

PARSONS ENGINEERING SCIENCE, INC.

MEMORANDUM

October 27, 1995

To: Ivy Edmonds, Bob Duchek, Dan Grayuski
From: Rich Maurer
Subject: SANTA ROSA SUBREGIONAL LONG-TERM WASTEWATER PROJECT
CONSTRUCTION IMPACTS ON TRANSPORTATION CORRIDORS AND
AIR QUALITY

723129.39013

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As previously promised, now that we have received the various classes of earthwork quantities from RUST for construction of all reservoir dams, we have updated the estimate of truck trips and days of truck trips necessary to import the necessary materials from local quarries to the reservoir sites.

Please see the attached table for this requested information.

OCT 27, 1985

RESERVOIR CONSTRUCTION MATERIALS IMPORTATION
VOLUMES, HAUL DISTANCE FROM QUARRIES, TRUCK TRIPS, DAYS OF HAULAGE (1)

RESERVOIRS	VALLEY FORD	CARROLL ROA	BLOOMFIELD	HUNTLEY	TWO ROCK	ADOBE ROA	LAKEVILLE	TOLAY A	TOLAY C	SEAN'S POIN	ASSUMED QUARRY SOURCE
<u>FILTERDRAIN MATERIAL</u>											
VOLUME (CY) (2)	144,000	123,000	180,000	180,000	98,000	180,000	47,000	88,000	440,000	100,000	SAN RAFAEL ROCK
HAUL TRUCK TRIPS (3)	8,800	8,200	11,287	10,887	6,533	12,000	3,133	6,533	30,000	8,887	SAN RAFAEL
AVERAGE HAUL DISTANCE (3)(4) (FROM QUARRY)	36	36	34	32	28	23	18	20	20	18	
<u>RIPRAP ROCK</u>											
VOLUME (CY) (2)	85,000	34,000	79,000	70,000	39,000	68,000	18,000	32,000	138,000	37,000	SYAR LAKE HERMAN
HAUL TRUCK TRIPS (3)	3,417	4,300	4,583	5,633	3,290	6,867	1,500	2,867	11,563	3,083	
AVERAGE HAUL DISTANCE (3)(4) (FROM QUARRY)	51	50	48	48	45	36	26	29	29	23	
<u>DOWNSTREAM SLOPE PROTECTION ROCK</u>											
VOLUME (CY) (2)	27,000	24,000	33,000	32,000	18,000	30,000	7,000	13,000	54,000	14,000	SYAR LAKE HERMAN
HAUL TRUCK TRIPS (3)	2,250	2,000	2,750	2,867	1,500	2,750	583	1,000	4,583	1,167	
AVERAGE HAUL DISTANCE (3)(4) (FROM QUARRY)	51	50	48	48	45	36	26	29	29	23	
<u>MOISTURE BARRIER</u>											
VOLUME (CY) (2)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	180,000	SAN RAFAEL ROCK
HAUL TRUCK TRIPS (3)										12,887	SAN RAFAEL
AVERAGE HAUL DISTANCE (3)(4) (FROM QUARRY)										18	
TOTAL TRUCK TRIPS	17,287	14,700	20,800	18,187	11,283	20,477	5,217	10,200	48,187	23,583	
TOTAL DAYS OF HAULAGE (4)	173	147	208	182	113	204	52	102	482	238	

(1) ALL DATA BASED ON 1% PROJECT.

(2) TRUCK HAUL TRIPS BASED ON 15 CY/TRUCK FOR FILTERDRAIN MATERIAL AND MOISTURE BARRIER MATERIAL, AND 12 CY/TRUCK FOR ROCK MATERIALS.

(3) TRUCK HAUL DISTANCE BASED ON DISTANCE FROM ASSUMED QUARRIES TO RESERVOIR SITES.

(4) WORKING DAYS OF HAULAGE BASED ON 100 TRUCK TRIPS PER DAY.

(5) VOLUMES OF IMPORT MATERIALS, AND DISTANCE TO INDIVIDUAL QUARRIES, PROVIDED BY RUST E&I.

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