

APPENDIX B.2.1
NOISE IMPACT ASSESSMENT TABLES FOR STUDY AREA 1

- FEIS SELECTED ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1
- MODIFIED SELECTED ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1
- NO-ACTION ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1

FEIS SELECTED ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1

Receptor		Existing Sound Level (dBA)	FEIS Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
64	Commercial/Industrial	75.2	70.9	-4.3	F (NA)	NA	NA
65	Butchertown HD	62.1	71.5	9.4	67	Yes	Yes
66	Waterfront Park	67.9	64.3	-3.6	67	No	No
67	Waterfront Park	61.3	68.6	7.3	67	Yes	No
68	Butchertown HD	67.7	71.0	3.3	67	Yes	No
69	Commercial/Phoenix Hill HD	71.3	69.3	-2.0	67	Yes	No
70	Residential	70.0	67.9	-2.1	67	Yes	No
71	Medical/Commercial	69.3	65.4	-3.9	67	No	No
72	Hospital	73.5	55.3	-18.2	67	No	No
H27	Butchertown HD/Trail	71.3	74.6	3.3	67	Yes	No
H28	Butchertown HD	70.1	74.4	4.3	67	Yes	No
H29	Butchertown HD	73.1	77.3	4.2	67	Yes	No
H38	Phoenix Hill HD	65.0	67.9	2.9	67	Yes	No
H39	Phoenix Hill HD	69.5	71.0	1.5	67	Yes	No
H40	West Main Street	69.0	63.7	-5.3	72	No	No
H41	L&N Railroad Office	65.8	65.5	-0.3	72	No	No
H42	Belle of Louisville	70.8	69.9	-0.9	67	Yes	No
H75	Butchertown HD	60.6	62.0	1.4	67	No	No
H76	Butchertown HD	70.1	56.0	-14.1	67	No	No
H77	Butchertown HD	71.0	59.0	-12.0	67	No	No
H78	Butchertown HD	66.4	60.5	-5.9	67	No	No
H79	Residential	63.2	66.8	3.6	67	Yes	No
H80	Louisville Medical	69.6	69.8	0.2	67	Yes	No
H81	Ahrens Trade School	71.3	67.0	-4.3	67	Yes	No
H89	Butchertown HD	56.2	64.0	7.8	67	No	Yes

Receptor		Existing Sound Level (dBA)	FEIS Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
1a	Peace Green Park	68.7	63.6	-5.1	67	No	No
1b	YMCA	NA	57.5	NA	67	No	NA
1c	Jefferson Tech College	NA	74.3	NA	67	Yes	NA
2a	William Booth Park	NA	66.9	NA	67	Yes	NA
2b	Phoenix Hill HD	NA	66.1	NA	67	Yes	NA
2c	Louisville Slugger Field	NA	68.1	NA	67	Yes	NA
2d	Louisville Slugger Field	NA	66.4	NA	67	Yes	NA
3a	Residential	68.7	69.4	0.7	67	Yes	No
3b	Waterfront Park	NA	69.6	NA	67	Yes	NA
4a	Waterfront Park	66.2	70.6	4.4	67	Yes	No
4b	Trail	NA	69.2	NA	67	Yes	NA
5a	Waterfront Park	NA	68.8	NA	67	Yes	NA
5b	Trail	NA	67.5	NA	67	Yes	NA
5c	Waterfront Park	NA	61.6	NA	67	No	NA
8a	Butchertown HD	NA	70.0	NA	67	Yes	NA
8b	Butchertown HD	NA	71.2	NA	67	Yes	NA
8c	Butchertown HD	NA	74.5	NA	67	Yes	NA
9a	Clifton Park	66.1	69.7	3.6	67	Yes	No
9b	Residential	NA	62.4	NA	67	No	NA
9c	Residential	NA	55.5	NA	67	No	NA
9d	Residential	NA	71.4	NA	67	Yes	NA
9e	Residential	NA	62.2	NA	67	No	NA
9f	Residential	NA	58.1	NA	67	No	NA
9g	Residential	NA	62.1	NA	67	No	NA
9h	Residential	NA	73.0	NA	67	Yes	NA
9i	Residential	NA	59.3	NA	67	No	NA

