

Break down		2018			Year 5			Year 10			Year 20					
Cause	Vehicle type	Notes - Number	Calc	Number	Notes	Notes - Number	Calc	Number	Notes - Number	calc	10	Notes	Notes - Number	calc	Number	
General Port Staff	CAR	300	300*2*52*5	156000	-300 current staff (at 1 per vehicle)(2)(760) (per working day), therefore no increase in traffic. - Multiplied by two for traffic in both directions - Multiplied by 52 * 5 work days to get yearly traffic.	300	(300-300)*2*52*5	0	- 60 staff (at 1 per vehicle)(2)(14) (per working day) plus prior staff - Multiplied by 2 for both directions - Multiplied by 52 * 5 work days to get yearly traffic.	360	(360-300)*2*52*5	31200	-40 Staff (at 1 per vehicle)(2)(14) (per working day) plus prior staff - Multiplied by 2 for both directions - Multiplied by 52 * 5 work days to get yearly traffic.	400	(400-360)*2*52*5	20800
Car import	Car carrier (8 cars at a time)	0	(0*0.6/8)*2	0	No cars for first 5 years	0	0	0	60% of 160,000 cars imported - Multiplied by 2 for traffic empty trucks entering	160000	((160,000-0)*0.6/8)*2	24000	No additional cars	160000	((160,000-160,000)*0.6/8)*2	0
	HCV carrier (one at a time)	0	0	0	No HCV for first 5 years	0	0	0	-5,000 HCV by road per year - Multiplied by 2 for empty trucks entering port	5000	(5000-0)*2	10000	No additional HCV - Multiplied by 2 for empty trucks entering port	5000	(5000-5000)*2	0
Non-Container cargo trucks	Trucks (28 tonne of cargo per truck)	3386730	2*(3,386,730/28)	241910	2018 vol-3,386,730; 2025 vol- 2,700,151 tonnes of cargo From 4A11 projected using Northport Wood Availability Forecast 2018 Figure 16. - Multiplied by 2 for trips in and out	2700151	2*((2,700,151-3,386,730)/28)	-49042	1,748,798 tonnes of cargo From 4A11 projected using Northport Wood Availability Forecast 2018 Figure 16. - Multiplied by 2 for trips in and out	1748798	2*((1,748,798-2,700,151)/28)	-67954	2,257,561 tonnes of cargo From 4A11 projected using Northport Wood Availability Forecast 2018 Figure 16. - Multiplied by 2 for trips in and out	2257561	2*((2,257,561-1,748,798)/28)	36342
Cruise Ships	Buses (30 seater) 1/3	0	2*(1500/3)*0	0	20 cruise ships (1500 Passengers) -Multiplied by 2 for trips in and out	20	2*(1500/3)*(20-0)	20000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/3)*(30-20)	10000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/3)*(30-30)	0
	Buses (10 seater) 1/6	0	2*(1500/6)*0	0	20 cruise ships (1500 Passengers) -Multiplied by 2 for trips in and out	20	2*(1500/6)*(20-0)	10000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/6)*(30-20)	5000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/6)*(30-30)	0
	Taxi 1/6	0	2*(1500/6)*0	0	20 cruise ships (1500 Passengers) -Multiplied by 2 for trips in and out	20	2*(1500/6)*(20-0)	10000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/6)*(30-20)	5000	30 cruise ships (1500 passengers) -Multiplied by 2 for trips in and out	30	2*(1500/6)*(30-30)	0
Rail	Trucks removed	0	0	0	No rail	0	0	0	8% containers by rail	8%	Total container trucks*0.08	-2679	8% containers by rail	8%	Total container trucks*0.08	-15174
Cement	Truck	9200	2*9200	18400	9200 TEU yearly - Multiplied by 2 for in and out movements - One TEU per truck	9200	2*(9200-9200)	0	9200 TEU yearly - Multiplied by 2 for in and out movements - One TEU per truck	9200	2*(9200-9200)	0	9200 TEU yearly - Multiplied by 2 for in and out movements - One TEU per truck	9200	2*(9200-9200)	0
Containers	Truck North (37%)	12849	12849*0.37*0.556	2644	- 47,040*0.37*0.556 - As per calculations sheet	47040	(47,040-12849)*0.37*0.556	7034	- 100,000*0.37*0.556 - As per calculations sheet	100000	(100,000-47,040)*0.37*0.556	10895	- 400,000*0.37*0.556 - As per calculations sheet	400000	(400,000-100,000)*0.37*0.556	61716
	Truck South (63%)	12849	12849*0.63*0.677	5481	- 47,040*0.63*0.677 - As per calculations sheet	47040	(47,040-12849)*0.63*0.677	14583	- 100,000*0.63*0.677 - As per calculations sheet	100000	(100,000-47040)*0.63*0.677	22588	- 400,000*0.63*0.677 - As per calculations sheet	400000	(400,000-100,000)*0.63*0.677	127953
Ship Maintenance and Navy Personnel	CAR	0	0*2*52*5	0	-400 for berth 0 (at 1 per vehicle)(76)(760) (per working day) - Multiplied by 2 for both directions - Multiplied by 52*5 work days to get yearly traffic.	0	0*2*52*5	0	-400 for berth 0 (at 1 per vehicle)(76)(760) (per working day) - Multiplied by 2 for both directions - Multiplied by 52*5 work days to get yearly traffic.	0	0*2*52*5	0	-400 for berth 0 (at 1 per vehicle)(76)(760) (per working day) - Multiplied by 2 for both directions - Multiplied by 52*5 work days to get yearly traffic.	0	0*2*52*5	0

