

RPC

PARSONS ENGINEERING SCIENCE, INC.

MEMORANDUM

August 7, 1995

To: Dan Grayuski, Ivy Edmonds
From: Rich Maurer, Engineering Task Project Manager
Subject: SANTA ROSA SUBREGIONAL LONG-TERM WASTEWATER PROJECT
CONSTRUCTION IMPACTS

723129.31003

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RESERVOIR IMPORT MATERIALS

Construction of the reservoir dams will require import of some construction materials because sufficient materials are not available on site. RUST is preparing the estimated volume of these imported materials based on their field geotechnical investigations. They are also identifying the likely quarries from which the constructor can obtain the import materials. Because RUST is just completing their field investigations, they will not complete their estimates of import materials until mid-September.

To date, RUST has provide their estimate of import materials, and an estimate of haul distance from several candidate quarries, for five of the reservoirs. We have estimated the number of truck trips that would be necessary to deliver these materials to the reservoir sites. This information is given on the attached table for the five reservoirs analyzed to date. Data for the other reservoirs will follow in September.

Please disregard the quantities, number of truck trips, and days of delivery in my memo date August 6, 1995 on the same subject.

AUG 7, 1995

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

RESERVOIRS	VALLEY FORD	CARROLL ROAD	BLOOMFIELD	HUNTLEY	TWO ROCK	ADOBE ROAD	LAKEVILLE	TOLAY	SEARS POINT
<u>FILTER/DRAIN MATERIAL</u>									
VOLUME (CY)	144,000		169,000		98,000	180,000	47,000		
HAUL TRUCK TRIPS	9,600		11,267		6,533	12,000	3,133		
AVERAGE HAUL DISTANCE (FROM QUARRY)	52	51	50	53	48	45	51	53	59
<u>RIPRAP ROCK</u>									
VOLUME (CY)	65,000		78,000		—	68,000	18,000		
HAUL TRUCK TRIPS	5,417		6,583		—	5,667	1,500		
AVERAGE HAUL DISTANCE (FROM QUARRY)	60	59	58	59	55	50	51	53	55
<u>DOWNSTREAM SLOPE PROTECTION ROCK</u>									
VOLUME (CY)	27,000		33,000		—	33,000	7,000		
HAUL TRUCK TRIPS	2,250		2,750		—	2,750	583		
AVERAGE HAUL DISTANCE (FROM QUARRY)	60	59	58	59	55	50	51	53	55
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TOTAL TRUCK TRIPS	17,267		20,600		6,533	20,417	5,217		
TOTAL DAYS OF HAULAGE	173		206		65	204	52		

- TRUCK HAUL DISTANCE BASED ON AVERAGE DISTANCE FROM AVAILABLE QUARRIES TO RESERVOIR SITES
- TRUCK HAUL TRIPS BASED ON 16 CY/TRUCK FOR FILTER/DRAIN MATERIAL, AND 12 CY/TRUCK FOR ROCK MATERIALS
- DAYS OF HAULAGE BASED ON 100 TRUCK TRIPS PER DAY