

Appendix C

## **Transportation Technical Appendix**

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**Southport Existing ADT and LOS on Major Local Haul Routs**

Street	Segments	Road Type	ADT	LOS	Year	Maximum ADT (vehicles/day) per LOS					Facility Type for LOS Criteria
						A	B	C	D	E	
Jefferson Blvd	West Capitol Ave to Lake Washington Blvd	4-lane Principal Arterial	34,938	E	2006	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Jefferson Blvd	Lake Washington to Linden Rd (S)	4-lane Principal Arterial	19,015	A	2006	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Jefferson Blvd	Linden Rd (S) to city limits (S)	2-lane Principal Arterial	15,864	D	2006	10,800	12,600	14,400	16,200	18,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Lake Washington Blvd	Stone Blvd to Jefferson Blvd	4-lane Principal Arterial	7,483	A	2006	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Industrial Blvd	Parkway Blvd to Stone Blvd	4-lane Principal Arterial	18,851	A	2008	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Industrial Blvd	Enterprise Blvd to Parkway Blvd	4-lane Principal Arterial	8,036	A	2007	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Enterprise Blvd	Seaport Blvd to Industrial Blvd	4-lane Principal Arterial	16,424	A	2004	21,600	25,200	28,800	32,400	36,000	Arterial, moderate access control (2-4 stops/mile, few driveways, 35-45 mph)
Linden Rd	Jefferson Blvd to Stonegate Dr	2-lane Minor Arterial	3,995	A	2007	6,000	7,000	8,000	9,000	10,000	Residential collector without access
Linden Rd	Stonegate Dr to S River Rd	2-lane Collector	1,491	A	2007	1,600	3,200	4,800	6,400	8,000	Residential collector with access
Davis Rd	Jefferson Blvd to S River Rd	2-lane Minor Arterial	269	A	2006	1,600	3,200	4,800	6,400	8,000	Residential collector with access
Gregory Ave	Jefferson Blvd to S River Rd	2-lane Minor Arterial	1,395	A	2007	1,600	3,200	4,800	6,400	8,000	Residential collector with access
Burrows Ave	Jefferson Blvd to S River Rd	2-lane Local Road	No data available			1,600	3,200	4,800	6,400	8,000	Residential collector with access

Sources: City of West Sacramento 2008, 2009a. City of West Sacramento 2006.

Date: 9/26/2012

**Southport Estimated ADT and LOS on Major Local Haul Routs During Construction**

**Alternative 1 - Unfavorable**

**Maximum and Average Daily Trip Distribution on Major Haul Routes**

Haul Road	Phase 1			Phase 2		
	Maximum Daily Trips	Average Daily Trip	Duration (Weeks)	Maximum Daily Trips	Average Daily Trip	Duration (Weeks)
Jefferson Blvd north of Industrial Blvd	935	345	17	620	150	24
Jefferson Blvd south of Industrial Blvd	2,870	1,290	17	1,040	540	24
Industrial Blvd	1,910	1,335	8	690	690	9
Linden Rd	1,720	580	17	-	-	-
Davis Rd	1,715	675	11	-	-	-
Gregory Ave	-	-	-	1,345	385	24
Burrows Ave	-	-	-	1,365	250	12

**Alternative 2 - Unfavorable**

**Maximum and Average Daily Trip Distribution on Major Haul Routes**

Haul Road	Phase 1			Phase 2		
	Maximum Daily Trips	Average Daily Trip	Duration (Weeks)	Maximum Daily Trips	Average Daily Trip	Duration (Weeks)
Jefferson Blvd north of Industrial Blvd	910	380	27	565	295	28
Jefferson Blvd south of Industrial Blvd	2,365	1,265	27	2,090	700	28
Industrial Blvd	1,575	940	17	1390	850	9
Linden Rd	1,490	620	27	-	-	-
Davis Rd	1,320	695	24	-	-	-
Gregory Ave	-	-	-	1,305	455	28
Burrows Ave	-	-	-	1,315	220	23

**Proposed ADT and LOS on Major Local Haul Routs During Construction**

Street	Segments	Existing ADT	Average Construction Daily Trips	Average Construction Daily PCE	Total ADT with Construction Trips	LOS During Construction
Jefferson Blvd	West Capitol Ave to Lake Washington Blvd	34,938	345	518	35,456	E
Jefferson Blvd	Lake Washington to Linden Rd (S)	19,015	1,290	1,935	20,950	A
Jefferson Blvd	Linden Rd (S) to city limits (S)	15,864	1,290	1,935	17,799	E
Lake Washington Blvd	Stone Blvd to Jefferson Blvd	7,483	1,335	2,003	9,486	A
Industrial Blvd	Parkway Blvd to Stone Blvd	18,851	1,335	2,003	20,854	A
Industrial Blvd	Enterprise Blvd to Parkway Blvd	8,036	1,335	2,003	10,039	A
Enterprise Blvd	Seaport Blvd to Industrial Blvd	16,424	1,335	2,003	18,427	A
Linden Rd	Jefferson Blvd to Stonegate Dr	3,995	580	870	4,865	A
Linden Rd	Stonegate Dr to S River Rd	1,491	580	870	2,361	B
Davis Rd	Jefferson Blvd to S River Rd	269	675	1,013	1,282	A
Gregory Ave	Jefferson Blvd to S River Rd	1,395	385	578	1,973	B
Burrows Ave	Jefferson Blvd to S River Rd	No data available	250	375	375	A
			PCE	1.5		

**Proposed ADT and LOS on Major Local Haul Routs During Construction**

Street	Segments	Existing ADT	Average Construction Daily Trips	Average Construction Daily PCE	Total ADT with Construction Trips	LOS During Construction
Jefferson Blvd	West Capitol Ave to Lake Washington Blvd	34,938	380	570	35,508	E
Jefferson Blvd	Lake Washington to Linden Rd (S)	19,015	1,265	1,898	20,913	A
Jefferson Blvd	Linden Rd (S) to city limits (S)	15,864	1,265	1,898	17,762	E
Lake Washington Blvd	Stone Blvd to Jefferson Blvd	7,483	940	1,410	8,893	A
Industrial Blvd	Parkway Blvd to Stone Blvd	18,851	940	1,410	20,261	A
Industrial Blvd	Enterprise Blvd to Parkway Blvd	8,036	940	1,410	9,446	A
Enterprise Blvd	Seaport Blvd to Industrial Blvd	16,424	940	1,410	17,834	A
Linden Rd	Jefferson Blvd to Stonegate Dr	3,995	620	930	4,925	A
Linden Rd	Stonegate Dr to S River Rd	1,491	620	930	2,421	B
Davis Rd	Jefferson Blvd to S River Rd	269	695	1,043	1,312	A
Gregory Ave	Jefferson Blvd to S River Rd	1,395	455	683	2,078	B
Burrows Ave	Jefferson Blvd to S River Rd	No data available	220	330	330	A
			PCE	1.5		

**Alternative 3 - Unfavorable**

**Maximum and Average Daily Trip Distribution on Major Haul Routes**

Haul Road	Phase 1			Phase 2		
	Maximum	Average	Duration	Maximum	Average	Duration
	Daily Trips	Daily Trip	(Weeks)	Daily Trips	Daily Trip	(Weeks)
Jefferson Blvd north of Industrial Blvd	1175	410	22	575	230	22
Jefferson Blvd south of Industrial Blvd	3,115	1,020	22	2,075	560	22
Industrial Blvd	2,075	1,500	6	1385	805	6
Linden Rd	1,485	540	20	-	-	-
Davis Rd	1,455	505	22	-	-	-
Gregory Ave	-	-	-	1,390	295	22
Burrows Ave	-	-	-	1,510	230	22

**Alternative 4 - Unfavorable**

**Maximum and Average Daily Trip Distribution on Major Haul Routes**

Haul Road	Phase 1			Phase 2		
	Maximum	Average	Duration	Maximum	Average	Duration
	Daily Trips	Daily Trip	(Weeks)	Daily Trips	Daily Trip	(Weeks)
Jefferson Blvd north of Industrial Blvd	920	355	24	565	275	30
Jefferson Blvd south of Industrial Blvd	2,090	1,135	24	2,090	690	30
Industrial Blvd	1,390	895	14	1390	830	10
Linden Rd	1,355	585	17	-	-	-
Davis Rd	1,330	690	24	-	-	-
Gregory Ave	-	-	-	1,305	465	30
Burrows Ave	-	-	-	1,315	195	23

**Proposed ADT and LOS on Major Local Haul Routs During Construction**

Street	Segments	Existing ADT	Average	Average	Total ADT with Construction	LOS During Construction
			Construction Daily Trips	Construction Daily PCE		
Jefferson Blvd	West Capitol Ave to Lake Washington Blvd	34,938	410	615	35,553	E
Jefferson Blvd	Lake Washington to Linden Rd (S)	19,015	1,020	1,530	20,545	A
Jefferson Blvd	Linden Rd (S) to city limits (S)	15,864	1,020	1,530	17,394	E
Lake Washington Blvd	Stone Blvd to Jefferson Blvd	7,483	1500	2,250	9,733	A
Industrial Blvd	Parkway Blvd to Stone Blvd	18,851	1,500	2,250	21,101	A
Industrial Blvd	Enterprise Blvd to Parkway Blvd	8,036	1,500	2,250	10,286	A
Enterprise Blvd	Seaport Blvd to Industrial Blvd	16,424	1,500	2,250	18,674	A
Linden Rd	Jefferson Blvd to Stonegate Dr	3,995	540	810	4,805	A
Linden Rd	Stonegate Dr to S River Rd	1,491	540	810	2,301	B
Davis Rd	Jefferson Blvd to S River Rd	269	505	758	1,027	A
Gregory Ave	Jefferson Blvd to S River Rd	1,395	295	443	1,838	B
Burrows Ave	Jefferson Blvd to S River Rd	No data available	230	345	345	A
			PCE	1.5		

**Proposed ADT and LOS on Major Local Haul Routs During Construction**

Street	Segments	Existing ADT	Average	Average	Total ADT with Construction	LOS During Construction
			Construction Daily Trips	Construction Daily PCE		
Jefferson Blvd	West Capitol Ave to Lake Washington Blvd	34,938	355	533	35,471	E
Jefferson Blvd	Lake Washington to Linden Rd (S)	19,015	1,135	1,703	20,718	A
Jefferson Blvd	Linden Rd (S) to city limits (S)	15,864	1,135	1,703	17,567	E
Lake Washington Blvd	Stone Blvd to Jefferson Blvd	7,483	895	1,343	8,826	A
Industrial Blvd	Parkway Blvd to Stone Blvd	18,851	895	1,343	20,194	A
Industrial Blvd	Enterprise Blvd to Parkway Blvd	8,036	895	1,343	9,379	A
Enterprise Blvd	Seaport Blvd to Industrial Blvd	16,424	895	1,343	17,767	A
Linden Rd	Jefferson Blvd to Stonegate Dr	3,995	585	878	4,873	A
Linden Rd	Stonegate Dr to S River Rd	1,491	585	878	2,369	B
Davis Rd	Jefferson Blvd to S River Rd	269	690	1,035	1,304	A
Gregory Ave	Jefferson Blvd to S River Rd	1,395	465	698	2,093	B
Burrows Ave	Jefferson Blvd to S River Rd	No data available	195	293	293	A
			PCE	1.5		

