

**APPENDIX B**

---

**CONSTRUCTION WORKSHEETS**









**LADWP Elysian Reservoir**  
**Floating Cover Option**  
**ESTIMATED VEHICLE TRIPS**

Mob	QTY	Is	Trips		Month	1-32																																		
			Per Mon	Total																																				
	1			41																																				
Other:					41																																			
Construction Support Supplies			50		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Explosives			20				20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Pipe				267												53	53	53	53	53																				
Rock Anchors				36			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
1 Move in and Construct Roads, Construction Yards, Etc.				50	50																																			
2a Sink/Construct Shafts (a- 1, 2 and 3)	1,414	BCY		141		35	35	35	35																															
2b Sink/Construct Shafts (b- 4 and 5)	707	BCY		71																																				
3a Construct Tunnels (a- 1 to 2 and 2 to 3)	2,214	BCY		221					16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
3b Sink/Construct Shafts (b- 4 and 5)	791	BCY		79																																				
4 Drain Reservoir / Build Shaft 4 and Connect to 3 / Activate Bypass	Assumed			50												10	10	10	10	10																				
5 Demolition of Inlet & Outlet, Reservoir liner	Assumed	4,650	CY	930													465	465																						
6 Installation of CAB, Asphalt Liner, and Vaults		10,000	CY	1,000																																				
7 Installation of Floating Cover		323,100	SF	6																																				
8 Fill Reservoir / Demobilize																																								
Fuel (diesel)				20	10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
Misc. Concrete Operations				44								44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44			
Total Commuter Vehicle Trips					338	450	450	450	450	583	583	583	583	583	583	1,015	1,015	1,435	1,435	1,015	583	583	583	1,033	1,033	1,083	1,083	1,083	1,083	500	500	500	500	500	500	500	500			

General Construction Schedule					Quantity	WD	Months	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
<b>1 Move in and Construct Roads, Construction Yards, Etc.</b>						20	1.0	0.0	1.0																																
<b>2a Sink/Construct Shafts (a- 1, 2 and 3)</b>					83		4.2	1.0	5.2																																
<b>2b Sink/Construct Shafts (b- 4 and 5)</b>					20		2.0	19.0	21.0																																
<b>3a Construct Tunnels (a- 1 to 2 and 2 to 3)</b>					285		14.3	5.1	19.4																																
<b>3b Construct Tunnels (b- 2 to 5 and 4 to 6)</b>					100		5.0	19.4	24.4																																
<b>4 Drain Reservoir / Build Shaft 4 and Connect to 3 / Activate Bypass</b>					108		5.4	11.0	16.4																																
<b>5 Demolition of Inlet &amp; Outlet, Reservoir liner</b>					4,650	47	2.3	13.0	15.3																																
<b>6 Installation of CAB, Asphalt Liner, and Vaults</b>					10363	140	6.5	21.0	27.5																																
<b>7 Installation of Floating Cover</b>					323,100	50	3.0	28.0	31.0																																
<b>8 Fill Reservoir / Demobilize</b>					55	20	1.0	31.0	32.0																																

<b>Total Vehicles</b>	489	558	558	578	578	692	692	692	736	736	736	1,231	1,228	2,113	2,093	1,208	713	713	713	1,221	1,221	1,356	1,356	1,356	663	663	663	663	382	382	382	120
<b>Total Delivery Vehicle Trips</b>	151	108	108	128	128	109	109	109	153	153	153	216	213	678	658	193	130	130	130	188	188	273	273	273	163	163	163	163	22	22	22	0
<b>Avg. Daily Delivery Vehicle Trips</b>	8	5	5	6	6	5	5	5	8	8	8	11	11	34	33	10	6	6	6	9	9	14	14	14	8	8	8	8	1	1	1	0
<b>Total Commuter Vehicle Trips</b>	338	450	450	450	450	583	583	583	583	583	583	1,015	1,015	1,435	1,435	1,015	583	583	583	1,033	1,033	1,083	1,083	1,083	500	500	500	500	360	360	360	120
<b>Avg. Daily Commuter Vehicle Trips</b>	17	23	23	23	23	29	29	29	29	29	29	51	51	72	72	51	29	29	29	52	52	54	54	54	25	25	25	25	18	18	18	6
<b>Avg. Daily Total Vehicle Trips</b>	24	28	28	29	29	35	35	35	37	37	37	62	61	106	105	60	36	36	36	61	61	68	68	68	33	33	33	33	19	19	19	6













