Demolition Assumptions for

Code	# of Structures Demolished	Demolition per day (sf)
No Demolition		

Phase	Code	Start Date	End Date	Working Days	Days/Week
07 TRR West	TRR West-07				
07.01 TRR West Reservoir	TRR West-0701	11/6/2025	2/23/2028	600	5

07

TRR West

Construction Schedule for

Subpackage

01

Offroad Equipment (Fossil Fuel) Inventory for

TRR West

07

Code	Equipment Name	General Equipment Category	#/day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Fuel (gal/day) (if known)
TRR West-0701	Air Compressor, 160 cfm	Air Compressors	0.51	8	Diesel		<u> </u>
TRR West-0701	Air Compressor, 600 cfm	Air Compressors	0.46	8	Diesel		
TRR West-0701	Horz. Boring Csg. Mch.	Bore/Drill Rigs	0.65	8	Diesel		
TRR West-0701	Hyd. Excavator, 2.5 C.Y.	Excavators	0.03	8	Diesel		
TRR West-0701	Backhoe Loader, 48 H.P.	Tractors/Loaders/Backhoes	1.06	8	Diesel		
TRR West-0701	Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes	0.00	8	Diesel		
TRR West-0701	Vibrating Plate, Gas, 21"	Compactors	0.00	8	Gasoline		
TRR West-0701	Rammer/Tamper, Gas, 15"	Other Construction Equipment	0.01	8	Diesel		
TRR West-0701	Trowel, 48" Walk-Behind	Other Construction Equipment	0.09	8	Diesel		
TRR West-0701	Hydraulic Crane, 25 ton	Cranes	0.67	8	Diesel		
TRR West-0701	S.P. Crane, 4x4, 25 Ton	Cranes	0.10	8	Diesel		
TRR West-0701	Air Track Drill, 4"	Bore/Drill Rigs	0.46	8	Diesel		
TRR West-0701	Grader, 30,000 Lbs.	Graders	1.27	8	Diesel		
TRR West-0701	Gunite Pump Rig	Pumps	0.47	8	Diesel		
TRR West-0701	Cement Mixer, 2 C.Y.	Cement and Mortar Mixers	0.51	8	Diesel		
TRR West-0701	Concrete Pump (Small)	Pumps	0.05	8	Diesel		
TRR West-0701	Grout Pump, 50 C.F./hr.	Pumps	1.23	8	Diesel		
TRR West-0701	Roller, Vibratory, 25 Ton	Rollers	0.10	8	Diesel		
TRR West-0701	Tandem Roller, 5 Ton	Rollers	0.19	8	Diesel		
TRR West-0701	Sheepsfoot Roller, 240 H.P.	Rollers	0.25	8	Diesel		
TRR West-0701	S.P. Scraper, 21 C.Y.	Scapters	7.90	8	Diesel		
TRR West-0701	S.P. Scraper, 14 C.Y.	Scrapers	0.06	8	Diesel		
TRR West-0701	Dozer, 200 H.P.	Rubber Tired Dozers	9.85	8	Diesel		
TRR West-0701	Dozer, 300 H.P.	Rubber Tired Dozers	2.23	8	Diesel		
TRR West-0701	F.E. Loader, Crl, 1.5 C.Y.	Tractors/Loaders/Backhoes	0.05	8	Diesel		
TRR West-0701	F.E. Loader, W.M., 5.5 C.Y.	Tractors/Loaders/Backhoes	9.03	8	Diesel		
TRR West-0701	Truck Tractor, 220 H.P.	Off-Highway Tractors	0.01	8	Diesel		
TRR West-0701	Truck Tractor, 6x4, 380 H.P.	Off-Highway Tractors	0.96	8	Diesel		
TRR West-0701	Truck Tractor, 6x4, 450 H.P.	Off-Highway Tractors	0.05	8	Diesel		
TRR West-0701	Gas Engine Vibrator	Other Construction Equipment	0.11	8	Gasoline		
TRR West-0701	Welder, Gas Engine, 300 amp	Welders	0.66	8	Gasoline		1

Note:

1. Number of equipment/day = Total Equipment Hours / 8 hours per day / Total number of days of the Sub-package.

2. Number of equipment in this table represents averages throughout each sub-package. It does not represent a typical day or peak day conditions.

