Appendices:

TRAFFIC COUNTS
CAPACITY ANALYSIS – EXISTING
CAPACITY ANALYSIS – FUTURE

Appendix A
Traffic Counts

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Acorn DATE: 12/10/2003 LOCATION: City of Riverside

E-W STREET: Jurupa DAY: WEDNESDAY PROJECT# 04-3031-001 AM

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	1	2	0	1	2	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	2	0	22	0	0	0	0	100	1	18	108	0	251
7:15 AM	1	0	26	1	1	0	1	115	3	22	105	0	275
7:30 AM	5	2	27	0	0	0	2	101	2	13	75	0	227
7:45 AM	2	1	31	1	0	1	3	128	4	14	87	1	273
8:00 AM	5	0	33	0	1	0	1	96	4	19	74	1	234
8:15 AM	4	1	24	1	0	0	0	110	3	18	68	0	229
8:30 AM	7	2	19	0	0	0	0	88	1	10	85	0	212
8:45 AM	8	0	24	0	0	0	2	102	2	15	72	0	225
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 34	NT 6	NR 206	SL 3	ST 2	SR 1	EL 9	ET 840	ER 20	WL 129	WT 674	WR 2	TOTAL 1926

AM Peak Hr Begins at: 700 AM

PEAK VOLUMES =	10	3	106	2	1	1	6	444	10	67	375	1	1026
PEAK HR. FACTOR:		0.875			0.500			0.852			0.872		0.933

CONTROL: 4-way stop

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Acorn DATE: 12/10/2003 LOCATION: City of Riverside

E-W STREET: Jurupa DAY: WEDNESDAY PROJECT# 04-3031-001 PM

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	1	2	0	1	2	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	10	0	21	1	2	0	1	91	8	31	168	0	333
4:15 PM	8	1	24	0	3	2	0	106	9	35	162	0	350
4:30 PM	6	0	20	0	1	0	1	99	14	29	177	0	347
4:45 PM	4	0	31	1	3	1	2	94	10	37	157	1	341
5:00 PM	9	1	22	0	1	2	1	105	16	42	175	0	374
5:15 PM	12	0	27	1	2	1	0	91	7	39	163	0	343
5:30 PM	9	0	31	1	0	1	1	94	5	32	147	0	321
5:45 PM	6	0	21	0	1	0	0	83	5	30	135	0	281
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 64	NT 2	NR 197	SL 4	ST 13	SR 7	EL 6	ET 763	ER 74	WL 275	WT 1284	WR 1	TOTAL 2690

PM Peak Hr Begins at: 415 PM

PEAK VOLUMES =	27	2	97	1	8	5	4	404	49	143	671	1	1412
PEAK HR. FACTOR:		0.900			0.700			0.936			0.939		0.944

CONTROL: 4-way stop

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Van Buren Blvd. DATE: 12/10/2003 LOCATION: City of Riverside

E-W STREET: Jurupa DAY: WEDNESDAY PROJECT# 04-3031-002 AM

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	0	0	0	0	1	0	2	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	0	337	28	63	404					14		97	943
7:15 AM	0	381	37	96	426					12		102	1054
7:30 AM	1	499	40	74	466					8		74	1162
7:45 AM	2	479	42	113	511					21		72	1240
8:00 AM	0	341	30	83	480					13		63	1010
8:15 AM	2	307	35	79	417					9		72	921
8:30 AM	1	281	22	68	396					12		79	859
8:45 AM	1	228	27	80	432					15		66	849
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	7	2853	261	656	3532	0	0	0	0	104	0	625	8038

AM Peak Hr Begins at: 715 AM

PEAK VOLUMES =	3	1700	149	366	1883	0	0	0	0	54	0	311	4466
PEAK HR. FACTOR:		0.857			0.901			0.000			0.800		0.900

CONTROL: signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Van Buren Blvd. DATE: 12/10/2003 LOCATION: City of Riverside

E-W STREET: Jurupa DAY: WEDNESDAY PROJECT# 04-3031-002 PM

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	0	0	0	0	1	0	2	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	0	419	19	76	497					45		121	1177
4:15 PM	1	455	12	84	520					56		113	1241
4:30 PM	0	470	15	92	553					49		109	1288
4:45 PM	0	446	10	95	501					68		120	1240
5:00 PM	1	429	17	91	498					77		131	1244
5:15 PM	1	432	19	103	536					63		117	1271
5:30 PM	0	455	12	94	549					46		103	1259
5:45 PM	0	398	8	78	524					38		99	1145
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	3	3504	112	713	4178	0	0	0	0	442	0	913	9865

