Altamont Landfill 10840 Altamont Pass Road Livermore, California 94550 510/449-6349 • FAX: 510/447-7543

February 10, 1995



Ms. Amy Leech Alameda County Health Care Services 1131 Harbor Bay Pkwy, #250 Alameda, California 94502-6577

RE: Potential Groundwater Contamination Caused by Leaking Underground Storage Tanks at 10840 Altamont Pass Road, Livermore, California 94550.

Dear Ms. Leech:

Altamont Landfill and Resource Recovery Facility (ALRRF) received your letter dated January 17, 1995 on January 25, 1995. Please find the information you requested within fifteen working days of the date of your letter. The information we are able to provide to you at this time includes: 1) shipping manifests, 2) an Underground Storage Tank Unauthorized Release form, 3) the boring log and well construction log for piezometer P-1 (approximately 250 feet downgradient of the former underground storage tank (UST) locations), 4) a groundwater gradient map and geologic cross sections for the ALRRF Toe Area where the former USTs were located, and 5) construction details for the Groundwater Interception Barrier (GWIB).

ALRRF received verbal closure for the UST excavation on April 16, 1990 from Mr. Lowell Miller of Alameda County Health. Mr. Lowell promised a letter which would state "no further work is required at this time". Unfortunately no letter from Mr. Lowell was ever received. However, based on Mr. Lowell's analysis and judgement, and the analytical results of soil samples collected from the UST excavation, all of the contaminated soil was excavated. The soil was disposed at two locations; 50 yards of Class II soil was disposed at the Kettleman Hills Facility and 30 yards of Class III (<100 parts per million [ppm] total petroleum hydrocarbon [TPH]) soil was disposed at ALRRF. Please see the attached manifests for soil disposed at the Kettleman Hills Facility.

There is no information regarding the depth to groundwater in the UST file at ALRRF or in the ENSCO Environmental Services, Inc. (1990) report. However, ALRRF monitors groundwater quality in the valley that the former USTs were located in accordance with the Waste Discharge Requirements established by the Central Valley Regional Water Quality Control Board. In the 1990 1st quarter monitoring report groundwater levels were measured between 15 to 20 feet below ground surface (bgs) in the ALRRF Toe Area. The water sample was collected from soil sample location #1 according to the chain-of-custody. The water sampled may not have been groundwater, rather rain water that collected in the excavation while it was left open during the rainy season months (i.e. January). Despite this possibility, ALRRF understands Alameda County's position that the case will not be closed until the potential impacts to groundwater have been assessed.

Piezometer P-1 is located approximately 250 feet downgradient of the former UST excavation. Based on the groundwater velocities calculated in the ALRRF Toe Area, groundwater moves approximately 180 feet per year. It has been five years since the USTs were removed, suggesting any potential contamination from the UST excavation would have travelled approximately 900 feet. Therefore, the most appropriate location to look for potential contamination from the former UST location would be at least as far away as piezometer P-1.

ALRRF has been pumping and treating contaminated groundwater from the ALRRF Toe Area since 1988. Approximately 150 feet further downgradient from P-1 is ALRRF's GWIB. The GWIB is a 40-foot deep trench constructed to intercept groundwater migrating through the Toe Area. The trench was installed in 1988 and is still operating today. From 1988 to 1992 the groundwater was pumped to a leachate pond for treatment. From 1992 to 1994 the groundwater was treated

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either in a fixed film bioreactor or the leachate pond. From August 1994 to date, the groundwater from the GWIB has been treated at the ALRRF Waste Water Treatment Plant (WWTP). The WWTP treats up to 140,000 gallons per day of leachate, aqueous phase condensate and groundwater.

