AGREEMENT TO FURNISH ENGINEERING SERVICES

FOR THE ENVIRONMENTAL ASSESSMENT

AND DESIGN OF THE

CALIFORNIA STREET LANDFILL GAS COLLECTION SYSTEM

This AGREEMENT is made and entered into as of this 4th day of September, 1990,

by and between

City of Redlands Municipal Utilities Department herein after referred to as "OWNER"

and

Kleinfelder, Inc. hereinafter referred to as "ENGINEER"

In consideration of the mutual promises, covenants and conditions hereinafter set forth, the parties do hereby agree as follows:

ARTICLE 1 - ENGAGEMENT OF THE ENGINEER

- 1.1 The OWNER hereby engages the ENGINEER and the ENGINEER hereby accepts the engagement to perform engineering services in connection with the preparation of the Environmental Assessment and for the design of the California Street Landfill Gas Collection System.
- 1.2 All services under this AGREEMENT shall be done in a professional manner, and ENGINEER represents that the firm employs those with the demonstrated skill and the professional expertise necessary to provide high quality services under this AGREEMENT.
- 1.3 The ENGINEER shall be responsible, to the level of competency presently maintained by other practicing professional engineers providing the same type of services for the professional and technical soundness, accuracy and adequacy of all reports, designs, drawings, specifications, and other services and materials furnished under this AGREEMENT.

ARTICLE 2 - SERVICES OF THE ENGINEER

- 2.1 The ENGINEER will perform the services in connection with the Project as defined in Attachment A, Scope of Work.
- 2.2 The following additional services may be provided by the ENGINEER when requested and approved by the OWNER:
 - 1. Construction survey.
 - 2. Additional copies of plans and specifications.
 - 3. Bidding services.
 - 4. Construction services.
 - 5. Construction inspection services.
 - 6. Miscellaneous services not specified elsewhere in the AGREEMENT.

ARTICLE 3 - RESPONSIBILITIES OF THE OWNER

- 3.1 The OWNER will place at the disposal of the ENGINEER all available information pertinent to the Project, including previous reports and any other data relative to the Project.
- 3.2 The OWNER will provide access to and make all provisions for the ENGINEER to enter upon public and private lands as required for the ENGINEER to perform his services under this AGREEMENT.
- 3.3 The OWNER will provide all environmental assessments or impact reports required for this project and not otherwise specifically required to be provided by the ENGINEER.
- 3.4 The OWNER will designate in writing a person to act as the OWNER's representative with respect to the services to be performed under this Agreement, such person to have complete authority to transmit instructions, receive information, interpret and define the Owner's policies and decisions with respect to materials, equipment, elements and systems pertinent to the services covered by this AGREEMENT.

ARTICLE 4 - PERIOD OF SERVICE

- 4.1 The ENGINEER shall proceed with the engineering services set forth in Article 2 in accordance with the schedule defined in Attachment B: Schedule.
- 4.2 The ENGINEER shall proceed with the services under this AGREEMENT promptly and will prosecute them diligently.

ARTICLE 5 - PAYMENTS TO THE CONSULTANT

- 5.1 For the services performed under Article 2, OWNER will pay the ENGINEER on a time and materials basis at the hourly rates shown in Attachment D: Schedule of Fees. The manhour estimates and total budgets are shown on Attachment C: Project Budget.
- 5.2 Payment for additional services requested by the OWNER per Article 2.2 will be in accordance with a separately negotiated fee or in accordance with the hourly fees shown in Attachment D: Schedule of Fees.
- 5.3 ENGINEER agrees that at the point 75-percent of budgeted costs have been expended for each scope project, the ENGINEER will notify the OWNER in writing, including a brief report on job status, percent complete, analysis of budget, and envisioned expenses to complete the contractual effort. Budgets shall not be exceeded except if previously approved by OWNER.
- 5.4 The ENGINEER shall bill the OWNER monthly by submitting an invoice indicating the services performed, who performed the services, and the detailed cost of all services including backup material, if requested.

Payments by OWNER to ENGINEER shall be made within 30 days after receipt and approval of ENGINEER'S hereinabove invoice, by warrant payable to the ENGINEER.