PM Peak Hr Begins at: 430 PM

PEAK VOLUMES =	2	1777	61	381	2088	0	0	0	0	257	0	477	5043
PEAK HR. FACTOR:		0.948			0.957			0.000			0.882		0.979

CONTROL: signalized

Appendix B
Capacity Analysis – Existing

Riverside Power Plant
Existing Conditions
AM Peak Hour

Scenario Report

Scenario:	Existing AM
Command:	Existing AM
Volume:	AM
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	AM
Trip Distribution:	All
Paths:	Default Paths
Routes:	Default Routes
Configuration:	Existing AM

Riverside Power Plant
Existing Conditions
AM Peak Hour

Turning Movement Report
AM

Volume	Northbound			Southbound			Eastbound			Westbound			Total
Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
#1 Jurupa / Van Buren													
Base	3	1700	149	366	1883	0	0	0	0	54	0	311	4466
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	1700	149	366	1883	0	0	0	0	54	0	311	4466
#2 Jurupa / Acorn													
Base	10	3	106	2	1	1	6	444	10	67	375	1	1026
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	10	3	106	2	1	1	6	444	10	67	375	1	1026
#3 Jurupa / Payton													
Base	0	0	0	0	0	0	0	0	0	0	0	0	0
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Riverside Power Plant
Existing Conditions
AM Peak Hour

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/Veh	Base V/C	Future LOS	Future Del/Veh	Future V/C	Change in
# 1 Jurupa / Van Buren	B	19.1	0.833	B	19.1	0.833	+ 0.000 D/V
# 2 Jurupa / Acorn	B	11.2	0.372	B	11.2	0.372	+ 0.000 V/C

Riverside Power Plant
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

****

Intersection #1 Jurupa / Van Buren

****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.833
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 19.1
Optimal Cycle: 66 Level Of Service: B

****

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Protected				Protected				Split Phase				Split Phase			
Rights:	Ignore				Include				Include				Include			
Min. Green:	0		0	0	0		0	0	0		0	0	0		0	0
Lanes:	1	0	2	0 1	1	0	2	0 0	0	0	0	0 0	1	0	0	0 2
Volume Module:																
Base Vol:	3	1700		149	366	1883		0	0		0	0	54		0	311
Growth Adj:	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
Initial Bse:	3	1700		149	366	1883		0	0		0	0	54		0	311
User Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
PHF Volume:	3	1700		0	366	1883		0	0		0	0	54		0	311
Reduct Vol:	0	0		0	0	0		0	0		0	0	0		0	0
Reduced Vol:	3	1700		0	366	1883		0	0		0	0	54		0	311
PCE Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
Final Vol.:	3	1700		0	366	1883		0	0		0	0	54		0	311
Saturation Flow Module:																
Sat/Lane:	1900	1900		1900	1900	1900		1900	1900		1900	1900	1900		1900	1900
Adjustment:	0.95	0.95		1.00	0.95	0.95		1.00	1.00		1.00	1.00	0.95		1.00	0.75
Lanes:	1.00	2.00		1.00	1.00	2.00		0.00	0.00		0.00	0.00	1.00		0.00	2.00
Final Sat.:	1805	3610		1900	1805	3610		0	0		0	0	1805		0	2842
Capacity Analysis Module:																
Vol/Sat:	0.00	0.47		0.00	0.20	0.52		0.00	0.00		0.00	0.00	0.03		0.00	0.11
Crit Moves:		****			****											****
Green/Cycle:	0.00	0.57		0.00	0.24	0.81		0.00	0.00		0.00	0.00	0.13		0.00	0.13
Volume/Cap:	0.65	0.83		0.00	0.83	0.65		0.00	0.00		0.00	0.00	0.23		0.00	0.83
Delay/Veh:	210.8	21.0		0.0	48.7	4.4		0.0	0.0		0.0	0.0	39.4		0.0	57.1
User DelAdj:	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	210.8	21.0		0.0	48.7	4.4		0.0	0.0		0.0	0.0	39.4		0.0	57.1
DesignQueue:	0	47		0	16	23		0	0		0	0	3		0	15

****

Riverside Power Plant
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.372
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 11.2
Optimal Cycle: 0 Level Of Service: B