**Phase 1 (2013) Daily Vehicle Trip Distribution**

**Trip Generation and Distribution**

		Trip Generation			Trip Distribution									
		Max Daily Trips	Average Daily Trips	Duration (weeks)	Jefferson Blvd north of Industrial Blvd		Jefferson Blvd south of Industrial Blvd		Industrial Blvd		Linden Rd		Davis Rd	
					Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips
<b>Alternative 1 Phase 1 - Unfavorable</b>														
All	Project Site Activities	1248	461	17	936	346	936	346	0	0				
C	Project Site Activities	370	217	11	278	163	278	163	0	0	0	0	278	163
D	Project Site Activities	374	83	11	281	62	281	62	0	0	0	0	281	62
E	Project Site Activities	408	138	6	306	103	306	103	0	0	153	52	153	52
F	Project Site Activities	380	134	17	285	100	285	100	0	0	285	100	0	0
G	Project Site Activities	384	83	9	288	62	288	62	0	0	288	62	0	0
All	Off-Site Borrow	3824	2670	8	0	0	2868	2003	1912	1335				
C	Off-Site Borrow	1912	1912	5	0	0	1434	1434	956	956	0	0	1434	1434
D	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	0	0	1038	1038
E	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	519	519	519	519
F	Off-Site Borrow	1912	1912	4	0	0	1434	1434	956	956	1434	1434	0	0
G	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>936</b>	<b>346</b>	<b>2868</b>	<b>1288</b>	<b>1912</b>	<b>1335</b>	<b>1722</b>	<b>581</b>	<b>1715</b>	<b>677</b>
<b>Duration of Average Trips (weeks)</b>						<b>17</b>		<b>17</b>		<b>8</b>		<b>17</b>		<b>11</b>
<b>Alternative 2 Phase 1 - Unfavorable</b>														
All	Project Site Activities	1212	505	27	909	379	909	379	0	0				
C	Project Site Activities	356	188	24	267	141	267	141	0	0	0	0	267	141
D	Project Site Activities	374	121	8	281	91	281	91	0	0	0	0	281	91
E	Project Site Activities	408	160	8	306	120	306	120	0	0	153	60	153	60
F	Project Site Activities	408	176	27	306	132	306	132	0	0	306	132	0	0
G	Project Site Activities	350	117	9	263	88	263	88	0	0	263	88	0	0
All	Off-Site Borrow	3152	1876	17	0	0	2364	1407	1576	938				
C	Off-Site Borrow	1384	1384	8	0	0	1038	1038	692	692	0	0	1038	1038
D	Off-Site Borrow	1320	1320	2	0	0	990	990	660	660	0	0	990	990
E	Off-Site Borrow	1576	1576	3	0	0	1182	1182	788	788	591	591	591	591
F	Off-Site Borrow	1320	1320	9	0	0	990	990	660	660	990	990	0	0
G	Off-Site Borrow	1576	1576	1	0	0	1182	1182	788	788	1182	1182	0	0
<b>Total Trips on each Street Segment</b>					<b>909</b>	<b>379</b>	<b>2364</b>	<b>1265</b>	<b>1576</b>	<b>938</b>	<b>1488</b>	<b>618</b>	<b>1319</b>	<b>693</b>
<b>Duration of Average Trips (weeks)</b>						<b>27</b>		<b>27</b>		<b>17</b>		<b>27</b>		<b>24</b>
<b>Alternative 3 Phase 1 - Unfavorable</b>														
All	Project Site Activities	1564	544	22	1173	408	1173	408	0	0				
C	Project Site Activities	486	88	22	365	66	365	66	0	0	0	0	365	66
D	Project Site Activities	554	143	16	416	107	416	107	0	0	0	0	416	107
E	Project Site Activities	594	161	19	446	121	446	121	0	0	223	60	223	60
F	Project Site Activities	594	87	20	446	65	446	65	0	0	446	65	0	0
G	Project Site Activities	418	138	15	314	104	314	104	0	0	314	104	0	0
All	Off-Site Borrow	4152	2999	6	0	0	3114	2249	2076	1499				
C	Off-Site Borrow	1384	1384	5	0	0	1038	1038	692	692	0	0	1038	1038
D	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	0	0	1038	1038
E	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	519	519	519	519
F	Off-Site Borrow	1384	1384	5	0	0	1038	1038	692	692	1038	1038	0	0
G	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>1173</b>	<b>408</b>	<b>3114</b>	<b>1022</b>	<b>2076</b>	<b>1499</b>	<b>1484</b>	<b>538</b>	<b>1454</b>	<b>503</b>
<b>Duration of Average Trips (weeks)</b>						<b>22</b>		<b>22</b>		<b>6</b>		<b>20</b>		<b>22</b>

**Alternative 4 Phase 1 - Unfavorable**

All	Project Site Activities	1228	471	24	921	353	921	353	0	0				
C	Project Site Activities	356	188	24	267	141	267	141	0	0	0	0	267	141
D	Project Site Activities	374	110	9	281	82	281	82	0	0	0	0	281	82
E	Project Site Activities	408	160	8	306	120	306	120	0	0	153	60	153	60
F	Project Site Activities	408	150	17	306	113	306	113	0	0	306	113	0	0
G	Project Site Activities	350	147	7	263	110	263	110	0	0	263	110	0	0
All	Off-Site Borrow	2784	1786	14	0	0	2088	1340	1392	893				
C	Off-Site Borrow	1384	1384	8	0	0	1038	1038	692	692	0	0	1038	1038
D	Off-Site Borrow	1400	1400	2	0	0	1050	1050	700	700	0	0	1050	1050
E	Off-Site Borrow	1384	1384	3	0	0	1038	1038	692	692	519	519	519	519
F	Off-Site Borrow	1400	1400	4	0	0	1050	1050	700	700	1050	1050	0	0
G	Off-Site Borrow	1384	1384	1	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>921</b>	<b>353</b>	<b>2088</b>	<b>1135</b>	<b>1392</b>	<b>893</b>	<b>1356</b>	<b>586</b>	<b>1331</b>	<b>690</b>
<b>Duration of Average Trips (weeks)</b>						<b>24</b>		<b>24</b>		<b>14</b>		<b>17</b>		<b>24</b>

**Trip Distribution Assumptions:**

- 75% On-site excavated material and debris on Public Road
- 75% Material borrow trucks on public roads
- 50% Material borrow from Deep Water Ship Channel

Segment	% of Road Acces to each Segment				
	Jefferson	Linden	Davis	Gregory	Burrows
A	100%	0	0	0	100%
B	100%	0	0	100%	0
C	100%	0	100%	0	0
D	100%	0	100%	0	0
E	100%	50%	50%	0	0
F	100%	100%	0	0	0
G	100%	100%	0	0	0

Date: 9/26/2012

## Phase 1 (2013) Daily Vehicle Trip Distribution

### Trip Generation and Distribution

		Trip Generation			Jefferson Blvd north of Industrial Blvd		Jefferson Blvd south of Industrial Blvd		Industrial Blvd		Gregory Ave		Burrows Ave	
		Max Daily Trips	Average Daily Trips	Duration (weeks)	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips	Max Daily Trips	Average Daily Trips
<b>Alternative 1 Phase 1 - Unfavorable</b>														
All	Project Site Activities	826	201	24	620	151	620	151	0	0				
A	Project Site Activities	436	102	12	327	76	327	76	0	0	0	0	327	76
B	Project Site Activities	406	111	24	305	83	305	83	0	0	305	83	0	0
All	Off-Site Borrow	1384	1384	9	0	0	1038	1038	692	692				
A	Off-Site Borrow	1384	1384	2	0	0	1038	1038	692	692	0	0	1038	1038
B	Off-Site Borrow	1384	1384	7	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>620</b>	<b>151</b>	<b>1038</b>	<b>540</b>	<b>692</b>	<b>692</b>	<b>1343</b>	<b>386</b>	<b>1365</b>	<b>249</b>
<b>Duration of Average Trips (weeks)</b>						<b>24</b>		<b>24</b>		<b>9</b>		<b>24</b>		<b>12</b>
<b>Alternative 2 Phase 1 - Unfavorable</b>														
All	Project Site Activities	752	390	28	564	293	564	293	0	0				
A	Project Site Activities	356	233	23	267	175	267	175	0	0	0	0	267	175
B	Project Site Activities	356	159	28	267	119	267	119	0	0	267	119	0	0
All	Off-Site Borrow	2784	1695	9	0	0	2088	1271	1392	848				
A	Off-Site Borrow	1400	1400	2	0	0	1050	1050	700	700	0	0	1050	1050
B	Off-Site Borrow	1384	1384	9	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>564</b>	<b>293</b>	<b>2088</b>	<b>701</b>	<b>1392</b>	<b>848</b>	<b>1305</b>	<b>453</b>	<b>1317</b>	<b>219</b>
<b>Duration of Average Trips (weeks)</b>						<b>28</b>		<b>28</b>		<b>9</b>		<b>28</b>		<b>23</b>
<b>Alternative 3 Phase 1 - Unfavorable</b>														
All	Project Site Activities	768	305	22	576	229	576	229	0	0				
A	Project Site Activities	628	183	22	471	138	471	138	0	0	0	0	471	138
B	Project Site Activities	466	82	22	350	61	350	61	0	0	350	61	0	0
All	Off-Site Borrow	2768	1615	6	0	0	2076	1211	1384	807				
A	Off-Site Borrow	1384	1384	2	0	0	1038	1038	692	692	0	0	1038	1038
B	Off-Site Borrow	1384	1384	5	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>576</b>	<b>229</b>	<b>2076</b>	<b>559</b>	<b>1384</b>	<b>807</b>	<b>1388</b>	<b>297</b>	<b>1509</b>	<b>232</b>
<b>Duration of Average Trips (weeks)</b>						<b>22</b>		<b>22</b>		<b>6</b>		<b>22</b>		<b>22</b>
<b>Alternative 4 Phase 1 - Unfavorable</b>														
All	Project Site Activities	752	366	30	564	274	564	274	0	0				
A	Project Site Activities	356	218	23	267	163	267	163	0	0	0	0	267	163
B	Project Site Activities	356	159	30	267	119	267	119	0	0	267	119	0	0
All	Off-Site Borrow	2784	1664	10	0	0	2088	1248	1392	832				
A	Off-Site Borrow	1400	1400	2	0	0	1050	1050	700	700	0	0	1050	1050
B	Off-Site Borrow	1384	1384	10	0	0	1038	1038	692	692	1038	1038	0	0
<b>Total Trips on each Street Segment</b>					<b>564</b>	<b>274</b>	<b>2088</b>	<b>690</b>	<b>1392</b>	<b>832</b>	<b>1305</b>	<b>465</b>	<b>1317</b>	<b>195</b>
<b>Duration of Average Trips (weeks)</b>						<b>30</b>		<b>30</b>		<b>10</b>		<b>30</b>		<b>23</b>

**Trip Distribution Assumptions:**

- 75% On-site excavated material and debris on Public Road
- 75% Material borrow trucks on public roads
- 50% Material borrow from Deep Water Ship Channel

Segment	% of Road Acces to each Segment				
	Jefferson	Linden	Davis	Gregory	Burrows
A	100%	0	0	0	100%
B	100%	0	0	100%	0
C	100%	0	100%	0	0
D	100%	0	100%	0	0
E	100%	50%	50%	0	0
F	100%	100%	0	0	0
G	100%	100%	0	0	0

Date: 9/26/2012



**2013 Daily Vehicle Trips on Local Streets from Project Site Related Activities**

Alternative/Segment/Construction Phase	4/28/2013 - 5/4/2013	5/5/2013 - 5/11/2013	5/12/2013 - 5/18/2013	5/19/2013 - 5/25/2013	5/26/2013 - 6/1/2013	6/2/2013 - 6/8/2013	6/9/2013 - 6/15/2013	6/16/2013 - 6/22/2013	6/23/2013 - 6/29/2013
<b>Alternative 1 Phase 1 - Unfavorable</b>	<b>910.0</b>	<b>860.0</b>	<b>484.0</b>	<b>1158.0</b>	<b>1248.0</b>	<b>1074.0</b>	<b>470.0</b>	<b>172.0</b>	<b>172.0</b>
C	370.0	370.0	370.0	370.0	370.0	52.0	52.0	52.0	52.0
D	62.0	20.0	20.0	350.0	40.0	374.0	10.0	10.0	10.0
E	350.0	8.0	8.0	40.0	408.0	12.0	0.0	0.0	0.0
F	80.0	38.0	38.0	350.0	350.0	350.0	350.0	52.0	52.0
G	8.0	384.0	8.0	8.0	40.0	246.0	18.0	18.0	18.0
Additional Workforce	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Alternative 2 Phase 1 - Unfavorable</b>	<b>1006.0</b>	<b>1148.0</b>	<b>806.0</b>	<b>836.0</b>	<b>536.0</b>	<b>1066.0</b>	<b>1212.0</b>	<b>1150.0</b>	<b>764.0</b>
C	232.0	350.0	350.0	350.0	350.0	356.0	356.0	356.0	356.0
D	118.0	20.0	20.0	350.0	8.0	40.0	40.0	374.0	0.0
E	350.0	350.0	8.0	50.0	50.0	50.0	408.0	12.0	0.0
F	258.0	38.0	38.0	38.0	38.0	350.0	350.0	350.0	350.0
G	8.0	350.0	350.0	8.0	50.0	230.0	18.0	18.0	18.0
C-G	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional Workforce	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Alternative 3 Phase 1 - Unfavorable</b>	<b>984.0</b>	<b>1506.0</b>	<b>1562.0</b>	<b>1564.0</b>	<b>1254.0</b>	<b>546.0</b>	<b>690.0</b>	<b>178.0</b>	<b>1034.0</b>
C	214.0	350.0	350.0	40.0	40.0	40.0	40.0	40.0	486.0
D	120.0	350.0	378.0	378.0	378.0	40.0	554.0	10.0	10.0
E	350.0	378.0	378.0	378.0	378.0	378.0	8.0	8.0	40.0
F	252.0	38.0	38.0	350.0	40.0	40.0	40.0	40.0	40.0
G	8.0	350.0	378.0	378.0	378.0	8.0	8.0	40.0	418.0
Additional Workforce	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Alternative 4 Phase 1 - Unfavorable</b>	<b>1006.0</b>	<b>1148.0</b>	<b>806.0</b>	<b>836.0</b>	<b>536.0</b>	<b>1066.0</b>	<b>1228.0</b>	<b>1132.0</b>	<b>764.0</b>
C	232.0	350.0	350.0	350.0	350.0	356.0	356.0	356.0	356.0
D	118.0	20.0	20.0	350.0	8.0	40.0	40.0	374.0	18.0
E	350.0	350.0	8.0	50.0	50.0	50.0	408.0	12.0	0.0
F	258.0	38.0	38.0	38.0	38.0	350.0	350.0	350.0	350.0
G	8.0	350.0	350.0	8.0	50.0	230.0	34.0	0.0	0.0
C-G	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional Workforce	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**2013 Daily Vehicle Trips on Local Streets from Off-Site Material Borrow Activities**

