

TRAFFIC GENERATION AND DISTRIBUTION

INBOUND (TO SITE)		Regional Origins						Destination		
		Stage	Daily Generation	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon	Northern Access	Southern Access
				70%	5%	0%	20%	5%		
Heavy Vehicles	1a	20 vpd	14	1	0	4	1	90%	10%	
	1b	15 vpd	11	1	0	3	1	90%	10%	
	2a	15 vpd	11	1	0	3	1	10%	90%	
	2b	20 vpd	14	1	0	4	1	10%	90%	
Light Vehicles	Stage	Daily Generation	60%	5%	15%	15%	5%			
	1a	150 vpd	90	8	23	23	8	90%	10%	
	1b	30 vpd	18	2	5	5	2	90%	10%	
	2a	30 vpd	18	2	5	5	2	10%	90%	
	2b	150 vpd	90	8	23	23	8	10%	90%	

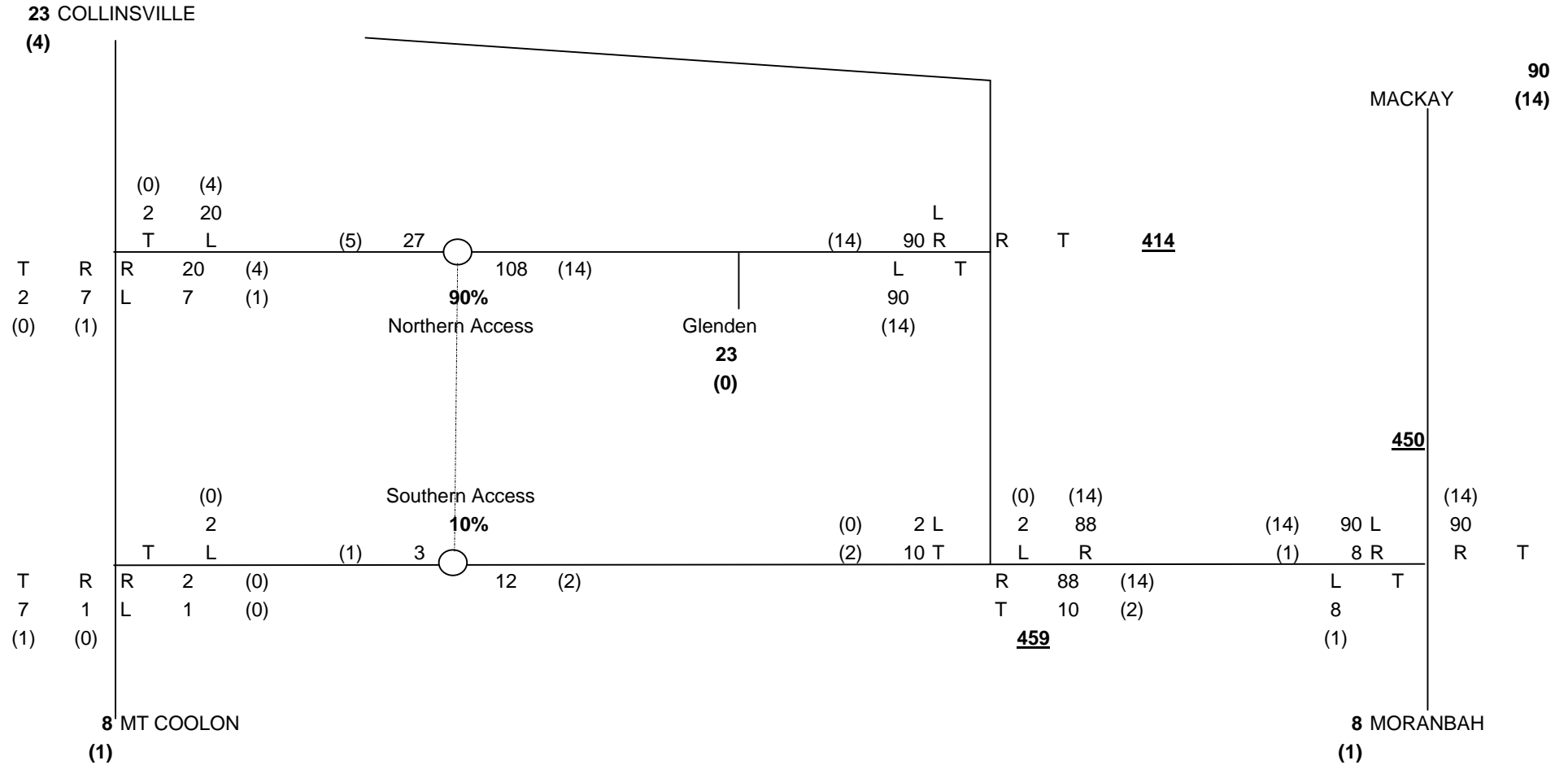
OUTBOUND (FROM SITE)		Regional Destination						Origin		
		Stage	Daily Generation	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon	Northern Access	Southern Access
				70%	5%	0%	20%	5%		
Heavy Vehicles	1a	20 vpd	14	1	0	4	1	90%	10%	
	1b	15 vpd	11	1	0	3	1	90%	10%	
	2a	15 vpd	11	1	0	3	1	10%	90%	
	2b	20 vpd	14	1	0	4	1	10%	90%	
Light Vehicles	Stage	Daily Generation	60%	5%	15%	15%	5%			
	1a	150 vpd	90	8	23	23	8	90%	10%	
	1b	30 vpd	18	2	5	5	2	90%	10%	
	2a	30 vpd	18	2	5	5	2	10%	90%	
	2b	150 vpd	90	8	23	23	8	10%	90%	