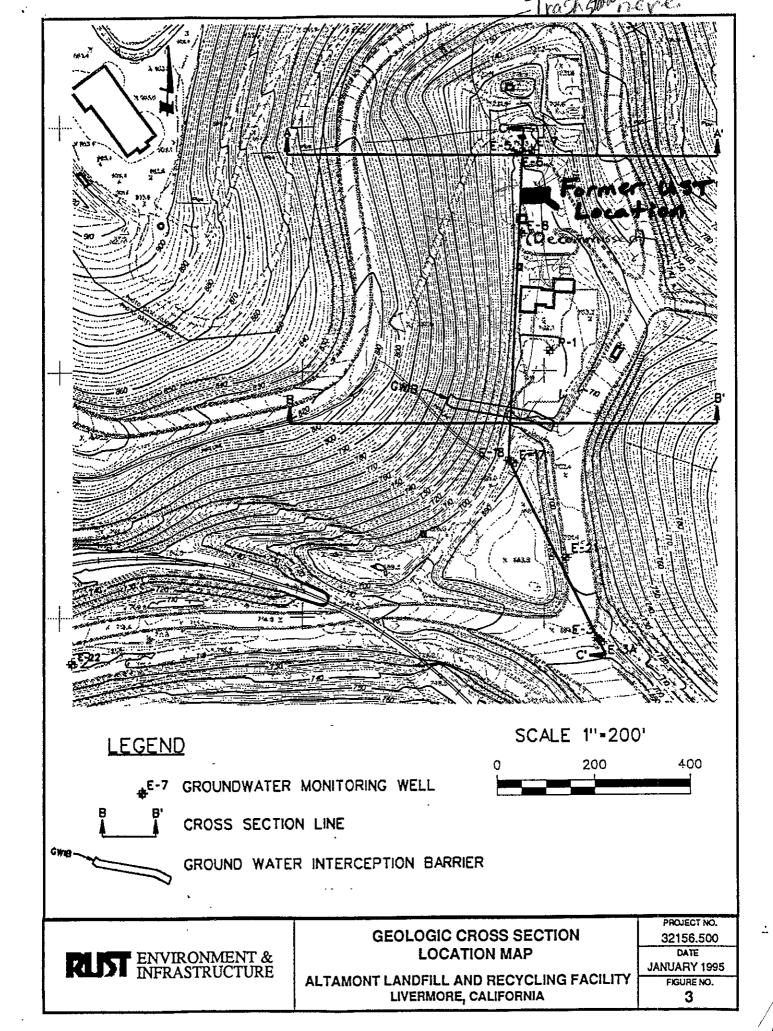
If there was any residual groundwater contaminated with diesel, it would have been intercepted, pumped and treated. Since the source of soil contamination was removed, no diesel contamination from the former UST excavation should be present. To confirm the lack of diesel contamination from the former UST excavation, ALRRF proposes the following plan of action. ALRRF proposes sampling piezometer P-1 and the GWIB (located on the enclosed groundwater gradient map and geologic cross sections) for TPH as diesel and benzene, toluene, ethylbenzene and total xylene isomers (BTEX). ALRRF also proposes to collect one grab groundwater sample from a boring or hydropunch within 10 feet of the location of contamination in former UST excavation. The grab groundwater sample will be collected from a location in the down gradient direction from the former UST excavation. ALRRF will analyze the groundwater sample for TPH as diesel and BTEX.