<b>Alternative 1 Phase 1 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1384.0</b>	<b>2768.0</b>	<b>1912.0</b>	<b>1912.0</b>	<b>3824.0</b>	<b>3824.0</b>
C C-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	1912.0	1912.0	1912.0	1912.0
D D-Off-Site Material Borrow	0.0	0.0	0.0	0.0	1384.0	0.0	0.0	0.0	0.0
E E-Off-Site Material Borrow	0.0	0.0	0.0	1384.0	0.0	0.0	0.0	0.0	0.0
F F-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1912.0	1912.0
G G-Off-Site Material Borrow	0.0	0.0	0.0	0.0	1384.0	0.0	0.0	0.0	0.0
<b>Alternative 2 Phase 1 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1576.0</b>	<b>3152.0</b>	<b>2896.0</b>	<b>1320.0</b>	<b>0.0</b>	<b>0.0</b>
C C-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D D-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	1320.0	1320.0	0.0	0.0
E E-Off-Site Material Borrow	0.0	0.0	0.0	1576.0	1576.0	1576.0	0.0	0.0	0.0
F F-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G G-Off-Site Material Borrow	0.0	0.0	0.0	0.0	1576.0	0.0	0.0	0.0	0.0
<b>Alternative 3 Phase 1 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1384.0</b>	<b>2768.0</b>	<b>4152.0</b>	<b>2768.0</b>	<b>4152.0</b>	<b>2768.0</b>
C C-Off-Site Material Borrow	0.0	0.0	0.0	1384.0	1384.0	1384.0	1384.0	1384.0	0.0
D D-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	1384.0	0.0	0.0	0.0
E E-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384.0
F F-Off-Site Material Borrow	0.0	0.0	0.0	0.0	1384.0	1384.0	1384.0	1384.0	1384.0
G G-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384.0	0.0
<b>Alternative 4 Phase 1 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1384.0</b>	<b>2768.0</b>	<b>2784.0</b>	<b>1400.0</b>	<b>0.0</b>	<b>0.0</b>
C C-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D D-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	1400.0	1400.0	0.0	0.0
E E-Off-Site Material Borrow	0.0	0.0	0.0	1384.0	1384.0	1384.0	0.0	0.0	0.0
F F-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G G-Off-Site Material Borrow	0.0	0.0	0.0	0.0	1384.0	0.0	0.0	0.0	0.0





Alternative/Segment/Construction Phase	Max Trips	Average Trips	Duration (weeks)	Total Vehicle Trips	Haul Trucks	Workers	Trips / truck and worker PCE per vehicle
					2 1	2 1	
<b>Alternative 1 Phase 1 - Unfavorable</b>	<b>1248</b>	<b>461</b>	<b>17</b>				
C	370	217	11				
D	374	83	11				
E	408	138	6				
F	380	134	17				
G	384	83	9				
Additional Workforce Electricity				40		20	
<b>Alternative 2 Phase 1 - Unfavorable</b>	<b>1212</b>	<b>505</b>	<b>27</b>				
C	356	188	24				
D	374	121	8				
E	408	160	8				
F	408	176	27				
G	350	117	9				
C-G Additional Workforce Electricity	0			40		20	
<b>Alternative 3 Phase 1 - Unfavorable</b>	<b>1564</b>	<b>544</b>	<b>22</b>				
C	486	88	22				
D	554	143	16				
E	594	161	19				
F	594	87	20				
G	418	138	15				
Additional Workforce Electricity				40		20	
<b>Alternative 4 Phase 1 - Unfavorable</b>	<b>1228</b>	<b>471</b>	<b>24</b>				
C	356	188	24				
D	374	110	9				
E	408	160	8				
F	408	150	17				
G	350	147	7				
C-G Additional Workforce Electricity	0			40		20	
<b>2013 Daily Vehicle Trips on Local Streets</b>							
<b>Alternative 1 Phase 1 - Unfavorable</b>	<b>3824</b>	<b>2670</b>	<b>8</b>				
C C-Off-Site Material Borrow	1912	1912	5	1912	936	20	
D D-Off-Site Material Borrow	1384	1384	1	1384	672	20	
E E-Off-Site Material Borrow	1384	1384	1	1384	672	20	
F F-Off-Site Material Borrow	1912	1912	4	1912	936	20	
G G-Off-Site Material Borrow	1384	1384	1	1384	672	20	
<b>Alternative 2 Phase 1 - Unfavorable</b>	<b>3152</b>	<b>1876</b>	<b>17</b>				
C C-Off-Site Material Borrow	1384	1384	8	1384	672	20	
D D-Off-Site Material Borrow	1320	1320	2	1320	640	20	
E E-Off-Site Material Borrow	1576	1576	3	1576	768	20	
F F-Off-Site Material Borrow	1320	1320	9	1320	640	20	
G G-Off-Site Material Borrow	1576	1576	1	1576	768	20	
<b>Alternative 3 Phase 1 - Unfavorable</b>	<b>4152</b>	<b>2999</b>	<b>6</b>				
C C-Off-Site Material Borrow	1384	1384	5	1384	672	20	
D D-Off-Site Material Borrow	1384	1384	1	1384	672	20	
E E-Off-Site Material Borrow	1384	1384	1	1384	672	20	
F F-Off-Site Material Borrow	1384	1384	5	1384	672	20	
G G-Off-Site Material Borrow	1384	1384	1	1384	672	20	
<b>Alternative 4 Phase 1 - Unfavorable</b>	<b>2784</b>	<b>1786</b>	<b>14</b>				
C C-Off-Site Material Borrow	1384	1384	8	1384	672	20	
D D-Off-Site Material Borrow	1400	1400	2	1400	680	20	
E E-Off-Site Material Borrow	1384	1384	3	1384	672	20	
F F-Off-Site Material Borrow	1400	1400	4	1400	680	20	
G G-Off-Site Material Borrow	1384	1384	1	1384	672	20	

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)**

**CMA #1 PHASE 1 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame	
C	-	Building Demo	Bulldozer	0	0				July 11	
			Front End Loader	0	0					
			Excavator	0	0					
	-	Roadway Removal	Cold Planer	0	0					
			Scraper	0	0					
			Dump Truck	0	0					
	3	Roadway Replace	Bulldozer	0	0					
			Excavator	0	0					
			Dump Truck	9	1	15	20			
			Vibratory Compactor	1	1					
Asphalt Paver			1	1						
Asphalt Compactor			1	1						
C	1	Stripping	Motor Grader	1	1					
			Bulldozer	1	1					
			Dump Truck	1	1					
			Worker Commute	5	1	1	22			
			Dust Emission	4.8	33					
			4.79 Ac per day	May 1 to June 2						
	-	-	Levee Degrade	Wheel Tractor Scraper	3	26				
				Bulldozer	1	33				
				Dump Truck	10	33	17	20		
				Excavator	1	33				
2		Soil Borrow Extraction/Levee Placement	Worker Commute	15	33	1	22			
			Dust Emission	4.8	33					
			21,537 CY per day	June 3 to July 10						
			-	Levee Degrade	Scraper	0	0			
					Bulldozer	0	0			
			2	Soil Borrow Extraction/Levee Placement	Dump Truck	0	0			
Excavator	0	0								
Scraper	14	38								
Excavator	6	38								
Dump Truck	117	38			0	0				
Sheeps Foot Compactor	1	38								
D	1	Building Demo	Bulldozer	1	17					
			Front End Loader	1	17					
			Excavator	1	17					
			Haul Truck	1	1	7	20			
			Worker Commute	3	17	1	22			
			Dust Emission	1.0	1					
	1	Roadway Removal	Cold Planer	1	1					
			Scraper	1	1					
			Dump Truck	1	1	17	20			
			Bulldozer	1	1					
Excavator			1	1						
Worker Commute			4	1	1	22				
5	Roadway Replace	Dump Truck	13	3	14	20				
		Vibratory Compactor	1	3						
		Asphalt Paver	1	1						
		Asphalt Compactor	1	3						
		Motor Grader	1	3						
		Bulldozer	1	3						
2	Stripping	Worker Commute	5	3	1	22				
		Dust Emission	4.8	6						
		4.80 Ac per day	May 18 May 23							
		-	Levee Degrade	Wheel Tractor Scraper	3	5				
				Bulldozer	1	6				
				Dump Truck	10	6	17	20		
Excavator	1			6						
3	SB Cutoff Wall Installation	Worker Commute	5	6	1	22				
		Dust Emission	4.8	6						
		21,539 CY per day	May 26 June 2							
		-	Levee Degrade	Scraper	0	0				
				Bulldozer	0	0				
		3	SB Cutoff Wall Installation	Dump Truck	3	2	53	0.25		
Bulldozer	1			2						
Long Reach Excavator	1			2						
Hydraulic Excavator	1			2						
D	4	Soil Borrow Extraction/Levee Placement	ough Terrain/Telehandler Fork	1	2					
			Worker Commute	4	2	1	22			
			Dust Emission	1.5	8					
			14,539 CY per day	May 26 June 2						
			6	Rip Rap Installation	Crane	2	33			
					Bulldozer	1	33			
	Hydraulic Excavator	1			33					
	Towboat	1			33	1.5	180			
	-	4	Roadway Replace	Worker Commute	5	33	1	22		
				Dust Emission	1.5	8				
June 6 July 8										
4				Roadway Replace	Dump Truck	14	3	14	20	
					Vibratory Compactor	2	4			
					Asphalt Paver	1	1			
		Asphalt Compactor	1		4					
4		Roadway Replace	Motor Grader	2	4					
			Bulldozer	2	4					
Worker Commute		8	4	1	22					
Dust Emission	1.5	8								
May 29										

E	1	Stripping	Wheel Tractor Scraper	3	6			4.53 Ac per day	May 1 to May 7		
			Bulldozer	1	7						
			Dump Truck	10	7	17	20				
			Excavator	1	7						
			Worker Commute	5	7	1	22				
	Dust Emission	4.5	7								
	-	Levee Degrade	Scraper	0	0				May 8 to May 16		
			Bulldozer	0	0						
			Dump Truck	0	0						
			Excavator	0	0						
Dump Truck			3	9	53	0.25					
2	SB Cutoff Wall Installation	Bulldozer	1	9				May 8 to May 16			
		Long Reach Excavator	1	9							
		Hydraulic Excavator	1	9							
		ough Terrain/Telehandler Fork	1	9							
		Worker Commute	4	9	1	22					
E	3	Soil Borrow Extraction/Levee Placement	Scraper	10	12			14,335 CY per day	May 17 to May 28		
			Excavator	4	12						
			Dump Truck	84	12	0	0				
			Sheeps Foot Compactor	1	12						
			Bulldozer	2	12						
			Motor Grader	1	12						
			Water Truck	2	3						
			Worker Commute	20	12	1	22				
	Dust Emission	1.4	12								
	5	Wet Well Excavation/Installation	Crane	1	2				May 30 to May 31		
Front End Loader			1	1							
Dump Truck			2	1	1	20					
6	Pump Station Installation	Crane	1	2				June 1 to June 2			
		Front End Loader	1	2							
		Concrete Truck	1	1	1	20					
7	Trench Excavation & Forcmain Installation	Excavator	1	1			596 CY per day	June 3 to June 7			
		Dump Truck	3	1	1	20					
		Front End Loader	1	1							
F	1	Building Demo	Excavator	1	5				May 1 to May 20		
			Bulldozer	2	20						
			Front End Loader	2	20						
			Haul Truck	1	2	13	20				
			Worker Commute	6	20	1	22				
	Dust Emission	1.9	2								
	1	Roadway Removal	Cold Planer	1	1				May 1		
			Scraper	1	1						
			Dump Truck	1	1	17	20				
			Bulldozer	1	1						
Excavator			1	1							
Worker Commute	4	1	1	22							
4	Roadway Replace	Dump Truck	13	3	14	20		July 14 to July 16			
		Vibratory Compactor	2	3							
		Asphalt Paver	1	1							
		Asphalt Compactor	1	3							
		Motor Grader	2	3							
		Bulldozer	2	3							
Worker Commute	8	3	1	22							
2	Stripping	Wheel Tractor Scraper	3	19			4.75 Ac per day	May 21 to June 13			
		Bulldozer	1	24							
		Dump Truck	10	24	17	20					
		Excavator	1	24							
		Worker Commute	5	24	1	22					
Dust Emission	4.7	24									
-	Levee Degrade	Scraper	0	0			21,456 CY per day	June 14 to July 13			
		Bulldozer	0	0							
		Dump Truck	0	0							
		Excavator	0	0							
	3	Soil Borrow Extraction/Levee Placement	Scraper	14	30						June 14 to July 13
			Excavator	6	30						
			Dump Truck	117	30	0			0		
			Sheeps Foot Compactor	1	30						
			Bulldozer	2	30						
			Motor Grader	1	30						
Water Truck	2	5									
Worker Commute	26	30	1	22							
Dust Emission	2.1	30									
5	Rip Rap Installation	Crane	6	33				July 17 to August 18			
		Bulldozer	3	33							
		Hydraulic Excavator	3	33							
		Towboat	1	33	1.5	180					
Worker Commute	13	33	1	22							
1	Existing Pump Station Removal	Bulldozer	1	2				May 1 to May 2			
		Front End Loader	1	2							
		Excavator	1	2							
		Haul Truck	1	2	1	20					
		Worker Commute	3	2	1	22					
Dust Emission	0.1	2									
1	Building Demo	Bulldozer	1	3				May 1 to May 3			
		Front End Loader	1	3							
		Excavator	1	3							
		Haul Truck	1	1	1	20					
		Worker Commute	3	3	1	22					
		Dust Emission	0.1	1							