Northern Missing Link
Construction Traffic

TRAFFIC DISTRIBUTION

STAGE 1A (NORTHERN ACCESS AS PRIMARY ACCESS)

## Light Vehicles Per Day	## Intersection Total Volumes
(##) Heavy Vehicles Per Day	

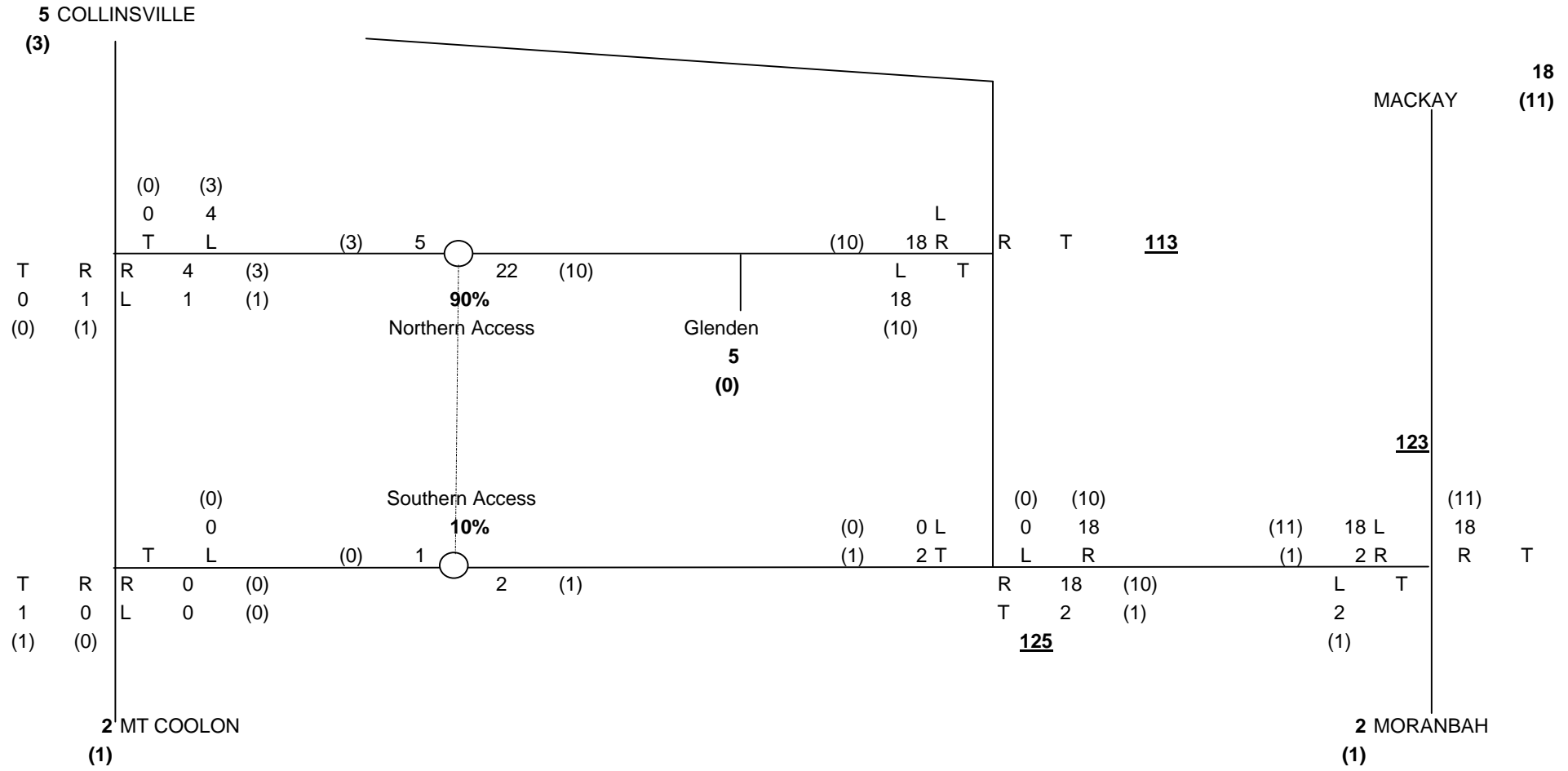


Northern Missing Link
Construction Traffic

TRAFFIC DISTRIBUTION

STAGE 1B (NORTHERN ACCESS AS PRIMARY ACCESS)