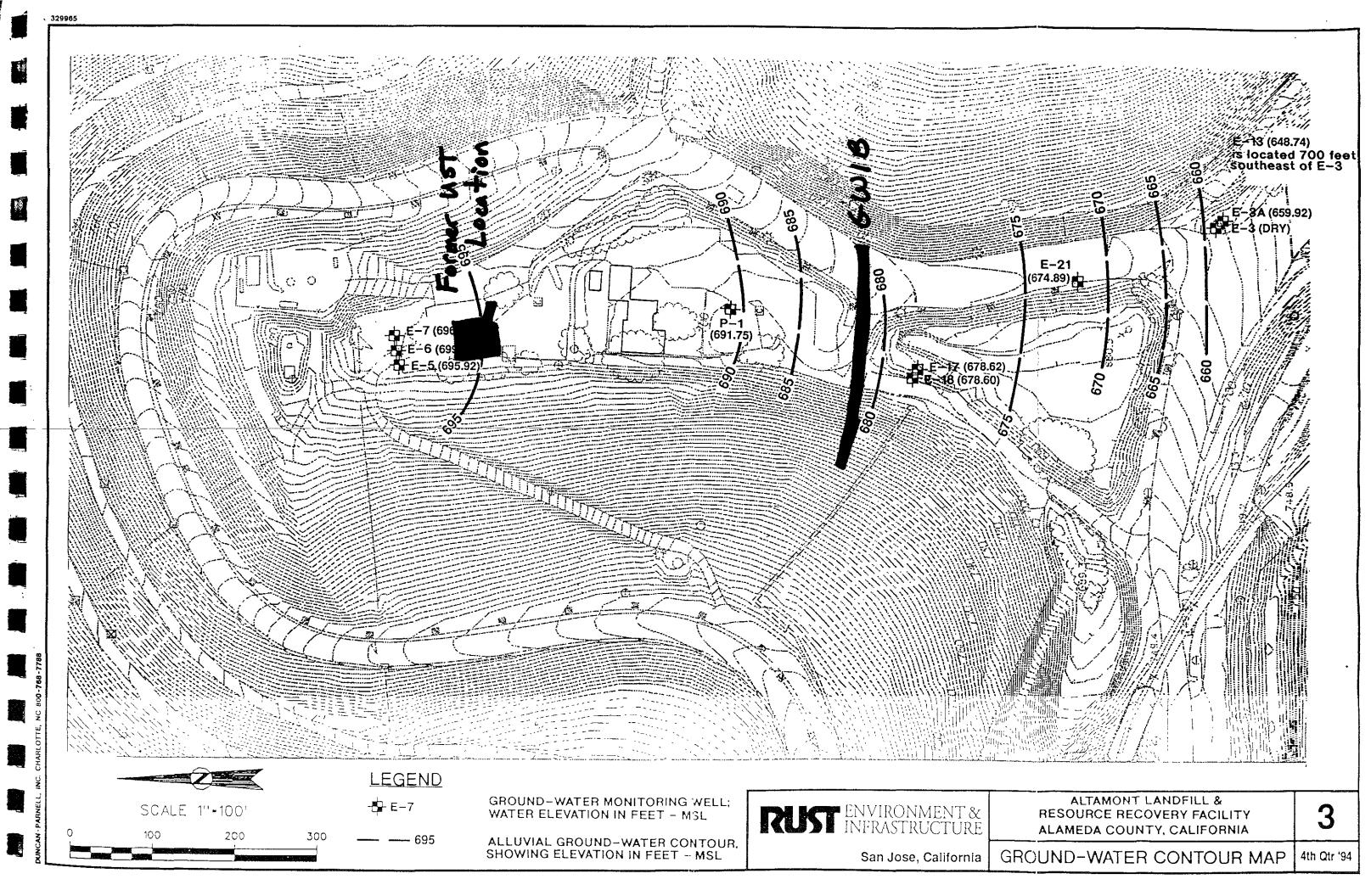
Please call me at (510) 449-6349 if you have any questions regarding the information stated above.