G	5	Roadway Replace	Dump Truck	8	1	15	20		June 8
			Vibratory Compactor	1	1				
			Asphalt Paver	0	0				
			Asphalt Compactor	0	0				
			Motor Grader	1	1				
			Bulldozer	1	1				
	Worker Commute	3	1	1	22				
	2	Stripping	Wheel Tractor Scraper	3	9			4.86 Ac per day	May 4 to May 14
			Bulldozer	1	11				
			Dump Truck	11	11	17	20		
Excavator			1	11					
Worker Commute			5	11	1	22			
Dust Emission	4.9	11							
-	Levee Degrade	Scraper	0	0				May 15 to May 25	
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
	3	SB Cutoff Wall Installation	Dump Truck	3	11	53			0.25
			Bulldozer	1	11				
			Long Reach Excavator	1	11				
			Hydraulic Excavator	1	11				
			ough Terrain/Telehandler Fork	1	11				
			Worker Commute	4	11	1			22
4	Soil Borrow Extraction/Levee Placement	Scraper	10	13			14,526 CY per day	May 26 to June 7	
		Excavator	4	13					
		Dump Truck	84	13	0	0			
		Sheeps Foot Compactor	1	13					
		Bulldozer	2	13					
		Motor Grader	1	13					
		Water Truck	2	3					
		Worker Commute	20	13	1	22			
Dust Emission	1.5	13							
6	Rip Rap Installation	Crane	4	21				June 9 to June 29	
		Bulldozer	2	21					
		Hydraulic Excavator	2	21					
		Towboat	1	21	1.5	180			
		Worker Commute	9	21	1	22			

<b>Worker Commute</b>	<b>20</b>	<b>109</b>	<b>1</b>	<b>22</b>
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CMA #1 PHASE 1 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
C	3	Off-Site Material Borrow	Scraper	6	38			21,537 CY per day	June 3 to July 10
			Excavator	6	38				
			Dump Truck	117	38	8	6.6		
			Sheeps Foot Compactor	0	38				
			Bulldozer	6	38				
			Motor Grader	0	38				
			Water Truck	2	6				
			Worker Commute	20	38	1	22		
Dust Emission	2.2	38							
D	2	Off-Site Material Borrow	Scraper	6	8			14,539 CY per day	May 26 June 2
			Excavator	6	8				
			Dump Truck	84	8	8	6.6		
			Sheeps Foot Compactor	0	8				
			Bulldozer	6	8				
			Motor Grader	0	8				
			Water Truck	2	2				
			Worker Commute	20	8	1	22		
Dust Emission	1.5	8							
E	1	Off-Site Material Borrow	Scraper	6	12			14,335 CY per day	May 17 to May 28
			Excavator	6	12				
			Dump Truck	84	12	8	6.6		
			Sheeps Foot Compactor	0	12				
			Bulldozer	6	12				
			Motor Grader	0	12				
			Water Truck	2	3				
			Worker Commute	20	12	1	22		
Dust Emission	1.4	12							
F	4	Off-Site Material Borrow	Scraper	6	30			21,456 CY per day	June 14 to July 13
			Excavator	6	30				
			Dump Truck	117	30	8	6.6		
			Sheeps Foot Compactor	0	30				
			Bulldozer	6	30				
			Motor Grader	0	30				
			Water Truck	2	5				
			Worker Commute	20	30	1	22		
Dust Emission	2.1	30							
G	2	Off-Site Material Borrow	Scraper	6	13			14,526 CY per day	May 26 to June 7
			Excavator	6	13				
			Dump Truck	84	13	8	6.6		
			Sheeps Foot Compactor	0	13				
			Bulldozer	6	13				
			Motor Grader	0	13				
			Water Truck	2	3				
			Worker Commute	20	13	1	22		
Dust Emission	1.5	13							

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)  
(Sequential Borrow Restoration)**

**CMA #2 PHASE 1 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
C	1	Building Demo	Bulldozer	1	7				May 1 to May 7
			Front End Loader	1	7				
			Excavator	1	7				
			Haul Truck	1	1	3	20		
			Worker Commute	3	7	1	22		
	Dust Emission	0.4	1						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	2	1				
			Dump Truck	7	1	15	20		
			Bulldozer	1	1				
Excavator			1	1					
Worker Commute	5	1	1	22					
5	Roadway Replace	Dump Truck	11	2	15	20		September 10 to September 11	
		Vibratory Compactor	1	2					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	2					
		Motor Grader	1	2					
		Bulldozer	1	2					
Worker Commute	5	2	1	22					
2	Stripping	Wheel Tractor Scraper	3	21				4.78 Ac per day	
		Bulldozer	1	27					
		Dump Truck	10	27	17	20			
		Excavator	1	27					
		Worker Commute	5	27	1	22			
Dust Emission	4.8	27							
3	Levee Degrade	Scraper	6	29				3,861 CY per day	
		Bulldozer	1	37					
		Dump Truck	10	36	17	20			
		Excavator	1	37					
		Worker Commute	8	37	1	22			
Dust Emission	0.4	37							
4	Soil Borrow Extraction/Levee Placement	Scraper	10	60				14,736 CY per day	
		Excavator	4	60					
		Dump Truck	42	60	0	0			
		Sheeps Foot Compactor	1	60					
		Bulldozer	2	60					
		Motor Grader	1	60					
		Water Truck	2	13					
		Worker Commute	20	60	1	22			
Dust Emission	1.5	60							
6	Rip Rap Installation	Crane	4	28				September 12 to October 9	
		Bulldozer	2	28					
		Hydraulic Excavator	2	28					
		Towboat	1	28	1.5	180			
		Worker Commute	9	28	1	22			
D	1	Building Demo	Bulldozer	1	17				May 1 to May 17
			Front End Loader	1	17				
			Excavator	1	17				
			Haul Truck	1	1	7	20		
			Worker Commute	3	17	1	22		
	Dust Emission	1.0	1						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	1	1				
			Dump Truck	3	1	15	20		
			Bulldozer	1	1				
Excavator			1	1					
Worker Commute	4	1	1	22					
5	Roadway Replace	Dump Truck	13	3	14	20		June 20 to June 22	
		Vibratory Compactor	1	3					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	3					
		Motor Grader	1	3					
		Bulldozer	1	3					
Worker Commute	5	3	1	22					
2	Stripping	Wheel Tractor Scraper	3	9				4.55 Ac per day	
		Bulldozer	1	11					
		Dump Truck	10	11	17	20			
		Excavator	1	11					
		Worker Commute	5	11	1	22			
Dust Emission	4.5	11							
-	Levee Degrade	Scraper	0	0					
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
3	SB Cutoff Wall Installation	Dump Truck	3	7	53	0.25		May 29 to June 4	
		Bulldozer	1	7					
		Long Reach Excavator	1	7					
		Hydraulic Excavator	1	7					
		ough Terrain/Telehandler For	1	7					
Worker Commute	4	7	1	22					
4	Soil Borrow Extraction/Levee Placement	Scraper	10	15				14,077 CY per day	
		Excavator	4	15					
		Dump Truck	40	15	0	0			
		Sheeps Foot Compactor	1	15					
		Bulldozer	2	15					
		Motor Grader	1	15					
		Water Truck	2	3					
		Worker Commute	20	15	1	22			
Dust Emission	1.4	15							



	6	Rip Rap Installation	Crane	4	6				June 23 to	June 28	
			Bulldozer	2	6						
			Hydraulic Excavator	2	6						
			Towboat	1	6	1.5	180				
			Worker Commute	9	6	1	22				
E	4	Roadway Replace	Dump Truck	14	3	14	20		June 9 to	June 12	
			Vibratory Compactor	2	4						
			Asphalt Paver	1	1						
			Asphalt Compactor	1	4						
			Motor Grader	2	4						
			Bulldozer	2	4						
			Worker Commute	8	4	1	22				
	1	Stripping	Wheel Tractor Scraper	3	8				4.41 Ac per day	May 1 to	May 10
			Bulldozer	1	10						
			Dump Truck	10	10	17	20				
			Excavator	1	10						
			Worker Commute	5	10	1	22				
			Dust Emission	4.4	10						
		-	Levee Degrade	Scraper	0	0					
			Bulldozer	0	0						
			Dump Truck	0	0						
			Excavator	0	0						
	2	SB Cutoff Wall Installation	Dump Truck	3	11	53	0.25		May 11 to	May 21	
			Bulldozer	1	11						
			Long Reach Excavator	1	11						
			Hydraulic Excavator	1	11						
			ough Terrain/Telehandler For	1	11						
			Worker Commute	4	11	1	22				
	3	Soil Borrow Extraction/Levee Placement	Scraper	10	18				14,928 CY per day	May 22 to	June 8
			Excavator	9	18						
			Dump Truck	48	18	0	0				
			Sheeps Foot Compactor	1	18						
			Bulldozer	2	18						
			Motor Grader	1	18						
			Water Truck	2	4						
			Worker Commute	25	18	1	22				
			Dust Emission	1.5	18						
	5	Wet Well Excavation/Installation	Crane	1	2				June 13 to	June 14	
			Front End Loader	1	1						
			Dump Truck	2	1	1	20				
			Worker Commute	2	2	1	22				
	6	Pump Station Installation	Crane	1	2				June 15 to	June 16	
			Front End Loader	1	2						
			Concrete Truck	1	1	1	20				
			Worker Commute	2	2	1	22				
	7	Trench Excavation & Forcemain Installation	Excavator	1	1				596 CY per day	June 17 to	June 21
			Dump Truck	3	1	1	20				
			Front End Loader	1	1						
			Pipe Layer	1	5						
			Worker Commute	3	5	1	22				
			Dust Emission	0.1	5						
F	1	Building Demo	Bulldozer	2	30				May 1 to	May 30	
			Front End Loader	2	30						
			Excavator	2	30						
			Haul Truck	1	2	13	20				
			Worker Commute	6	30	1	22				
			Dust Emission	1.9	2						
		1	Roadway Removal	Cold Planer	1	1				May 1	
				Scraper	2	1					
				Dump Truck	7	1	15	20			
				Bulldozer	1	1					
				Excavator	1	1					
				Worker Commute	5	1	1	22			
		5	Roadway Replace	Dump Truck	14	3	14	20		October 12 to	October 15
				Vibratory Compactor	2	4					
			Asphalt Paver	1	1						
			Asphalt Compactor	1	4						
			Motor Grader	2	4						
			Bulldozer	2	4						
			Worker Commute	8	4	1	22				
	2	Stripping	Wheel Tractor Scraper	3	23				4.78 Ac per day	May 31 to	June 28
			Bulldozer	1	29						
			Dump Truck	10	29	17	20				
			Excavator	1	29						
			Worker Commute	5	29	1	22				
			Dust Emission	4.8	29						
	3	Levee Degrade	Scraper	6	36				3,896 CY per day	June 29 to	August 12
			Bulldozer	1	45						
			Dump Truck	10	45	17	20				
			Excavator	1	45						
			Worker Commute	8	45	1	22				
			Dust Emission	0.4	45						
	4	Soil Borrow Extraction/Levee Placement	Scraper	10	60				14,779 CY per day	August 13 to	October 11
			Excavator	4	60						
			Dump Truck	40	60	0	0				
			Sheeps Foot Compactor	1	60						
			Bulldozer	2	60						
			Motor Grader	1	60						
			Water Truck	2	12						
			Worker Commute	20	60	1	22				
			Dust Emission	1.5	60						
	6	Rip Rap Installation	Crane	4	17				October 16 to	November 1	
			Bulldozer	2	17						
			Hydraulic Excavator	2	17						
			Towboat	1	17	1.5	180				
			Worker Commute	9	17	1	22				