## Light Vehicles Per Day	## Intersection Total Volumes
(##) Heavy Vehicles Per Day	

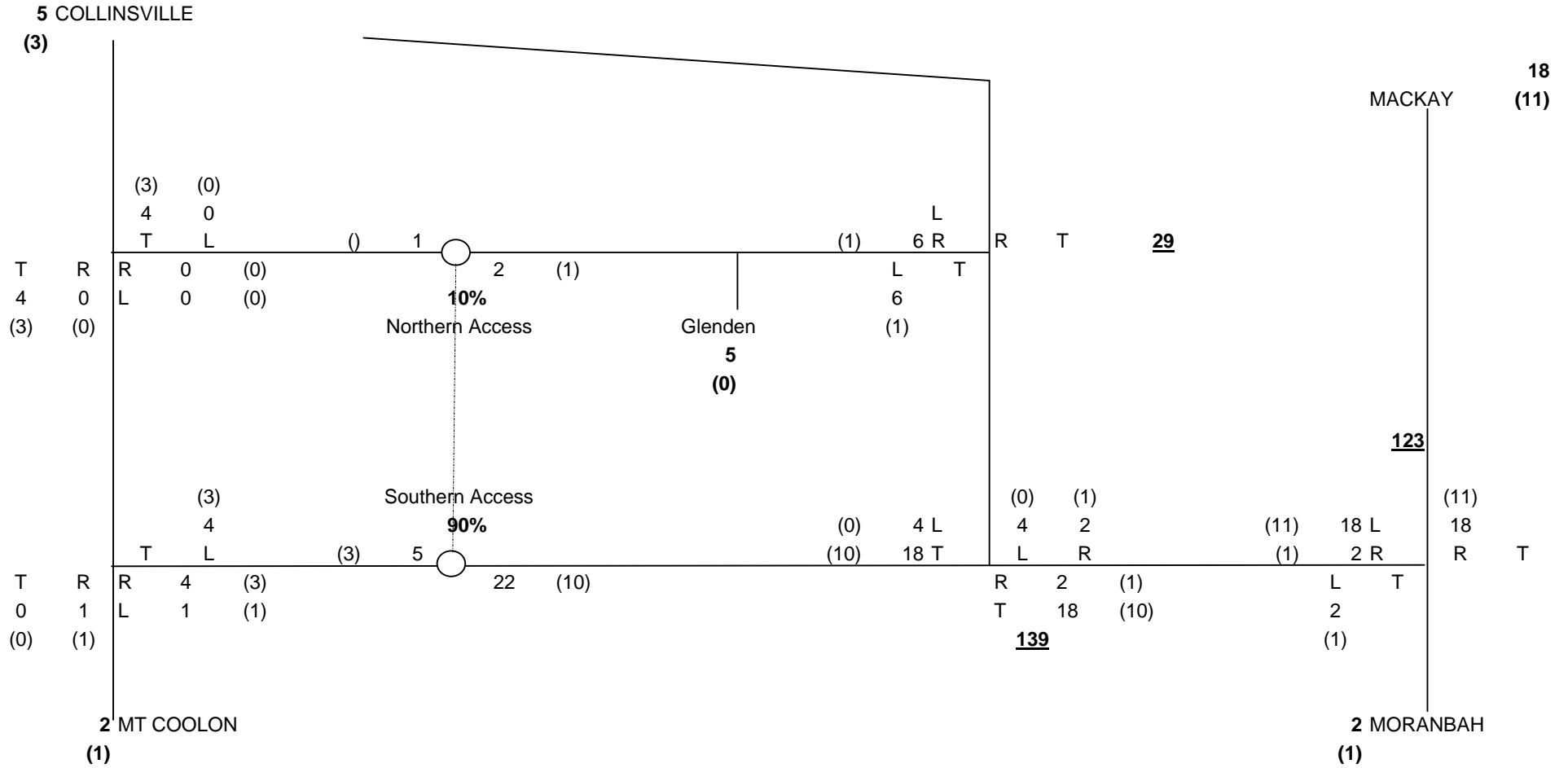


Northern Missing Link
Construction Traffic

TRAFFIC DISTRIBUTION

STAGE 2A (SOUTHERN ACCESS AS PRIMARY ACCESS)

