MR_Train03	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,073.7	7,913,098.1	188.5
MR_Train04	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,225.1	7,912,968.7	192.7
MR_Train05	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,354.8	7,912,816.5	192.4
MR_Train06	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,484.3	7,912,664.2	193.5
MR_Train07	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,654.2	7,912,561.0	195.5
MR_Train08	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	561,836.4	7,912,478.6	197.2
MR_Train09	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,005.4	7,912,371.8	196.0
MR_Train10	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,169.0	7,912,256.9	201.6
MR_Train11	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,332.6	7,912,141.8	197.5
MR_Train12	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,501.7	7,912,035.4	196.1
MR_Train13	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,685.6	7,911,959.7	191.0
MR_Train14	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	562,876.4	7,911,900.2	195.5
MR_Train15	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	563,068.1	7,911,842.9	196.6
MR_Train16	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	563,251.3	7,911,763.8	195.5
MR_Train17	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	563,415.4	7,911,650.3	193.5

Table 5D-2-1: Noise Source Data (Mine Site)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier

L = Lagging
E = Acoustic Enclosure
2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package

EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	-1	

Source ID ⁽¹⁾	Source Description	Sound Power Level (dBA)	Existing Noise Control Measures ⁽¹⁾ (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ⁽²⁾	Height Above Grade (m)	Source Co-ordinate (m)		
															X	Y	Z
				31.5	63	125	250	500	1000	2000	4000	8000					
MR_Train18	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	563,564.8	7,911,517.3	193.5
MR_Train19	Mary River Train	102	U	109.6	104.8	100.9	105.4	99.2	93.9	93.1	89.3	86.3	Mea	3.5	563,710.5	7,911,380.6	196.6
MR_Dozer04	Mary River - Dozer 4 - Stockpile	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	561,491.1	7,913,186.0	198.5
MR_Stacker04	Mary River - Lump Mobile Stacker 4	103	U	113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	561,421.7	7,913,310.9	200.6
MR_Stacker05	Mary River - Lump Mobile Stacker 5	103	U	113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	561,337.7	7,913,212.2	195.9
MR_Dozer05	Mary River - Dozer 5 - Waste Rock Stockpile	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	563,041.6	7,916,101.9	597.3
MR_2100_CV_002	Conveyor from 2100-TT-001 to 2100-TT-002	93	U						93.0				EC	Various	Various	Various	Various