Jacobs Calculations for #/days

Package

Equipment	total hours (Engineering Data)	hours per day	total equipment days @listed hours per day	total number of working days/phase	Number of equipment/day @ listed hours per day
Air Compressor, 160 cfm			308	1.11	
Air Compressor, 600 cfm	,		278	600	
Horz. Boring Csg. Mch.	3,132.98		392	600	
Hyd. Excavator, 2.5 C.Y.	141.72	8	18	600	
Backhoe Loader, 48 H.P.	5,099.40		637	600	1.0
Backhoe Loader, 80 H.P.	7.07	8	1	600	0.0
Vibrating Plate, Gas, 21"			1	600	
Rammer/Tamper, Gas, 15"	57.44		7	600	
Trowel, 48" Walk-Behind	433.36		54	600	0.0
Hydraulic Crane, 25 ton		8	400	600	0.6
S.P. Crane, 4x4, 25 Ton	-	8	58	600	0.1
Air Track Drill, 4"		8	278	600	0.4
Grader, 30,000 Lbs.	6,094.54		762	600	1.3
Gunite Pump Rig			283	600	0.4
Cement Mixer, 2 C.Y.	2,465.00	8	308	600	0.
Concrete Pump (Small)	254.14	8	32	600	0.
Grout Pump, 50 C.F./hr.	5,886.90	8	736	600	1.
Roller, Vibratory, 25 Ton	479.20	8	60	600	0.
Tandem Roller, 5 Ton	916.45	8	115	600	0.
Sheepsfoot Roller, 240 H.P.	1,221.19	8	153	600	0.
S.P. Scraper, 21 C.Y.	37,912.16	8	4739	600	7.
S.P. Scraper, 14 C.Y.	279.38	8	35	600	0.
Dozer, 200 H.P.	47,273.93	8	5909	600	9.
Dozer, 300 H.P.	10,694.09	8	1337	600	2.
F.E. Loader, Crl, 1.5 C.Y.	229.75	8	29	600	0.
F.E. Loader, W.M., 5.5 C.Y.	43,339.15	8	5417	600	9.
Truck Tractor, 220 H.P.	43.40	8	5	600	0.
Truck Tractor, 6x4, 380 H.P.	4,594.11	8	574	600	0.
Truck Tractor, 6x4, 450 H.P.		8	29	600	0.
Gas Engine Vibrator		8	64	600	0.1
Welder, Gas Engine, 300 amp		8	394	600	0.

Jacobs Equipment Types

F. 1	Constant To a	E ALE AN
Equipment Asphalt Paver, 130 H.P.	General Type Pavers	Fuel Type Diesel
Horz. Boring Csg. Mch.		Diesel
Hyd. Excavator, 1.5 C.Y.	_	Diesel
Hyd. Excavator, 2.5 C.Y.		Diesel
	Tractors/Loaders/Backhoes	Diesel
Crawler Crane, 75 Ton		Diesel Diesel
Hydraulic Crane, 25 ton Hyd. Crane, 55 Ton		Diesel
S.P. Crane, 4x4, 12 Ton		Diesel
Grader, 30,000 Lbs.	Graders	Diesel
Concrete Pump (Small)		Diesel
Grout Pump, 50 C.F./hr.		Diesel Diesel
Roller, Vibratory, 25 Ton Tandem Roller, 10 Ton		Diesel
Roller, Pneum. Whl., 12 Ton		Diesel
Sheepsfoot Roller, 240 H.P.		Diesel
S.P. Scraper, 14 C.Y.		Diesel
	Rubber Tired Dozers	Diesel
	Rubber Tired Dozers Tractors/Loaders/Backhoes	Diesel Diesel
	Tractors/Loaders/Backhoes	Diesel
Dump Truck, 12 C.Y., 400 H.P.		Diesel
Water Tank Trailer, 5000 Gal.		Diesel
Dump Trailer, 20 C.Y.		Diesel
Truck Tractor, 220 H.P.		Diesel
Truck Tractor, 6x4, 380 H.P. Truck Tractor, 6x4, 450 H.P.		Diesel Diesel
	Other Construction Equipment	Gasoline
Welder, Electric, 300 amp		Electric
Welder, Gas Engine, 300 amp		Gasoline
	Other Construction Equipment	Diesel
	Other Construction Equipment	Diesel
Lattice Boom Crane, 40 Ton		Diesel
Tandem Roller, 5 Ton	Other Construction Equipment	Diesel Diesel
Crawler Crane, 15 Ton		Diesel
20' Suction Hose, 6"		Diesel
50' Discharge Hose, 6"	Pumps	Diesel
Centr. Water Pump, 6"		Diesel
	Other Construction Equipment	Diesel
Crawler Crane, 25 Ton	Tractors/Loaders/Backhoes	Diesel Diesel
Dist. Tanker, 3000 Gallon		Diesel
Dump Truck, 8 C.Y., 220 H.P.	- · ·	Diesel
Dump Truck, Off Hwy., 65 Ton	Off-Highway Trucks	Diesel
Hyd. Crane, 12 Ton		Diesel
Hyd. Excavator, .75 C.Y.		Diesel
Lattice Boom Crane, 90 Ton S.P. Crane, 4x4, 5 Ton		Diesel Diesel
S.P. Scraper, 21 C.Y.		Diesel
Vibratory Roller, Towed, 23 Ton		Diesel
A.T. Forklift, 31' reach, 45' lift		Diesel
	Other Construction Equipment	Diesel
	Off-Highway Trucks	Diesel
Flatbed Truck, Gas, 1.5 Ton Flatbed Truck, Gas, 3 Ton	. ,	Diesel Diesel
Hitted Truck, Gas, 3 Ton Hyd. Crane, 100 Ton (Daily)		Diesel
Hyd. Crane, 25 Ton (Daily)		Diesel
Lowbed Trailer, 75 Ton	Off-Highway Trucks	Diesel
	Other Construction Equipment	Gasoline
Pickup Truck, 4x4, 3/4 Ton		Diesel
	Other Construction Equipment Other Construction Equipment	Diesel Diesel
S.P. Crane, 4x4, 25 Ton		Diesel
Stabilizers, 310 H.P.		Diesel
Air Compressor, 160 cfm	Air Compressors	Diesel
Air Compressor, 600 cfm	Air Compressors	Diesel
50' Air Hose, 3/4"	Pumps	Diesel
Backhoe Loader, 80 H.P.	Tractors/Loaders/Backhoes	Diesel Gasoline
Vibrating Plate, Gas, 21" Air Track Drill, 4"	Compactors Bore/Drill Rigs	Gasoline Diesel
Gunite Pump Rig	Pumps	Diesel
50' Air Hose, 2"	Pumps	Diesel
50' Air Hose, 3"	Pumps	Diesel
Level, Electronic		Electric
Cement Mixer, 2 C.Y.	Cement and Mortar Mixers	Diesel