	1	Existing Pump Station Removal	Bulldozer	1	2				May 1 to May 2
			Front End Loader	1	2				
			Excavator	1	2				
			Haul Truck	1	2	1	20		
			Worker Commute	3	2	1	22		
			Dust Emission	0.1	2				
G	1	Building Demo	Bulldozer	1	5				May 1 to May 5
			Front End Loader	1	5				
			Excavator	1	5				
			Haul Truck	1	1	1	20		
			Worker Commute	3	5	1	22		
			Dust Emission	0.1	1				
	5	Roadway Replace	Dump Truck	8	1	14	20		June 5
			Vibratory Compactor	1	1				
			Asphalt Paver	0	0				
			Asphalt Compactor	0	0				
			Motor Grader	1	1				
			Bulldozer	1	1				
			Worker Commute	3	1	1	22		
	2	Stripping	Wheel Tractor Scraper	3	8			4.40 Ac per day	May 6 to May 15
			Bulldozer	1	10				
			Dump Truck	10	10	17	20		
			Excavator	1	10				
			Worker Commute	5	10	1	22		
			Dust Emission	4.4	10				
	-	Levee Degrade	Scraper	0	0				
			Bulldozer	0	0				
			Dump Truck	0	0				
			Excavator	0	0				
	3	SB Cutoff Wall Installation	Dump Truck	3	10	53	0.25		May 16 to May 25
		Bulldozer	1	10					
		Long Reach Excavator	1	10					
		Hydraulic Excavator	1	10					
		ough Terrain/Telehandler For	1	10					
		Worker Commute	4	10	1	22			
4	Soil Borrow Extraction/Levee Placement	Scraper	10	10			14,235 CY per day	May 26 to June 4	
		Excavator	9	10					
		Dump Truck	48	10	0	0			
		Sheeps Foot Compactor	1	10					
		Bulldozer	2	10					
		Motor Grader	1	10					
		Water Truck	2	2					
		Worker Commute	25	10	1	22			
		Dust Emission	1.4	10					
6	Rip Rap Installation	Crane	4	21				June 6 to June 26	
		Bulldozer	2	21					
		Hydraulic Excavator	2	21					
		Towboat	1	21	1.5	180			
		Worker Commute	9	21	1	22			

<b>Worker Commute</b>	<b>20</b>	<b>174</b>	<b>1</b>	<b>22</b>
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CMA #2 PHASE 1 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
C	4	Off-Site Material Borrow	Scraper	6	60			14,736 CY per day	July 11 to September 9
			Excavator	6	60				
			Dump Truck	42	60	16	6.6		
			Sheeps Foot Compactor	0	60				
			Bulldozer	6	60				
			Motor Grader	0	60				
			Water Truck	2	13				
			Worker Commute	20	60	1	22		
Dust Emission	1.5	60							
D	3	Off-Site Material Borrow	Scraper	6	15			14,077 CY per day	June 5 to June 19
			Excavator	6	15				
			Dump Truck	40	15	16	6.6		
			Sheeps Foot Compactor	0	15				
			Bulldozer	6	15				
			Motor Grader	0	15				
			Water Truck	2	3				
			Worker Commute	20	15	1	22		
Dust Emission	1.4	15							
E	1	Off-Site Material Borrow	Scraper	6	18			14,928 CY per day	May 22 to June 8
			Excavator	6	18				
			Dump Truck	48	18	16	6.6		
			Sheeps Foot Compactor	0	18				
			Bulldozer	6	18				
			Motor Grader	0	18				
			Water Truck	2	4				
			Worker Commute	20	18	1	22		
Dust Emission	1.5	18							
F	5	Off-Site Material Borrow	Scraper	6	60			14,779 CY per day	August 13 to October 11
			Excavator	6	60				
			Dump Truck	40	60	16	6.6		
			Sheeps Foot Compactor	0	60				
			Bulldozer	6	60				
			Motor Grader	0	60				
			Water Truck	2	12				
			Worker Commute	20	60	1	22		
Dust Emission	1.5	60							
G	2	Off-Site Material Borrow	Scraper	6	10			14,235 CY per day	May 26 to June 4
			Excavator	6	10				
			Dump Truck	48	10	16	6.6		
			Sheeps Foot Compactor	0	10				
			Bulldozer	6	10				
			Motor Grader	0	10				
			Water Truck	2	2				
			Worker Commute	20	10	1	22		
Dust Emission	1.4	10							

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)**

**CMA #3 PHASE 1 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame	
C	1	Roadway Removal	Cold Planer	1	1				May 1	
			Scrapper	2	1					
			Dump Truck	6	1	17	20			
			Bulldozer	1	1					
			Excavator	1	1					
	Worker Commute	5	1	1	22					
	4	Roadway Replace	Dump Truck	14	1	17	20		June 29	
			Vibratory Compactor	1	1					
			Asphalt Paver	1	1					
			Asphalt Compactor	1	1					
Motor Grader			1	1						
Bulldozer	1	1								
Worker Commute	5	1	1	22						
2	Stripping	Wheel Tractor Scrapper	3	13			4.44 Ac per day	May 2 to May 19		
		Bulldozer	1	18						
		Dump Truck	10	18	17	20				
		Excavator	1	18						
		Worker Commute	5	18	1	22				
Dust Emission	4.4	18								
-	Levee Degrade	Scrapper	0	0			14,470 CY per day	May 20 to June 28		
		Bulldozer	0	0						
		Dump Truck	0	0						
		Excavator	0	0						
	3	Soil Borrow Extraction/Levee Placement	Scrapper	10	40					
			Excavator	4	40					
			Dump Truck	84	40	0			0	
			Sheeps Foot Compactor	1	40					
			Bulldozer	2	40					
			Motor Grader	1	40					
Water Truck	2	8								
Worker Commute	20	40	1	22						
Dust Emission	1.4	40								
5	Rip Rap Installation	Crane	6	87			June 30 to September 24			
		Bulldozer	3	87						
		Hydraulic Excavator	3	87						
		Towboat	1	87	1.5	180				
		Worker Commute	13	87	1	22				
D	1	Building Demo	Bulldozer	1	5			May 1 to May 5		
			Front End Loader	1	5					
			Excavator	1	5					
			Haul Truck	1	1	2	20			
			Worker Commute	3	5	1	22			
	Dust Emission	0.3	1							
	1	Roadway Removal	Cold Planer	1	1			May 1		
			Scrapper	1	1					
			Dump Truck	3	1	17	20			
			Bulldozer	1	1					
Excavator			1	1						
Worker Commute	4	1	1	22						
6	Roadway Replace	Dump Truck	16	2	17	20	June 12 to June 13			
		Vibratory Compactor	1	2						
		Asphalt Paver	1	1						
		Asphalt Compactor	1	2						
		Motor Grader	1	2						
Bulldozer	1	2								
Worker Commute	5	2	1	22						
2	Stripping	Wheel Tractor Scrapper	3	4			4.75 Ac per day	May 6 to May 9		
		Bulldozer	1	4						
		Dump Truck	10	4	17	20				
		Excavator	1	4						
		Worker Commute	5	4	1	22				
Dust Emission	4.8	4								
3	Levee Degrade	Scrapper	17	6			3,876 CY per day	May 10 to May 31		
		Bulldozer	1	22						
		Dump Truck	10	22	17	20				
		Excavator	1	22						
		Worker Commute	19	22	1	22				
Dust Emission	0.4	22								
4	SB Cutoff Wall Installation	Dump Truck	3	2	53	0.25	June 1 to June 2			
		Bulldozer	1	2						
		Long Reach Excavator	1	2						
		Hydraulic Excavator	1	2						
		ough Terrain/Telehandler For	1	2						
Worker Commute	4	2	1	22						
5	Soil Borrow Extraction/Levee Placement	Scrapper	10	9			14,395 CY per day	June 3 to June 11		
		Excavator	4	9						
		Dump Truck	84	9	0	0				
		Sheeps Foot Compactor	1	9						
		Bulldozer	2	9						
		Motor Grader	1	9						
		Water Truck	2	2						
		Worker Commute	20	9	1	22				
Dust Emission	1.4	9								
7	Rip Rap Installation	Crane	2	62			June 14 to August 14			
		Bulldozer	1	62						
		Hydraulic Excavator	1	62						
		Towboat	1	62	1.5	180				
		Worker Commute	5	62	1	22				
5	Roadway Replace	Dump Truck	17	2	17	20	July 4 to July 5			
		Vibratory Compactor	2	2						
		Asphalt Paver	1	1						
		Asphalt Compactor	1	2						
		Motor Grader	2	2						
		Bulldozer	2	2						
Worker Commute	8	2	1	22						

E	1	Stripping	Wheel Tractor Scraper Bulldozer Dump Truck Excavator Worker Commute Dust Emission	3 1 10 1 5 4.1	4 6 6 6 6 6	17	20	4.08 Ac per day	May 1 to May 6	
	2	Levee Degrade	Scraper Bulldozer Dump Truck Excavator Worker Commute Dust Emission	17 1 10 1 19 0.4	10 35 35 35 35 35	17	20	3,861 CY per day	May 7 to June 10	
	3	SB Cutoff Wall Installation	Dump Truck Bulldozer Long Reach Excavator Hydraulic Excavator gh Terrain/Telehandler Fo Worker Commute	3 1 1 1 1 4	9 9 9 9 9 9	53	0.25		June 11 to June 19	
	4	Soil Borrow Extraction/Levee Placement	Scraper Excavator Dump Truck Sheeps Foot Compactor Bulldozer Motor Grader Water Truck Worker Commute Dust Emission	10 4 84 1 2 1 2 20 1.4	14 14 14 14 14 14 3 14 14	0	0	13,603 CY per day	June 20 to July 3	
	8	Rip Rap Installation	Crane Bulldozer Hydraulic Excavator Towboat Worker Commute	4 2 2 1 9	59 59 59 59 59	1.5	180		July 10 to September 7	
	6	Wet Well Excavation/Installation	Crane Front End Loader Dump Truck Worker Commute	1 1 2 2	2 1 1 2	1	20		July 6 to July 7	
	7	Pump Station Installation	Crane Front End Loader Concrete Truck Worker Commute	1 1 1 2	2 2 1 2	1	20		July 8 to July 9	
	8	Trench Excavation & Forcemain Installation	Excavator Dump Truck Front End Loader Pipe Layer Worker Commute Dust Emission	1 3 1 1 3 0.1	1 1 1 5 5 5	1	20	596 CY per day	July 10 to July 14	
	F	1	Building Demo	Bulldozer Front End Loader Excavator Haul Truck Worker Commute Dust Emission	2 2 2 1 6 1.9	18 18 18 2 18 2	13	20		May 1 to May 18
		1	Roadway Removal	Cold Planer Scraper Dump Truck Bulldozer Excavator Worker Commute	1 2 6 1 1 5	1 1 1 1 1 1	17	20		May 1
		4	Roadway Replace	Dump Truck Vibratory Compactor Asphalt Paver Asphalt Compactor Motor Grader Bulldozer Worker Commute	17 2 1 1 2 2 8	2 2 1 2 2 2 2	17	20		June 29 to June 30
		2	Stripping	Wheel Tractor Scraper Bulldozer Dump Truck Excavator Worker Commute Dust Emission	3 1 10 1 5 4.2	4 5 5 5 5 5	17	20	4.24 Ac per day	May 19 to May 23
-		Levee Degrade	Scraper Bulldozer Dump Truck Excavator	0 0 0 0	0 0 0 0					
3		Soil Borrow Extraction/Levee Placement	Scraper Excavator Dump Truck Sheeps Foot Compactor Bulldozer Motor Grader Water Truck Worker Commute Dust Emission	10 4 84 1 2 1 2 20 1.5	36 36 36 36 36 36 8 36 36	0	0	14,549 CY per day	May 24 to June 28	
5		Rip Rap Installation	Crane Bulldozer Hydraulic Excavator Towboat Worker Commute	6 3 3 1 13	74 74 74 74 74	1.5	180		July 1 to September 12	
1		Existing Pump Station Removal	Bulldozer Front End Loader Excavator Haul Truck Worker Commute Dust Emission	1 1 1 1 3 0.1	2 2 2 2 2 2	1	20		May 1 to May 2	

G	1	Building Demo	Bulldozer	1	5					May 1 to May 5
			Front End Loader	1	5					
			Excavator	1	5					
			Haul Truck	1	1	1	20			
			Worker Commute	3	5	1	22			
			Dust Emission	0.1	1					
	6	Roadway Replace	Dump Truck	12	1	17	20			June 24
			Vibratory Compactor	1	1					
			Asphalt Paver	1	1					
			Asphalt Compactor	1	1					
			Motor Grader	1	1					
			Bulldozer	1	1					
			Worker Commute	5	1	1	22			
	2	Stripping	Wheel Tractor Scraper	3	4					4.20 Ac per day
			Bulldozer	1	5					
			Dump Truck	10	5	17	20			
			Excavator	1	5					
			Worker Commute	5	5	1	22			
			Dust Emission	4.2	5					
	3	Levee Degrade	Scraper	17	7					3,930 CY per day
			Bulldozer	1	25					
			Dump Truck	10	25	17	20			
			Excavator	1	25					
			Worker Commute	19	25	1	22			
			Dust Emission	0.4	25					
	4	SB Cutoff Wall Installation	Dump Truck	3	9	53	0.25			June 5 to June 13
			Bulldozer	1	9					
			Long Reach Excavator	1	9					
			Hydraulic Excavator	1	9					
			ough Terrain/Telehandler For	1	9					
			Worker Commute	4	9	1	22			
	5	Soil Borrow Extraction/Levee Placement	Scraper	10	10					14,721 CY per day
			Excavator	4	10					
			Dump Truck	84	10	0	0			
			Sheeps Foot Compactor	1	10					
			Bulldozer	2	10					
			Motor Grader	1	10					
			Water Truck	2	2					
			Worker Commute	20	10	1	22			
			Dust Emission	1.5	10					
	7	Rip Rap Installation	Crane	4	43					June 25 to August 6
			Bulldozer	2	43					
			Hydraulic Excavator	2	43					
			Towboat	1	43	1.5	180			
			Worker Commute	9	43	1	22			