## Light Vehicles Per Day	## Intersection Total Volumes
(##) Heavy Vehicles Per Day	

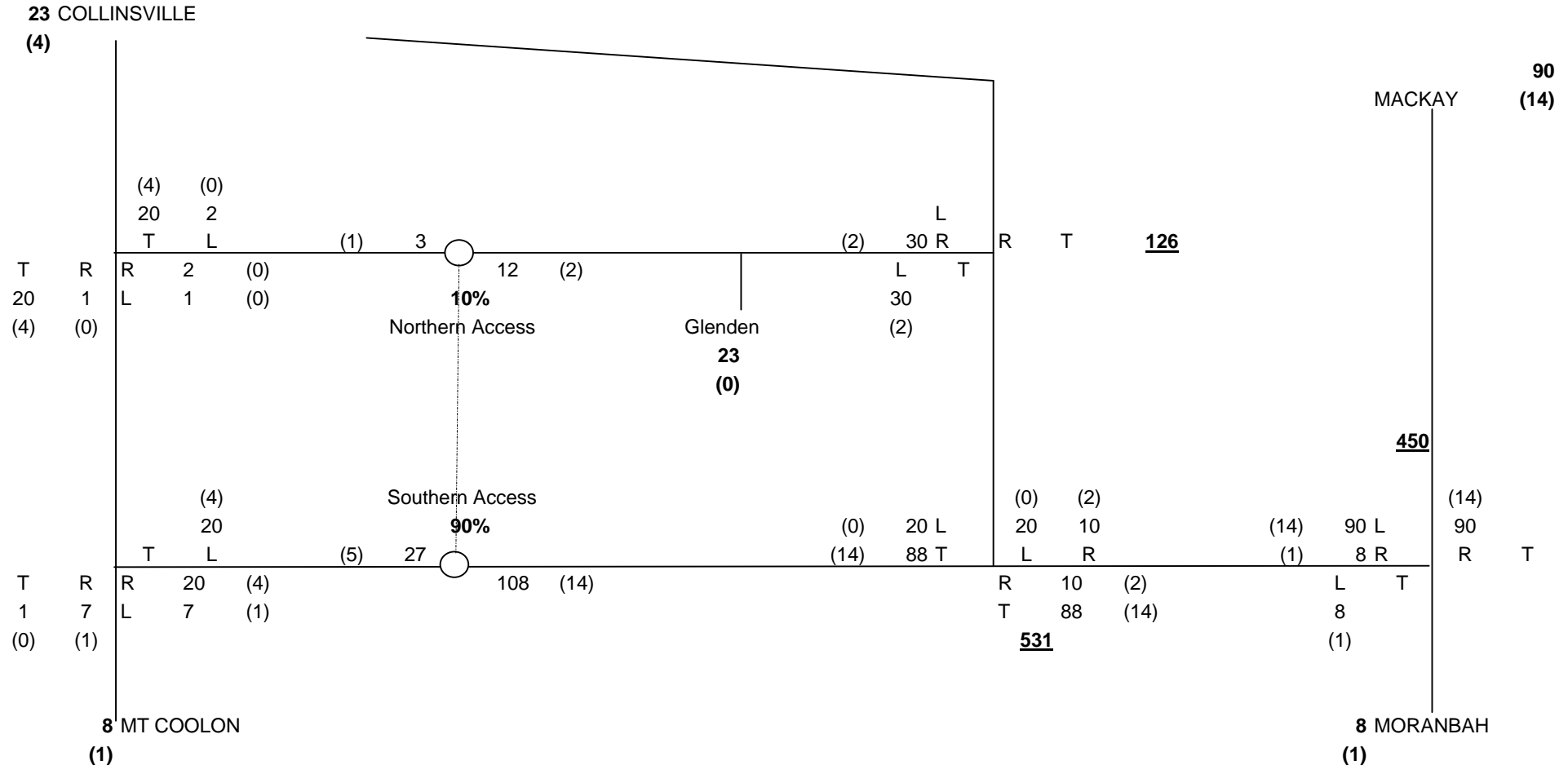


Northern Missing Link
Construction Traffic

TRAFFIC DISTRIBUTION

STAGE 2B (SOUTHERN ACCESS AS PRIMARY ACCESS)

## Light Vehicles Per Day	## Intersection Total Volumes
(##) Heavy Vehicles Per Day	



CONSTRUCTION TRAFFIC ESA CALCULATIONS

ASSUMED ESA TRUCK LOADINGS

Supply Truck	Loaded	4.88 ESA/veh
	Unloaded	1.26 ESA/veh
Equipment Trucks	Loaded	7.33 ESA/veh
	Unloaded	1.89 ESA/veh

		Regional Origins								
		Stage	Total	Heavy Vehicles %Split	Supply	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon
						70%	5%	0%	20%	5%
Supply Trucks	1a	20 vpd	20%	4 vpd	3	0	0	1	0	
	1b	15 vpd	80%	12 vpd	8	1	0	2	1	
	2a	15 vpd	80%	12 vpd	8	1	0	2	1	
	2b	20 vpd	20%	4 vpd	3	0	0	1	0	
Equipment Trucks	1a	20 vpd	80%	16 vpd	11	1	0	3	1	
	1b	15 vpd	20%	3 vpd	2	0	0	1	0	
	2a	15 vpd	20%	3 vpd	2	0	0	1	0	
	2b	20 vpd	80%	16 vpd	11	1	0	3	1	