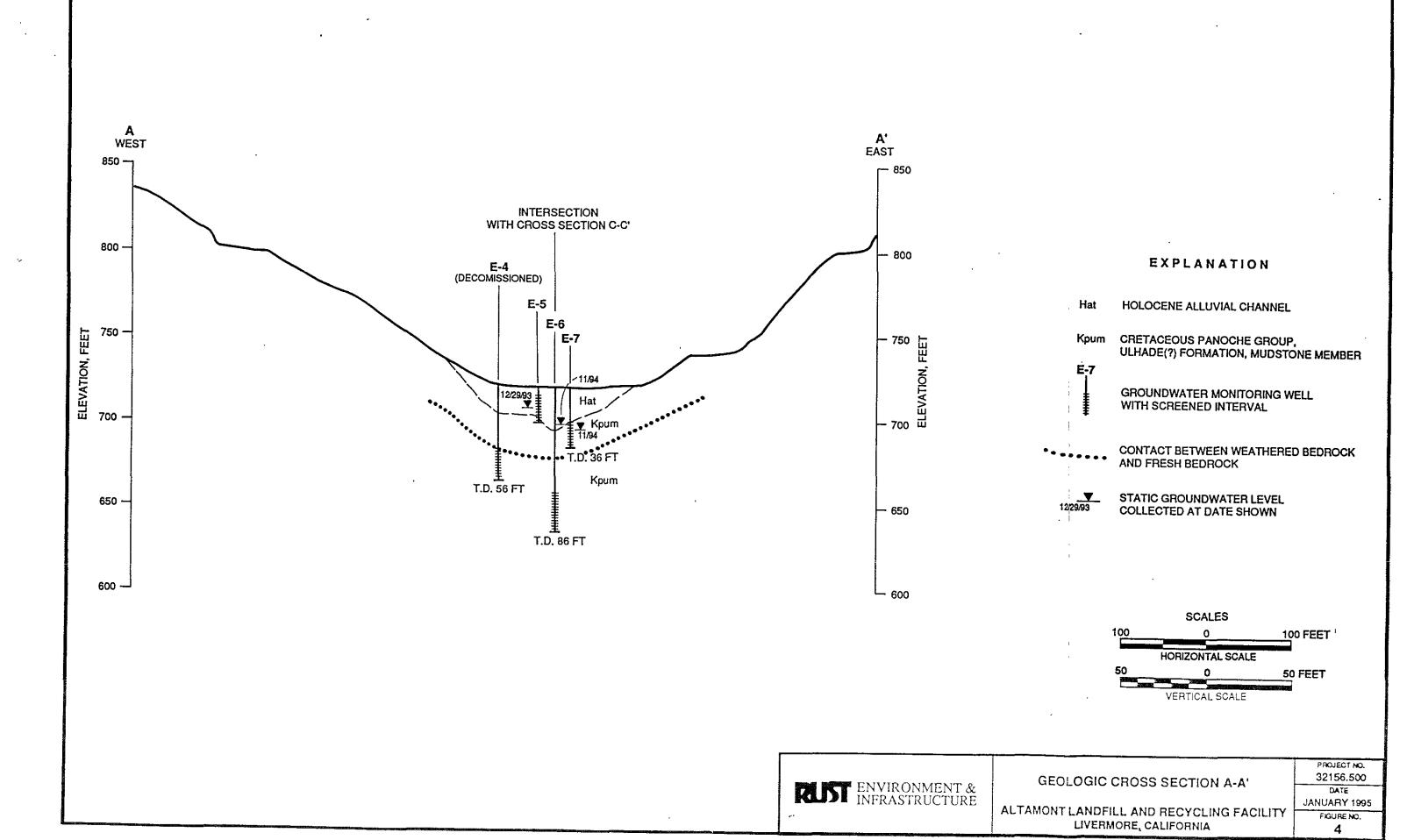
Sincerely,

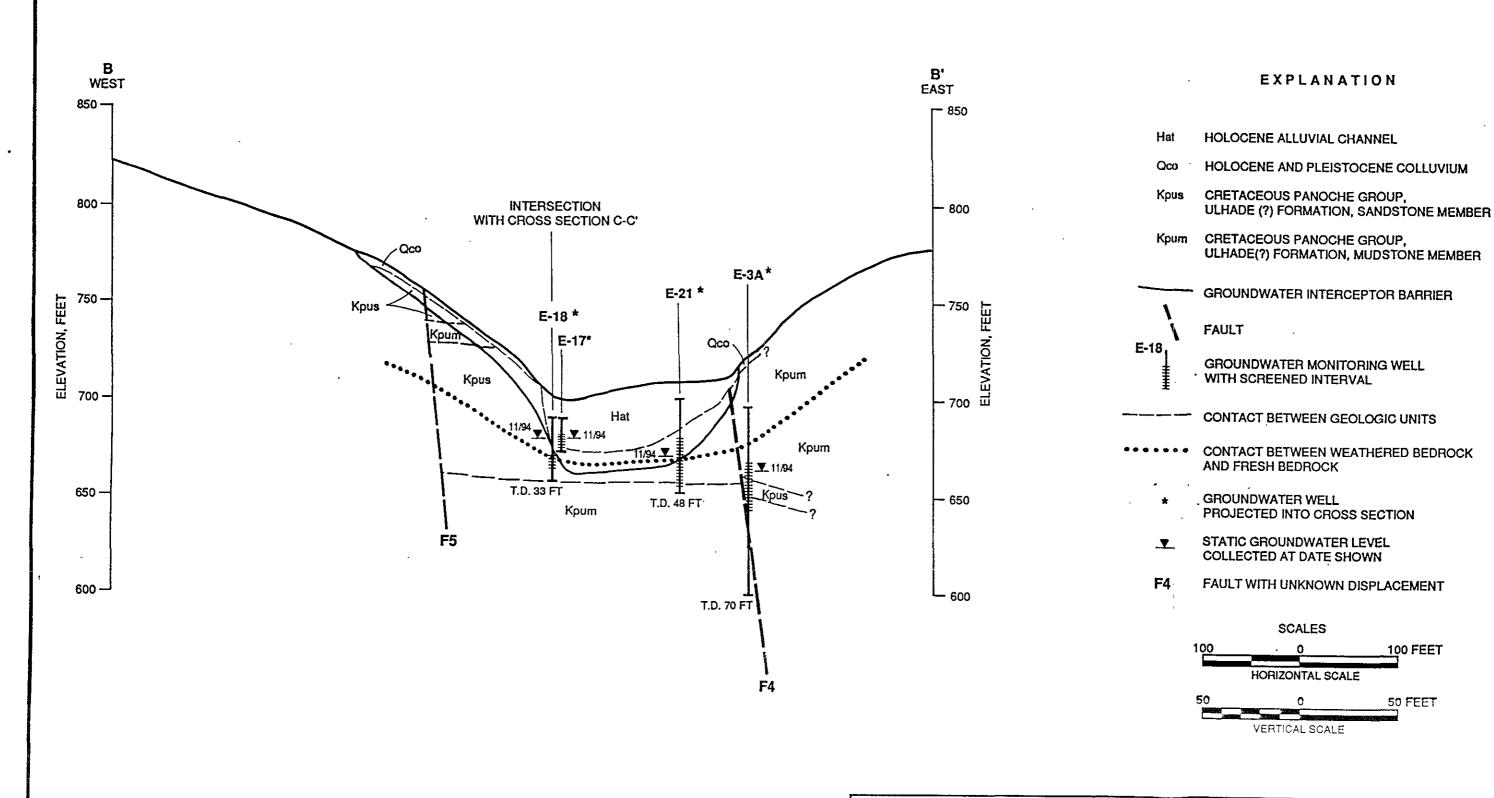
William Gilmour

Senior Environmental Engineer