All notices, bills and payments shall be made in writing and may be given by personal delivery or by mail. Notices, bills and payments sent by mail should be addressed as follows:

TO OWNER:

CITY OF REDLANDS
Municipal Utilities Department
P. O. Box 3005
2 E. Citrus Avenue
Redlands CA 92373

TO ENGINEER:

KLEINFELDER, INC. 1370 Valley Vista Drive Suite 150 Diamond Bar CA 91765

When so addressed, such notices shall be deemed given upon deposit in the United States Mail. In all other instances, notices, bills and payments shall be deemed given at the time of actual delivery. Changes may be made in the names and addresses of the person to whom notices, bills and payments are to be given by giving notice pursuant to this paragraph.

ARTICLE 6 - INSURANCE AND INDEMNIFICATION

- 6.1 ENGINEER shall maintain worker's compensation insurance and, in addition, shall maintain insurance to protect OWNER from claims for damage due to bodily injury, personal injury, or death and claims for injury to or destruction of tangible property while performing the services covered by this AGREEMENT. Said public liability and property damage insurance shall be in a minimum combined single limit of \$1,000,000 per occurrence. The OWNER shall be named a primary additional insured on insurance coverage for public liability and property damage. The ENGINEER shall provide OWNER with a certificate evidencing such insurance coverage.
- 6.2 ENGINEER agrees to maintain professional liability insurance pursuant to this paragraph to protect OWNER from negligent acts, errors or omissions of a professional nature; the total aggregate of ENGINEER'S professional liability insurance coverage shall be a minimum of \$50,000 or the Engineer's total estimated fee, as shown in Attachment C: Project Budget, whichever is greater.
- 6.3 ENGINEER agrees to indemnify, hold harmless and defend OWNER and any and all of their elected officials, officers, agents, engineers, and employees from and against all claims, loss, damage, charge or expense, to which they or any of them may be put or subjected to arising out of or resulting from any willful misconduct or negligent act or actions, omission or failure to act on the part of the ENGINEER, his contractors, his suppliers, anyone directly or indirectly employed by any of them or anyone for whose acts or omissions any of them may be liable in the performance of the services described in this AGREEMENT.

ARTICLE 7 - GENERAL CONSIDERATIONS

- 7.1 In the event of any legal action brought by either party against the other to enforce any of the obligations hereunder or arising out of any dispute concerning the terms and conditions hereby created, the losing party shall pay the prevailing party such reasonable amounts for fees, costs, expenses, including attorney's fees, as may be set by the Court.
- 7.2 The ENGINEER shall not sublet or assign any of the services covered by this AGREEMENT, except with the prior written approval of the OWNER and in strict compliance with the terms, provisions, and conditions of the AGREEMENT.

7.3 The key ENGINEER'S personnel proposed for this project are as follows:

Thomas E. Bailey, P.E. - Principal in Charge Douglas M. Isbell, P.E. - Project Director/Manager Gary Glasser - Mechanical Design Lenda Doane - Testing Manager Michael R. Perry - Environmental Assessments

ENGINEER agrees that these key people will be made available and assigned to the OWNER'S project, and that they will not be replaced without concurrence from the OWNER.

- 7.4 It is understood and agreed by and between the parties that all documents, records, drawings, designs and specifications, cost estimates, and other project documents developed by the ENGINEER pursuant to this AGREEMENT shall become the property of OWNER and shall be delivered to OWNER upon completion of services. Any reuse of such documents for other projects and any use of incomplete documents will be at the OWNER's sole risk.
- 7.5 ENGINEER is for all purposes an independent contractor. All qualified personnel provided by ENGINEER pursuant to the provisions of this AGREEMENT are to be employed by ENGINEER for his account only, and in no event shall ENGINEER or any personnel retained by him be deemed to have been employed by the OWNER or engaged by the OWNER for the account of or on behalf of the OWNER.
- 7.6 Unless earlier terminated as stipulated below, this agreement shall terminate upon completion and acceptance by the OWNER of all services approved for performance under Article 2 of this AGREEMENT.
- 7.7 This AGREEMENT may be terminated in writing by either party in the event of failure by the other party to fulfill its obligations under this AGREEMENT through no fault of the terminating party: PROVIDING, that no such termination may be effected unless the other party is given (1) not less than thirty (30) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate, and (2) an opportunity for consultation with the terminating party prior to termination.
- 7.8 If this AGREEMENT is terminated by the OWNER for reasons of default by the ENGINEER, an adjustment to ENGINEER'S compensation shall be made, but (1) no amount shall be allowed for anticipated profit or unperformed services,