MR_2200_CV_002	Conveyor from 2200-TT-001 to 2200-TT-002	93	U						93.0				EC	Various	Various	Various	Various
MR_2200_CV_009	Conveyor from 2200-TT-001 to 2200-TT-002	93	U						93.0				EC	Various	Various	Various	Various
MR_2300_CV_005	Conveyor from 2200-TT-002 to 2300-TT-001	93	U						93.0				EC	Various	Various	Various	Various
MR_2300_CV_012	Conveyor from 2300-TT-001 to 2300-TT-002 to Rail Load Out	93	U						93.0				EC	Various	Various	Various	Various
MR_HR_ToteRd	Tote rd to mine	87	U	71.2	71.5	84.7	87.7	86.2	76.5	80.5	75.1	69.4	EC	2.5	Various	Various	Various
MR_HR_Stockpile	Haul Route - Crusher to Stockpile	85	U	76.2	77.2	80.2	77.2	81.2	81.2	78.2	72.2	67.2	EC	2.5	Various	Various	Various
MR_PH_Roof	Power House - Roof	107	U	119.7	126.7	120.7	106.7	90.6	88.6	82.6	82.2	78.1	EC	10.3	Various	Various	Various
MR_PH_W	Power House - West Face	99	U	111.6	118.6	112.6	98.6	82.4	80.4	74.4	73.9	69.8	EC	10.2	Various	Various	Various
MR_PH_N	Power House - North Face	101	U	113.9	120.9	114.9	100.9	84.7	82.7	76.7	76.2	72.2	EC	10.2	Various	Various	Various
MR_PH_S	Power House - South Face	102	U	115.3	122.3	116.3	102.3	86.0	84.0	78.0	77.5	73.5	EC	10.2	Various	Various	Various
MR_PH_E	Power House - East Face	93	U	106.0	113.0	107.0	93.0	76.7	74.7	68.7	68.3	64.2	EC	Various	Various	Various	Various
MR_Sec_Cru_V1	Secondary Crusher Conveyor Vent 1	123	U	116.2	119.6	119.7	118.2	118.6	118.0	117.0	113.5	108.5	Mea	Various	Various	Various	Various
MR_Sec_Cru_V2	Secondary Crusher Conveyor Vent 2	123	U	116.2	119.6	119.7	118.2	118.6	118.0	117.0	113.5	108.5	Mea	Various	Various	Various	Various
MR_Pri_Scr_V1	Primary Screening Tower Vent 1	117	U	114.6	118.6	114.9	109.1	111.7	111.0	111.6	108.4	103.1	Mea	Various	Various	Various	Various
MR_Pri_Scr_V2	Primary Screening Tower Vent 2	117	U	114.6	118.6	114.9	109.1	111.7	111.0	111.6	108.4	103.1	Mea	Various	Various	Various	Various
MR_Pri_Scr_V3	Primary Screening Tower Vent 3	117	U	114.6	118.6	114.9	109.1	111.7	111.0	111.6	108.4	103.1	Mea	Various	Various	Various	Various
MR_Pri_Scr_V4	Primary Screening Tower Vent 4	117	U	114.6	118.6	114.9	109.1	111.7	111.0	111.6	108.4	103.1	Mea	Various	Various	Various	Various
MR_Pri_Scr_V5	Primary Screening Tower Vent 5	117	U	114.6	118.6	114.9	109.1	111.7	111.0	111.6	108.4	103.1	Mea	Various	Various	Various	Various
MR_Rail_BD1	Bay Door 1 on Rail Loadout	107	U	109.5	112.8	107.2	106.1	106.9	101.1	96.8	91.6	92.8	EC	0.1	Various	Various	Various
MR_Rail_BD2	Bay Door 2 on Rail Loadout	107	U	109.5	112.8	107.2	106.1	106.9	101.1	96.8	91.6	92.8	EC	0.1	Various	Various	Various
MR_Pri_Cru	Primary Crusher Vent	121	U	114.4	117.8	117.9	116.4	116.8	116.2	115.2	111.7	106.7	Mea	Various	Various	Various	Various