Offroad Equipment (Electric) Inventory for	TRR West	07	
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Code	Equipment Name	#/day	kWh/day / equipment
No Electric Equipment			
	1		
	1		
	1		

Vehicle Inventory for

TRR West

Code

Vehicle

TRR West-0701	Dist. Tanker, 3000 Gallon
TRR West-0701	Dump Truck, Off Hwy., 65 Ton
TRR West-0701	Dump Truck - 20 cy

Note:

1. Onsite water truck and dump truck numbers and miles per trip were set to 1.

2. The one-way trips/day were estimated by dividing the total number of trips by the num

3. Number of trips per day in this table represents averages throughout each sub-package

Primary Trip Purpose/Location (within construction footprint vs. offsite)	# of Vehicles	One-Way Trips/Day	Miles per Trip	Fuel Type	Fuel (gal/day) (if known)
Onsite	1	20.1	1	Diesel	
Onsite	1	1,779.7	1	Diesel	
Offsite/Haul	1	5.4	25	Diesel	

ber of days of the sub-package.

. It does not represent a typical day or peak day conditions.

Equipment		U	average	Miles/day (assume 10 miles/hour)
Dist. Tanker, 3000 Gallon Dump Truck, Off Hwy., 65 Ton				20.1 1779.7
Total amount		One-way trips total	Number of days	
32191	Assume 20 cy per load	3,219	600	

Employees Required to Construct TRR West

Code	Vehicle Type	# of Employees/Day	One-Way Trips/Day	Miles per Trip
TRR West-0701	Employee	91	. 182	60.0

Note:

1. Worker trips assumed that the trips would be from Sacramento (68 miles), Willows (19 miles), Williams (9 miles), and Red Bluff (60 miles). One-way distance of 60 I

07

2. Number of trips per day in this table represents averages throughout each sub-package. It does not represent a typical day or peak day conditions.

Jacobs Calculations

		Total labor hours	Hours per	Total days of	#employees/d	
	Subpackage	(Engineering Data)	employee/day	construction	ay	one-way Trips/day
01		433125	8	600	91	182

miles was used.

Marine Inventory for *Please show activities involving marine equipment as separate line items in the schedule tab

Code	Dock Site	# of Vessels/Day	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)
No Marine vessels				

Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
		<u> </u>	<u> </u>

Earthmoving/Paving Assumptions for **TRR West** 07

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Daily					
Code	Stripping or Grading (acres/day)	Borrow/Excavate (cy/day)	Dredge (cy/day)	Paving (sf/day)	Stripping or Grading (total acres)
TRR West-0701	1.136	57945.1	0.0	0.0	340.9

Note:

1. Daily amounts were estimated using 50% of construction days.

Total		
Borrow/Excavate (total cy)	Dredge (total cy)	Paving (total sf)
17383542	0.0	0

Jacobs Calculations

Total #	Total # days/earthmovi
days/subpackage	ng -paving
600	300