

AGREEMENT TO FURNISH CONSULTANT SERVICES

FOR

FIVE-YEAR PERIODIC SITE REVIEW REPORT
CONTRACT NO. 65-7202-4330-1

This AGREEMENT is made and entered into as of this 6th day
of September, 1988.

by and between

City of Redlands Community
Services Department, herein-
after referred to as "CITY"

and

IT Corporation, hereinafter
referred to as "CONSULTANT".

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

ARTICLE 1 - ENGAGEMENT OF THE CONSULTANT

- 1.1 The CITY hereby engages the CONSULTANT and the CONSUL-
TANT hereby accepts the engagement to perform Consulting
services described as Five-Year Periodic Site Review
Report for the City of Redlands Landfill, known as:
California Street Landfill, hereinafter called the
Project.
- 1.2 All work under this AGREEMENT shall be done in a pro-
fessional manner, and CONSULTANT represents that he is
skilled in the professional expertise necessary to
provide high quality services under this AGREEMENT.
- 1.3 The CONSULTANT shall be responsible, to the level of
competency presently maintained by other practicing
professional consultants performing the same type of
work for the professional and technical soundness,
accuracy and adequacy of all studies, designs, drawings,
specifications, and other work and materials furnished
under this AGREEMENT.

ARTICLE 2 - SERVICES OF THE CONSULTANT

- 2.1 The CONSULTANT will perform the services in connection
with the Project as defined in Attachment A, Scope of
Work.

- 2.2 No additional services may be provided by the CONSULTANT unless requested and approved by the CITY.

ARTICLE 3 - RESPONSIBILITIES OF THE CITY

- 3.1 The CITY will place at the disposal of the CONSULTANT all available information pertinent to the Project, including previous reports and any other data relative to the Project that are available.
- 3.2 The CITY will provide access to and make all provisions for the CONSULTANT to enter upon public and private lands as required for the CONSULTANT to perform his work under this AGREEMENT.
- 3.3 The CITY will provide environmental assessments or impact reports required for this project, if available.
- 3.4 The CITY will designate in writing a person to act as the CITY's representative with respect to the work to be performed under this Agreement, such person to have complete authority to transmit instructions, receive information, interpret and define the CITY's policies and decisions with respect to materials, equipment, elements and systems pertinent to the work covered by this AGREEMENT.

ARTICLE 4 - PERIOD OF SERVICE

- 4.1 The CONSULTANT shall proceed with the engineering services set forth in Article 2 in accordance with the schedule defined in Attachment B.
- 4.2 The CONSULTANT 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, CITY will pay the CONSULTANT a monthly sum of the following:
- 5.1.1 Labor hours times the hourly rate in Attachment C, the CONSULTANT'S Fee Schedule.
- 5.1.2 Non-salary expenses in accordance with Attachment C, the CONSULTANT'S Fee Schedule.
- 5.2. Labor hours are defined as the actual documented time chargeable to the project.

- 5.3 Non-Salary expenses include such typical expenses as cost of: outside services, mileage, copies, prints, long distance telephone and delivery charges.
- 5.4 CONSULTANT agrees that the total compensation for the Scope of Work indicated in Attachment A shall not exceed \$23,122 without the CITY'S prior written approval. The breakdown of estimated manhours, labor fee and expenses is contained on Attachment D.
- 5.5 CONSULTANT agrees that at the end of Phase I, the CONSULTANT will notify the CITY 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 CITY.
- 5.6 The CONSULTANT shall bill the CITY within ten days following the close of each month by submitting an invoice indicating the work performed, who performed the work, and the detailed cost of all work including backup material, if requested.

Payments by CITY to CONSULTANT shall be made within 30 days after receipt and approval of CONSULTANT'S hereinabove invoice, by warrant payable to IT CORPORATION.

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 CITY:

CITY OF REDLANDS
Community Services Department
Solid Waste Division
1270 W. Park Avenue
Redlands CA 92373

TO CONSULTANT:

IT CORPORATION
17461 Derian Avenue, Suite 190
Irvine CA 92714

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 CONSULTANT shall maintain worker's compensation insurance and, in addition shall maintain insurance to protect CITY 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 CITY shall be named a primary additional insured on insurance coverage for public liability and property damage. The CONSULTANT shall provide CITY with a certificate evidencing such insurance coverage.
- 6.2 CONSULTANT agrees to maintain professional liability insurance pursuant to this paragraph to protect CITY from negligent acts, errors or omissions of a professional nature; the total aggregate of CONSULTANT'S professional liability insurance coverage shall be a minimum of \$1,000,000.
- 6.3 CONSULTANT agrees to indemnify, hold harmless and defend CITY and any and all of their officers, agents 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 or negligent act or actions, omission or failure to act on the part of the CONSULTANT, 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 CONSULTANT shall not sublet or assign any of the work covered by this AGREEMENT, except with the prior written approval of the CITY and in strict compliance with the terms, provisions, and conditions of the CONTRACT.

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

Leonard Yamamoto, P.E., Project Director
J. Mathur, P.E., Project Manager
R. Len Allen, P.E., Technical Peer Review
Fred Tahse, R.G., Technical Peer Review
M. Parker, Quality Control

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

- 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 CONSULTANT pursuant to this AGREEMENT shall become the property of CITY and shall be delivered to CITY if and when requested upon completion of services. Any reuse of such documents for other projects and any use of incomplete documents will be at the CITY's sole risk.
- 7.5 CONSULTANT is for all purposes an independent contractor. All qualified personnel provided by CONSULTANT pursuant to the provisions of this AGREEMENT are to be employed by CONSULTANT for his account only, and in no event shall CONSULTANT or any personnel retained by him be deemed to have been employed by the CITY or engaged by the CITY for the account of or on behalf of the CITY.
- 7.6 Unless earlier terminated as stipulated below, this agreement shall terminate upon completion and acceptance by the CITY of all work 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 CITY for reasons of default by the CONSULTANT, an adjustment to CONSULTANT'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 CONSULTANT at the time of termination may be adjusted to

the extent of any additional costs to the CITY occasioned by CONSULTANT'S default. If termination for default is effected by the CONSULTANT, the adjustment in compensation shall provide for payment to the CONSULTANT 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 CONSULTANT relating to commitments which had become firm and approved by CITY prior to termination.