- and (2) any payment due to the ENGINEER at the time of termination may be adjusted to the extent of any additional costs to the OWNER occasioned by the ENGINEER'S default. If termination for default is effected by the ENGINEER, the adjustment in compensation shall provide for payment to the ENGINEER to include a reasonable profit for services rendered and reimbursement for expenses incurred prior to the termination, in addition to termination settlement costs reasonably incurred by the ENGINEER relating to commitments which had become firm and approved by OWNER prior to the termination.
- 7.9 Upon receipt of a termination notice, the ENGINEER shall (1) promptly discontinue all services affected (unless the notice directs otherwise), and (2) deliver or other wise make available to the OWNER, copies of data, design calculations, drawings, specifications, reports, estimates, summaries, and such other information and materials as may have been accumulated by the ENGINEER in performing services under this AGREEMENT.
- 7.10 ENGINEER shall maintain books and accounts of all project related payroll costs and all expenses and incidental expense. Books shall be available at all reasonable times for examination by the OWNER at the office of the ENGINEER.
- 7.11 This AGREEMENT, including attachments incorporated herein by reference, represents the entire AGREEMENT and understanding between the parties and any negotiations, proposals or oral agreements are intended to be integrated herein and to be superseded by this written AGREEMENT. Any supplement or amendment to this AGREEMENT to be effective shall be in writing and signed by the OWNER and ENGINEER.
- 7.12 This AGREEMENT is to be governed by and construed in accordance with the laws of the State of California.

IN WITNESS WHEREOF, duly authorized representatives of the parties have signed in confirmation of this AGREEMENT.

CITY OF REDLANDS

KLEINFELDER, INC.

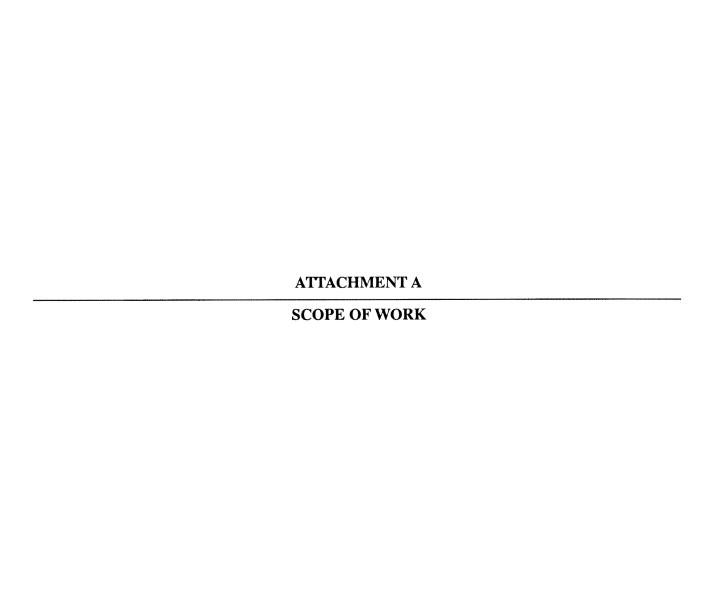
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CHARLES DEMIRJYM

Mayor /

DOUGLAS M. ISBELL,

Engineering Manager



Task 1 Preliminary Design

1.1. Conceptual Design

Kleinfelder will prepare conceptual designs for two alternative gas collection and condensate system layouts. The first alternative will include an above ground system with the header lines installed on the landfill side slopes. The second alternative will include an underground system with the header lines installed at a newly created bench on the existing landfill. Preliminary cost estimates will be prepared for both alternatives. A meeting will be held with the City to discuss the alternatives and to determine which alternative will be pursued.

1.2 Landfill Gas Quantification

The landfill gas quantity and availability will be estimated by reviewing the site's fill history and utilizing Kleinfelder's landfill gas generation computer modeling program.

1.3 Piping and Instrumentation Diagram

A piping and instrumentation diagram (P&ID) will be prepared for the gas flare station to show the method of gas disposal including the necessary pipeline controls and instruments for safe operation.

1.4 Collection System Layout

A preliminary gas collection system layout of the selected alternative design (Task 1.1) will be prepared showing approximate well location, header location and flare station location. The City will provide an appropriate topographic base map. This drawing will be submitted to SCAQMD as part of the application for permit to construct.

(3)70Y89292 I-A1

1.5 Basis of Design

Kleinfelder will prepare a basis of design report. This report will describe the components and design objectives for the landfill gas collection system and flare station, including the P&ID and collection system layout. This report will be submitted to SCAQMD as part of the application for permit to construct.