ENVIRONMENT & INFRASTRUCTURE

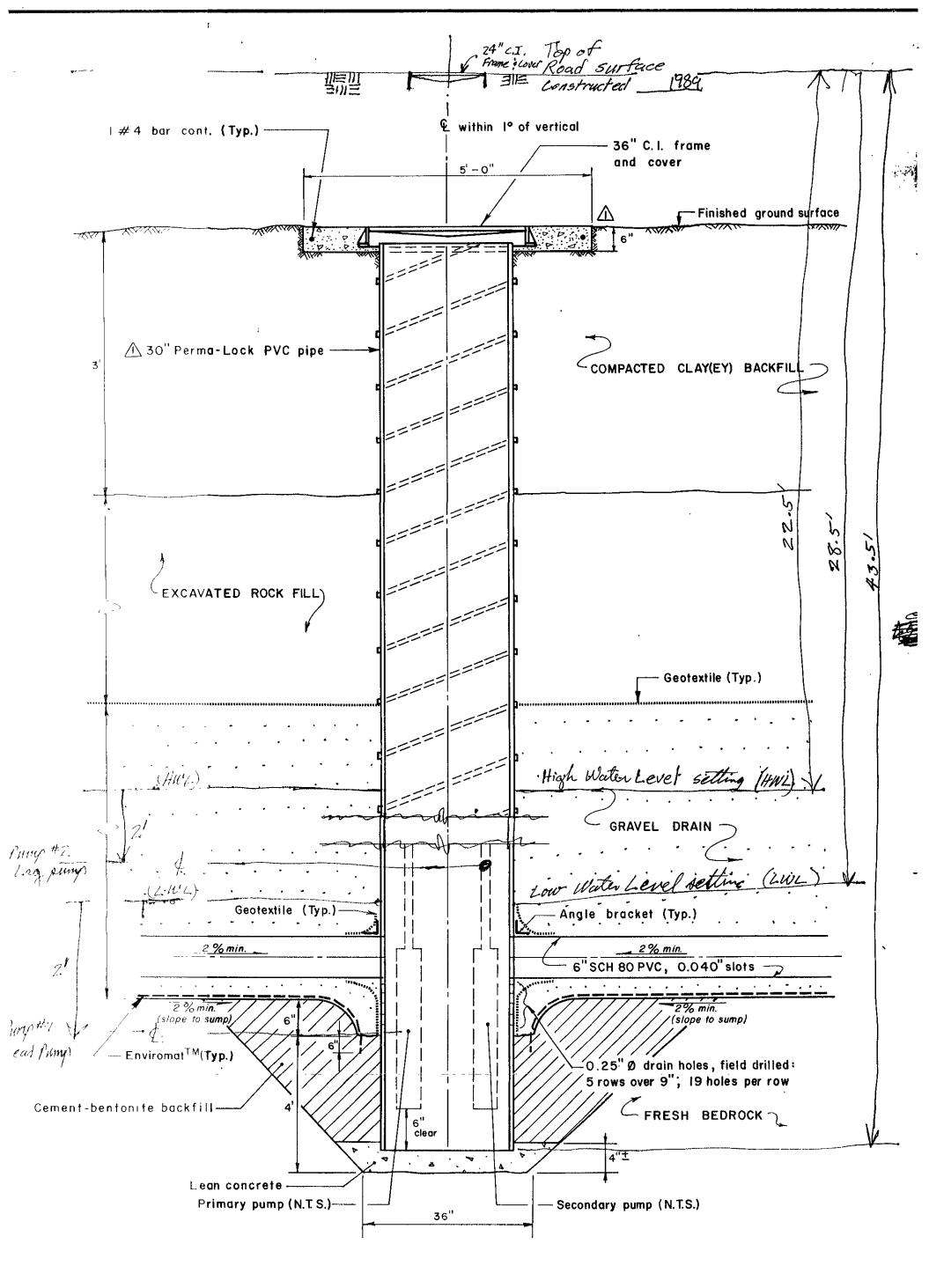
GEOLOGIC CROSS SECTION B-B'

ALTAMONT LANDFILL AND