<b>Worker Commute</b>	<b>20</b>	<b>146</b>	<b>1</b>	<b>22</b>
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CMA #3 PHASE 1 Off-Site Material Borrow Activities										
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame	
C	1	Off-Site Material Borrow	Scraper	6	40				14,470 CY per day	May 20 to June 28
			Excavator	6	40					
			Dump Truck	84	40	8	6.6			
			Sheeps Foot Compactor	0	40					
			Bulldozer	6	40					
			Motor Grader	0	40					
			Water Truck	2	8					
Worker Commute	20	40	1	22						
Dust Emission	1.4	40								
D	3	Off-Site Material Borrow	Scraper	6	9				14,395 CY per day	June 3 to June 11
			Excavator	6	9					
			Dump Truck	84	9	8	6.6			
			Sheeps Foot Compactor	0	9					
			Bulldozer	6	9					
			Motor Grader	0	9					
			Water Truck	2	2					
Worker Commute	20	9	1	22						
Dust Emission	1.4	9								
E	5	Off-Site Material Borrow	Scraper	6	14				13,603 CY per day	June 20 to July 3
			Excavator	6	14					
			Dump Truck	84	14	8	6.6			
			Sheeps Foot Compactor	0	14					
			Bulldozer	6	14					
			Motor Grader	0	14					
			Water Truck	2	3					
Worker Commute	20	14	1	22						
Dust Emission	1.4	14								
F	2	Off-Site Material Borrow	Scraper	6	36				14,549 CY per day	May 24 to June 28
			Excavator	6	36					
			Dump Truck	84	36	8	6.6			
			Sheeps Foot Compactor	0	36					
			Bulldozer	6	36					
			Motor Grader	0	36					
			Water Truck	2	8					
Worker Commute	20	36	1	22						
Dust Emission	1.5	36								
G	4	Off-Site Material Borrow	Scraper	6	10				14,721 CY per day	June 14 to June 23
			Excavator	6	10					
			Dump Truck	84	10	8	6.6			
			Sheeps Foot Compactor	0	10					
			Bulldozer	6	10					
			Motor Grader	0	10					
			Water Truck	2	2					
Worker Commute	20	10	1	22						
Dust Emission	1.5	10								

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)  
(Sequential Borrow Restoration)**

**CMA #4 PHASE 1 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
C	1	Building Demo	Bulldozer	1	7				May 1 to May 7
			Front End Loader	1	7				
			Excavator	1	7				
			Haul Truck	1	1	3	20		
			Worker Commute	3	7	1	22		
	Dust Emission	0.4	1						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	2	1				
			Dump Truck	7	1	15	20		
			Bulldozer	1	1				
			Excavator	1	1				
	Worker Commute	5	1	1	22				
	5	Roadway Replace	Dump Truck	11	2	15	20		September 10 to September 11
			Vibratory Compactor	1	2				
			Asphalt Paver	1	1				
			Asphalt Compactor	1	2				
			Motor Grader	1	2				
			Bulldozer	1	2				
Worker Commute	5	2	1	22					
2	Stripping	Wheel Tractor Scraper	3	21				4.78 Ac per day	
		Bulldozer	1	27					
		Dump Truck	10	27	17	20			
		Excavator	1	27					
		Worker Commute	5	27	1	22			
Dust Emission	4.8	27							
3	Levee Degrade	Scraper	6	29				3,861 CY per day	
		Bulldozer	1	37					
		Dump Truck	10	36	17	20			
		Excavator	1	37					
		Worker Commute	8	37	1	22			
Dust Emission	0.4	37							
4	Soil Borrow Extraction/Levee Placement	Scraper	10	60				14,736 CY per day	
		Excavator	4	60					
		Dump Truck	42	60	0	0			
		Sheeps Foot Compactor	1	60					
		Bulldozer	2	60					
		Motor Grader	1	60					
		Water Truck	2	13					
		Worker Commute	20	60	1	22			
Dust Emission	1.5	60							
6	Rip Rap Installation	Crane	4	28				September 12 to October 9	
		Bulldozer	2	28					
		Hydraulic Excavator	2	28					
		Towboat	1	28	1.5	180			
		Worker Commute	9	28	1	22			
D	1	Building Demo	Bulldozer	1	17				May 1 to May 17
			Front End Loader	1	17				
			Excavator	1	17				
			Haul Truck	1	1	7	20		
			Worker Commute	3	17	1	22		
	Dust Emission	1.0	1						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	1	1				
			Dump Truck	3	1	15	20		
			Bulldozer	1	1				
			Excavator	1	1				
	Worker Commute	4	1	1	22				
	5	Roadway Replace	Dump Truck	13	3	14	20		June 20 to June 22
			Vibratory Compactor	1	3				
			Asphalt Paver	1	1				
			Asphalt Compactor	1	3				
			Motor Grader	1	3				
			Bulldozer	1	3				
Worker Commute	5	3	1	22					
2	Stripping	Wheel Tractor Scraper	3	9				4.55 Ac per day	
		Bulldozer	1	11					
		Dump Truck	10	11	17	20			
		Excavator	1	11					
		Worker Commute	5	11	1	22			
Dust Emission	4.5	11							
-	Levee Degrade	Scraper	0	0				May 29 to June 4	
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
	3	SB Cutoff Wall Installation	Dump Truck	3	7	53	0.25		
			Bulldozer	1	7				
			Long Reach Excavator	1	7				
			Hydraulic Excavator	1	7				
High Terrain/Telehandler For	1	7							
Worker Commute	4	7	1	22					
4	Soil Borrow Extraction/Levee Placement	Scraper	10	15				14,077 CY per day	
		Excavator	4	15					
		Dump Truck	40	60	0	0			
		Sheeps Foot Compactor	1	15					
		Bulldozer	2	15					
		Motor Grader	1	15					
		Water Truck	2	3					
		Worker Commute	20	60	1	22			
Dust Emission	1.4	60							

6	Rip Rap Installation	Crane	4	6					June 23 to June 28
		Bulldozer	2	6					
		Hydraulic Excavator	2	6					
		Towboat	1	6	1.5	180			
		Worker Commute	9	6	1	22			
4	Roadway Replace	Dump Truck	14	3	14	20			June 9 to June 12
		Vibratory Compactor	2	4					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	4					
		Motor Grader	2	4					
		Bulldozer	2	4					
		Worker Commute	8	4	1	22			
1	Stripping	Wheel Tractor Scraper	3	8					4.41 Ac per day
		Bulldozer	1	10					May 1 to May 10
		Dump Truck	10	10	17	20			
		Excavator	1	10					
		Worker Commute	5	10	1	22			
		Dust Emission	4.4	10					
-	Levee Degrade	Scraper	0	0					
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
2	SB Cutoff Wall Installation	Dump Truck	3	11	53	0.25			May 11 to May 21
		Bulldozer	1	11					
		Long Reach Excavator	1	11					
		Hydraulic Excavator	1	11					
		ough Terrain/Telehandler For	1	11					
		Worker Commute	4	11	1	22			
3	Soil Borrow Extraction/Levee Placement	Scraper	10	18					14,928 CY per day
		Excavator	9	18					May 22 to June 8
		Dump Truck	48	18	0	0			
		Sheeps Foot Compactor	1	18					
		Bulldozer	2	18					
		Motor Grader	1	18					
		Water Truck	2	4					
		Worker Commute	25	18	1	22			
		Dust Emission	1.5	18					
5	Wet Well Excavation/Installation	Crane	1	2					June 13 to June 14
		Front End Loader	1	1					
		Dump Truck	2	1	1	20			
		Worker Commute	2	2	1	22			
6	Pump Station Installation	Crane	1	2					June 15 to June 16
		Front End Loader	1	2					
		Concrete Truck	1	1	1	20			
		Worker Commute	2	2	1	22			
7	Trench Excavation & Forcemain Installation	Excavator	1	1					596 CY per day
		Dump Truck	3	1	1	20			June 17 to June 21
		Front End Loader	1	1					
		Pipe Layer	1	5					
		Worker Commute	3	5	1	22			
		Dust Emission	0.1	5					
1	Building Demo	Bulldozer	2	30					May 1 to May 30
		Front End Loader	2	30					
		Excavator	2	30					
		Haul Truck	1	2	13	20			
		Worker Commute	6	30	1	22			
		Dust Emission	1.9	2					
1	Roadway Removal	Cold Planer	1	1					May 1
		Scraper	2	1					
		Dump Truck	7	1	15	20			
		Bulldozer	1	1					
		Excavator	1	1					
		Worker Commute	5	1	1	22			
4	Roadway Replace	Dump Truck	14	3	14	20			July 28 to July 31
		Vibratory Compactor	2	4					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	4					
		Motor Grader	2	4					
		Bulldozer	2	4					
		Worker Commute	8	4	1	22			
2	Stripping	Wheel Tractor Scraper	3	23					4.78 Ac per day
		Bulldozer	1	29					May 31 to June 28
		Dump Truck	10	29	17	20			
		Excavator	1	29					
		Worker Commute	5	29	1	22			
		Dust Emission	4.8	29					
3	Levee Degrade	Scraper	0	0					
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
	Soil Borrow Extraction/Levee Placement	Scraper	14	29					22,196 CY per day
		Excavator	6	29					June 29 to July 27
		Dump Truck	40	29	0	0			
		Sheeps Foot Compactor	1	29					
		Bulldozer	2	29					
		Motor Grader	1	29					
		Water Truck	2	5					
		Worker Commute	26	29	1	22			
		Dust Emission	2.2	29					
5	Rip Rap Installation	Crane	10	20					August 1 to August 20
		Bulldozer	5	20					
		Hydraulic Excavator	5	20					
		Towboat	1	20	1.5	180			
		Worker Commute	21	20	1	22			
1	Existing Pump Station Removal	Bulldozer	1	2					May 1 to May 2
		Front End Loader	1	2					
		Excavator	1	2					
		Haul Truck	1	2	1	20			
		Worker Commute	3	2	1	22			
		Dust Emission	0.1	2					

G	1	Building Demo	Bulldozer	1	5			May 1 to May 5	
			Front End Loader	1	5				
			Excavator	1	5				
			Haul Truck	1	1	1	20		
			Worker Commute	3	5	1	22		
	Dust Emission	0.1	1						
	5	Roadway Replace	Dump Truck	8	1	14	20	June 5	
			Vibratory Compactor	1	1				
			Asphalt Paver	0	0				
			Asphalt Compactor	0	0				
			Motor Grader	1	1				
			Bulldozer	1	1				
	Worker Commute	3	1	1	22				
	2	Stripping	Wheel Tractor Scraper	3	8			4.40 Ac per day	May 6 to May 15
			Bulldozer	1	10				
			Dump Truck	10	10	17	20		
			Excavator	1	10				
			Worker Commute	5	10	1	22		
	Dust Emission	4.4	10						
-	Levee Degrade	Scraper	0	0			May 16 to May 25		
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
	3	SB Cutoff Wall Installation	Dump Truck	3	10	53		0.25	
			Bulldozer	1	10				
			Long Reach Excavator	1	10				
Hydraulic Excavator	1	10							
High Terrain/Telehandler For	1	10							
Worker Commute	4	10	1	22					
4	Soil Borrow Extraction/Levee Placement	Scraper	10	10			14,235 CY per day	May 26 to June 4	
		Excavator	9	10					
		Dump Truck	48	10	0	0			
		Sheeps Foot Compactor	1	10					
		Bulldozer	2	10					
		Motor Grader	1	10					
		Water Truck	2	2					
		Worker Commute	25	10	1	22			
Dust Emission	1.4	10							
6	Rip Rap Installation	Crane	8	10			June 6 to June 15		
		Bulldozer	4	10					
		Hydraulic Excavator	4	10					
		Towboat	1	10	1.5	180			
		Worker Commute	17	10	1	22			