ESAs		Regional Origins						Total
		Supply Trucks	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon	
			70%	5%	0%	20%	5%	
Supply Trucks	1a	14	1	0	4	1	20	
	1b	41	3	0	12	3	59	
	2a	41	3	0	12	3	59	
	2b	14	1	0	4	1	20	
Equipment Trucks	1a	82	6	0	23	6	117	
	1b	15	1	0	4	1	22	
	2a	15	1	0	4	1	22	
	2b	82	6	0	23	6	117	

ESA calculations assume loaded vehicles in both directions

COMBINED DAILY INBOUND ESAs						Total
1a	96	7	0	27	7	137
1b	56	4	0	16	4	81
2a	56	4	0	16	4	81
2b	96	7	0	27	7	137

		Regional Destination								
		Stage	Total	Heavy Vehicles %Split	Supply	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon
						70%	5%	0%	20%	5%
Supply Trucks	1a	20 vpd	20%	4 vpd	3	0	0	1	0	
	1b	15 vpd	80%	12 vpd	8	1	0	2	1	
	2a	15 vpd	80%	12 vpd	8	1	0	2	1	
	2b	20 vpd	20%	4 vpd	3	0	0	1	0	
Equipment Trucks	1a	20 vpd	80%	16 vpd	11	1	0	3	1	
	1b	15 vpd	20%	3 vpd	2	0	0	1	0	
	2a	15 vpd	20%	3 vpd	2	0	0	1	0	
	2b	20 vpd	80%	16 vpd	11	1	0	3	1	

ESAs		Regional Destination						Total
		Supply Trucks	Mackay	Moranbah	Glenden	Collinsville	Mt Coolon	
			70%	5%	0%	20%	5%	
Supply Trucks	1a	14	1	0	4	1	20	
	1b	41	3	0	12	3	59	
	2a	41	3	0	12	3	59	
	2b	14	1	0	4	1	20	
Equipment Trucks	1a	82	6	0	23	6	117	
	1b	15	1	0	4	1	22	
	2a	15	1	0	4	1	22	
	2b	82	6	0	23	6	117	

ESA calculations assume loaded vehicles in both directions

COMBINED DAILY OUTBOUND ESAs						Total
1a	96	7	0	27	7	137
1b	56	4	0	16	4	81
2a	56	4	0	16	4	81
2b	96	7	0	27	7	137

COMBINED DAILY TWO-WAY ESAs						Total
1a	191	14	0	55	14	274
1b	113	8	0	32	8	161
2a	113	8	0	32	8	161
2b	191	14	0	55	14	274

Access Split		Mackay		Moranbah		Glenden		Collinsville		Mt Coolon			
		North	South	North	South	North	South	North	South	North	South		
1a	30 days	90%	10%	5169	574	369	41	0	0	1477	164	369	41
1b	251 days	90%	10%	25436	2826	1817	202	0	0	7267	807	1817	202
2a	251 days	10%	90%	2826	25436	202	1817	0	0	807	7267	202	1817
2b	15 days	10%	90%	287	2585	21	185	0	0	82	738	21	185

