

District: 2

PROJECT: 3% - SHA-5-Lane Add of North Xing t Bechell-Churn Creek-PM R3.8-R11.7

EA: 02-4C402
PPNO: 3445

3

INVESTMENT ANALYSIS SUMMARY RESULTS

Life-Cycle Costs (mil. \$)	\$85.1
Life-Cycle Benefits (mil. \$)	\$271.3
Net Present Value (mil. \$)	\$186.1

Benefit / Cost Ratio: 3.2

Rate of Return on Investment: 11.5%

Payback Period: 7 years

ITEMIZED BENEFITS (mil. \$)

Average Annual Total Over
20 Years

Travel Time Savings	\$3.7	\$73.8
Veh. Op. Cost Savings	-\$0.1	-\$1.6
Accident Cost Savings	\$10.0	\$199.5
Emission Cost Savings	-\$0.0	-\$0.4
TOTAL BENEFITS	\$13.6	\$271.3

Person-Hours of Time Saved	28,564	571,281
CO ₂ Emissions Saved (tons)	-511	-10,225
CO ₂ Emissions Saved (mil. \$)	-\$0.0	-\$0.3

Should benefit-cost results include:

1) Induced Travel? (y/n)

Y

Default = Y

2) Vehicle Operating Costs? (y/n)

Y

Default = Y

3) Accident Costs? (y/n)

Y

Default = Y

4) Vehicle Emissions? (y/n)

Y

Default = Y

includes value for CO₂e

District: 2

PROJECT: 7% - SHA-5-Lane Add Of North Xing to Bechell-Churn Creek_PM R3.8/R11.7

EA: 02-4C402
PPNO: 3445

3

INVESTMENT ANALYSIS SUMMARY RESULTS

Life-Cycle Costs (mil. \$)	\$81.4
Life-Cycle Benefits (mil. \$)	\$170.0
Net Present Value (mil. \$)	\$88.7

Benefit / Cost Ratio: 2.1

Rate of Return on Investment: 11.5%

Payback Period: 7 years

ITEMIZED BENEFITS (mil. \$)	Average Annual	Total Over 20 Years
Travel Time Savings	\$2.4	\$48.2
Veh. Op. Cost Savings	-\$0.0	-\$0.8
Accident Cost Savings	\$6.1	\$122.8
Emission Cost Savings	-\$0.0	-\$0.2
TOTAL BENEFITS	\$8.5	\$170.0
Person-Hours of Time Saved	28,564	571,281
CO ₂ Emissions Saved (tons)	-511	-10,225
CO ₂ Emissions Saved (mil. \$)	-\$0.0	-\$0.2

Should benefit-cost results include:

1) Induced Travel? (y/n)

Y

Default = Y

2) Vehicle Operating Costs? (y/n)

Y

Default = Y

3) Accident Costs? (y/n)

Y

Default = Y

4) Vehicle Emissions? (y/n)

Y

Default = Y

includes value for CO₂e