**LADWP Elysian Reservoir Project  
Inlet Line Construction  
ESTIMATED VEHICLE TRIPS**

	QTY		Trips		Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
			Per Mon	Total																								
Mob	1	ls		40		20	20																					
Construction Support Supplies			25			25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Pipe (Casing, carrier, and connector pipe to RSTL)	4750	LF		220					22	22	22	22	22	22	9	9	9	9	9	9	9	9	9	9	5			
1 Move in & site preparation			25			25	25																					
2 Excavate & shore tunnel launch and receiving pit	890	CY		135				135																				
3 Tunneling and 102 inch diameter casing	5,023	CY		753					126	126	126	126	126	126														
4 54 inch diameter Carrier installation (see pipe delivery above)																												
5 Cut and cover from launch pit to RSTL connection, backfilling excavations	847	CY		321																					321			
6 Riverside Dr. and Caltrans Island restoration							10																			5	10	
7 Demobilize																												
Fuel (diesel)			20			10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10			
Concrete Operations			22					22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
Total Commuter Vehicle Trips						340	340	360	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	200	120	120	60

General Construction Schedule		Quantity	WD	Months	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Move in & site preparation		40	2.0	0.0	2.0																							
2	Excavate & shore tunnel launch pit	890 CY	60	1.0	2.0	3.0																							
3	Tunneling and 102 inch diameter casing	2300 LF	115	5.8	3.0	8.8																							
4	54 inch diameter Carrier installation	2300 LF	192	9.6	9.0	18.6																							
5	Cut and cover from launch pit to RSTL connection, backfilling excavations	122 LF	10	0.5	19.0	19.5																							
6	Riverside Dr. and Caltrans Island restoration	47,500 SF	40	2.0	20.0	22.0																							
7	Demobilize		20	1.0	22.0	23.0																							

<b>Total Vehicles</b>	420	440	562	434	434	434	434	434	434	434	336	336	336	336	336	336	336	336	336	336	336	336	336	336	583	125	130	60
<b>Total Delivery Vehicle Trips</b>	80	100	202	214	214	214	214	214	214	214	76	76	76	76	76	76	76	76	76	76	76	76	76	76	383	5	10	0
<b>Avg. Daily Delivery Vehicle Trips</b>	4	5	10	11	11	11	11	11	11	11	4	4	4	4	4	4	4	4	4	4	4	4	4	19	0	1	0	
<b>Total Commuter Vehicle Trips</b>	340	340	360	220	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	260	260	260	260	200	120	120	60
<b>Avg. Daily Commuter Vehicle Trips</b>	17	17	18	11	11	11	11	11	11	11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	10	6	6	3
<b>Avg. Daily Total Vehicle Trips</b>	21	22	28	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17	17	17	17	17	17	29	6	7	3	

**LADWP Elysian Reservoir Project  
Inlet Line Construction  
ESTIMATED VEHICLE TRIPS**

	QTY		Trips		Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
			Per Mon	Total																								
Mob	1	ls		40		20	20																					
Construction Support Supplies			25			25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Pipe (Casing, carrier, and connector pipe to RSTL)	4750	LF		220					22	22	22	22	22	22	9	9	9	9	9	9	9	9	9	9	5			
1 Move in & site preparation			25			25	25																					
2 Excavate & shore tunnel launch and receiving pit	890	CY		135				135																				
3 Tunneling and 102 inch diameter casing	5,023	CY		753					126	126	126	126	126	126														
4 54 inch diameter Carrier installation (see pipe delivery above)																												
5 Cut and cover from launch pit to RSTL connection, backfilling excavations	847	CY		321																					321			
6 Riverside Dr. and Caltrans Island restoration							10																			5	10	
7 Demobilize																												
Fuel (diesel)			20			10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10			
Concrete Operations			22					22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
Total Commuter Vehicle Trips						340	340	360	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	200	120	120	60