- 7.9 Upon receipt of a termination notice, the CONSULTANT shall (1) promptly discontinue all services affected (unless the notice directs otherwise), and (2) deliver or otherwise make available to the CITY, copies of data, design calculations, drawings, specifications, reports, estimates, summaries, and such other information and materials as may have been accumulated by the CONSULTANT in performing this AGREEMENT.
- 7.10 CONSULTANT 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 CITY at the office of the CONSULTANT.
- 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 CITY and CONSULTANT.
- 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

IT CORPORATION

By Charles Desovich
Mayor

By R. Leonard Allen
Acting General Manager
R. Leonard Allen

ATTEST Josie Payer
City Clerk

Date Sept. 7, 1988



CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

8/23/88

PRODUCER

JOHNSON & HIGGINS
2029 CENTURY PARK EAST
LOS ANGELES, CA 90067
TEL: (213) 552-8700

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER	A	NATIONAL UNION FIRE INSURANCE COMPANY
COMPANY LETTER	B	BIRMINGHAM FIRE
COMPANY LETTER	C	
COMPANY LETTER	D	
COMPANY LETTER	E	

INSURED

INTERNATIONAL TECHNOLOGY CORP.;
IT CORPORATION; MCKITTRICK MUD, INC.;
PRINCETON AQUA SCIENCE; IT TRANSPORTATION
CORP.; PETROLEUM WASTE, INC.; MCGILL, INC.;
NEPCO, INC.; ENVIRO MEASURE, INC.; PEI
ASSOC., INC.; DELIAN CORP.; UNDERGROUND
RESOURCES; WESTERN EMERGENCY SERVICES, INC.;
LIBERTY DRILLING, BORING & TESTING, INC.
23456 HAWTHORNE BLVD.; TORRANCE, CA 90505

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GENERAL LIABILITY				1,000,	
A	X				
	X	RMGLA249-6253	4/1/88	4/1/89	1,000,
AUTOMOBILE LIABILITY				1,000,	
	X	RMBA1458780 (O/T)	4/1/88	4/1/89	1,000,
		RMBATX145-8781 (Texas)			
EXCESS LIABILITY					
WORKERS COMPENSATION					
A		RMWC112-6045	4/1/88	4/1/89	1,000,
B		RMWC112-6046			
		RMWC112-6047			
OTHER					

Contract #65-7202-4330-1

City of Redlands
Community Services Dept.
Solid Waste Division
1270 W. Park Avenue
Redlands, California 92373
Attn: Mr. Gerald Davis

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CERTIFICATE OF INSURANCE

FROM

UNIVERSAL PROFESSIONAL INSURANCE COMPANY

INSURED: INTERNATIONAL TECHNOLOGY CORP.;
 IT CORPORATION; MCKITTRICK MUD, INC.;
 PRINCETON AQUA SCIENCE; IT TRANSPORTATION
 CORP; PETROLEUM WASTE, INC.; MCGILL, INC.;
 NEPCCO, INC.; ENVIRO MEASURE, INC.; PEI
 ASSOC., INC.; DELIAN CORP.; UNDERGROUND
 RESOURCES; WESTERN EMERGENCY SERVICES, INC.;
 LIBERTY DRILLING, BORING & TESTING, INC.

TODAY'S DATE: 8/23/88

COVERAGES: 23456 HAWTHORNE BLVD.. TORRANCE CA 90505

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

TYPE OF INSURANCE (CLAIMS MADE POLICY)	POLICY NUMBER	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE	LIABILITY LIMITS COMBINED SINGLE LIMIT
☒ ERRORS AND OMISSIONS (PROFESSIONAL LIABILITY)	PE 10003	4/1/88	4/1/89	\$1,000,000.
☐ ASBESTOS LIABILITY				
☐ ENVIRONMENTAL IMPAIRMENT LIABILITY				
☐ OTHER				
☐ OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Re: Contract #65-7202-4330-1

CERTIFICATE HOLDER

Attn: Mr. Gerald Davis
 City of Redlands
 Community Services Dept.
 Solid Waste Division
 1270 W. Park Avenue
 Redlands, California 92373

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE OF INSURER:

X

Arthur Koritzinsky

ATTACHMENT A
IT CORPORATION

SCOPE OF WORK

A. DESCRIPTION OF SERVICES

1. The CONSULTANT shall perform general engineering services in accordance with the following and the proposal submitted by IT Corporation dated July 11, 1988, incorporated herein as Exhibit A.

B. GENERAL ENGINEERING SERVICES

1. Preparation of a Five Year Periodic Site Review Report for the California Street site in accordance with Title 14, Chapter 3, Article 7, Section 17751 of the California Administrative Code and the general outline attached. It shall be the responsibility of the CONSULTANT to produce six (6) copies for the CITY that will be accepted by the California Waste Management Board and the San Bernardino County Environmental Health Services Department (the local enforcement agency) as meeting their requirements. The reports shall be developed in general accordance with the outline herein as Exhibit B and in their contents so that they will be acceptable not only as a Five Year Periodic Site Review Report but also usable as a Report of Disposal Site Information in accordance with Title 14, Chapter 3, Article 7, Section 17616 of the California Administrative Code.
2. The work is to be performed in two phases.
Phase I shall consist of:
 - Finalize needed report outline, contents, and format through consultation with CITY and regulatory agencies.
 - Assess existing information for the subject site.
 - Determine new data needs.
 - Prepare Phase II Work Plan, schedule and budget proposal for the California Street Site for CITY approval and possible contract amendment prior to starting Phase II.