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	0 1	0	0	1	0 1	0	0	1	1 0	2	0	1	1 0	2	0	1
Volume Module:																
Base Vol:	10	3	106		2	1		1	6	444		10	67	375		1
Growth Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	10	3	106		2	1		1	6	444		10	67	375		1
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	10	3	106		2	1		1	6	444		10	67	375		1
Reduct Vol:	0	0	0		0	0		0	0	0		0	0	0		0
Reduced Vol:	10	3	106		2	1		1	6	444		10	67	375		1
PCE Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	10	3	106		2	1		1	6	444		10	67	375		1
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
Lanes:	0.77	0.23	1.00		0.67	0.33		1.00	1.00	2.00		1.00	1.00	2.00		1.00
Final Sat.:	374	112	572		311	155		539	547	1193		668	544	1185		663
Capacity Analysis Module:																
Vol/Sat:	0.03	0.03	0.19		0.01	0.01		0.00	0.01	0.37		0.01	0.12	0.32		0.00
Crit Moves:			****		****					****				****		
Delay/Veh:	9.8	9.8	9.8		9.8	9.8		8.8	9.1	11.9		7.9	10.0	11.2		7.9
Delay Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:	9.8	9.8	9.8		9.8	9.8		8.8	9.1	11.9		7.9	10.0	11.2		7.9
LOS by Move:	A	A	A		A	A		A	A	B		A	A	B		A
ApproachDel:	9.8				9.6				11.7				11.0			
Delay Adj:	1.00				1.00				1.00				1.00			
ApprAdjDel:	9.8				9.6				11.7				11.0			
LOS by Appr:	A				A				B				B			

Riverside Power Plant
Existing Conditions
PM Peak Hour

Scenario Report

Scenario:	Existing PM
Command:	Existing PM
Volume:	PM
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	PM
Trip Distribution:	All
Paths:	Default Paths
Routes:	Default Routes
Configuration:	Existing PM

Riverside Power Plant
Existing Conditions
PM Peak Hour

Turning Movement Report
PM

Volume	Northbound			Southbound			Eastbound			Westbound			Total
Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
#1 Jurupa / Van Buren													
Base	2	1777	61	381	2088	0	0	0	0	257	0	477	5043
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1777	61	381	2088	0	0	0	0	257	0	477	5043
#2 Jurupa / Acorn													
Base	27	2	97	1	8	5	4	404	49	143	671	1	1412
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	27	2	97	1	8	5	4	404	49	143	671	1	1412
#3 Jurupa / Payton													
Base	0	0	0	0	0	0	0	0	0	0	0	0	0
Added	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Riverside Power Plant
Existing Conditions
PM Peak Hour

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 Jurupa / Van Buren	C	28.0	0.927	C	28.0	0.927	+ 0.000 D/V
# 2 Jurupa / Acorn	B	14.2	0.577	B	14.2	0.577	+ 0.000 V/C

Riverside Power Plant
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #1 Jurupa / Van Buren

Cycle (sec): 100 Critical Vol./Cap. (X): 0.927
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 28.0
Optimal Cycle: 112 Level Of Service: C

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Protected				Protected				Split Phase				Split Phase			
Rights:	Ignore				Include				Include				Include			
Min. Green:	0		0	0	0		0	0	0		0	0	0		0	0
Lanes:	1	0	2	0 1	1	0	2	0 0	0	0	0	0 0	1	0	0	0 2
Volume Module:																
Base Vol:	2	1777		61	381	2088		0	0		0	0	257		0	477
Growth Adj:	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	2	1777		61	381	2088		0	0		0	0	257		0	477
User Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	2	1777		0	381	2088		0	0		0	0	257		0	477
Reduct Vol:	0	0		0	0	0		0	0		0	0	0		0	0
Reduced Vol:	2	1777		0	381	2088		0	0		0	0	257		0	477
PCE Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00		0.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	2	1777		0	381	2088		0	0		0	0	257		0	477
Saturation Flow Module:																
Sat/Lane:	1900	1900		1900	1900	1900		1900	1900	1900		1900	1900		1900	1900
Adjustment:	0.95	0.95		1.00	0.95	0.95		1.00	1.00	1.00		0.95	1.00		0.75	0.75
Lanes:	1.00	2.00		1.00	1.00	2.00		0.00	0.00	0.00		1.00	0.00		2.00	2.00
Final Sat.:	1805	3610		1900	1805	3610		0	0		0	0	1805		0	2842
Capacity Analysis Module:																
Vol/Sat:	0.00	0.49		0.00	0.21	0.58		0.00	0.00	0.00		0.14	0.00		0.17	0.17
Crit Moves:		****			****											****
Green/Cycle:	0.00	0.53		0.00	0.23	0.76		0.00	0.00	0.00		0.18	0.00		0.18	0.18
Volume/Cap:	0.76	0.93		0.00	0.93	0.76		0.00	0.00	0.00		0.79	0.00		0.93	0.93
Delay/Veh:	385.8	30.0		0.0	64.7	8.3		0.0	0.0	0.0		51.0	0.0		63.3	63.3
User DelAdj:	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:	385.8	30.0		0.0	64.7	8.3		0.0	0.0	0.0		51.0	0.0		63.3	63.3
DesignQueue:	0	53		0	17	33		0	0		0	12	0		22	22