33718	31421	2408	2244	0	0	9634	8977	2408	2244
65139		4653		0		18611		4653	

EXISTING TRAFFIC AND ASSUMPTIONS

Road DMR	Road	Location Description	Current Traffic					DMR nominated Growth Rate		
			Count Year	AADT	Comm	% Comm	Assumed ESA's/Comm	ESA/Day	Heavy Vehicles	All Vehicles
HAULAGE TO SITE										
33B	Nebo - Mackay Road	North of Suttor Developmental Road	2004	2429	372	15.3%	3.2	1189	9.69%	8.80%
		South of Suttor Developmental Road	2004	1678	257	15.3%	3.2	822	9.69%	8.80%
82A	Nebo - Mt. Coolon Road	West of Nebo - Mackay Road	2004	751	150	19.9%	3.2	479	13.29%	10.23%
		West of Collinsville - Elphinstone Road	2004	270	60	22.4%	3.2	193	8.12%	4.29%
		East of southern access	2004	61	19	31.6%	3.2	62	22.84%	25.87%
		West of southern access	2004	61	19	31.6%	3.2	62	22.84%	25.87%
5307	Collinsville - Elphinstone Road	North of Newlands Mine Road	2004	102	18	18.0%	3.2	59	26.44%	0.19%
		North of Suttor Developmental Road	2004	435	73	16.8%	3.2	234	7.06%	5.14%
88B	Bowen Developmental - Certio-Elphinstone Road	North of Suttor Developmental Road	2004	51	9	18%	3.2	29	26.44%	15.92%
		South of Collinsville - Elphinstone Road	2004	120	22	18%	3.2	69	26.44%	1.28%
		North of Collinsville - Elphinstone Road	2004	328	59	18%	3.2	189		
Future	Newlands Mine Road	West of Collinsville - Elphinstone Road	2005	410	69	16.8%	3.2	221	7.06%	5.14%
BALLAST HAULAGE										
10K	Bruce Highway	North of Bowen Developmental Road	2004	4036	629	16%	3.2	2012	26.44%	3.64%
88A	Bowen Developmental Road	South of Bruce Highway	2004	1633	278	17%	3.2	888	26.44%	1.48%

2008 TRAFFIC AND ASSUMPTIONS

Road DMR	Road	Location Description	2008 Background Traffic					No of Haulage Days	2008 Background Traffic Avg ESAs (18 mnth construction period)	Construction Haulage (ESAs)	% Overall ESA's
			AADT	Comm	% Comm	Assumed ESA's/Com	ESA/Day				
HAULAGE TO SITE											
33B	Nebo - Mackay Road	North of Suttor Developmental Road	3284	516	15.7%	3.2	1650	546	900900	65139	6.7%
		South of Suttor Developmental Road	2269	356	15.3%	3.2	1140	546	622440	4653	0.7%
82A	Nebo - Mt. Coolon Road	West of Nebo - Mackay Road	1058	229	21.7%	3.2	734	546	400764	69792	14.8%
		West of Collinsville - Elphinstone Road	316	80	25.3%	3.2	256	546	139776	33665	19.4%
		East of southern access	124	37	29.7%	3.2	118	546	64428	33665	34.3%
		West of southern access	124	37	29.7%	3.2	118	546	64428	2244	3.4%
5307	Collinsville - Elphinstone Road	North of Newlands Mine Road	103	38	36.8%	3.2	121	546	66066	0	0.0%
		North of Suttor Developmental Road	524	94	17.9%	3.2	300	546	163800	36127	18.1%
88B	Bowen Developmental - Certio-Elphinstone Road	North of Suttor Developmental Road	83	19	22.7%	3.2	61	546	33076	8977	21.3%
		South of Collinsville - Elphinstone Road	126	45	35.3%	3.2	143	546	77825	18611	19.3%
		North of Collinsville - Elphinstone Road	328	59	18.0%	3.2	189	546	103194	18611	15.3%
Future	Newlands Mine Road	West of Collinsville - Elphinstone Road	473	84	17.7%	3.2	268	546	146328	36127	19.8%
BALLAST HAULAGE											
10K	Bruce Highway	North of Bowen Developmental Road	4624	1294	28.0%	3.2	4140	183	755550	19786	2.6%
88A	Bowen Developmental Road	South of Bruce Highway	1730	571	33.0%	3.2	1828	183	333610	19786	5.6%