General Construction Schedule					Quantity	WD	Months	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Move in & site preparation		40	2.0	0.0	2.0																										
2	Excavate & shore tunnel launch pit	890 CY	60	1.0	2.0	3.0																										
3	Tunneling and 102 inch diameter casing	2300 LF	115	5.8	3.0	8.8																										
4	54 inch diameter Carrier installation	2300 LF	192	9.6	9.0	18.6																										
5	Cut and cover from launch pit to RSTL connection, backfilling excavations	122 LF	10	0.5	19.0	19.5																										
6	Riverside Dr. and Caltrans Island restoration	47,500 SF	40	2.0	20.0	22.0																										
7	Demobilize		20	1.0	22.0	23.0																										

<b>Total Vehicles</b>	420	440	562	434	434	434	434	434	434	434	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	583	125	130	60
<b>Total Delivery Vehicle Trips</b>	80	100	202	214	214	214	214	214	214	214	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
<b>Avg. Daily Delivery Vehicle Trips</b>	4	5	10	11	11	11	11	11	11	11	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
<b>Total Commuter Vehicle Trips</b>	340	340	360	220	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	200	120	120	60
<b>Avg. Daily Commuter Vehicle Trips</b>	17	17	18	11	11	11	11	11	11	11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	10	6	6	3
<b>Avg. Daily Total Vehicle Trips</b>	21	22	28	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	29	6	7	3

**LADWP Elysian Reservoir Project  
Inlet Line Construction  
ESTIMATED VEHICLE TRIPS**

	QTY		Trips		Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
			Per Mon	Total																								
Mob	1	ls		40		20	20																					
Construction Support Supplies			25			25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Pipe (Casing, carrier, and connector pipe to RSTL)	4750	LF		220					22	22	22	22	22	22	9	9	9	9	9	9	9	9	9	9	5			
1 Move in & site preparation			25			25	25																					
2 Excavate & shore tunnel launch and receiving pit	890	CY		135				135																				
3 Tunneling and 102 inch diameter casing	5,023	CY		753					126	126	126	126	126	126														
4 54 inch diameter Carrier installation (see pipe delivery above)																												
5 Cut and cover from launch pit to RSTL connection, backfilling excavations	847	CY		321																					321			
6 Riverside Dr. and Caltrans Island restoration																										5	10	
7 Demobilize																												
Fuel (diesel)			20			10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10			
Concrete Operations			22					22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
Total Commuter Vehicle Trips						340	340	360	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	200	120	120	60

General Construction Schedule		Quantity	WD	Months	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Move in & site preparation		40	2.0	0.0	2.0																							
2	Excavate & shore tunnel launch pit	890 CY	60	1.0	2.0	3.0																							
3	Tunneling and 102 inch diameter casing	2300 LF	115	5.8	3.0	8.8																							
4	54 inch diameter Carrier installation	2300 LF	192	9.6	9.0	18.6																							
5	Cut and cover from launch pit to RSTL connection, backfilling excavations	122 LF	10	0.5	19.0	19.5																							
6	Riverside Dr. and Caltrans Island restoration	47,500 SF	40	2.0	20.0	22.0																							
7	Demobilize		20	1.0	22.0	23.0																							

<b>Total Vehicles</b>	420	440	562	434	434	434	434	434	434	434	336	336	336	336	336	336	336	336	336	336	336	336	336	336	583	125	130	60
<b>Total Delivery Vehicle Trips</b>	80	100	202	214	214	214	214	214	214	214	76	76	76	76	76	76	76	76	76	76	76	76	76	76	383	5	10	0
<b>Avg. Daily Delivery Vehicle Trips</b>	4	5	10	11	11	11	11	11	11	11	4	4	4	4	4	4	4	4	4	4	4	4	4	19	0	1	0	
<b>Total Commuter Vehicle Trips</b>	340	340	360	220	220	220	220	220	220	220	260	260	260	260	260	260	260	260	260	260	260	260	260	260	200	120	120	60
<b>Avg. Daily Commuter Vehicle Trips</b>	17	17	18	11	11	11	11	11	11	11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	10	6	6	3
<b>Avg. Daily Total Vehicle Trips</b>	21	22	28	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17	17	17	17	17	17	29	6	7	3	