Receptor		Existing Sound Level (dBA)	FEIS Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
10a	Residential/Commercial	66.3	69.4	3.1	67	Yes	No
10b	Residential/Trail	NA	73.7	NA	67	Yes	NA
10c	Residential/Commercial	NA	63.6	NA	67	No	NA
10d	Residential/Commercial	NA	57.6	NA	67	No	NA
10e	Residential/Commercial	NA	69.5	NA	67	Yes	NA
10f	Residential/Commercial	NA	60.2	NA	67	No	NA
11a	Story Avenue Park	65.7	68.8	3.1	67	Yes	No
11b	Butchertown HD/Trail	NA	70.8	NA	67	Yes	NA
11c	Butchertown HD	NA	68.4	NA	67	Yes	NA
11d	Butchertown HD	NA	65.4	NA	67	No	NA
11e	Butchertown HD	NA	60.5	NA	67	No	NA
11f	Butchertown HD	NA	70.1	NA	67	Yes	NA
11g	Butchertown HD	NA	67.4	NA	67	Yes	NA
11h	Butchertown HD	NA	64.4	NA	67	No	NA
12a	Butchertown HD	NA	59.1	NA	67	No	NA
13a	Commercial	63.6	66.1	2.5	72	No	No
13b	Residential	NA	52.1	NA	67	No	NA
13c	Residential/Church	NA	64.8	NA	67	No	NA
13d	Residential	NA	64.9	NA	67	No	NA
13e	Phoenix Hill HD /Church	NA	66.0	NA	67	Yes	NA
13f	Phoenix Hill HD	NA	61.6	NA	67	No	NA
13g	Phoenix Hill HD	NA	66.5	NA	67	Yes	NA
13h	Butchertown HD	NA	64.5	NA	67	No	NA
13i	Extreme Sports Park	NA	70.0	NA	67	Yes	NA
14a	Hospital	NA	70.8	NA	67	Yes	NA

MODIFIED SELECTED ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1

Receptor		Existing Sound Level (dBA)	Modified Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
64	Commercial/Industrial	75.2	68.1	-7.1	F (NA)	NA	NA
65	Butchertown HD	62.1	69.2	7.1	67	Yes	Yes
66	Waterfront Park	67.9	66.3	-1.6	67	Yes	No
67	Waterfront Park	61.3	68.8	7.5	67	Yes	No
68	Butchertown HD	67.7	71.0	3.3	67	Yes	No
69	Com./Phoenix Hill HD	71.3	70.8	-0.5	67	Yes	No
70	Residential	70.0	67.7	-2.3	67	Yes	No
71	Medical/Commercial	69.3	66.9	-2.4	67	Yes	No
72	Hospital	73.5	55.5	-18.0	67	No	No
H27	Butchertown HD/Trail	71.3	72.1	0.8	67	Yes	No
H28	Butchertown HD	70.1	73.5	3.4	67	Yes	No
H29	Butchertown HD	73.1	74.8	1.7	67	Yes	No
H38	Phoenix Hill HD	65.0	64.9	-0.1	67	No	No
H39	Phoenix Hill HD	69.5	71.5	2.0	67	Yes	No
H40	West Main Street	69.0	63.3	-5.7	72	No	No
H41	L&N Railroad Office	65.8	63.6	-2.2	72	No	No
H42	Belle of Louisville	70.8	70.0	-0.8	67	Yes	No
H75	Butchertown HD	60.6	59.5	-1.1	67	No	No
H76	Butchertown HD	70.1	53.9	-16.2	67	No	No
H77	Butchertown HD	71.0	56.5	-14.5	67	No	No
H78	Butchertown HD	66.4	58.2	-8.2	67	No	No
H79	Residential	63.2	64.4	1.2	67	No	No
H80	Louisville Medical	69.6	66.9	-2.7	67	Yes	No
H81	Ahrens Trade School	71.3	64.2	-7.1	67	No	No
H89	Butchertown HD	56.2	59.9	3.7	67	No	No
1a	Peace Green Park	68.7	61.3	-7.4	67	No	No