Riverside Power Plant
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.577
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 14.2
Optimal Cycle: 0 Level Of Service: B

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0		0	0	0		0	0	0		0	0	0		0	0
Lanes:	0	1	0	0 1	0	1	0	0 1	1	0	2	0 1	1	0	2	0 1
Volume Module:																
Base Vol:	27		2	97	1		8	5	4		404	49	143		671	1
Growth Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
Initial Bse:	27		2	97	1		8	5	4		404	49	143		671	1
User Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
PHF Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
PHF Volume:	27		2	97	1		8	5	4		404	49	143		671	1
Reduct Vol:	0		0	0	0		0	0	0		0	0	0		0	0
Reduced Vol:	27		2	97	1		8	5	4		404	49	143		671	1
PCE Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
MLF Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
Final Vol.:	27		2	97	1		8	5	4		404	49	143		671	1
Saturation Flow Module:																
Adjustment:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
Lanes:	0.93		0.07	1.00	0.11		0.89	1.00	1.00		2.00	1.00	1.00		2.00	1.00
Final Sat.:	408		30	513	49		389	482	483		1048	577	534		1163	646
Capacity Analysis Module:																
Vol/Sat:	0.07		0.07	0.19	0.02		0.02	0.01	0.01		0.39	0.08	0.27		0.58	0.00
Crit Moves:				****			****				****				****	
Delay/Veh:	10.9		10.9	10.6	10.4		10.4	9.6	9.9		13.3	9.2	11.6		16.5	8.1
Delay Adj:	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	10.9		10.9	10.6	10.4		10.4	9.6	9.9		13.3	9.2	11.6		16.5	8.1
LOS by Move:	B		B	B	B		B	A	A		B	A	B		C	A
ApproachDel:			10.7				10.1				12.8				15.7	
Delay Adj:			1.00				1.00				1.00				1.00	
ApprAdjDel:			10.7				10.1				12.8				15.7	
LOS by Appr:			B				B				B				C	

Appendix C
Capacity Analysis – Future

Riverside Power Plant
Future Conditions
AM Peak Hour

Scenario Report

Scenario:	Future AM
Command:	Future AM
Volume:	AM
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	AM
Trip Distribution:	All
Paths:	Default Paths
Routes:	Default Routes
Configuration:	Future AM

Riverside Power Plant
Future Conditions
AM Peak Hour

Trip Generation Report

Forecast for AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Power Plant	1.00	Power Plant	11.00	2.00	11	2	13	100.0
	Zone 1 Subtotal					11	2	13	100.0
TOTAL						11	2	13	100.0

Riverside Power Plant
Future Conditions
AM Peak Hour

Trip Distribution Report

Percent Of Trips All

Zone	To Gates 2	4	6
1	45.0	45.0	10.0

Riverside Power Plant
Future Conditions
AM Peak Hour

Turning Movement Report
AM

Volume Type	Northbound Left	Thru	Right	Southbound Left	Thru	Right	Eastbound Left	Thru	Right	Westbound Left	Thru	Right	Total Volume
#1 Jurupa / Van Buren													
Base	3	1768	155	381	1958	0	0	0	0	56	0	323	4645
Added	0	0	5	5	0	0	0	0	0	1	0	1	12
Total	3	1768	160	386	1958	0	0	0	0	57	0	324	4657
#2 Jurupa / Acorn													
Base	10	3	110	2	1	1	6	462	10	70	390	1	1067
Added	0	0	0	0	0	0	0	10	0	0	2	0	12
Total	10	3	110	2	1	1	6	472	10	70	392	1	1079
#3 Jurupa / Payton													
Base	0	0	0	0	0	0	0	0	0	0	0	0	0
Added	0	0	0	0	0	2	10	0	0	0	0	1	13
Total	0	0	0	0	0	2	10	0	0	0	0	1	13

Riverside Power Plant
Future Conditions
AM Peak Hour

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/Veh	Base V/C	Future LOS	Future Del/Veh	Future V/C	Change in V/C
# 1 Jurupa / Van Buren	C	20.6	0.866	C	20.8	0.870	+ 0.232
# 2 Jurupa / Acorn	B	11.5	0.391	B	11.6	0.400	+ 0.009

Riverside Power Plant
Future Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #1 Jurupa / Van Buren