RECYCLING FACILITY LIVERMORE, CALIFORNIA

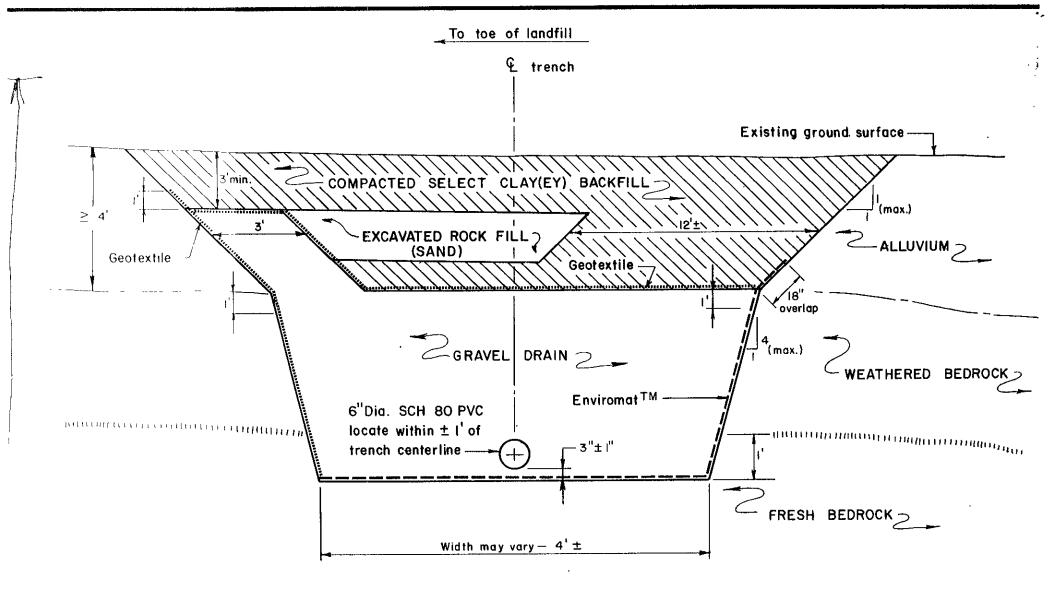
PROJECT NO.
32156,500
DATE
JANUARY 1995
FIGURE NO.