Receptor		Existing Sound Level (dBA)	Modified Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
1b	YMCA	NA	56.0	NA	67	No	NA
1c	Jefferson Tech College	NA	73.3	NA	67	Yes	NA
2a	William Booth Park	NA	66.3	NA	67	Yes	NA
2b	Phoenix Hill HD	NA	66.0	NA	67	Yes	NA
2c	Louisville Slugger Field	NA	66.1	NA	67	Yes	NA
2d	Louisville Slugger Field	NA	65.2	NA	67	No	NA
3a	Residential	68.7	67.7	-1.0	67	Yes	No
3b	Waterfront Park	NA	68.8	NA	67	Yes	NA
4a	Waterfront Park	66.2	70.6	4.4	67	Yes	No
4b	Trail	NA	68.4	NA	67	Yes	NA
5a	Waterfront Park	NA	69.3	NA	67	Yes	NA
5b	Trail	NA	69.4	NA	67	Yes	NA
5c	Waterfront Park	NA	64.2	NA	67	No	NA
8a	Butchertown HD	NA	66.8	NA	67	Yes	NA
8b	Butchertown HD	NA	66.9	NA	67	Yes	NA
8c	Butchertown HD	NA	72.1	NA	67	Yes	NA
9a	Clifton Park	66.1	68.7	2.6	67	Yes	No
9b	Residential	NA	62.5	NA	67	No	NA
9c	Residential	NA	55.5	NA	67	No	NA
9j	Residential	NA	71	NA	67	Yes	NA
9k	Residential	NA	58	NA	67	No	NA
10a	Residential/Commercial	66.3	68.8	2.5	67	Yes	No
11a	Story Avenue Park	65.7	67.3	1.6	67	Yes	No
11b	Butchertown HD/Trail	NA	66.2	NA	67	Yes	NA
11c	Butchertown HD	NA	65.0	NA	67	No	NA
11d	Butchertown HD	NA	61.3	NA	67	No	NA

Receptor		Existing Sound Level (dBA)	Modified Selected Alternative (2030) (dBA)	Difference Between Existing and 2030 Build (dBA)	Applicable Noise Abatement Criteria Level	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
11e	Butchertown HD	NA	57.3	NA	67	No	NA
11f	Butchertown HD	NA	71.9	NA	67	Yes	NA
11g	Butchertown HD	NA	67.2	NA	67	Yes	NA
11h	Butchertown HD	NA	62.3	NA	67	No	NA
12a	Butchertown HD	NA	53.8	NA	67	No	NA
13a	Commercial	63.6	64.4	0.8	72	No	No
13b	Residential	NA	53.7	NA	67	No	NA
13c	Residential/Church	NA	66.2	NA	67	Yes	NA
13d	Residential	NA	62.7	NA	67	No	NA
13e	Phoenix Hill HD /Church	NA	64.5	NA	67	No	NA
13f	Phoenix Hill HD	NA	60.6	NA	67	No	NA
13g	Phoenix Hill HD	NA	60.2	NA	67	No	NA
13h	Butchertown HD	NA	60.4	NA	67	No	NA
13i	Extreme Sports Park	NA	69.5	NA	67	Yes	NA
14a	Hospital	NA	70.7	NA	67	Yes	NA

NO-ACTION ALTERNATIVE IMPACT ASSESSMENT FOR STUDY AREA 1

Receptor		Existing Sound Level (dBA)	2030 No Action Alternative (2030) (dBA)	Difference Between Existing and 2030 No Action (dBA)	Applicable Noise Abatement Criteria Levels	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
64	Commercial/Industrial	75.2	67.5	-7.7	F (NA)	NA	NA
65	Butchertown HD	62.1	67.9	5.8	67	Yes	Yes
66	Waterfront Park	67.9	65.1	-2.8	67	No	No
67	Waterfront Park	61.3	68.9	7.6	67	Yes	No
68	Butchertown HD	67.7	68.2	0.5	67	Yes	No
69	Commercial/Phoenix Hill HD	71.3	68.6	-2.7	67	Yes	No
70	Residential	70.0	67.8	-2.2	67	Yes	No
71	Medical/Commercial	69.3	68.7	-0.6	67	Yes	No
72	Hospital	73.5	55.4	-18.1	67	No	No
H27	Butchertown HD/Trail	71.3	72.5	1.2	67	Yes	No
H28	Butchertown HD	70.1	72.6	2.5	67	Yes	No
H29	Butchertown HD	73.1	75.1	2.0	67	Yes	No
H38	Phoenix Hill HD	65.0	67.4	2.4	67	Yes	No
H39	Phoenix Hill HD	69.5	69.9	0.4	67	Yes	No
H40	West Main Street	69.0	66.9	-2.1	72	No	No
H41	L&N Railroad Office	65.8	64.7	-1.1	72	No	No
H42	Belle of Louisville	70.8	69.8	-1.0	67	Yes	No
H75	Butchertown HD	60.6	59.0	-1.6	67	No	No
H76	Butchertown HD	70.1	52.9	-17.2	67	No	No
H77	Butchertown HD	71.0	55.0	-16.0	67	No	No
H78	Butchertown HD	66.4	57.1	-9.3	67	No	No
H79	Residential	63.2	67.2	4.0	67	Yes	No
H80	Louisville Medical	69.6	67.2	-2.4	67	Yes	No
H81	Ahrens Trade School	71.3	64.9	-6.4	67	No	No
H89	Butchertown HD	56.2	57.2	1.0	67	No	No