Phase II shall consist of:

- Assemble and organize existing data for site.
- Gather needed new data.
- Conduct analysis.
- Prepare final report for site as scheduled.

3. Deliverables

1. The completed report submitted to the CITY shall be in six (6) copies, four (4) to the City of Redlands, one (1) to LEA, one (1) to CWMB. Upon final approval and acceptance by the CITY, the CONSULTANT shall turn over to the CITY all original logs, reports, maps and drawings prepared for the accomplishment of the work contained contingent upon acceptance by the appropriate regulatory agency.

4. TIME FOR PERFORMANCE

CONSULTANT shall complete Phase I within thirty calendar days after notice - to - proceed and Phase II within thirty calendar days after Phase I.

The CONSULTANT shall meet at least once with the CITY'S Project Manager to review the Phase I work, adherence to work schedule, coordination of work, scheduling of reviews and to resolve any problems that may develop. Within three (3) days of such meeting, the CONSULTANT shall prepare a memorandum summarizing the results of the meeting and shall submit it to the CITY for concurrence.

The CONSULTANT shall perform in accordance with the overall Project Schedule set forth in Attachment B.

5. NOTE:

The CONSULTANT shall use, to the maximum feasible extent, information that exists about the landfill before proposing the generation of new data in Phase II. Existing information will include air and water assessment testing and a Sanitary Landfill Expansion-Economic Feasibility Study.

ATTACHMENT B
IT CORPORATION

PROJECT SCHEDULE

<u>ITEM</u>	<u>COMPLETION DATE</u>
1. City Council approval of CONSULTANT Contract	9-6-88
2. City issues notice - to - proceed	9-7-88
3. CONSULTANTS complete Phase I	10-7-88
4. CONSULTANTS submit first draft (2 copies) of report to CITY for review	11-1-88
5. CONSULTANTS submit final report to CITY (4 copies), EHS (1 Copy) and CWMB (1 copy)	11-14-88



IT CORPORATION

Exhibit 1
Effective: January 1, 1987

CATEGORY RATE SCHEDULE ENGINEERING SERVICES

Category	Hourly Rate
Clerk	
Typist	\$ 27.00
Technical Support I	\$ 32.00
Technical Support II	\$ 37.00
Senior Technician	
Senior Draftsperson	\$ 39.00
Engineer	
Scientist	\$ 42.00
Assistant Project Engineer I	
Assistant Project Scientist I	\$ 48.00
Assistant Project Engineer II	
Assistant Project Scientist II	\$ 57.00
Project Scientist I	
Project Engineer I	\$ 64.00
Project Engineer II	
Project Scientist II	\$ 70.00
Senior Project Engineer	
Senior Project Scientist	\$ 77.00
Project Manager	
Staff Consultant	
Health & Safety Regional Manager	\$ 90.00
Project Director	
Program Director	
Senior Staff Consultant	\$115.00
Legal	
Principals	\$150.00

(See Terms and Conditions on reverse side.)

TERMS AND CONDITIONS

1.0 Personnel Charges

- 1.1 Project technical and management personnel will be invoiced according to the Category Rate Schedule.
- 1.2 Personnel time charges are also invoiced for direct project support activities such as report typing and reproduction. Indirect support staff time such as office administration is **not** charged.
- 1.3 All time is rounded to the nearest one-half hour.
- 1.4 The Category Rate Schedule is effective for the calendar year ~~1987~~ 1988
- 1.5 All labor is subject to a (4) hour minimum charge.

2.0 Premium Personnel Charges

- 2.1 The Category Rate Schedule applies for **all** hours worked by Exempt (salaried) Personnel.
- 2.2 The Category Rate Schedule applies to the first eight (8) hours worked by Non-Exempt (hourly) Personnel between 0700 hours and 1700 hours, Monday through Friday.
 - 2.2.1 **Overtime** is charged at 1.3 times the applicable Rate for all hours worked by **Non-Exempt Personnel**:
 - Exceeding eight (8) hours per day; or
 - Exceeding forty (40) hours per week; or
 - Between 1700 hours one day and 0700 hours the next day; or
 - on Saturday.

~~2.2.2 - Premium Time is charged at 1.7 times the applicable Rate for all hours worked by Non-Exempt Personnel on Sundays and holidays (9 holidays per year defined annually by IT policy).~~

~~2.3 - Emergency Response Premium - All emergency response is charged at 1.3 times the applicable Rate (with or without Level A personal protection equipment).~~

- 2.4 Expert testimony, including preparation and standby, is charged at 2.0 times the applicable Rate.

All Premium personnel charges will be rounded to the nearest dollar.

3.0 Travel and Living Expenses

~~3.1 - Living expenses are charged as follows:~~

- ~~3.1.1 - Non-Exempt Personnel - Per diem charge - of \$30 per day and lodging at cost plus 20%.~~
- ~~3.1.2 - Exempt Personnel - Actual costs plus 20%.~~

- 3.2 Travel expenses are charged at cost plus 20%. Not to exceed costs described in Attachment D.