1.6 **SCAQMD Application**

This task includes the preparation and coordination with the SCAQMD for the SCAQMD application for the permit to construct.

1.7 <u>Condensate Handling</u>

Develop a preliminary design of a condensate removal and disposal system, assuming collection, tank storage, and hauling offsite. The design will allow for future modification of the condensate system to provide for condensate pretreatment which may be required, for direct disposal at the City's wastewater treatment plant, pending determination of the Santa Ana RWQCB and the Municipal Utilities Department.

1.8 Wastewater Treatment Plant Digester Gas

Although the disposal of wastewater treatment plant digester gas is not included in this project, Kleinfelder will design the flare station to accommodate future disposal of this gas.

1.9 Cost Estimate

Preparation of a preliminary cost estimate for the selected LFG collection system and flare station.

Task 2 Project Design

2.1 Collection System Design

Kleinfelder will prepare all construction drawings for the proposed landfill gas collection system to include all system piping, well locations and associated details.

(3)70Y89292 I-A2

2.2 Flare Station Design

Kleinfelder will prepare construction drawings for a landfill gas flare station to include the flare, blower, inlet separator, valves and necessary process control system. The flare station will be designed utilizing a prefabricated skid set on a concrete pad. Since the flare is to be located with the wastewater treatment plant enclosure, no additional financing is anticipated.

2.3 Flare Station Structural

Kleinfelder will prepare a soils report and design the foundation under the flare station.

2.4 Flare Station Electrical

Kleinfelder will prepare electrical construction drawings required for the flare station. It is assumed that the City of Redlands will supply power to the flare. Cost of any utility/flare station interface design is not included.

2.5 Condensate Handling

Kleinfelder will prepare construction drawings for a condensate collection system. This system does not include pretreatment design. The design will allow for collection from underground tanks.

Task 3 Specifications and Bid Package

3.1 Flare Bid Package

Due to the long lead time associated with the purchase of landfill gas flares, Kleinfelder will prepare separate special provisions specifications for the flare skid assembly to allow the City to competitively bid the flare skid fabrication prior to the construction contract.

3.2 Flare Station and LFG Collection System Specification

Kleinfelder will prepare special provisions and technical specifications for the landfill gas collection system and condensate handling system. The City will provide the basic bid documents including the general provisions, and will assemble and print the combined bid package.

3.3 <u>Bidding Assistance</u>

Kleinfelder will provide assistance to the City during the bidding phase of the contract to include the clarification or resolution of questions regarding the bid documents, the preparation and issuance of addenda to the bid documents and a pre-bid conference at the project site.

Kleinfelder will review bids and make recommendations to the City on contract award.

(3)70Y89292 I-A4

PHASE II CEQA INITIAL STUDY

The City of Redlands seeks assistance in the preparation of a CEQA Initial Study, assessing the potential environmental impacts associated with the construction and operation of a Landfill Gas Collection and Control System at the California Street Landfill. This proposal presents the scope of work and estimated costs to provide the City of Redlands with this preliminary CEQA documentation in compliance with the CEQA guidelines.

Task 1 Project Kick-Off

Task 1 will consist of discussions between Kleinfelder and the City's Planning and Engineering staff. The purpose will be to assess the scope of this study which will focus upon those aspects of the project that qualify as potential environmental impacts.

Task 2 Field Investigation

Kleinfelder will conduct two site visits to gather information regarding the existing site conditions and the surrounding land uses. Based upon evaluation of this information, we will assess the potential environmental impacts at the site.

Task 3 Maps and Graphics Preparation

Task 3 will entail the development of site maps and graphics based upon the preliminary design and estimates provided in Phase I of this project. Kleinfelder will develop a preliminary site map denoting the proposed locations of the landfill gas collection system and associated headers. We will examine alternative locations for the gas flare and provide up to four alternative locations to assess their potential impact.

Task 4 Draft Report Preparation

Task 4 will involve preparation of a Draft Initial Environmental Assessment Report based upon the City's Local Guidelines for Implementing the California Environmental Quality Act (1989 Revision). This report will consist of an Initial Environmental Checklist, summarized project description, and a discussion of the landfill history. Additionally, the report will assess the potential impacts of the project and will include applicable non-impact substantiation. A

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generalized discussion of the environmental evaluation procedures utilized and references cited will also be included in the Draft Report. Suggested mitigation measures that will reduce the level of impacts will be discussed within the Draft Initial Environmental Assessment Report. These suggested mitigation measures will focus upon means to affect a reduction of the potential impacts identified within the Initial Study Checklist.