Cycle (sec): 100 Critical Vol./Cap. (X): 0.866
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 20.6
Optimal Cycle: 78 Level Of Service: C

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	- T	- R		L	- T	- R		L	- T	- R		L	- T	- R	
Control:	Protected				Protected				Split Phase				Split Phase			
Rights:	Ignore				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	1 0	2 0	1		1 0	2 0	0		0 0	0 0	0		1 0	0 0	2	
Volume Module:																
Base Vol:	3	1700	149		366	1883	0		0	0	0		54	0	311	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	3	1768	155		381	1958	0		0	0	0		56	0	323	
User Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	3	1768	0		381	1958	0		0	0	0		56	0	323	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	3	1768	0		381	1958	0		0	0	0		56	0	323	
PCE Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	3	1768	0		381	1958	0		0	0	0		56	0	323	
Saturation Flow Module:																
Sat/Lane:	1900	1900	1900		1900	1900	1900		1900	1900	1900		1900	1900	1900	
Adjustment:	0.95	0.95	1.00		0.95	0.95	1.00		1.00	1.00	1.00		0.95	1.00	0.75	
Lanes:	1.00	2.00	1.00		1.00	2.00	0.00		0.00	0.00	0.00		1.00	0.00	2.00	
Final Sat.:	1805	3610	1900		1805	3610	0		0	0	0		1805	0	2842	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.49	0.00		0.21	0.54	0.00		0.00	0.00	0.00		0.03	0.00	0.11	
Crit Moves:		****			****										****	
Green/Cycle:	0.00	0.57	0.00		0.24	0.81	0.00		0.00	0.00	0.00		0.13	0.00	0.13	
Volume/Cap:	0.67	0.87	0.00		0.87	0.67	0.00		0.00	0.00	0.00		0.24	0.00	0.87	
Delay/Veh:	228.9	22.7	0.0		52.7	4.7	0.0		0.0	0.0	0.0		39.5	0.0	61.3	
User DelAdj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	228.9	22.7	0.0		52.7	4.7	0.0		0.0	0.0	0.0		39.5	0.0	61.3	
DesignQueue:	0	49	0		17	24	0		0	0	0		3	0	16	

Riverside Power Plant
Future Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Jurupa / Van Buren

Cycle (sec): 100 Critical Vol./Cap. (X): 0.870
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 20.8
Optimal Cycle: 79 Level Of Service: C

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Control:	Protected				Protected				Split Phase				Split Phase			
Rights:	Ignore				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	1 0	2 0	1		1 0	2 0	0		0 0	0 0	0		1 0	0 0	2	
Volume Module:																
Base Vol:	3	1700	149		366	1883	0		0	0	0		54	0	311	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	3	1768	155		381	1958	0		0	0	0		56	0	323	
Added Vol:	0	0	5		5	0	0		0	0	0		1	0	1	
PasserByVol:	0	0	0		0	0	0		0	0	0		0	0	0	
Initial Fut:	3	1768	160		386	1958	0		0	0	0		57	0	324	
User Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	3	1768	0		386	1958	0		0	0	0		57	0	324	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	3	1768	0		386	1958	0		0	0	0		57	0	324	
PCE Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	0.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	3	1768	0		386	1958	0		0	0	0		57	0	324	
Saturation Flow Module:																
Sat/Lane:	1900	1900	1900		1900	1900	1900		1900	1900	1900		1900	1900	1900	
Adjustment:	0.95	0.95	1.00		0.95	0.95	1.00		1.00	1.00	1.00		0.95	1.00	0.75	
Lanes:	1.00	2.00	1.00		1.00	2.00	0.00		0.00	0.00	0.00		1.00	0.00	2.00	
Final Sat.:	1805	3610	1900		1805	3610	0		0	0	0		1805	0	2842	
Capacity Analysis Module:																
Vol/Sat:	0.00	0.49	0.00		0.21	0.54	0.00		0.00	0.00	0.00		0.03	0.00	0.11	
Crit Moves:		****			****										****	
Green/Cycle:	0.00	0.56	0.00		0.25	0.81	0.00		0.00	0.00	0.00		0.13	0.00	0.13	
Volume/Cap:	0.67	0.87	0.00		0.87	0.67	0.00		0.00	0.00	0.00		0.24	0.00	0.87	
Delay/Veh:	228.8	23.1	0.0		52.9	4.7	0.0		0.0	0.0	0.0		39.5	0.0	61.8	
User DelAdj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	228.8	23.1	0.0		52.9	4.7	0.0		0.0	0.0	0.0		39.5	0.0	61.8	
DesignQueue:	0	49	0		17	24	0		0	0	0		3	0	16	