~~3.3 - Personnel time charges for travel within the continental United States are invoiced at the applicable Rate to a maximum of eight (8) hours each way.~~

~~3.4 - Travel expenses for long term on-site project personnel who are permitted to return home every three (3) weeks, shall be invoiced at cost plus 20%.~~

4.0 Other Charges

- 4.1 Microcomputer and text processing equipment is invoiced at \$15.00 per connect hour, rounded to the nearest half-hour.
- 4.2 Charges for equipment will be invoiced in accordance with IT's published Equipment Rate Schedule.
- 4.3 A miscellaneous charge equal to 5% of personnel time charges will be invoiced to cover telephone, copying, postage, etc.
- 4.4 Special services such as computer services, reprographics, drilling, and analytical laboratory are available and pricing will be provided upon request.
- 4.5 Third party equipment rentals and temporary personnel located at IT's facilities or under IT's control will be invoiced according to IT's Equipment Rate and Category Rate Schedules.

5.0 Reimbursable Expenses

All project related purchases will be invoiced at cost plus 20% including materials, subcontractor costs, fees, duties, deposits, broker's fees, equipment purchased and other costs incurred specifically for the project.

6.0 Invoicing and Terms of Payment

- ~~6.1 - An advance payment equal to one month's anticipated billings will be due prior to start of the project. This advance payment will be credited to the final invoice for the project.~~
- 6.2 Payment terms for professional services are **NET 30 DAYS**.
- 6.3 A service charge equal to 1.5% per month or the maximum lawful rate, whichever is lesser, will be charged on all account balances past due.
- 6.4 Invoices may be submitted as frequently as ~~bi-weekly~~, however on any project where total billings are expected to exceed \$1,000,000 or monthly billings are expected to exceed \$250,000, progress billing may be made as frequently as weekly, described in Article 5 of the Agreement.

TASK I - KICKOFF MEETING/SITE RECONNAISSANCE

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Director	\$115	8	\$ 920
Project Manager	90	8	<u>720</u>
		Subtotal	\$1,640
		Misc. (5%)	82
		Travel related	<u>50</u>
		TOTAL	\$1,772

TASK II - PREPARATION OF REPORT OUTLINE, CONTENTS, AND
FORMAT OF THE PERIODIC SITE REVIEW REPORT

NO CHARGE

TASK III - DATA COMPILATION AND IDENTIFICATION OF DATA GAPS

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Director	\$115	1	\$115
Technical Manager	90	4	360
Project Engineer/ Geologist	64	12	768
Clerical Support	27	10	<u>270</u>
		Subtotal	\$1,513
		Misc. (5%)	77
		Travel	<u>200</u>
		TOTAL	\$1,790

TASK IV - PREPARATION OF PHASE II WORK PLAN, SCHEDULE, AND BUDGET

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Director	\$115	2	230
Project Manager	90	4	360
Technical Review Team	115	2	230
QA Engineer	64	4	256
Project Engineer/Geologist	64	20	1,280
Technical Support Level II	39	8	296
Technical Support Level I	32	8	256
		Subtotal	\$2,908
		Misc. (5%)	145
		Travel	100
		TOTAL	\$3,153

TASK V - GATHER NEW DATA, AS REQUIRED

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Manager	\$90	2	\$ 180
Project Engineer/ Geologist	64	16	1,024
		Subtotal	\$1,204
		Misc. (5%)	60
		Travel	200
		TOTAL	\$1,464

TASK VI - DATA INTEGRATION AND INTERPRETATION

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Manager	\$90	2	\$180
Project Engineer	64	16	1,024
Technical Support Level II	37	24	888
		Subtotal	\$2,092
		Misc. (5%)	105
		TOTAL	\$2,197

TASK VII - ANALYSES

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Manager	\$90	3	\$270
Project Engineer	64	20	1,280
QA Engineer	64	4	256
Technical Support Level I	32	10	320
		Subtotal	\$2,126
		Misc. (5%)	106
		TOTAL	\$2,232

TASK VIII - REPORT PREPARATION

<u>PERSONNEL</u>	<u>UNIT PRICE</u>	<u>ESTIMATED HOURS</u>	<u>ESTIMATED COST</u>
Project Manager	\$115	8	\$ 920
Project Manager/ Technical Manager	90	18	1,620
Technical Review Team	115	6	690
QA Engineer	64	10	640
Project Engineer/ Geologist	64	60	3,840
Technical Support Level II	37	32	1,184
Technical Support Level I	32	24	768
Clerical Support	27	8	256
		Subtotal	\$9,918
		Misc. (5%)	496
		Travel	100
		TOTAL	\$10,514

SUMMARY OF COSTS

<u>TASK NO.</u>	<u>ESTIMATED COST</u>
PHASE I	
I - Kickoff Meeting/Site Reconnaissance	\$1,772
II - Preparation of Report Outline, Contents, and Format	0
III - Data Compilation and Identification of Data Gaps	1,790
IV - Preparation of Phase II Workplan, Schedule, and Budget	<u>3,153</u>
TOTAL ESTIMATED COST FOR PHASE I	\$6,715
PHASE II	
V - Gather New Data, as Required	\$ 1,464
VI - Data Integration and Interpretation	2,197
VII - Analyses	2,232
VIII - Report Preparation	<u>10,514</u>
TOTAL ESTIMATED COST FOR PHASE II	\$16,407

4.0 PROJECT APPROACH AND WORK SCHEDULE

4.1 UNDERSTANDING OF THE PROJECT

4.1.1 Regulatory Background

Operating permits for disposal sites, such as the City's California Street Landfill, that were operating prior to the enactment of the Z'berg-Kapiloff Solid Waste Control Act of 1976, were processed during 1977 and 1978 under the "Grandfather" provisions of the California Code of Regulations (CCR), formerly known as the California Administrative Code. Engineering information addressing geology, hydrology, drainage, leachate control, site design and operation, and waste cell construction was frequently not provided by the applicant as part of the permit application because a professionally designed site was not a prerequisite for a Grandfather permit. Title 14, Chapter 3, Article 7, Section 17751 of the CCR provides for periodic site reviews to protect State land, water, and air resources. 14 CCR § 17751 states that:

From the date of issuance of the permit, at least once each five years, or more frequently as determined by the enforcement agency, the owner or operator shall cause a registered civil engineer to review the site design, implementation and operation plan to determine if any revisions are necessary and to estimate the remaining site life. The conclusions and recommendations of his review shall be presented in a report and filed with the enforcement agency and the Board.