Table 5D-2-2: Noise Source Data (Milne Port)

0940977 Baffinland, Mary River EA

Notes to Table:

1. Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier
2. Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package
- L = Lagging
E = Acoustic Enclosure
- EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network								
-39	-26	-16	-9	-3	0	1	1	-1

Source ID ^[1]	Source Description	Sound Power Level ^[2] (dBA)	Existing Noise Control Measures ^[5] (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ^[6]	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
SI_PH_chlr1	Milne Powerhouse - Chiller	110	U	/	111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	503,480.4	7,975,593.8	18.2
SI_PH_chlr2	Milne Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	503,472.4	7,975,593.6	17.8
SI_PH_chlr3	Milne Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	503,447.0	7,975,593.5	16.6
SI_PH_chlr4	Milne Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	503,439.0	7,975,593.4	16.2
SI_PH_intake1	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,482.4	7,975,535.7	20.9
SI_PH_intake2	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,476.3	7,975,535.7	20.6
SI_PH_intake3	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,470.6	7,975,535.7	20.4
SI_PH_intake4	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,452.3	7,975,535.6	19.5
SI_PH_intake5	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,446.6	7,975,535.5	19.3
SI_PH_intake6	Milne Powerhouse - Intake Air Unit	112	U	99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	503,440.5	7,975,535.5	18.9
SI_PH_Gen_exh1	Milne Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	503,477.4	7,975,574.5	30.3
SI_PH_Gen_exh2	Milne Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	503,477.4	7,975,576.9	30.2
SI_PH_Gen_exh3	Milne Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	503,447.4	7,975,574.3	28.8
SI_PH_Gen_exh4	Milne Powerhouse Generator - Exhaust	151	S	117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	503,447.4	7,975,576.8	28.7
SI_PH_Lou1	Milne Powerhouse - Roof Louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,481.8	7,975,553.2	26.7
SI_PH_Lou2	Milne Powerhouse - Roof Louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,475.7	7,975,553.1	26.7
SI_PH_Lou3	Milne Powerhouse - Roof Louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,469.8	7,975,553.1	26.7
SI_PH_Lou4	Milne Powerhouse - Roof louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,451.8	7,975,552.8	26.7
SI_PH_Lou5	Milne Powerhouse - Roof louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,445.8	7,975,552.8	26.7
SI_PH_Lou6	Milne Powerhouse - Roof louvres	121	U	108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	503,439.8	7,975,552.7	26.7
MI_Shipload01	Milne ship loading	110	U	112.5	115.8	110.2	109.1	109.9	104.1	99.8	94.6	95.8	Mea	2.0	503,317.4	7,976,615.0	3.6
MI_Ship_Power01	Milne ship power	104	U	/	115.0	116.0	104.0	96.0	95.0	94.0	86.0	79.0	Mea	7.0	503,046.3	7,976,616.4	9.0
MI_Incinerator	Milne - Incinerator	91	U		88.0	86.0	82.0	92.0	84.0	81.0	77.0	72.0	Man	5.8	503,331.8	7,975,555.8	18.3
MI_Reclaim01	Milne - Dozer as reclaimer1	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	503,904.0	7,975,191.5	66.6
MI_Reclaim02	Milne - Dozer as reclaimer2	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	503,934.8	7,975,145.4	72.7
MI_Reclaim03	Milne - Dozer as reclaimer3	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	503,904.9	7,974,745.1	65.3
MI_Reclaim04	Milne - Dozer as reclaimer4	116	U	113.8	117.9	115.0	107.2	110.1	112.6	109.6	105.6	99.9	Mea	3.0	503,951.8	7,974,816.3	76.9
MI_Shipload02	Milne ship loading	110	U	112.5	115.8	110.2	109.1	109.9	104.1	99.8	94.6	95.8	Mea	2.0	503,181.8	7,976,618.5	3.7
MI_HR_ToteRd	Milne haul route - Mary River to Milne	87	U	71.2	71.5	84.7	87.7	86.2	76.5	80.5	75.1	69.4	EC	2.5	Various	Various	Various
MI_conv02	Milne Conveyor from stockpile to ship, part 2	93	U	/	/	/	/	93.0	/	/	/	/	EC	Various	Various	Various	Various
MI_conv01	Milne Conveyor from stockpile to ship, part 1	93	U					93.0					EC	Various	Various	Various	Various
SI_PH_Roof	Power House - Roof	108	U	121.0	128.0	122.0	108.0	91.8	89.8	83.8	83.5	79.3	EC	10.3	Various	Various	Various
SI_PH_N	Power House - North Face	102	U	115.2	122.2	116.2	102.2	85.9	83.9	77.9	77.5	73.4	EC	10.2	Various	Various	Various
SI_PH_E	Power House - East Face	94	U	107.2	114.2	108.2	94.2	77.9	75.9	69.9	69.4	65.4	EC	10.2	Various	Various	Various
SI_PH_S	Power House - South Face	104	U	116.6	123.6	117.6	103.6	87.3	85.3	79.3	78.7	74.7	EC	10.2	Various	Various	Various
SI_PH_W	Power House - West Fase	100	U	112.8	119.8	113.8	99.8	83.6	81.6	75.6	75.1	71.0	EC	10.2	Various	Various	Various

Table 5D-2-3: Noise Source Data (Steensby Port)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier
2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package
- L = Lagging
E = Acoustic Enclosure

EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	1	-1

Source ID ^[1]	Source Description	Sound Power Level ^[2] (dBA)	Existing Noise Control Measures ^[3] (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)								PWL Data Source ^[6]	Height Above Grade (m)	Source Co-ordinate (m)				
				31.5	63	125	250	500	1000	2000	4000			8000	X	Y	Z	
SI_Incinerator	Steensby - Incinerator	91	U		88.0	86.0	82.0	92.0	84.0	81.0	77.0	72.0	Man	5.8	595,384.7	7,803,136.7	32.8	
SI_PH_chlr1	Steensby Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	595,998.7	7,803,410.7	27.5	
SI_PH_chlr2	Steensby Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	595,991.5	7,803,407.3	27.8	
SI_PH_chlr3	Steensby Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	595,968.3	7,803,397.1	28.9	
SI_PH_chlr4	Steensby Powerhouse - Chiller	110	U		111.1	106.0	107.5	107.1	104.9	101.7	98.9	96.0	Man/EC	3.4	595,960.9	7,803,393.8	29.5	
SI_PH_intake1	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	596,023.9	7,803,358.3	34.0
SI_PH_intake2	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	596,018.3	7,803,355.8	34.3
SI_PH_intake3	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	596,013.1	7,803,353.5	34.2
SI_PH_intake4	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	595,996.4	7,803,346.1	34.1
SI_PH_intake5	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	595,991.1	7,803,343.8	34.2
SI_PH_intake6	Steensby Powerhouse - Intake Air Unit	112	U		99.0	110.0	109.0	109.0	107.8	106.8	103.8	102.2	99.2	EC	5.1	595,985.5	7,803,341.3	34.3
SI_PH_Gen_exh1	Steensby Powerhouse Generator - Exhaust	151	S		117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	596,003.7	7,803,391.8	40.6
SI_PH_Gen_exh2	Steensby Powerhouse Generator - Exhaust	151	S		117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	596,002.7	7,803,394.0	40.3
SI_PH_Gen_exh3	Steensby Powerhouse Generator - Exhaust	151	S		117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	595,976.3	7,803,379.6	41.9
SI_PH_Gen_exh4	Steensby Powerhouse Generator - Exhaust	151	S		117.0	116.0	115.0	115.0	119.0	125.0	130.0	150.0	135.0	Man	15.2	595,975.3	7,803,381.9	41.7
SI_Stacker01	Steensby - Fines Stacker (4100-SK-001)	103	U		113.1	111.8	106.9	100.4	99.3	100.2	94.7	87.5	82.3	Mea	3.0	593,754.6	7,800,064.2	16.5
SI_StkRclm	Steensby - Lump Stacker/reclaimer (4100-SK-002)	111	U		104.0	106.9	117.4	109.4	110.2	103.6	101.2	95.5	89.7	EC	3.0	593,748.1	7,800,206.9	22.3
SI_Rclm01	Steensby - Lump reclaimer (4100-RC-001)	111	U		104.0	106.9	117.4	109.4	110.2	103.6	101.2	95.5	89.7	EC	3.0	593,317.8	7,799,490.6	20.9
SI_PH_Lou1	Steensby Powerhouse - Roof Louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	596,016.3	7,803,374.0	38.8
SI_PH_Lou2	Steensby Powerhouse - Roof Louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	596,010.8	7,803,371.5	38.8
SI_PH_Lou3	Steensby Powerhouse - Roof Louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	596,005.4	7,803,369.2	38.8
SI_PH_Lou4	Steensby Powerhouse - Roof louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	595,989.0	7,803,361.7	38.8
SI_PH_Lou5	Steensby Powerhouse - Roof louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	595,983.5	7,803,359.3	38.8
SI_PH_Lou6	Steensby Powerhouse - Roof louvres	121	U		108.7	119.7	118.7	118.7	117.4	116.4	113.4	111.9	108.9	EC	10.5	595,978.0	7,803,356.7	38.8
SI_Shipload01	Steensby Ship loading	110	U		112.5	115.8	110.2	109.1	109.9	104.1	99.8	94.6	95.8	Mea	2.0	592,644.8	7,799,038.9	3.1
SI_Shipload02	Steensby Ship loading	110	U		112.5	115.8	110.2	109.1	109.9	104.1	99.8	94.6	95.8	Mea	2.0	592,647.7	7,799,256.5	3.1
SI_Ship_Power01	Steensby Ship Power	104	U		115.0	116.0	104.0	96.0	95.0	94.0	86.0	79.0		Mea	7.0	592,694.5	7,799,148.2	8.1
SI_Train_Th001	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,719.7	7,801,470.4	41.8
SI_Train_Th002	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,749.8	7,801,435.6	42.5
SI_Train_Th003	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,779.9	7,801,400.8	44.0
SI_Train_Th004	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,809.8	7,801,365.9	45.9
SI_Train_Th005	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,839.8	7,801,331.0	51.6
SI_Train_Th006	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,869.7	7,801,296.0	53.5
SI_Train_Th007	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,899.6	7,801,261.1	52.9
SI_Train_Th008	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,929.5	7,801,226.2	49.5
SI_Train_Th009	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,959.5	7,801,191.2	46.0
SI_Train_Th010	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,989.4	7,801,156.3	47.8
SI_Train_Th011	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,019.2	7,801,121.3	47.0
SI_Train_Th012	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,049.0	7,801,086.2	49.3
SI_Train_Th013	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,078.8	7,801,051.2	53.1
SI_Train_Th014	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,108.6	7,801,016.2	55.6
SI_Train_Th015	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,142.5	7,800,985.1	65.3
SI_Train_Th016	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,178.4	7,800,956.6	60.5
SI_Train_Th017	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,219.0	7,800,935.2	55.7
SI_Train_Th018	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,262.6	7,800,921.1	56.2
SI_Train_Th019	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,307.7	7,800,911.8	57.9
SI_Train_Th020	Steensby Train - Knuckle Thump	103	U		104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,352.7	7,800,902.6	61.0