Riverside Power Plant
Future Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.391
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 11.5
Optimal Cycle: 0 Level Of Service: B

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	T	R		L	T	R		L	T	R		L	T	R	
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	0 1	0 0	1		0 1	0 0	1		1 0	2 0	1		1 0	2 0	1	
Volume Module:																
Base Vol:	10	3	106		2	1	1		6	444	10		67	375	1	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	10	3	110		2	1	1		6	462	10		70	390	1	
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	10	3	110		2	1	1		6	462	10		70	390	1	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	10	3	110		2	1	1		6	462	10		70	390	1	
PCE Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	10	3	110		2	1	1		6	462	10		70	390	1	
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Lanes:	0.77	0.23	1.00		0.67	0.33	1.00		1.00	2.00	1.00		1.00	2.00	1.00	
Final Sat.:	370	111	566		307	154	531		541	1182	660		539	1173	655	
Capacity Analysis Module:																
Vol/Sat:	0.03	0.03	0.19		0.01	0.01	0.00		0.01	0.39	0.02		0.13	0.33	0.00	
Crit Moves:			****		****					****				****		
Delay/Veh:	9.9	9.9	10.0		9.9	9.9	8.9		9.2	12.2	8.0		10.1	11.5	8.0	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	9.9	9.9	10.0		9.9	9.9	8.9		9.2	12.2	8.0		10.1	11.5	8.0	
LOS by Move:	A	A	A		A	A	A		A	B	A		B	B	A	
ApproachDel:		9.9				9.7				12.1				11.3		
Delay Adj:		1.00				1.00				1.00				1.00		
ApprAdjDel:		9.9				9.7				12.1				11.3		
LOS by Appr:		A				A				B				B		

Riverside Power Plant
Future Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.400
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 11.6
Optimal Cycle: 0 Level Of Service: B

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	0	1	0	0 1	0	1	0	0 1	1	0	2	0 1	1	0	2	0 1
Volume Module:																
Base Vol:	10	3	106		2	1	1		6	444	10		67	375	1	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	10	3	110		2	1	1		6	462	10		70	390	1	
Added Vol:	0	0	0		0	0	0		0	10	0		0	2	0	
PasserByVol:	0	0	0		0	0	0		0	0	0		0	0	0	
Initial Fut:	10	3	110		2	1	1		6	472	10		70	392	1	
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	10	3	110		2	1	1		6	472	10		70	392	1	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	10	3	110		2	1	1		6	472	10		70	392	1	
PCE Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	10	3	110		2	1	1		6	472	10		70	392	1	
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Lanes:	0.77	0.23	1.00		0.67	0.33	1.00		1.00	2.00	1.00		1.00	2.00	1.00	
Final Sat.:	369	111	563		306	153	529		541	1180	659		537	1168	652	
Capacity Analysis Module:																
Vol/Sat:	0.03	0.03	0.20		0.01	0.01	0.00		0.01	0.40	0.02		0.13	0.34	0.00	
Crit Moves:			****		****					****				****		
Delay/Veh:	9.9	9.9	10.0		10.0	10.0	8.9		9.2	12.4	8.0		10.1	11.5	8.0	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	9.9	9.9	10.0		10.0	10.0	8.9		9.2	12.4	8.0		10.1	11.5	8.0	
LOS by Move:	A	A	A		A	A	A		A	B	A		B	B	A	
ApproachDel:	10.0				9.7				12.2				11.3			
Delay Adj:	1.00				1.00				1.00				1.00			
ApprAdjDel:	10.0				9.7				12.2				11.3			
LOS by Appr:	A				A				B				B			

Riverside Power Plant
Future Conditions
PM Peak Hour

Scenario Report

Scenario:	Future PM
Command:	Future PM
Volume:	PM
Geometry:	Existing
Impact Fee:	Default Impact Fee
Trip Generation:	PM
Trip Distribution:	All
Paths:	Default Paths
Routes:	Default Routes
Configuration:	Future PM

Riverside Power Plant
Future Conditions
PM Peak Hour

Trip Generation Report

Forecast for PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Power Plant	1.00	Power Plant	3.00	10.00	3	10	13	100.0
	Zone 1 Subtotal					3	10	13	100.0
TOTAL						3	10	13	100.0