This Draft Initial Environmental Report will be submitted to the City of Redlands Municipal Utilities Department for submittal to the Planning Department and appropriate scheduling of the public hearings.

Task 5 Meetings and Hearings

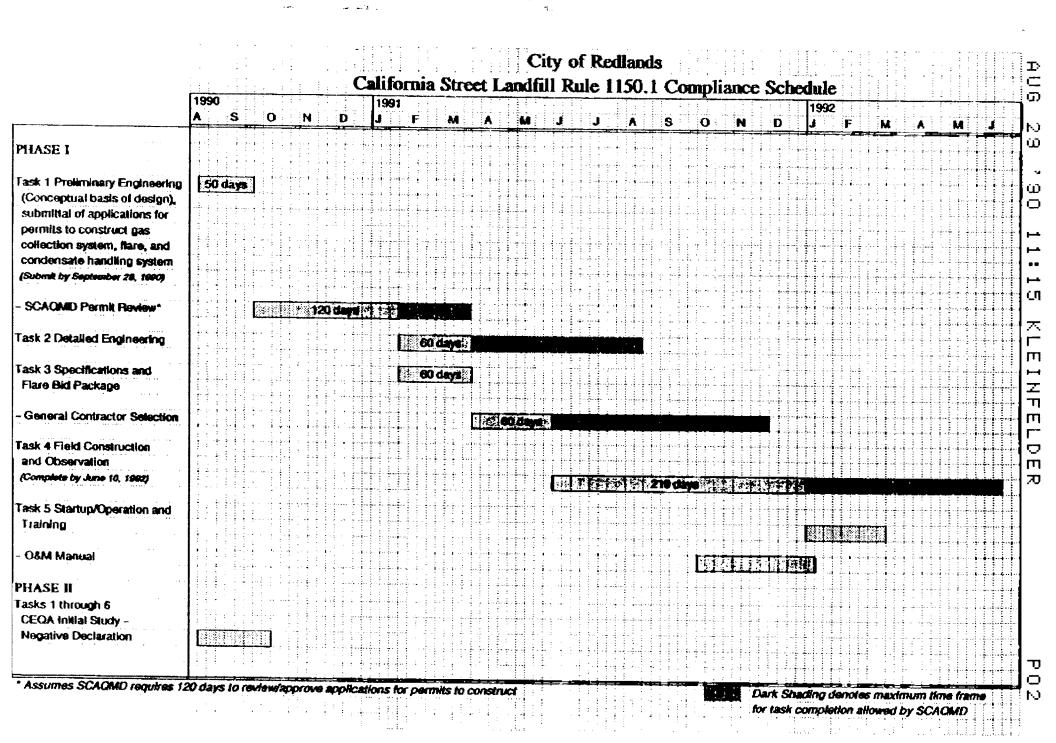
This task will entail attendance at the City of Redlands Technical Advisory Committee (TAC) Meeting and Environmental Review Committee (ERC) Meeting for approval of a Negative Declaration or Mitigated Negative Declaration as determined by the City of Redlands Planning Department acting as the Local Lead Agency.

Task 6 Final Report Preparation

Based upon the comments received at the TAC meeting, Kleinfelder will revise the draft report as prepared under Task 4 and prepare a final report for presentation at the ERC Meeting scheduled for September 10, 1990.

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ATTACHMENT "B"-SCHEDULE



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CITY OF REDLANDS - CALIFORNIA STREET LANDFILL

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PIPING & INST DIAGRAM		3	-	4	4	8		
COLLECTION SYSTEM LAYOUT	1	8	8	4		16		
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CITY OF REDLANDS - CALIFORNIA STREET LANDFILL

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ATTACHMENT "D"-SCHEDULE OF FEES



1990 FEE SCHEDULE FOR ENVIRONMENTAL SERVICES

Kieinfelder is a consulting firm that provides services in hydrogeology, environmental engineering, geochemistry, industrial health and safety, geotechnical engineering, engineering geology, mining engineering, water resources, solid waste engineering and planning, air quality, agricultural engineering, and materials engineering and testing. Since 1961, the firm has provided consulting services to industries, governmental agencies, commercial firms, developers, financial institutions, and other design professionals.