In accordance with 14 CCR § 17751, the Periodic Site Review Report should include a site development plan for the continuance of the landfill program. The plan should include all the data and engineering information required for a new site. A considerable portion of the information required for the Periodic Site Review Report is also required for the Report of Disposal Site Information (RDSI). The purpose of the RDSI is to provide the local enforcement agency, which for this project is the San Bernardino County Environmental Health Services Department, with information to assist them in reviewing existing permits as required by 14 CCR § 18213 and in determining conditions to be included in the solid waste facilities permit.

4.1.2 Contents of the Periodic Site Review Report

IT understands that the engineering services to be provided on this project will culminate in the preparation of a Periodic Site Review Report for the City's California Street Landfill. The Periodic Site Review Report will be prepared such that it not only meets the requirements of 14 CCR § 17751, but will also be acceptable as an RDSI in accordance with 14 CCR § 17616.

The California Waste Management Board has prepared technical guidance documents entitled "Engineering Report Requirements - Information Necessary for Review of Facility Permits" and "Guidelines for Preparation of Report of Disposal Site Information," which provide excellent guidance on preparing RDSIs and Periodic Site Review Reports. The Periodic Site Review Report essentially focuses on a review of three major areas:

- Landfill Operation and Environmental Engineering Information
 - Description of disposal site information
 - Description of wastes received and handling procedures
 - Life expectancy of the site
 - Management organization and personnel information
 - Conditions criteria and requirements of operation
 - Climate and vegetation
 - Wildlife
- Geologic Information
 - Regional geology
 - Site geology
 - Seismicity
 - Hydrogeology
 - Ground-water monitoring

- Civil/Geotechnical Engineering Information
 - Location of site
 - Site plan map of area
 - Topographic map of site
 - Drainage control
 - Leachate control
 - Gas venting
 - Slope stability
 - Engineering properties of soil and bedrock.

4.2 TECHNICAL APPROACH

The following sections describe the technical approach that IT will use to perform the engineering review and prepare the Periodic Site Review Report for the California Street Landfill. The work will be conducted in two phases: Phase I includes tasks 1 through 4 of the RFP, and Phase II includes tasks 5 through 8 of the RFP. Figures 4-1 and 4-2 illustrate IT's technical approach for the project. The following is an outline of the tasks that will be performed in each phase of the project:

- Phase I
 - Finalize report outline, contents, and format through consultation with regulatory agencies
 - Assess existing information
 - Determine new data needs
 - Prepare Phase II work plan, schedule, and budget proposal for the site for City approval and possible contract amendment prior to starting Phase II
- Phase II
 - Assemble and organize existing data for the site
 - Gather new data, as required
 - Conduct analyses
 - Prepare final report.