Riverside Power Plant
Future Conditions
PM Peak Hour

Trip Distribution Report

Percent Of Trips All

Zone	To Gates 2	4	6
1	45.0	45.0	10.0

Riverside Power Plant
Future Conditions
PM Peak Hour

Turning Movement Report
PM

Volume	Northbound			Southbound			Eastbound			Westbound			Total
Type	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Volume
#1 Jurupa / Van Buren													
Base	2	1848	63	396	2172	0	0	0	0	267	0	496	5245
Added	0	0	1	1	0	0	0	0	0	5	0	5	12
Total	2	1848	64	397	2172	0	0	0	0	272	0	501	5257
#2 Jurupa / Acorn													
Base	28	2	101	1	8	5	4	420	51	149	698	1	1468
Added	0	0	0	0	0	0	0	3	0	0	9	0	12
Total	28	2	101	1	8	5	4	423	51	149	707	1	1480
#3 Jurupa / Payton													
Base	0	0	0	0	0	0	0	0	0	0	0	0	0
Added	0	0	0	1	0	9	3	0	0	0	0	0	13
Total	0	0	0	1	0	9	3	0	0	0	0	0	13

Riverside Power Plant
Future Conditions
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Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 Jurupa / Van Buren	C	31.9	0.964	C	32.3	0.966	+ 0.442 D/V
# 2 Jurupa / Acorn	B	15.0	0.607	C	15.2	0.616	+ 0.009 V/C

Riverside Power Plant
Future Conditions
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Level Of Service Computation Report
2000 HCM Operations Method (Base Volume Alternative)

Intersection #1 Jurupa / Van Buren

Cycle (sec): 100 Critical Vol./Cap. (X): 0.964
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 31.9
Optimal Cycle: 153 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Ignore			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 0	1	1 0	2 0	0	0 0	0 0	0	1 0	0 0	2
Volume Module:												
Base Vol:	2	1777	61	381	2088	0	0	0	0	257	0	477
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	2	1848	63	396	2172	0	0	0	0	267	0	496
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	2	1848	0	396	2172	0	0	0	0	267	0	496
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	2	1848	0	396	2172	0	0	0	0	267	0	496
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	2	1848	0	396	2172	0	0	0	0	267	0	496
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00	0.75
Lanes:	1.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00
Final Sat.:	1805	3610	1900	1805	3610	0	0	0	0	1805	0	2842
Capacity Analysis Module:												
Vol/Sat:	0.00	0.51	0.00	0.22	0.60	0.00	0.00	0.00	0.00	0.15	0.00	0.17
Crit Moves:		****		****								****
Green/Cycle:	0.00	0.53	0.00	0.23	0.76	0.00	0.00	0.00	0.00	0.18	0.00	0.18
Volume/Cap:	0.79	0.96	0.00	0.96	0.79	0.00	0.00	0.00	0.00	0.82	0.00	0.96
Delay/Veh:	412.4	35.6	0.0	73.1	9.1	0.0	0.0	0.0	0.0	54.2	0.0	71.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	412.4	35.6	0.0	73.1	9.1	0.0	0.0	0.0	0.0	54.2	0.0	71.1
DesignQueue:	0	55	0	18	34	0	0	0	0	13	0	23

Riverside Power Plant
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Level Of Service Computation Report
2000 HCM Operations Method (Future Volume Alternative)

Intersection #1 Jurupa / Van Buren

Cycle (sec): 100 Critical Vol./Cap. (X): 0.966
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 32.3
Optimal Cycle: 157 Level Of Service: C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Split Phase			Split Phase		
Rights:	Ignore			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1 0	2 0	1	1 0	2 0	0	0 0	0 0	0	1 0	0 0	2
Volume Module:												
Base Vol:	2	1777	61	381	2088	0	0	0	0	257	0	477
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	2	1848	63	396	2172	0	0	0	0	267	0	496
Added Vol:	0	0	1	1	0	0	0	0	0	5	0	5
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	2	1848	64	397	2172	0	0	0	0	272	0	501
User Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	2	1848	0	397	2172	0	0	0	0	272	0	501
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	2	1848	0	397	2172	0	0	0	0	272	0	501
PCE Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	2	1848	0	397	2172	0	0	0	0	272	0	501
Saturation Flow Module:												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00	0.75
Lanes:	1.00	2.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00
Final Sat.:	1805	3610	1900	1805	3610	0	0	0	0	1805	0	2842
Capacity Analysis Module:												
Vol/Sat:	0.00	0.51	0.00	0.22	0.60	0.00	0.00	0.00	0.00	0.15	0.00	0.18
Crit Moves:		****		****								****
Green/Cycle:	0.00	0.53	0.00	0.23	0.76	0.00	0.00	0.00	0.00	0.18	0.00	0.18
Volume/Cap:	0.80	0.97	0.00	0.97	0.80	0.00	0.00	0.00	0.00	0.83	0.00	0.97
Delay/Veh:	414.0	36.1	0.0	73.8	9.2	0.0	0.0	0.0	0.0	55.1	0.0	71.5
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	414.0	36.1	0.0	73.8	9.2	0.0	0.0	0.0	0.0	55.1	0.0	71.5
DesignQueue:	0	55	0	18	35	0	0	0	0	13	0	24