OFFICES AND TESTING LABORATORIES

ARIZONA

4920 E. McDowell, Suite 101 Phoenix, AZ 85008 (802) 231-0992

CALIFORNIA

17100 Pioneer Blvd, Suite 350 Artesia, CA 90701 (213) 860-5559

125 A Grobric Court Cordella, CA 94585 (707) 864-1393

1975 E Street Fresno, CA 93708 (209) 486-0750

526 Hofgaarden Street City of Industry, CA 91744 (818) 369-2224

15375 Barranca Parkway, Suite J-101 Irvine, CA 92718 (714) 727-4466

123 Commerce Drive Mammoth Lakes, CA 93546 (519) 934-6829 (Seasonal)

1575 West Main Street Merced, CA 95340 (209) 384-7552

6880 Koll Genter Parkway, Suite 200 Pleasanton, CA 94588 (415) 484-1700 4369 Caterpillar Road Redding, CA 96003 (916) 244-7203

11731 Sterling Avenue, Sulte E Riverside, CA 92503 (714) 688-2513

5865 Labath Avenue, Suite 5 Rohnert Park, CA 94928 (707) 585-8608

601 Commerce Drive, Suite 130 Roseville, CA 95678 (916) 784-986

9795 Business Park Drive Sacramento, CA 95827 (916) 386-1701

9771 Clairemont Mess Blvd, Suite G San Diego, CA 92124 (619) 541-1145

2825 East Myrtie Street Stockton, CA 95205 (209) 948-1345

524 Weddeli Drive, Suite 3 Sunnyvale, CA 94089 (408) 734-4950

2121 N. California Blvd, Suite 570 Walnut Creek, CA 94598 (415) 938-5810

NEVADA

6850 Paradise Road Las Vegas, NV 89119 (702) 736-2936

3189 Mill Street Renc, NV 89502 (702) 323-7182

UTAH

2605 East 3300 South Salt Lake City, UT 84109 (801) 488-6769

212 North 1000 East St. George, UT 84770 (801) 628-5231

WASHINGTON

1200 112th Avenue NE, Suite C-226 Believue, WA 98004 (206) 451-2877

BASIS OF CHARGES

- Listed herein are typical prices for environmental services most frequently performed by Kleinfelder.
 Prices for other astroices provided by the firm or other environmental services not listed will be given upon request, as well as special quotations for programs involving volume work.
- 2. The client agrees to limit the consultant's liability to the client and to all contractors and subcontractors on the project due to professional negligent acts, errors or omissions of the consultant to the sum of \$50,000 or the consultant's fee, whichever is greater. AGREEMENT TERMS SHALL PREVAIL.
- 3. Invokes will be issued on a monthly basis, or upon completion of a project, whichever is sooner. The net cash amount of this invoke is payable on presentation of the invoke. If not paid within 30 days after the date of the invoke, the unpaid balance shall be subject to a FINANCE CHARGE of 1½% per month, which is an ANNUAL PERCENTAGE RATE of 15%. AGREEMENT TERMS SHALL PREVAIL.
- 4. A two-hour minimum charge will be made for all field services. A tour-hour minimum charge will be made for field hours in excess of two hours. An eight-hour minimum charge will be made for field services in excess of four hours per day. A one-hour minimum charge per day will be made for any office services.
- 5. An overtime premium of \$15 per hour will be charged for all personnel services in excess of eight hours per day or Saturday, and \$30 per hour on Sundays or Holldays.
- 6. Per diem will be charged at a rate of \$78 per day per person or expenses plus 20%, whichever is greater.
- 7. Outside services will be charged at cost plus 20% unless otherwise noted.
- 8. We are protected by Worker's Compensation insurance (and/or Employer's Liability Insurance), and by Public Liability Insurance for bodily injury and property damage, and will furnish certificates thereof upon request. We assume the risk of damage to our own supplies and equipment. If your contract or purchase order places greater responsibilities upon us or requires further insurance coverage, we, specifically directed by you, will take out additional insurance (if procurable) to protect us at your expense, but we shall not be responsible for property damage from any cause, including fire and explosion, beyond the amounts of coverage of our insurance.
- All environmental samples may be returned to clients at Kleinfelder's discretion 30 days after submission
 of final report, unless prior arrangements are made.
- 10. Proper disposal or handling of soil boring cuttings, well development and purge waters, decontamination solutions, and other contaminated/potentially contaminated materials is the responsibility of the client. Kielnfelder can provide containers for onsite containment and can advise the client regarding proper handling procedures.
- NOTE; PER DIEM WILL ONLY BE AUTHORIZED FOR EMPLOYEES ASSIGNED TO THIS PROJECT FROM OFFICES OTHER THAN THE DIAMOND BAR OR RIVERSIDE OFFICE, EXCEPT BY SPECIAL ARRANGEMENT WITH THE OWNER AND APPROVED IN WRITING.