Table 5D-2-3: Noise Source Data (Steensby Port)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier
- L = Lagging
E = Acoustic Enclosure
2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package
- EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	1	-1

Source ID ^[1]	Source Description	Sound Power Level ^[2] (dBA)	Existing Noise Control Measures ^[3] (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ^[6]	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
SI_Train_Th021	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,397.9	7,800,894.0	61.0
SI_Train_Th022	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,443.2	7,800,885.5	61.0
SI_Train_Th023	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,488.4	7,800,877.1	64.5
SI_Train_Th024	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,533.6	7,800,868.7	68.6
SI_Train_Th025	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,577.9	7,800,856.7	67.5
SI_Train_Th026	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,618.4	7,800,835.4	61.3
SI_Train_Th027	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,655.9	7,800,809.1	56.6
SI_Train_Th028	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,686.6	7,800,775.4	56.0
SI_Train_Th029	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,712.6	7,800,737.4	56.0
SI_Train_Th030	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,733.0	7,800,696.6	56.0
SI_Train_Th031	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,744.5	7,800,652.3	52.8
SI_Train_Th032	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,749.1	7,800,606.7	51.0
SI_Train_Th033	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,746.1	7,800,560.9	50.5
SI_Train_Th034	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,733.7	7,800,516.6	48.0
SI_Train_Th035	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,715.2	7,800,474.7	47.0
SI_Train_Th036	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,688.9	7,800,437.4	44.8
SI_Train_Th037	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,658.5	7,800,402.9	41.5
SI_Train_Th038	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,621.0	7,800,376.4	37.2
SI_Train_Th039	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,580.2	7,800,355.4	35.9
SI_Train_Th040	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,536.4	7,800,342.0	35.4
SI_Train_Th041	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,490.9	7,800,336.7	36.4
SI_Train_Th042	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,445.1	7,800,338.9	39.0
SI_Train_Th043	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,400.1	7,800,347.9	48.9
SI_Train_Th044	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,357.6	7,800,365.4	47.6
SI_Train_Th045	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,319.3	7,800,390.6	40.4
SI_Train_Th046	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,282.8	7,800,418.5	42.8
SI_Train_Th047	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,247.5	7,800,448.0	47.4
SI_Train_Th048	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,212.2	7,800,477.5	56.6
SI_Train_Th049	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,176.8	7,800,506.9	55.3
SI_Train_Th050	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,141.5	7,800,536.4	48.7
SI_Train_Th051	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,106.2	7,800,565.9	40.8
SI_Train_Th052	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,070.9	7,800,595.3	37.5
SI_Train_Th053	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,035.5	7,800,624.8	36.2
SI_Train_Th054	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,000.2	7,800,654.3	33.5
SI_Train_Th055	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,964.9	7,800,683.8	32.0
SI_Train_Th056	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,929.6	7,800,713.2	32.4
SI_Train_Th057	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,894.0	7,800,742.4	34.5
SI_Train_Th060	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,788.0	7,800,830.7	40.9
SI_Train_Th061	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,752.8	7,800,860.3	41.1
SI_Train_Th062	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,717.6	7,800,889.9	39.4
SI_Train_Th063	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,682.4	7,800,919.5	40.1
SI_Train_Th064	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,647.0	7,800,949.0	43.5
SI_Train_Th065	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,611.6	7,800,978.4	48.8
SI_Train_Th066	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,576.4	7,801,007.9	51.0
SI_Train_Th067	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,541.7	7,801,038.1	48.8
SI_Train_Th068	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,509.7	7,801,071.2	43.4
SI_Train_Th069	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,480.7	7,801,106.8	37.2