FIGURE 4-1

TECHNICAL APPROACH – PHASE I

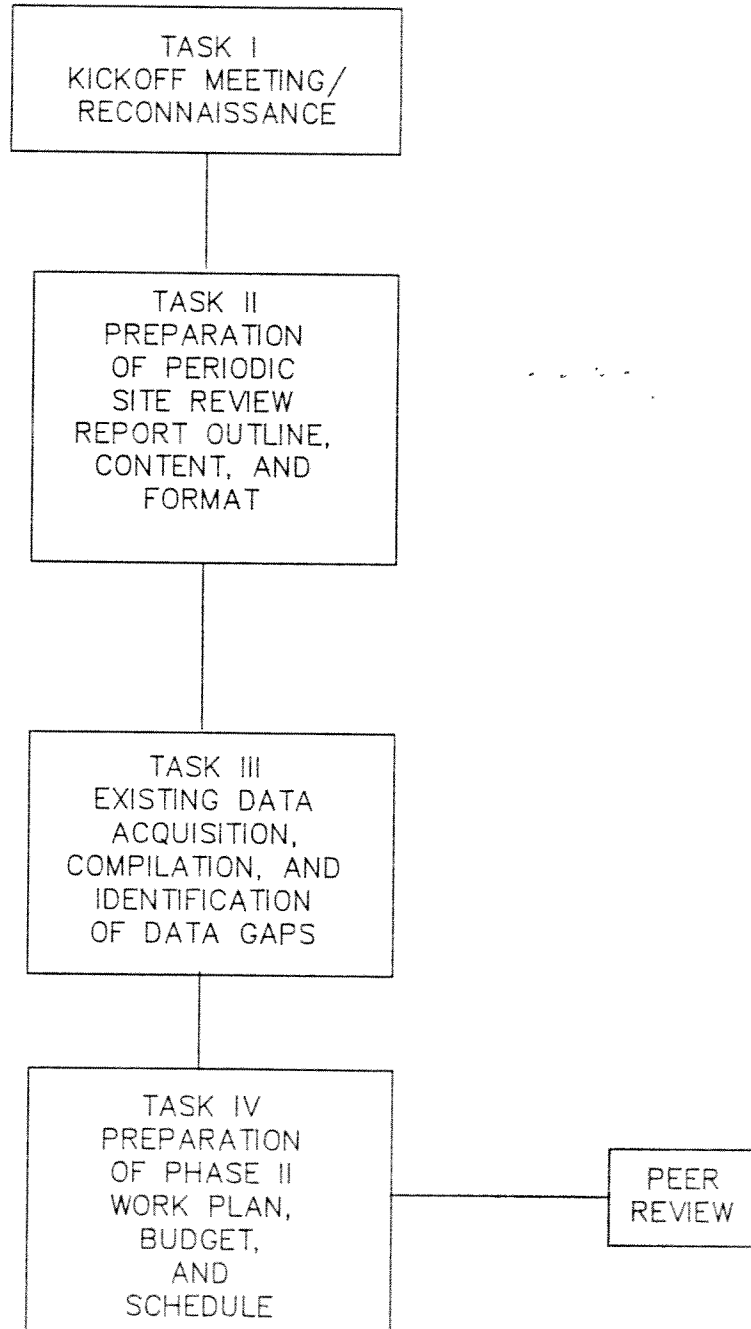
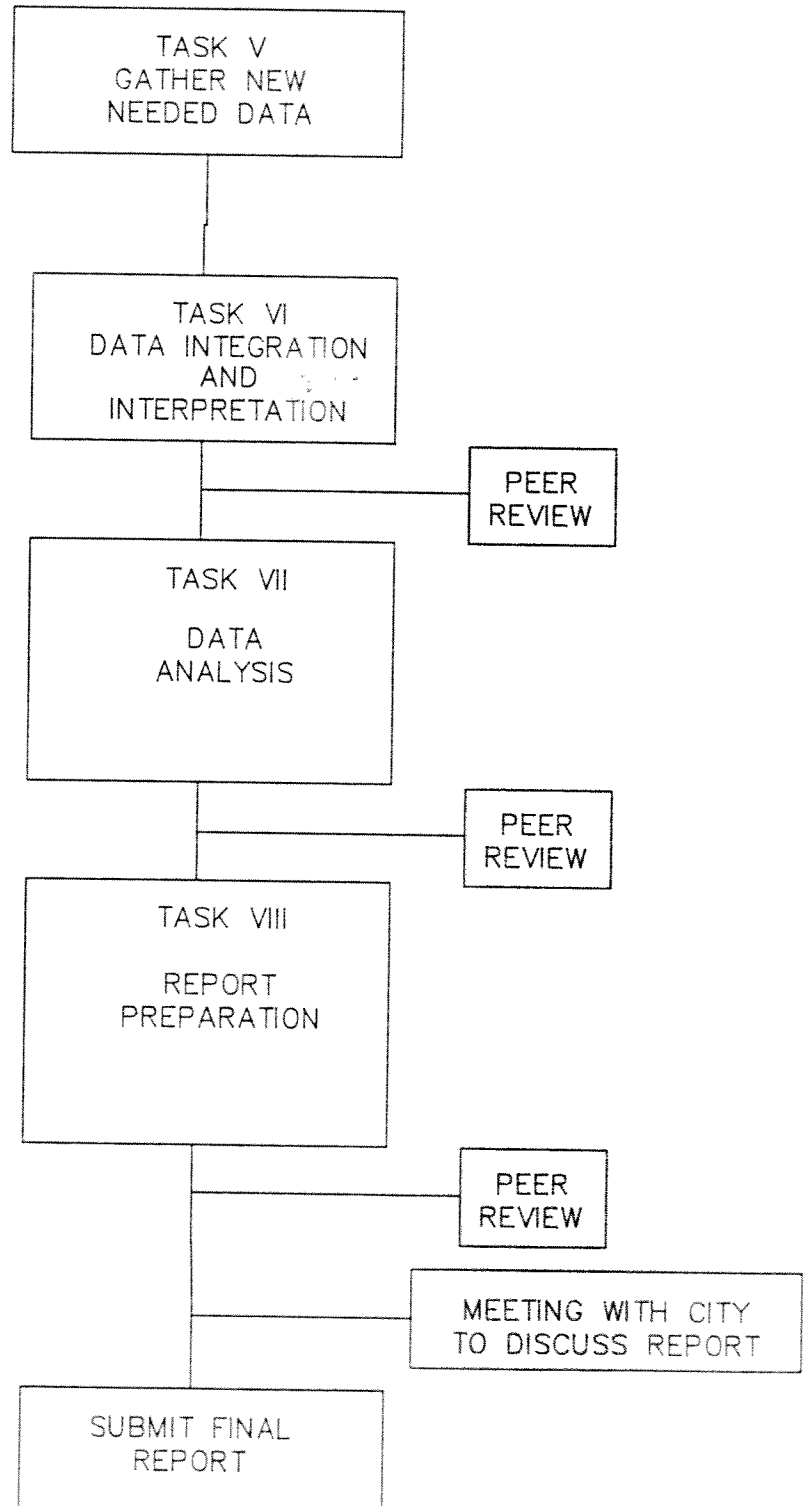


FIGURE 4-2

TECHNICAL APPROACH — PHASE II



4.2.1 Phase I Tasks

Phase I of the project will be performed in four tasks, as described in the following paragraphs.

Task I - Kickoff Meeting/Site Reconnaissance

Upon award of the contract, the IT project team leaders will meet with the City's solid waste engineers. The main purpose of this meeting will be to open channels of communication and to provide the project team with a clear understanding of the City's concerns. Site reconnaissance will also be conducted at this time to provide key project members with a first-hand perspective of the project.