1990 SCHEDULE FOR ENVIRONMENTAL SERVICES

PROFESSIONAL STAFF KATES*

Research Assistant	\$ 60/hour
Technical Writer	\$ 70/hour
Assistant Professional	\$ 72/hour
Staff Professional	\$ 83/hour
Project Professional	\$ 95/hour
Project Manager ,	\$100/hour
Senior Professional	
Senior Project Manager	\$115/hour
Principal Professional	
Senior Principal	
Special Consultant(s)	On Request

ADMINISTRATIVE/TECHNICAL STAFF RATES

Clerk/Typiet	\$ 42/hour
Technical Typist	\$ 50/hour
Project Administrative Assistant	
Drafter	
Designer	\$ 62/hour
Senior Designer.,,,	\$ 72/hour
Field Technician	\$ 50/hour
Environmental Technician	\$ 60/hour
Senior Environmental Technician	

Applies to ell professional rates including but not limited to civil, mechanical, chemical, electrical, geotechnical and environmental engineers; industrial hygienists; geologists; hydrogeologists; hydrologists; and computer specialists.

ENVIRONMENTAL SAMPLING AND TESTING EQUIPMENT

SOIL AND WATER	
Acoustic Water Level Indicator	
Air Compressor (3 - 10 cfm)	\$ 85/day
Analog Thermometer*	. \$ 10/day
Bailers	. \$ 35/day
Bed Load Samplers	
Hand-Heid Low Flow	
High Flow with Suspension System and Winch	
Brunton Transit*	. \$ 10/day
Centrifugal Water Pump*	
Conductivity, pH, and Temperature Monitor	\$ 40/day
Conductivity-Based Water Level Indicator	\$ 40/day
Current Meter/Flow Measurement Equipment	\$ 75/day
Diaphragm Surface Pump	
Digital Thermometer*	\$ 10/day
Groundwater Sampling Truck/Trailer	\$ 60/hour
(Complete with generator, air compressor, sample pump and reel assembly, steam	
cleaner and water tank, water level indicator, conductivity, pH and temperature	
monitor, bailer) 4-hour minimum	
Hand Auger and Soil Sampler	
Hermit Hydrologic Monitor	- ,
Isco Composite Water Sampler Unit	
sco Flow Recorder	\$100/day
Level or Transit and Rod	
Line/Cable Locater	
Measuring Wheel*,,	
Metal Detector* ,	,
Peristatic Pump	•
5H Meter*	
Pipe Cutter and Threader*	
Portable Air Compressor*	
Portable Generator*	\$ 30/day
Ortable Generator (1.5 to 4 kW)	\$ 75/day
Portable Generator (greater than 4 kW)	\$ 95/day
Power inverter*	\$ 15/day
Tump Bladders	
Renge Finder*	\$ 10/day
Steam Cleaner (0.5 to 2 gpm)	\$ 95/day
Stevens Water Level Recorder	\$ 40/day
Suspended Sediment Samplers	
DH48 Hand-Heid Low Flow	\$ 45/day
D49, D74 High-Flow with Suspension System and Winch	\$ 76/day
railer-Mounted 4" Submersible Pump and Reel Assembly	\$135/day
taller mounted 4 Submersible Pump and Reel Assembly	\$300/day
ransducer and SE1000 Recorder	\$195/day
Included a Makana Marana M	\$750/week
/ariable Voltage Supply*	\$ 20/day
ideo Camera	\$ 55/day
Valkie Talkie Set*	\$ 15/day
Vell Development Tool	\$ 45/day

Weakly and monthly rates available upon request.