Table 5D-2-3: Noise Source Data (Steensby Port)

0940977 Baffinland, Mary River EA

Notes to Table:

1.

Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier

L = Lagging
E = Acoustic Enclosure
2.

Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package

EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	1	-1

Source ID ^[1]	Source Description	Sound Power Level ^[2] (dBA)	Existing Noise Control Measures ^[3] (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)									PWL Data Source ^[6]	Height Above Grade (m)	Source Co-ordinate (m)		
				31.5	63	125	250	500	1000	2000	4000	8000			X	Y	Z
SI_Train_Th070	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,455.4	7,801,145.2	36.0
SI_Train_Th071	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,433.7	7,801,185.7	35.9
SI_Train_Th072	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,415.6	7,801,228.0	35.9
SI_Train_Th073	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,401.6	7,801,271.7	39.1
SI_Train_Th074	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,391.1	7,801,316.5	42.2
SI_Train_Th075	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,385.0	7,801,362.1	49.7
SI_Train_Th076	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,384.4	7,801,408.0	48.2
SI_Train_Th077	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,386.6	7,801,453.9	42.7
SI_Train_Th078	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,393.4	7,801,499.4	41.8
SI_Train_Th079	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,404.3	7,801,544.0	41.6
SI_Train_Th080	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,418.2	7,801,587.9	44.0
SI_Train_Th081	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,432.3	7,801,631.7	50.2
SI_Train_Th082	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,446.3	7,801,675.5	50.2
SI_Train_Th083	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,460.3	7,801,719.3	44.2
SI_Train_Th084	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,474.3	7,801,763.1	41.3
SI_Train_Th085	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,488.1	7,801,807.0	41.0
SI_Train_Th086	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,502.3	7,801,850.8	41.0
SI_Train_Th087	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,518.3	7,801,893.9	41.0
SI_Train_Th088	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,535.0	7,801,936.7	39.9
SI_Train_Th089	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,553.9	7,801,978.5	37.3
SI_Train_Th090	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,576.7	7,802,018.5	35.9
SI_Train_Th091	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,599.5	7,802,058.5	35.0
SI_Train_Th092	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,622.2	7,802,098.4	30.7
SI_Train_Th093	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,645.0	7,802,138.4	29.5
SI_Train_Th094	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,666.7	7,802,178.9	28.9
SI_Train_Th095	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,688.4	7,802,219.5	32.5
SI_Train_Th096	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,710.0	7,802,260.1	37.0
SI_Train_Th097	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,731.6	7,802,300.8	39.5
SI_Train_Th098	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,753.2	7,802,341.4	40.8
SI_Train_Th099	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,774.8	7,802,382.0	39.9
SI_Train_Th100	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,796.4	7,802,422.6	39.2
SI_Train_Th101	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,819.4	7,802,462.4	42.6
SI_Train_Th102	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,842.6	7,802,502.1	42.1
SI_Train_Th103	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,866.1	7,802,541.7	37.9
SI_Train_Th104	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,891.2	7,802,580.1	30.9
SI_Train_Th105	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,920.2	7,802,615.8	28.4
SI_Train_Th106	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,953.4	7,802,647.5	26.0
SI_Train_Th107	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	594,990.5	7,802,674.6	26.0
SI_Train_Th108	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,030.9	7,802,696.4	26.0
SI_Train_Th109	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,072.4	7,802,716.4	27.8
SI_Train_Th110	Steensby Train - Knuckle Thump	103	U	104.3	108.2	103.7	97.2	97.6	97.6	96.2	93.7	93.5	EC	1.0	595,114.0	7,802,736.0	31.0
SI_Ship_Power02	Steensby Ship Power	104	U		115.0	116.0	104.0	96.0	95.0	94.0	86.0	79.0	Mea	7.0	592,607.1	7,799,187.9	8.1
SI_4100_CV_001	Conveyor from 4100-RR-001 to 4100-TT-001	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_002	Conveyor from 4100-TT-001 to Screen Feed Bin	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_004	Conveyor from Screen Feed Bin to 4100-TT-003	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_005	Conveyor from 4100-TT-003 to Fines Stack (4100-SK-001)	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_006	Conveyor from Screen Feed Bin to 4100-TT-004	93	U					93.0					EC	Various	Various	Various	Various