Task II - Preparation of Report Outline, Contents, and Format of the Periodic Site Review Report

The purpose of this task is to prepare a generic Periodic Site Review Report outline that meets the objectives of the project and complies with applicable regulations. The outline will be sufficiently detailed to provide guidance to members of the project team and to provide the regulatory agencies with a clear understanding of the scope and contents of the report. The outline will be prepared such that the Periodic Site Review Report will meet the requirements of 14 CCR § 17616 and 17751 and will be based on the outline presented in the RFP and on the California Waste Management Board's technical guidance documents.

The outline will also be reviewed by the project Peer Review Team and by the City engineers. This review is very important because the report outline will be used as a guidance document at later stages of the project.

Task III - Data Compilation and Identification of Data Gaps

The purpose of this task is to obtain pertinent existing data for the site.

IT has prepared a checklist of the data requirements that can be used as a guidance document during the data acquisition period. Based on our past experience, the data checklist will help ensure that the data acquisition phase proceeds in a planned, controlled sequence with considerable economy of effort because overlapping data requirements will be identified prior to the start of data acquisition.

Existing data will be compared with data requirements listed in the checklist to identify any data gaps. Many of the data required for the preparation of the Periodic Site Review Report should be available from the City. Additional design and operations information should be available from the existing RDSIs for the landfill. In addition, a number of published and unpublished environmental, geologic, hydrologic, and geophysical reports are available for the region. Finally, IT maintains an extensive library on studies performed in San Bernardino County.

Upon completion of data collection and compilation task, data gaps will be identified. Data gaps will be addressed in Phase II of the project.

Task IV - Preparation of Phase II Work Plan, Schedule, and Budget Proposal

As a result of work performed under Tasks II and III, the need for additional data required to prepare the Five-Year Periodic Site Review Report will be identified. A work plan will then be developed so that the required data are obtained economically and in an organized sequence. The work plan will include methodology, schedule of implementation, and budgets. Field investigations, laboratory testing, and/or literature searches may be required to fill these data gaps. The work plan, schedule, and budget proposal will be submitted to the City for approval and possible contract amendment prior to the start of Phase II.

Task VIII - Report Preparation

IT will submit to the City of Redlands a final Periodic Site Review Report for the California Street Landfill. Approval of the content, outline, and format of the report will have been obtained from appropriate regulatory agencies during Phase I of the project. The report will meet the requirements of 14 CCR § 17751 and 17616, as well as the California Waste Management Board's technical guidance documents.

Prior to issuance, the report will be peer reviewed by a technical panel of experts. Following peer review, a draft report will be submitted to the City for review and comments. Review comments will be discussed with technical staff of the City and incorporated into the final report.

4.3 PROJECT SCHEDULE

Figure 4-3 illustrates IT's proposed schedule for this project. The project schedule begins with the kickoff meeting and carries through to the completion of the Periodic Site Review Report on November 7, 1989.