Bacharach Q, Combustible Analyzer 30 100 35 35 35 35 35 35 35	AIR AND GAS	Rate/Day	Rate/Week	Rate/Month
Bacharach O ₂ Combustible Analyzer 30 100 33 Barhole Punch 15 35 15 Barnometer 10 35 11 Calibration Gas 5 20 6 Calibration Gas Regulator 50 175 55 Combustible Gas Analyzer 50 175 55 Differential Pressure Transducer 20 75 22 Dreager Quantimeter 100 350 1,10 Dragger Quantimeter 10 350 1,10 Dragger Quantimeter 10 350 1,10 Dragger Quantimeter 10 30 1,10 Dragger Quantimeter 10 30 1,10 Dragger Quantimeter 10 acch 10 30 1,10 Dragger Lubes 10 acch 10 30 10 30 10 30 10 30 10 30 10 30 10 30 10 35 20 60 ea	Absolute Pressure Transducer	\$ 20	\$ 65	\$ 200
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MONITORING WELL INSTALLATION MATERIALS*

		2"	4*
Casing, Blank Schedule 40, PVC with Threaded Jointa	_		•
10-foot lengths	\$	8.00/foot	\$12/foot
5-foot lengths	\$	7.50/foot	\$16/foot
Casing, Screens, 0.02* Slots, Schedule 40 PVC with Threaded Joints, 10-foot lengths	\$	7.50/fpot	\$18/foot
Casings, Screens, 0.02" Slots, Schedule 40 PVC with			419/1001
Threaded Joints, 5-foot lengths			\$27/foot
Casing, PVC Plug	\$	6.00 each	\$21 each
Casing, PVC Cap	\$	11.00 each	\$27 each
Sand, 100# bag		22.00/bag	
Bentonite Pellets, 50# bucket	\$	95.00/bucket	
Drums	\$	45.00 each	
Granulated Bentonite, 50# sack	\$	40.00/sack	
Cement/Bentonite Slurry	\$1	10.00/cubic yard	l
Security Tops	\$1	90.00 each	
Brass Tubes	\$	6.50 each	
Dedicated Pumps	O	n Request	

Quotations on prices for PVC well casings greater than 4-inch diameter and other materials (stainless steel, etc.) provided on request.

HEALTH AND SAFETY EQUIPMENT

Portable Personnel Decontamination Trailer	\$215/day
Personnel Air Sampling Pump	
Borehole Ventilation System	\$160/day
Level A Protection	
Level B Protection*	
Level C Protection [†]	\$110/day/person
Level D Protection [†]	\$ 40/day/person
Limited Level D Protection*	\$ 30/day/person

Charges for each protection level are based on dry work conditions and use of uncoated PVC/nitrile/neoprene gloves. A nominal charge for wet work conditions requiring coated or special chemical resistant coveralis (i.e., Saranex) and gloves (i.e., Viton) may be added.

SPECIAL MEDICAL SURVEILLANCE COSTS

Baseline physical costs are covered by the company; however, project-specific medical tests will be charged at cost plus 20%.



OTHER EQUIPMENT CHARGES

GEOPHYSICAL EXPLORATION EQUIPMENT	
Seismograph, Single Channel Bison Model 1570C or Nimbus	
Model E8-125	\$160/day
Seismograph, Twelve Channel Nimbus Model ES1210F	\$420/day
Resistivity Meter, Bison Model #2390	\$140/day
Soil Test Model R-400	\$110/day
Megger Earth Tester	\$ 90/day
Magnetometer, Portable Proton-Geometrics Model 6816	\$160/day
Electromagnetics,	\$190/day
Ground Penetrating Radar	On Request
VEHICLES	
Vehicle, 2 Wheel Drive	\$ 7/hour
Vehicle, 4 Wheel Drive	\$ 10/hour
Milezge, 2 Wheel Drive	\$ 0.45/mlle
Mileage, 4 Wheel Drive	\$ 0.50/mile
Utility Trailer	\$ 30/day
OFFICE EQUIPMENT	
Personal Computer, basic software systems	\$ 12/hour
Microcomputer, basic software systems and supporting hardwaref	\$ 15/hour
Mainframe Computer Time-Sharing (per CPU minute)†	\$ 6/minute
Computer Connect Time*	\$ 5/hour
Diak Storage (per megabyte)†	\$ 55/month
Interactive Surface Modeling (ISM) Software Surcharget	• •••
Environmental information Management System Software Surcharget	\$ 25/hour
Detail Hanagement and CDM Columns Surchards	\$ 10/hour
Project Management and CPM Software Surcharge	\$ 10/hour
Reproduction	\$ 0.24/page
Telephone	\$ 0.40/minute
Facetimile Copies	\$ 1.30/page
Report Surcharge	\$ 30/copy

[†] Discounts available for project-specific support services.