<b>Worker Commute</b>	<b>20</b>	<b>161</b>	<b>1</b>	<b>22</b>
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CMA #4 PHASE 1 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
C	4	Off-Site Material Borrow	Scraper	6	60			14,736 CY per day	July 11 to September 9
			Excavator	6	60				
			Dump Truck	42	60	16	6.6		
			Sheeps Foot Compactor	0	60				
			Bulldozer	6	60				
			Motor Grader	0	60				
			Water Truck	2	13				
			Worker Commute	20	60	1	22		
Dust Emission	1.5	60							
D	3	Off-Site Material Borrow	Scraper	6	15			14,077 CY per day	June 5 to June 19
			Excavator	6	15				
			Dump Truck	40	15	17	6.6		
			Sheeps Foot Compactor	0	15				
			Bulldozer	6	15				
			Motor Grader	0	15				
			Water Truck	2	3				
			Worker Commute	20	15	1	22		
Dust Emission	1.4	15							
E	1	Off-Site Material Borrow	Scraper	6	18			14,928 CY per day	May 22 to June 8
			Excavator	6	18				
			Dump Truck	48	18	14	6.6		
			Sheeps Foot Compactor	0	18				
			Bulldozer	6	18				
			Motor Grader	0	18				
			Water Truck	2	4				
			Worker Commute	20	18	1	22		
Dust Emission	1.5	18							
F	5	Off-Site Material Borrow	Scraper	6	29			22,196 CY per day	June 29 to July 27
			Excavator	6	29				
			Dump Truck	40	29	17	6.6		
			Sheeps Foot Compactor	0	29				
			Bulldozer	6	29				
			Motor Grader	0	29				
			Water Truck	2	5				
			Worker Commute	20	29	1	22		
Dust Emission	2.2	29							
G	2	Off-Site Material Borrow	Scraper	6	10			14,235 CY per day	May 26 to June 4
			Excavator	6	10				
			Dump Truck	48	10	14	6.6		
			Sheeps Foot Compactor	0	10				
			Bulldozer	6	10				
			Motor Grader	0	10				
			Water Truck	2	2				
			Worker Commute	20	10	1	22		
Dust Emission	1.4	10							





ow Trips)

Alternative/Segment/Construction Phase	9/7/2014 - 9/13/2014	9/14/2014 - 9/20/2014	9/21/2014 - 9/27/2014	9/28/2014 - 10/4/2014	10/5/2014 - 10/11/2014	10/12/2014 - 10/18/2014	10/19/2014 - 10/25/2014	10/26/2014 - 11/1/2014	11/2/2014 - 11/8/2014	11/9/2014 - 11/15/2014	11/16/2014 - 11/22/2014	Max Trips	Average Trips	Duration (weeks)	PCE Trips	Haul Trucks 2 1	Workers 2 1	Trips / truck and worker PCE per vehicle
<b>Alternative 1 Phase 2 - Unfavorable</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>826</b>	<b>201</b>	<b>24</b>				
A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	436	102	12				
B	26.0	26.0	26.0	26.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	406	111	24				
Additional Workforce	40	40	40	40	40	0	0	0	0	0	0				40		20	
Electricity	0	0	0	0	0	0	0	0	0	0	0							
<b>Alternative 2 Phase 2 - Unfavorable</b>	<b>130.0</b>	<b>370.0</b>	<b>124.0</b>	<b>124.0</b>	<b>350.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>752</b>	<b>390</b>	<b>28</b>				
A	40.0	280.0	34.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	356	233	23				
B	50.0	50.0	50.0	50.0	310.0	26.0	26.0	26.0	26.0	26.0	26.0	356	159	28				
A-B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Additional Workforce	40	40	40	40	40	40	40	40	40	40	40				40		20	
Electricity	0	0	0	0	0	0	0	0	0	0	0							
<b>Alternative 3 Phase 2 - Unfavorable</b>	<b>92.0</b>	<b>92.0</b>	<b>92.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>768</b>	<b>305</b>	<b>22</b>				
A	26.0	26.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	628	183	22				
B	26.0	26.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	466	82	22				
Additional Workforce	40	40	40	0	0	0	0	0	0	0	0				40		20	
Electricity	0	0	0	0	0	0	0	0	0	0	0							
<b>Alternative 4 Phase 2 - Unfavorable</b>	<b>130.0</b>	<b>370.0</b>	<b>124.0</b>	<b>124.0</b>	<b>320.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>66.0</b>	<b>752</b>	<b>366</b>	<b>30</b>				
A	40.0	280.0	34.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	356	218	23				
B	50.0	50.0	50.0	50.0	280.0	26.0	26.0	26.0	26.0	26.0	26.0	356	159	30				
A-B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Additional Workforce	40	40	40	40	40	40	40	40	40	40	40				40		20	
Electricity	0	0	0	0	0	0	0	0	0	0	0							
<b>2014 Daily Vehicle Trips on Local Streets</b>																		
<b>Alternative 1 Phase 2 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1384</b>	<b>1384</b>	<b>9</b>				
A A-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	2	1384	672	20	
B B-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	7	1384	672	20	
<b>Alternative 2 Phase 2 - Unfavorable</b>	<b>2784.0</b>	<b>1384.0</b>	<b>1384.0</b>	<b>1384.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2784</b>	<b>1695</b>	<b>9</b>				
A A-Off-Site Material Borrow	1400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1400	1400	2	1400	680	20	
B B-Off-Site Material Borrow	1384.0	1384.0	1384.0	1384.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	9	1384	672	20	
<b>Alternative 3 Phase 2 - Unfavorable</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2768</b>	<b>1615</b>	<b>6</b>				
A A-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	2	1384	672	20	
B B-Off-Site Material Borrow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	5	1384	672	20	
<b>Alternative 4 Phase 2 - Unfavorable</b>	<b>2784.0</b>	<b>1384.0</b>	<b>1384.0</b>	<b>1384.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2784</b>	<b>1664</b>	<b>10</b>				
A A-Off-Site Material Borrow	1400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1400	1400	2	1400	680	20	
B B-Off-Site Material Borrow	1384.0	1384.0	1384.0	1384.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1384	1384	10	1384	672	20	

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)**

**CMA #1 PHASE 2 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Building Demo	Bulldozer	1	21				May 1 to May 21
			Front End Loader	1	21				
			Excavator	1	21				
			Haul Truck	1	1	8	20		
			Worker Commute	3	21	1	22		
	Dust Emission	1.1	1						
	1	Roadway Removal	Cold Planer	1	2				May 1 to May 2
			Scraper	2	2				
			Dump Truck	5	2	17	20		
			Bulldozer	1	2				
Excavator			1	2					
Worker Commute	5	2	1	22					
5	Roadway Replace	Dump Truck	14	4	15	20		June 25 to June 30	
		Vibratory Compactor	2	6					
		Asphalt Paver	1	2					
		Asphalt Compactor	1	6					
		Motor Grader	2	6					
		Bulldozer	2	6					
Worker Commute	8	6	1	22					
2	Stripping	Wheel Tractor Scraper	3	8				4.02 Ac per day	May 22 to June 1
		Bulldozer	1	11					
		Dump Truck	10	11	17	20			
		Excavator	1	11					
		Worker Commute	5	11	1	22			
Dust Emission	4.0	11							
-	Levee Degrade	Scraper	0	0				June 2 to June 8	
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					
	3	SB Cutoff Wall Installation	Dump Truck	3	7	53	0.25		
			Bulldozer	1	7				
			Long Reach Excavator	1	7				
			Hydraulic Excavator	1	7				
			ough Terrain/Telehandler Fork	1	7				
			Worker Commute	4	7	1	22		
4	Soil Borrow Extraction/Levee Placement	Scraper	10	16				13,493 CY per day	June 9 to June 24
		Excavator	4	16					
		Dump Truck	84	16	0	0			
		Sheeps Foot Compactor	1	16					
		Bulldozer	2	16					
		Motor Grader	1	16					
		Water Truck	2	4					
		Worker Commute	20	16	1	22			
Dust Emission	1.3	16							
6	Rip Rap Installation	Crane	6	12				July 1 to July 12	
		Bulldozer	3	12					
		Hydraulic Excavator	3	12					
		Towboat	1	12	1.5	180			
		Worker Commute	13	12	1	22			
B	1	Building Demo	Bulldozer	6	31				May 1 to May 31
			Front End Loader	6	31				
			Excavator	6	31				
			Haul Truck	1	6	13	20		
			Worker Commute	18	31	1	22		
	Dust Emission	1.9	6						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	1	1				
			Dump Truck	2	1	17	20		
			Bulldozer	1	1				
Excavator			1	1					
Worker Commute	4	1	1	22					
4	Roadway Replace	Dump Truck	13	3	15	20		August 18 to August 21	
		Vibratory Compactor	2	4					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	4					
		Motor Grader	2	4					
		Bulldozer	2	4					
Worker Commute	8	4	1	22					
2	Stripping	Wheel Tractor Scraper	3	22				4.73 Ac per day	June 1 to June 28
		Bulldozer	1	28					
		Dump Truck	10	28	17	20			
		Excavator	1	28					
		Worker Commute	5	28	1	22			
Dust Emission	4.7	28							

	-	Levee Degrade	Scraper	0	0				
			Bulldozer	0	0				
			Dump Truck	0	0				
			Excavator	0	0				
	3	Soil Borrow Extraction/Levee Placement	Scraper	10	50			14,647 CY per day	June 29 to August 17
			Excavator	4	50				
			Dump Truck	84	50	0	0		
			Sheeps Foot Compactor	1	50				
			Bulldozer	2	50				
			Motor Grader	1	50				
Water Truck			2	10					
Worker Commute	20	50	1	22					
		Dust Emission	1.5	50					
5	Rip Rap Installation	Crane	6	46				August 22 to October 6	
		Bulldozer	3	46					
		Hydraulic Excavator	3	46					
		Towboat	1	46	1.5	180			
		Worker Commute	13	46	1	22			

<b>Worker Commute</b>	<b>20</b>	<b>158</b>	<b>1</b>	<b>22</b>
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CMA #1 PHASE 2 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Off-Site Material Borrow	Scraper	6	16			13,493 CY per day	June 9 to June 24
			Excavator	6	16				
			Dump Truck	84	16	8	6.6		
			Sheeps Foot Compactor	0	16				
			Bulldozer	6	16				
			Motor Grader	0	16				
			Water Truck	2	4				
			Worker Commute	20	16	1	22		
		Dust Emission	1.3	16					
B	2	Off-Site Material Borrow	Scraper	6	50			14,647 CY per day	June 29 to August 17
			Excavator	6	50				
			Dump Truck	84	50	8	6.6		
			Sheeps Foot Compactor	0	50				
			Bulldozer	6	50				
			Motor Grader	0	50				
			Water Truck	2	10				
			Worker Commute	20	50	1	22		
		Dust Emission	1.5	50					

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)  
(Sequential Borrow Restoration)**

**CMA #2 PHASE 2 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Building Demo	Bulldozer	2	25				May 1 to May 25
			Front End Loader	2	25				
			Excavator	2	25				
			Haul Truck	1	4	13	20		
			Worker Commute	6	25	1	22		
	Dust Emission	1.9	4						
	1	Roadway Removal	Cold Planer	1	2				May 1 to May 2
			Scraper	2	2				
			Dump Truck	5	2	15	20		
			Bulldozer	1	2				
			Excavator	1	1				
	Worker Commute	5	2	1	22				
	6	Roadway Replace	Dump Truck	9	2	15	20		September 18 to September 20
			Vibratory Compactor	1	3				
Asphalt Paver			1	2					
Asphalt Compactor			1	3					
Motor Grader			1	3					
Bulldozer			1	3					
Worker Commute	5	3	1	22					
2	Stripping	Wheel Tractor Scraper	3	13				4.47 Ac per day	May 26 to June 11
		Bulldozer	1	17					
		Dump Truck	10	17	17	20			
		Excavator	1	17					
		Worker Commute	5	17	1	22			
Dust Emission	4.5	17							
3	Levee Degrade	Scraper	6	54				3,682 CY per day	June 12 to August 20
		Bulldozer	1	70					
		Dump Truck	10	70	17	20			
		Excavator	1	70					
		Worker Commute	8	70	1	22			
Dust Emission	0.4	70							
4	SB Cutoff Wall Installation	Dump Truck	3	9	53	0.25		August 21 to September 17	
		Bulldozer	1	9					
		Long Reach Excavator	1	9					
		Hydraulic Excavator	1	9					
		ough Terrain/Telehandler Fork	1	9					
Worker Commute	4	9	1	22					
5	Soil Borrow Extraction/Levee Placement	Scraper	10	19				14,024 CY per day	August 30 to September 17
		Excavator	4	19					
		Dump Truck	40	19	0	0			
		Sheeps Foot Compactor	1	19					
		Bulldozer	2	19					
		Motor Grader	1	19					
		Water Truck	2	4					
		Worker Commute	20	19	1	22			
Dust Emission	1.4	19							
7	Rip Rap Installation	Crane	8	9				September 21 to September 29	
		Bulldozer	4	9					
		Hydraulic Excavator	4	9					
		Towboat	1	9	1.5	180			
Worker Commute	17	9	1	22					
B	1	Building Demo	Bulldozer	3	23				May 1 to May 23
			Front End Loader	3	23				
			Excavator	3	23				
			Haul Truck	1	7	13	20		
			Worker Commute	9	23	1	22		
	Dust Emission	1.9	7						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	2	1				
			Dump Truck	6	1	17	20		
			Bulldozer	1	1				
	Excavator	1	1						
	Worker Commute	5	1	1	22				
	5	Roadway Replace	Dump Truck	10	2	15	20		October 9 to October 10
			Vibratory Compactor	1	2				
Asphalt Paver			1	1					
Asphalt Compactor			1	2					
Motor Grader			1	2					
Bulldozer			1	2					
Worker Commute	5	2	1	22					
2	Stripping	Wheel Tractor Scraper	3	24				4.74 Ac per day	May 24 to June 23
		Bulldozer	1	31					
		Dump Truck	10	31	17	20			
		Excavator	1	31					
		Worker Commute	5	31	1	22			
Dust Emission	4.7	31							