FIGURE 4-3
PROJECT SCHEDULE

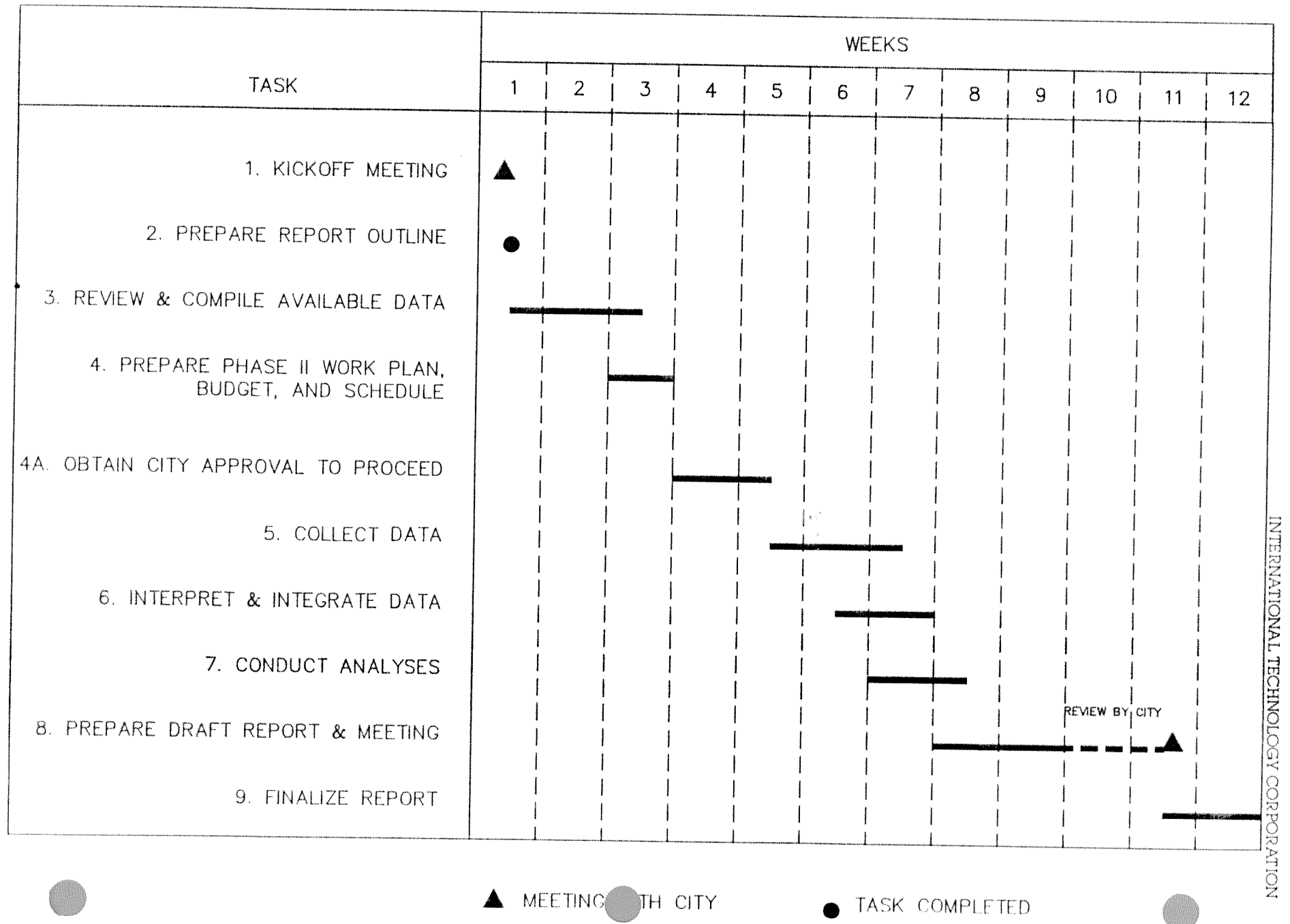


EXHIBIT B

OUTLINE

FIVE YEAR PERIODIC SITE REVIEW REPORT

1.0 INTRODUCTION

1.1 PURPOSE

1.2 GENERAL INFORMATION

1.3 REGIONAL/SITE LOCATION

1.4 HISTORIC OVERVIEW AND DESCRIPTION OF SITE

2.0 SITE DESCRIPTION

2.1 PHYSICAL SETTING

2.1.1 Site Topography

2.1.1.1 Predevelopment

2.1.1.2 Current

2.1.1.3 Final

2.1.2 Ancillary Facilities

2.1.2.1 Buildings

2.1.2.2 Utilities

2.1.2.3 Sanitary Facilities

2.1.2.4 Access Roads

2.1.3 Control and Monitoring Systems

2.1.3.1 Drainage Control

2.1.3.2 Leachate Generation and Control

2.1.3.3 Ground-Water Monitoring

2.1.3.4 Surface and Ground Water

2.1.3.5 Gas Venting/Collecting

2.2 GEOLOGY AND ENGINEERING

2.2.1 Regional Geology

2.2.2 Site Geology

2.2.2.1 Geologic Structure

- 2.2.3 Hydrogeology
 - 2.2.3.1 Ground-Water Hydrology
 - 2.2.3.2 Surface-Water Hydrology
- 2.2.4 Seismicity
 - 2.2.4.1 Seismic Setting of the Site
 - 2.2.4.2 Historic Seismicity
 - 2.2.4.3 Seismic Exposure
 - 2.2.4.4 Liquefaction Potential
 - 2.2.4.5 Rapid Geologic Changes
- 2.2.5 Slope Stability
- 2.2.6 Settlement
- 2.2.7 Existing Surface Drainages
- 2.3 ENVIRONMENTAL SETTING
 - 2.3.1 Climatology
 - 2.3.1.1 Weather Pattern
 - 2.3.1.2 Precipitation
 - 2.3.1.3 Evaporation and Transpiration
 - 2.3.1.4 Wind Pattern
 - 2.3.2 Wildlife and Vegetation
- 3.0 SITE DEVELOPMENT AND IMPLEMENTATION PLAN
 - 3.1 SITE EXCAVATION AND GRADING PLAN
 - 3.2 IMPLEMENTATION SCHEDULE - PHASE PLANS
 - 3.3 PROPOSED SITE MODIFICATIONS
 - 3.4 COMPATIBILITY WITH CoSWMP AND CITY GENERAL PLAN

4.0 DISPOSAL SITE OPERATION

4.1 GENERAL

- 4.1.1 Site Classification
- 4.1.2 Type of Operation
- 4.1.3 Hours of Operation
- 4.1.4 Frequency, Depth, and Source of Cover Material
for Landfill
- 4.1.5 Traffic Handling
- 4.1.6 Degree of Completion

4.2 WASTE HANDLING AND SEPARATION

4.3 MITIGATION FOR ADVERSE CLIMATIC CONDITIONS

4.4 NUISANCE CONTROL

- 4.4.1 Noise
- 4.4.2 Odor
- 4.4.3 Litter
- 4.4.4 Dust
- 4.4.5 Insect and Rodent Control

4.5 RESOURCE RECOVERY

4.6 COMPLIANCE WITH STATE AND LOCAL FIRE PROTECTION AGENCY REQUIREMENTS

4.7 LIFE EXPECTANCY

4.8 FINAL SITE USE

4.9 MANAGEMENT ORGANIZATION

- 4.9.1 Training
- 4.9.2 Notification in Case of Emergency

5.0 WASTES RECEIVED

- 5.1 TYPES OF WASTES RECEIVED
- 5.2 QUANTITIES OF DIFFERENT WASTE TYPES
- 5.3 TYPES AND QUANTITIES OF LIQUID WASTES

- 5.4 PROCEDURES FOR HANDLING SPECIAL WASTES
- 5.5 HAZARDOUS WASTES RECEIVED
- 6.0 CONDITIONS, CRITERIA, AND REQUIREMENTS OF OPERATIONS
 - 6.1 LAND USE APPROVAL
 - 6.2 ZONING OF SITE AND ADJACENT LANDS
 - 6.3 PERMIT REQUIREMENTS
 - 6.3.1 California Regional Water Quality Control Board
 - 6.3.2 Department of Environmental Health Services
 - 6.3.3 U.S. Bureau of Land Management
 - 6.4 SITE INSPECTION AND MAINTENANCE REQUIREMENTS
 - 6.5 OTHER PERMITS AND REQUIREMENTS
- 7.0 CONCLUSIONS AND RECOMMENDATIONS
- REFERENCES
- TABLES
- FIGURES