Yearly	Container Trucks	8125
	Car/HCV carrier	0
	Other trucks (Not containers)	260310
	30 seat bus	0
	10 seat bus	0
	Cars	156000

Average Hourly flow AM/PM Traffic Volume

Yearly	Container Trucks	21617
	Car/HCV carrier	0
	Other trucks (Not containers)	-49042
	30 seat bus	20000
	10 seat bus	10000
	Cars	10000

Average Hourly flow AM/PM Traffic Volume

Yearly	Container Trucks	30804
	Car/HCV carrier	34000
	Other trucks (Not containers)	-67954
	30 seat bus	10000
	10 seat bus	5000
	Cars	36200

Average Hourly flow AM/PM Traffic Volume

Yearly	Container Trucks	174495
	Car/HCV carrier	0
	Other trucks (Not containers)	36342
	30 seat bus	0
	10 seat bus	0
	Cars	20800

Average Hourly flow AM/PM Traffic Volume

Daily	Container Trucks	23
	Car/HCV carrier	0
	Other trucks (Not containers)	714
	30 seat bus	0
	10 seat bus	0
	Cars	428

Average Hourly flow AM/PM Traffic Volume

Daily	Container Trucks	60
	Car/HCV carrier	0
	Other trucks (Not containers)	-135
	30 seat bus	55
	10 seat bus	28
	Cars	28

Average Hourly flow AM/PM Traffic Volume

Daily	Container Trucks	85
	Car/HCV carrier	94
	Other trucks (Not containers)	-187
	30 seat bus	28
	10 seat bus	14
	Cars	100

Average Hourly flow AM/PM Traffic Volume

Daily	Container Trucks	479
	Car/HCV carrier	0
	Other trucks (Not containers)	100
	30 seat bus	0
	10 seat bus	0
	Cars	57

Average Hourly flow AM/PM Traffic Volume

Peak Flow 276

Peak Flow (Difference) 15

Peak Flow (Difference) 55

Peak Flow (Difference) 78

Peak Flows and Differences		
Year	Peak Flow	Peak AM/PM Flow Increase
2018	278	
Year 5	293	15
Year 10	348	55
Year 20	426	78
		148

Assumptions:
Average hourly flow associated with port based on 12 hrs of

Daylight hrs assumed to be 12 hrs.

Total Daily Volumes used to determine Peak Flows					
	2018	Year 5	Year 10	Year 20	
Daily	23	83	168	647	
Container Trucks	0	0	94	94	
Car/HCV carrier	714	579	392	492	
Other trucks (Not containers)	0	55	83	83	
30 seat bus	0	28	42	42	
10 seat bus	428	456	556	613	
Cars	1165	1201	1335	1971	
AA DT Total					
	1165	1201	1335	1971	
AA DT Increase from base 2018		36	170	806	

Yr 15 (2033) 488