3	Levee Degrade	Scraper	6	31			3,873 CY per day	June 24 to August 1
		Bulldozer	1	39				
		Dump Truck	10	38	17	20		
		Excavator	1	39				
		Worker Commute	8	39	1	22		
		Dust Emission	0.4	39				
5	SB Cutoff Wall Installation	Dump Truck	3	1	53	0.25		August 2 to August 2
		Bulldozer	1	1				
		Long Reach Excavator	1	1				
		Hydraulic Excavator	1	1				
		ough Terrain/Telehandler Fork	1	1				
		Worker Commute	4	1	1	22		
6	Soil Borrow Extraction/Levee Placement	Scraper	10	67			14,956 CY per day	August 3 to October 8
		Excavator	9	67				
		Dump Truck	48	67	0	0		
		Sheeps Foot Compactor	1	67				
		Bulldozer	2	67				
		Motor Grader	1	67				
		Water Truck	2	14				
		Worker Commute	25	67	1	22		
		Dust Emission	1.5	67				
7	Rip Rap Installation	Crane	6	30				October 9 to November 7
		Bulldozer	3	30				
		Hydraulic Excavator	3	30				
		Towboat	1	30	1.5	180		
		Worker Commute	13	30	1	22		
		Dust Emission						

<b>Worker Commute</b>	<b>20</b>	<b>190</b>	<b>1</b>	<b>22</b>	
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CMA #2 PHASE 2 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	2	Off-Site Material Borrow	Scraper	6	19			14,024 CY per day	August 30 to September 17
			Excavator	6	19				
			Dump Truck	40	19	17	6.6		
			Sheeps Foot Compactor	0	19				
			Bulldozer	6	19				
			Motor Grader	0	19				
			Water Truck	2	4				
			Worker Commute	20	19	1	22		
			Dust Emission	1.4	19				
B	1	Off-Site Material Borrow	Scraper	6	67			14,956 CY per day	August 3 to October 8
			Excavator	6	67				
			Dump Truck	48	67	14	6.6		
			Sheeps Foot Compactor	0	67				
			Bulldozer	6	67				
			Motor Grader	0	67				
			Water Truck	2	14				
			Worker Commute	20	67	1	22		
			Dust Emission	1.5	67				

**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)**

**CMA #3 PHASE 2 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Roadway Removal	Cold Planer	1	2				May 1 to May 2
			Scraper	2	2				
			Dump Truck	5	2	17	20		
			Bulldozer	1	2				
			Excavator	1	2				
	Worker Commute	5	2	1	22				
	6	Roadway Replace	Dump Truck	18	3	17	20		July 23 to July 26
			Vibratory Compactor	2	4				
			Asphalt Paver	1	2				
			Asphalt Compactor	1	4				
Motor Grader			2	4					
Bulldozer	2	4							
Worker Commute	8	4	1	22					
2	Stripping	Wheel Tractor Scraper	3	9				4.17 Ac per day	May 3 to May 14
		Bulldozer	1	12					
		Dump Truck	10	12	17	20			
		Excavator	1	12					
		Worker Commute	5	12	1	22			
Dust Emission	4.2	12							
3	Levee Degrade	Scraper	17	12				3,667 CY per day	May 15 to June 26
		Bulldozer	1	43					
		Dump Truck	10	43	17	20			
		Excavator	1	43					
		Worker Commute	19	43	1	22			
Dust Emission	0.4	43							
4	SB Cutoff Wall Installation	Dump Truck	3	7	53	0.25		June 27 to July 3	
		Bulldozer	1	7					
		Long Reach Excavator	1	7					
		Hydraulic Excavator	1	7					
		High Terrain/Telehandler For	1	7					
Worker Commute	4	7	1	22					
5	Soil Borrow Extraction/Levee Placement	Scraper	10	19				14,024 CY per day	July 4 to July 22
		Excavator	4	19					
		Dump Truck	84	19	0	0			
		Sheeps Foot Compactor	1	19					
		Bulldozer	2	19					
		Motor Grader	1	19					
		Water Truck	2	4					
Worker Commute	20	19	1	22					
Dust Emission	1.4	19							
7	Rip Rap Installation	Crane	6	59				July 27 to September 23	
		Bulldozer	3	59					
		Hydraulic Excavator	3	59					
		Towboat	1	59	1.5	180			
Worker Commute	13	59	1	22					
B	1	Building Demo	Bulldozer	6	31				May 1 to May 31
			Front End Loader	6	31				
			Excavator	6	31				
			Haul Truck	1	6	13	20		
			Worker Commute	18	31	1	22		
	Dust Emission	1.9	6						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	2	1				
			Dump Truck	6	1	17	20		
			Bulldozer	1	1				
Excavator			1	1					
Worker Commute	5	1	1	22					
4	Roadway Replace	Dump Truck	15	3	15	20		July 13 to July 17	
		Vibratory Compactor	2	5					
		Asphalt Paver	1	1					
		Asphalt Compactor	1	5					
		Motor Grader	2	5					
Bulldozer	2	5							
Worker Commute	8	5	1	22					
2	Stripping	Wheel Tractor Scraper	3	6				4.43 Ac per day	June 1 to June 7
		Bulldozer	1	7					
		Dump Truck	10	7	17	20			
		Excavator	1	7					
		Worker Commute	5	7	1	22			
Dust Emission	4.4	7							
-	Levee Degrade	Scraper	0	0					
		Bulldozer	0	0					
		Dump Truck	0	0					
		Excavator	0	0					

3	Soil Borrow Extraction/Levee Placement	Scraper	10	35			14,487 CY per day	June 8 to July 12
		Excavator	4	35				
		Dump Truck	84	35	0	0		
		Sheeps Foot Compactor	1	35				
		Bulldozer	2	35				
		Motor Grader	1	35				
		Water Truck	2	7				
		Worker Commute	20	35	1	22		
Dust Emission	1.4	35						
5	Rip Rap Installation	Crane	6	68				July 18 to September 23
		Bulldozer	3	68				
		Hydraulic Excavator	3	68				
		Towboat	1	68	1.5	180		
		Worker Commute	13	68	1	22		

<b>Worker Commute</b>	<b>20</b>	<b>145</b>	<b>1</b>	<b>22</b>	
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CMA #3 PHASE 2 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Off-Site Material Borrow	Scraper	6	19			14,024 CY per day	July 4 to July 22
			Excavator	6	19				
			Dump Truck	84	19	8	20		
			Sheeps Foot Compactor	0	19				
			Bulldozer	6	19				
			Motor Grader	0	19				
			Water Truck	2	4				
			Worker Commute	20	19	1	22		
Dust Emission	1.4	19							
B	2	Off-Site Material Borrow	Scraper	6	35			14,487 CY per day	June 8 to July 12
			Excavator	6	35				
			Dump Truck	84	35	8	20		
			Sheeps Foot Compactor	0	35				
			Bulldozer	6	35				
			Motor Grader	0	35				
			Water Truck	2	7				
			Worker Commute	20	35	1	22		
Dust Emission	1.4	35							



**SOUTHPORT SACRAMENTO RIVER EIP SITE  
HIGH EMISSIONS ESTIMATE SUMMARY - (Unfavorable Scenario)  
(Sequential Borrow Restoration)**

**CMA #4 PHASE 2 Project Site Related Activities**

Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	1	Building Demo	Bulldozer	2	25				May 1 to May 25
			Front End Loader	2	25				
			Excavator	2	25				
			Haul Truck	1	4	13	20		
			Worker Commute	6	25	1	22		
	Dust Emission	1.9	4						
	1	Roadway Removal	Cold Planer	1	2				May 1 to May 2
			Scraper	2	2				
			Dump Truck	5	2	15	20		
			Bulldozer	1	2				
			Excavator	1	1				
	Worker Commute	5	2	1	22				
	6	Roadway Replace	Dump Truck	9	2	15	20		September 17 to September 19
Vibratory Compactor			1	3					
Asphalt Paver			1	2					
Asphalt Compactor			1	3					
Motor Grader			1	3					
Bulldozer			1	3					
Worker Commute	5	3	1	22					
2	Stripping	Wheel Tractor Scraper	3	13				4.47 Ac per day	May 26 to June 11
		Bulldozer	1	17					
		Dump Truck	10	17	17	20			
		Excavator	1	17					
		Worker Commute	5	17	1	22			
Dust Emission	4.5	17							
3	Levee Degrade	Scraper	6	54				3,736 CY per day	June 12 to August 19
		Bulldozer	1	69					
		Dump Truck	10	69	17	20			
		Excavator	1	69					
		Worker Commute	8	69	1	22			
Dust Emission	0.4	69							
4	SB Cutoff Wall Installation	Dump Truck	3	9	53	0.25		August 20 to August 28	
		Bulldozer	1	9					
		Long Reach Excavator	1	9					
		Hydraulic Excavator	1	9					
		ough Terrain/Telehandler For	1	9					
Worker Commute	4	9	1	22					
5	Soil Borrow Extraction/Levee Placement	Scraper	10	19				14,024 CY per day	August 29 to September 16
		Excavator	4	19					
		Dump Truck	40	19	0	0			
		Sheeps Foot Compactor	1	19					
		Bulldozer	2	19					
		Motor Grader	1	19					
		Water Truck	2	4					
		Worker Commute	20	19	1	22			
Dust Emission	1.4	19							
7	Rip Rap Installation	Crane	8	9				September 20 to September 28	
		Bulldozer	4	9					
		Hydraulic Excavator	4	9					
		Towboat	1	9	1.5	180			
Worker Commute	17	9	1	22					
B	1	Building Demo	Bulldozer	3	23				May 1 to May 23
			Front End Loader	3	23				
			Excavator	3	23				
			Haul Truck	1	7	13	20		
			Worker Commute	9	23	1	22		
	Dust Emission	1.9	7						
	1	Roadway Removal	Cold Planer	1	1				May 1
			Scraper	2	1				
			Dump Truck	6	1	17	20		
			Bulldozer	1	1				
			Excavator	1	1				
	Worker Commute	5	1	1	22				
	6	Roadway Replace	Dump Truck	10	2	15	20		October 8 to October 9
Vibratory Compactor			1	2					
Asphalt Paver			1	1					
Asphalt Compactor			1	2					
Motor Grader			1	2					
Bulldozer			1	2					
Worker Commute	5	2	1	22					
2	Stripping	Wheel Tractor Scraper	3	24				4.74 Ac per day	May 24 to June 23
		Bulldozer	1	31					
		Dump Truck	10	31	17	20			
		Excavator	1	31					
		Worker Commute	5	31	1	22			
Dust Emission	4.7	31							

3	Levee Degrade	Scraper	6	31			3,873 CY per day	June 24 to August 1
		Bulldozer	1	39				
		Dump Truck	10	38	17	20		
		Excavator	1	39				
		Worker Commute	8	39	1	22		
		Dust Emission	0.4	39				
4	SB Cutoff Wall Installation	Dump Truck	3	1	53	0.25		August 2 to August 2
		Bulldozer	1	1				
		Long Reach Excavator	1	1				
		Hydraulic Excavator	1	1				
		High Terrain/Telehandler For	1	1				
		Worker Commute	4	1	1	22		
5	Soil Borrow Extraction/Levee Placement	Scraper	10	67			14,956 CY per day	August 2 to October 7
		Excavator	9	67				
		Dump Truck	48	67	0	0		
		Sheeps Foot Compactor	1	67				
		Bulldozer	2	67				
		Motor Grader	1	67				
		Water Truck	2	14				
		Worker Commute	25	67	1	22		
		Dust Emission	1.5	67				
7	Rip Rap Installation	Crane	6	40				October 10 to November 18
		Bulldozer	3	40				
		Hydraulic Excavator	3	40				
		Towboat	1	40	1.5	180		
		Worker Commute	13	40	1	22		
		Dust Emission						

<b>Worker Commute</b>	<b>20</b>	<b>201</b>	<b>1</b>	<b>22</b>
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CMA #4 PHASE 2 Off-Site Material Borrow Activities									
Segment	Sequence Order	Construction Phase	Equipment	Number of Equipment	9 Hrs. Work Days	Daily Truck Trips	Roundtrip Miles	Daily Earthwork Rate (Dust Emissions)	Projected Time Frame
A	2	Off-Site Material Borrow	Scraper	6	19			14,024 CY per day	August 29 to September 16
			Excavator	6	19				
			Dump Truck	40	19	17	6.6		
			Sheeps Foot Compactor	0	19				
			Bulldozer	6	19				
			Motor Grader	0	19				
			Water Truck	2	4				
			Worker Commute	20	19	1	22		
			Dust Emission	1.4	19				
B	1	Off-Site Material Borrow	Scraper	6	67			14,956 CY per day	August 2 to October 7
			Excavator	6	67				
			Dump Truck	48	67	14	6.6		
			Sheeps Foot Compactor	0	67				
			Bulldozer	6	67				
			Motor Grader	0	67				
			Water Truck	2	14				
			Worker Commute	20	67	1	22		
			Dust Emission	1.5	67				