Table 5D-2-3: Noise Source Data (Steensby Port)

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Notes to Table:

1. Noise Control Measures
S = Silencer
A = Acoustic lining, plenum
B = Barrier

L = Lagging
E = Acoustic Enclosure
2. Sound Power Level Data Source
Man = Manufacturer's Data
Mea = Measured Directly
Pre = Pre-tender Package

EC = Engineering Calc based on specifications
Same ### = same type as source no. ###

A-Weighting Network									
-39	-26	-16	-9	-3	0	1	1	1	-1

Source ID ^[1]	Source Description	Sound Power Level ^[2] (dBA)	Existing Noise Control Measures ^[5] (S,A,B,L,E,O,U)	1/1 Octave Band Sound Power Level Data (dB, if available)								PWL Data Source ^[6]	Height Above Grade (m)	Source Co-ordinate (m)			
				31.5	63	125	250	500	1000	2000	4000			8000	X	Y	Z
SI_4100_CV_007	Conveyor from 4100-TT-004 to 4200-TT-001	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_010	Conveyor from 4200-TT-001 to 4200-TT-003	93	U					93.0					EC	Various	Various	Various	Various
SI_4100_CV_013	Conveyor from 4200-TT-003 to Shiploader	93	U					93.0					EC	Various	Various	Various	Various
SI_Train	Steensby Inlet - Train	76	U	83.6	78.8	74.9	79.4	73.2	67.9	67.1	63.3	60.3	EC	Various	Various	Various	Various
SI_PH_Roof	Power House - Roof	108	U	121.0	128.0	122.0	108.0	91.8	89.8	83.8	83.5	79.3	EC	10.3	Various	Various	Various
SI_PH_N	Power House - North Face	102	U	115.2	122.2	116.2	102.2	85.9	83.9	77.9	77.5	73.4	EC	10.2	Various	Various	Various
SI_PH_E	Power House - East Face	94	U	107.2	114.2	108.2	94.2	77.9	75.9	69.9	69.4	65.4	EC	10.2	Various	Various	Various
SI_PH_S	Power House - South Face	104	U	116.6	123.6	117.6	103.6	87.3	85.3	79.3	78.7	74.7	EC	10.2	Various	Various	Various
SI_PH_W	Power House - West Face	100	U	112.8	119.8	113.8	99.8	83.6	81.6	75.6	75.1	71.0	EC	10.2	Various	Various	Various
SI_Scr_Bin_V1	Screen Feed Bin Vent 1	119	U	116.8	120.8	117.1	111.3	113.9	113.2	113.8	110.6	105.3	Mea	41.6	Various	Various	Various
SI_Scr_Bin_V2	Screen Feed Bin Vent 2	119	U	116.8	120.8	117.1	111.3	113.9	113.2	113.8	110.6	105.3	Mea	15.4	Various	Various	Various
SI_Scr_Bin_V3	Screen Feed Bin Vent 3	119	U	116.8	120.8	117.1	111.3	113.9	113.2	113.8	110.6	105.3	Mea	15.4	Various	Various	Various
SI_Rail_Dump_V1	Rotary Rail Dumper Door 1	109	U					108.7					EC	39.7	Various	Various	Various
SI_Rail_Dump_V2	Rotary Rail Dumper Door 2	109	U					108.7					EC	34.1	Various	Various	Various