Receptor		Existing Sound Level (dBA)	2030 No Action Alternative (2030) (dBA)	Difference Between Existing and 2030 No Action (dBA)	Applicable Noise Abatement Criteria Levels	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
1a	Peace Green Park	68.7	66.2	-2.5	67	Yes	No
1b	YMCA	NA	57.2	NA	67	No	NA
1c	Jefferson Tech College	NA	74.5	NA	67	Yes	NA
2a	William Booth Park	NA	66.6	NA	67	Yes	NA
2b	Phoenix Hill HD	NA	65.3	NA	67	No	NA
2c	Louisville Slugger Field	NA	66.2	NA	67	Yes	NA
2d	Louisville Slugger Field	NA	64.7	NA	67	No	NA
3a	Residential	68.7	68.1	-0.6	67	Yes	No
3b	Waterfront Park	NA	68.9	NA	67	Yes	NA
4a	Waterfront Park	66.2	70.8	4.6	67	Yes	No
4b	Trail	NA	69.0	NA	67	Yes	NA
5a	Waterfront Park	NA	67.1	NA	67	Yes	NA
5b	Trail	NA	68.9	NA	67	Yes	NA
5c	Waterfront Park	NA	62.7	NA	67	No	NA
8a	Butchertown HD	NA	66.4	NA	67	Yes	NA
8b	Butchertown HD	NA	67.1	NA	67	Yes	NA
8c	Butchertown HD	NA	72.6	NA	67	Yes	NA
9a	Clifton Park	66.1	68.4	2.3	67	Yes	No
9b	Residential	NA	61.3	NA	67	No	NA
9c	Residential	NA	56.6	NA	67	No	NA
9d	Residential	NA	69.6	NA	67	Yes	NA
9e	Residential	NA	61.3	NA	67	No	NA
9f	Residential	NA	57.4	NA	67	No	NA
9g	Residential	NA	61.2	NA	67	No	NA
9h	Residential	NA	70.5	NA	67	Yes	NA
9i	Residential	NA	57.6	NA	67	No	NA

Receptor		Existing Sound Level (dBA)	2030 No Action Alternative (2030) (dBA)	Difference Between Existing and 2030 No Action (dBA)	Applicable Noise Abatement Criteria Levels	Noise Impact/Type	
						Approach or Exceed NAC?	Substantial Increase Over Existing?
10a	Residential/Commercial	66.3	67.7	1.4	67	Yes	No
10b	Residential/Trail	NA	71.0	NA	67	Yes	NA
10c	Residential/Commercial	NA	61.8	NA	67	No	NA
10d	Residential/Commercial	NA	56.6	NA	67	No	NA
10e	Residential/Commercial	NA	67.7	NA	67	Yes	NA
10f	Residential/Commercial	NA	59.3	NA	67	No	NA
11a	Story Avenue Park	65.7	66.9	1.2	67	Yes	No
11b	Butchertown HD/Trail	NA	66.4	NA	67	Yes	NA
11c	Butchertown HD	NA	65.1	NA	67	No	NA
11d	Butchertown HD	NA	60.2	NA	67	No	NA
11e	Butchertown HD	NA	56.8	NA	67	No	NA
11f	Butchertown HD	NA	70.5	NA	67	Yes	NA
11g	Butchertown HD	NA	66.4	NA	67	Yes	NA
11h	Butchertown HD	NA	61.6	NA	67	No	NA
12a	Butchertown HD	NA	54.1	NA	67	No	NA
13a	Commercial	63.6	66.8	3.2	72	No	No
13b	Residential	NA	55.2	NA	67	No	NA
13c	Residential/Church	NA	62.8	NA	67	No	NA
13d	Residential	NA	63.0	NA	67	No	NA
13e	Phoenix Hill HD /Church	NA	65.6	NA	67	No	NA
13f	Phoenix Hill HD	NA	61.1	NA	67	No	NA
13g	Phoenix Hill HD	NA	60.2	NA	67	No	NA
13h	Butchertown HD	NA	58.7	NA	67	No	NA
13i	Extreme Sports Park	NA	65.9	NA	67	No	NA
14a	Hospital	NA	69.7	NA	67	Yes	NA