



THE PENNSYLVANIA HIGH-SPEED MAGLEV PROJECT

Alternatives Refined and Environmental Studies

Preliminary Alternatives Impact Analysis

FEATURE	Airport to Downtown Pittsburgh (Airport to Steel Plaza MAGport™ Station)				Downtown to Monroeville (Steel Plaza to Thompson Run MAGport™ Station)			Monroeville to Greensburg* (Thompson Run to Greensburg MAGport™ Station)				
	MAGport™ Stations**			Alignment	MAGport™ Station**	Alignment		MAGport™ Station**	Alignment		MAGport™ Station**	Alignment
	Airport Maint. Facility	Radar Site and Landside Terminal	Steel Plaza	A5	Thompson Run	B4 Option #1 (Rail)	B4 Option #2 (Turnpike)	Greengate Mall	C2 Modification #1	C5	Toll 66 and PA 136	C6
Engineering Features												
Length (miles)				18		18	19		17	18		19
Speed Criteria - 240 mph (Yes / No)				Yes		No	No		Yes	Yes		Yes
Natural Environmental Features												
Wetlands (number / acres)	0	9 / 1	0	27 / 2	3 / 1	5 / 2	12 / 1	0	34 / 3	35 / 2	0	34 / 4
Number of Stream Crossings	7	16	0	69	7	22	38	0	91	91	3	107
Lineal Feet of Stream Impacts	2,182	2,699	0	7,607	5,842	1,457	3,845	0	12,988	12,823	419	20,535
100-year Floodplain (acres)	0	0	0	13	29	13	17	0	22	23	1	18
Forest Land (acres)	35	72	0	193	130	52	67	4	207	219	17	334
Range Land (acres)	13	16	0	51	8	2	5	10	37	18	0	41
Threatened and Endangered Species	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Cultural Resources												
National Register Potentially Eligible or Listed Structures or Sites	0	0	2	5	1	4	4	0	1	2	0	0
National Register Eligible or Listed Districts	0	0	1	1	1	2	2	0	0	0	0	0
National Register Eligible or Listed Railroads (aerial crossing or shared corridor)	0	0	1	6	1	9	9	1	2	2	1	2
Archaeological Potential (sites / acres)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Displacements												
Residential Structures / Units	0	0	0	64	40	20	31	0	90	95	0	59
Commercial Structures / Units	0	0	1	18	39	19	19	0	7	7	1	13
Community Facilities	0	0	0	1	2	4	3	3	5	5	0	4
Pending Developments (# of lots / acres)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Agricultural Areas												
Productive Agriculture (# of operators / acres)	0	0	0	0	0	0	0	0	9 / 43	9 / 41	5	6 / 51
Agricultural Security Areas (ASA) (# of ASA's / acres)	0	0	0	0	0	0	0	0	7 / 64	4 / 48	0	5 / 47
Productive Agriculture in ASA (acres)	0	0	0	0	0	0	0	0	4 / 33	6 / 32	0	3 / 31
Section 4(f) Resources												
Public Parks and Recreation Areas	0	0	0	0	2	4	4	1	4	3	0	3
Historic Resources	0	0	3	6	2	6	6	0	1	2	0	0
Other Features												
Potentially Contaminated Areas (# of sites / acres)	0	0	0	28 / 18	11 / 262	29 / 20	26 / 21	1 / 1	13 / 6	9 / 5	1	13 / 5

Potential impacts based on the following preliminary impact zones:

- Moderate to Dense Residential Areas - 30.5 m (100 feet) each side of alignment centerline
- Low Density Residential Areas - 10.7 m (35 feet) each side of alignment centerline
- Urban / Industrial Areas - 7.6 m (25 feet) each side of alignment centerline
- Allegheny Valley Railroad - 5.3 m (17.5 feet) each side of alignment centerline
- Cut Areas - Top of cut plus 6.1 m (20 feet)
- MAGport™ Station - Footprint of station design
- Infrastructure Improvements - Extent of necessary improvements plus 6.1 m (20 feet) each side

- N/A - Not Applicable
- TBD - To be determined by current and future studies

* This section includes impacts in both Allegheny and Westmoreland County

** MAGport™ Station impacts include Station plus infrastructure improvements