5

GEOLOGIC CROSS SECTION C-C' N 3°E S 27°E 720 -720 Intersection with Cross-Section A-A' S 27 E N 3°E Intersection 710 (decomissioned) -710 with Cross-Section B-B' ¥E-21 *P-1 11/94 🔻 700 -700 E-3A **GWB** Hat · 11/94 590 · Hat -690 Hat Hat 680 (MS 11/94 6/5/92 * Knus 670 · -670 TO 39 FT. Z 660 · 11/94 TD 48 FT. TD 48 FT. Kpus 650 --650 Koum Koum Kpum Kpum 640 -Koum 640 Kpum 630 --630 Kpus TD 86 FT. 520 TD 70 FT. -620 HORIZONTAL SCALE 200 300 610 **LEGEND** -610 PROJECTED INTO CROSS SECTION E-6 600 -<u> 1</u>600 ARTIFICIAL FILL MONITORING WELL AND VERTICAL SCALE SCREEN INTERVAL HOLOCENE ALLUVIAL CHANNEL 60 HOLOCENE AND PLEISTOCENE COLLUVIUM FIRST ENCOUNTERED 5-5-92 😎 Oco. GROUNDWATER ELEVATION CRETACEOUS PANOCHE GROUP, ULHADE(?) STATIC GROUNDWATER ELEVATION AND DATE WEASURED 11/94 🔻 FORMATION, SANDSTONE MEMBER CRETACEOUS PANOCHE GROUP, ULHADE(?) INFERRED CONTACT BETWEEN FORMATION, MUDSTONE MEMBER GEOLOGIC UNITS . . . WEATHERED / UNWEATHERED QUESTIONABLE CONTACT PROJECT NO. ~~~ BRECCIATED ZONE GEOLOGIC CROSS SECTION C-C' 32156.500 GW18 GROUNDWATER INTERCEPTION BARRIER ENVIRONMENT & INFRASTRUCTURE DATE FAULT JANUARY 1995 ALTAMONT LANDFILL AND RECYCLING FACILITY FIGURE NO. LIVERMORE, CALIFORNIA 6

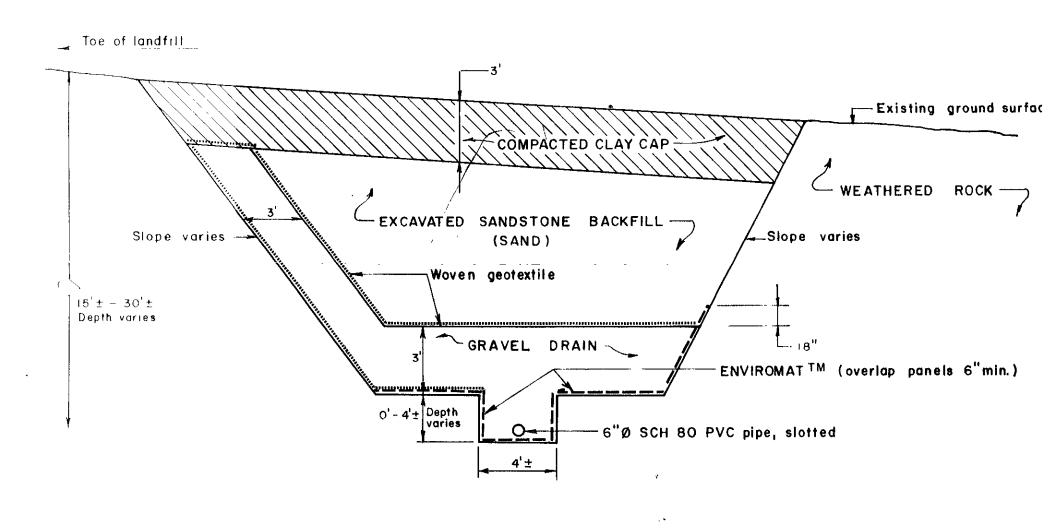


6WIB



COLLECTOR PIPE BEDDING AND BACKFILL ALLUVIUM AND WEATHERED BEDROCK EXCAVATION DETAIL 2

N.T.S.



RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-862-7550

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15 P.O. Box 401 1 1 1 1 1 1

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5. Transporter 1 Company Na CHEMICAL & 7. Transporter 2 Company Na	mo VASTE MANAGER	6. US EPA ID	78671	D. Transpo	rter's Phone ansporter's ID.	09) 386-075
9. Designated Facility Name of CHEMAGEL WAS 35251 OLL KETTLEMAN	STE MANAGEM SKYLWERA	10. US EPA ID 139 CATTOLOOK	614161/11	G. State For All It. Facility 7 (20) Ontainers	TOOO Phone 9) 38	6461117
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C.						State EPA/Other
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J. Additional Descriptions for	Materials Listed Above			K. Pendu	ng Codes for W	actes Listed Above
15. Special Handling Instruction	SFO KC					
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Copied from QMR's on file W/Solid Waste management

ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY

TABLE (

SUMMARY OF GROUNDWATER MONITORING NETWORK

MONITORING	TOP OF CASING	SCREENED	ZONE MONITORED
POINT	ELEVATION	INTERVAL	
•	· (feet – msl)	(feet)	
E-03	692.49	12-32	FARTHEST POINT OF REMEDIATED CONTAMINATION
E-3A	692.07	32-46.5	WEATHERED AND FRESH BEDROCK, ZONE BELOW E-3A
E-05	709.17	8–18	ALLUVIUM - LANDFILL TOE
E-06	709.09	74-84	FRESH BEDROCK - LANDFILL TOE
E-07	710.72	26-36	WEATHERED BEDROCK - LANDFILL TOE
E-13	655.94	9–16	636 ft. DOWNGRADIENT E-03, ALLUVIUM, UNCONTAMINATED
E-17	689.97	10-17.5	ALLUVIUM - DOWNGRADIENT INTERCEPTION BARRIER
E-18	690.50	19.5-22.5	WEATHERED BEDROCK - DOWNGRADIENT INTERCEPTION BARRIER
E-20	894.80	122-172	FRESH BEDROCK - EAST SIDE OF FILL AREA 1
20J1	760.00	NA	BACKROUND, WEST OF THE LANDFILL, OFFSITE
GWIB	NA	NA	GROUNDWATER INTERCEPTION BARRIER
LS	NA	NA	LEACHATE COLLECTION SUMP
VLY DRN	NA	NA	VALLEY DENDRITIC DRAIN

NA - Not available
Well 20J1 has not been surveyed.

PARAMETER	FILTRATION		METHOD &
FARAMETER .		ENSECO-Cal	EML
PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS	. NO	EPA 624	EPA 624 (8240)
CADMIUM, TOTAL	NO ·	EPA 200.7	EPA 200.7
COPPER, TOTAL	NO	EPA 200.7	EPA 200.7
IRON, DISSOLVED	YES	EPA 200.7	EPA 200.7
LEAD, TOTAL	NO	EPA 200.7	EPA 239.2
ZINC, TOTAL	NO	EPA 200.7	EPA 200.7
AMMONIA	YES	EPA 350.1	EPA 350.1
CHLORIDE	YES	EPA 300.0	EPA 325.1
NITRATE - NITROGEN	YES	EPA 300.0	EPA 353.1
SULFIDES, TOTAL	NO	EPA 376.2	NA
CHEMICAL OXYGEN DEMAND	YES	EPA 410.4	EPA 410.4
TOTAL KJELDAHL NITROGEN	YES	EPA 351.3	EPA 351.1
pH	NO	EPA 150.1	EPA 150.1
ELECTRICAL CONDUCTIVITY	. NO	EPA 120.1	EPA 120.1

NA = Not applicable

Method Detection Limits and Practical Quantitation Limits for EML 1991 Calibration Data Volatile Organic Data in µg/i

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