

In addition to the physical advantages of the current site for Crushing Operations, cost comparison analysis for the production of crushed concrete material indicates that there is benefit to the City for managing a Crushing Operation in Minneapolis (see Table 4 – Crusher Cost Comparison). Since 2001, the Crushing Operation has averaged over 70,000 tons of material per year. Comparing the actual cost of production for this volume of material against the cost of purchasing an equivalent volume from a private source, the City realizes a savings of over \$600,000 per year. This comparison is based on current purchase prices for a similar material thru a potential partnership with a private facility in Bloomington (one of the closest facilities for production).

PW CRUSHER COSTS COMPARISON MODEL			
		ONE-WAY DISTANCE (MI) =	
		ONE WAY TRAVEL TIME (HOURS) =	
		ROUND TRIP TRAVEL TIME (HOURS) =	
VEHICLE	AVERAGE MPH	COST/HOUR	COST/MI
Yardco Truck & Driver	45	\$82.11	\$ 2.97
COSTS PER TRIP =			
<b>TRUCKING TO ACQUIRE CRUSHED MATERIAL</b>			
		ANNUAL TONNAGE=	
		TONS PER TRUCK=	
		TRIPS PER YEAR=	
		% REDUCTION FOR DUAL HAULING=	
		NET TRIPS PER YEAR=	
ANNUAL TRUCKING COSTS =			
<b>PRODUCTION OF CRUSHED MATERIAL</b>			
(Estimated cost, may vary due to market conditions)		ANNUAL TONNAGE=	
		MATERIAL COST PER TON=	
ANNUAL MATERIAL PURCHASE COSTS =			
ANNUAL MATERIAL PRODUCTION COSTS =			
<b>TRUCKING TO DELIVER CONCRETE RUBBLE</b>			
		ANNUAL TONNAGE=	
		TONS PER TRUCK=	
		TRIPS PER YEAR=	
		% REDUCTION FOR DUAL HAULING=	
		NET TRIPS PER YEAR=	
ANNUAL TRUCKING COSTS =			
ANNUAL MATERIAL PRODUCTION & DISPOSAL COSTS =			
ANNUAL COST INCREASE TO BUY MATERIAL vs. PRODUCE =			

  

MINNEAPOLIS LOCATION		BLOOMINGTON, MN	
	8		14
	0.87		0.81
	0.75		0.82
TOTAL TRAVEL DISTANCE	TRAVEL COST (ROUND TRIP)	TOTAL TRAVEL DISTANCE	TRAVEL COST (ROUND TRIP)
\$	\$ 12.41	28	\$ 67.84
\$	\$ 12.41	28	\$ 67.84
VOLUME (TONS)		VOLUME (TONS)	
70,433.55		70,433.55	
12.55		12.55	
1,888.87		1,888.87	
25%		25%	
4,488.88		4,488.88	
\$	54,624.53	\$	254,914.49
VOLUME (TONS)		VOLUME (TONS)	
70,433.55		70,433.55	
4.87		7.80	
\$	316,880.00	\$	528,000.00
\$	371,424.53	\$	782,914.49
VOLUME (TONS)		VOLUME (TONS)	
70,433.55		70,433.55	
12.55		12.55	
1,888.87		1,888.87	
25%		25%	
4,488.88		4,488.88	
\$	54,624.53	\$	254,914.49
\$	426,049.07	\$	1,037,828.98
\$			611,779.91

Table 4 – Crusher Cost Comparison