Riverside Power Plant
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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.607
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 15.0
Optimal Cycle: 0 Level Of Service: B

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	- T	-	R	L	- T	-	R	L	- T	-	R	L	- T	-	R
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	0	1	0	0	1	0	1	0	0	1	1	0	2	0	1	
Volume Module:																
Base Vol:	27	2	97		1	8	5		4	404	49		143	671	1	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	28	2	101		1	8	5		4	420	51		149	698	1	
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	28	2	101		1	8	5		4	420	51		149	698	1	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	28	2	101		1	8	5		4	420	51		149	698	1	
PCE Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	28	2	101		1	8	5		4	420	51		149	698	1	
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Lanes:	0.93	0.07	1.00		0.11	0.89	1.00		1.00	2.00	1.00		1.00	2.00	1.00	
Final Sat.:	403	30	506		48	383	474		477	1034	568		528	1149	637	
Capacity Analysis Module:																
Vol/Sat:	0.07	0.07	0.20		0.02	0.02	0.01		0.01	0.41	0.09		0.28	0.61	0.00	
Crit Moves:			****			****				****				****		
Delay/Veh:	11.1	11.1	10.9		10.5	10.5	9.7		10.0	13.8	9.3		11.9	17.7	8.2	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	11.1	11.1	10.9		10.5	10.5	9.7		10.0	13.8	9.3		11.9	17.7	8.2	
LOS by Move:	B	B	B		B	B	A		B	B	A		B	C	A	
ApproachDel:	10.9				10.2				13.3				16.6			
Delay Adj:	1.00				1.00				1.00				1.00			
ApprAdjDel:	10.9				10.2				13.3				16.6			
LOS by Appr:	B				B				B				C			

Riverside Power Plant
Future Conditions
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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #2 Jurupa / Acorn

Cycle (sec): 100 Critical Vol./Cap. (X): 0.616
Loss Time (sec): 6 (Y+R = 4 sec) Average Delay (sec/veh): 15.2
Optimal Cycle: 0 Level Of Service: C

Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	- T	-	R	L	- T	-	R	L	- T	-	R	L	- T	-	R
Control:	Stop Sign				Stop Sign				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Min. Green:	0	0	0		0	0	0		0	0	0		0	0	0	
Lanes:	0	1	0	0	1	0	1	0	0	1	1	0	2	0	1	
Volume Module:																
Base Vol:	27	2	97		1	8	5		4	404	49		143	671	1	
Growth Adj:	1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04		1.04	1.04	1.04	
Initial Bse:	28	2	101		1	8	5		4	420	51		149	698	1	
Added Vol:	0	0	0		0	0	0		0	3	0		0	9	0	
PasserByVol:	0	0	0		0	0	0		0	0	0		0	0	0	
Initial Fut:	28	2	101		1	8	5		4	423	51		149	707	1	
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
PHF Volume:	28	2	101		1	8	5		4	423	51		149	707	1	
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0	
Reduced Vol:	28	2	101		1	8	5		4	423	51		149	707	1	
PCE Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Final Vol.:	28	2	101		1	8	5		4	423	51		149	707	1	
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
Lanes:	0.93	0.07	1.00		0.11	0.89	1.00		1.00	2.00	1.00		1.00	2.00	1.00	
Final Sat.:	402	30	504		48	382	473		476	1031	566		528	1147	636	
Capacity Analysis Module:																
Vol/Sat:	0.07	0.07	0.20		0.02	0.02	0.01		0.01	0.41	0.09		0.28	0.62	0.00	
Crit Moves:			****			****				****				****		
Delay/Veh:	11.1	11.1	10.9		10.5	10.5	9.7		10.0	13.9	9.4		11.9	18.0	8.2	
Delay Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
AdjDel/Veh:	11.1	11.1	10.9		10.5	10.5	9.7		10.0	13.9	9.4		11.9	18.0	8.2	
LOS by Move:	B	B	B		B	B	A		B	B	A		B	C	A	
ApproachDel:	10.9				10.2				13.4				16.9			
Delay Adj:	1.00				1.00				1.00				1.00			
ApprAdjDel:	10.9				10.2				13.4				16.9			
LOS by Appr:	B				B				B				C			