

ALCO HAZMAT 94 NOV 30 AH 8: 14

Groundwater Technology, Inc.

4057 Port Chicago Highway, Concord, CA 94520 USA Tel: (510) 671-2387 Fax: (510) 685-9148

November 21, 1994

Ms. Juliet Shin Alameda County Health Care Services Agency Division of Hazardous Materials 80 Swan Way, Room 200 Oakland, CA 94621

Subject: Monitoring Well Destruction

Southland Site No. 19035 100 Lewelling Boulevard San Lorenzo, California GTI Project 020200013

Dear Ms. Shin:

On the behalf of the Southland Corporation (Southland), Groundwater Technology, Inc. has prepared this letter to document the details of the destruction of four groundwater monitoring wells at the referenced site (attachment 1, figure 1). This letter has been prepared as required by the Alameda County Health Care Services Agency (ACHCSA).

The abandonment activities, outlined in Groundwater Technology's letter, dated September 14, 1994, to the ACHCSA were conducted in accordance with ACHCSA, Zone 7 Alameda County Flood Control and Water Conservation District (Zone 7), and City of San Lorenzo Creek (City) regulations. The Zone 7 monitoring well abandonment permits are included in attachment 2. The tasks associated with the monitoring well abandonments are discussed below.

Well abandonment activities were conducted on October 14, 1994. Four existing 4-inch-diameter monitoring wells (wells MW-1, MW-2, MW-3, and MW-4) were abandoned (figure 2). The 4-inch-diameter polyvinyl chloride (PVC) casing of each monitoring well was over drilled using a truck-mounted drill rig equipped with 12-inch-diameter hollow stem augers. Each monitoring well was over drilled to a total depth of approximately 30 feet. Each boring was sealed to surface grade using the tremie-method with neat cement grout. The abandonments of the four monitoring wells were completed on October 14, 1994.

Soil cuttings generated during abandonment activities were placed in labeled 55-gallon drums at the request of the property owner and temporarily stored on site until waste characterization was complete. The soil cuttings were analyzed at a California-certified laboratory for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, total xylenes (BTEX), and total lead. The analytical results of the composited soil samples indicated no detectable concentrations

0013R014.020

of TPH-g, BTEX or total lead above method detection limits (attachment 3). The drums of soil cuttings were removed from the site and taken to the BFI landfill in Livermore, California on November 16, 1994, for disposal.

Southland has requested and received site closure for the referenced site. The abandonment of the four groundwater monitoring wells is the last scheduled site activity. If you have any questions or comments, please call the Groundwater Technology Concord office at (510) 671-2387.

Sincerely,

Groundwater Technology, Inc.

Submitted by:

Michael A. Chamberlain Project Geologist Groundwater Technology, Inc.

Approved by:

Brain H. Garber Project Manager

c: Mr. Bob Vasquez, The Southland Corporation

#### **Attachments**

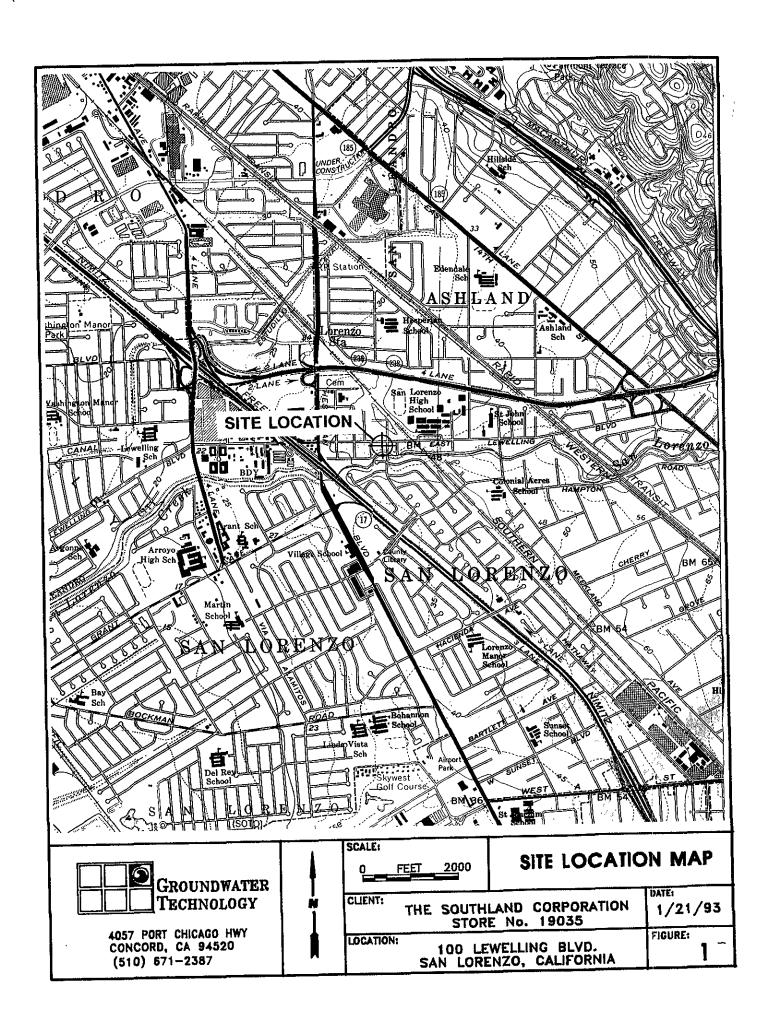
- 1. Figures
- 2. Well Destruction Permit
- 3. Laboratory Analytical Results of Soil Samples

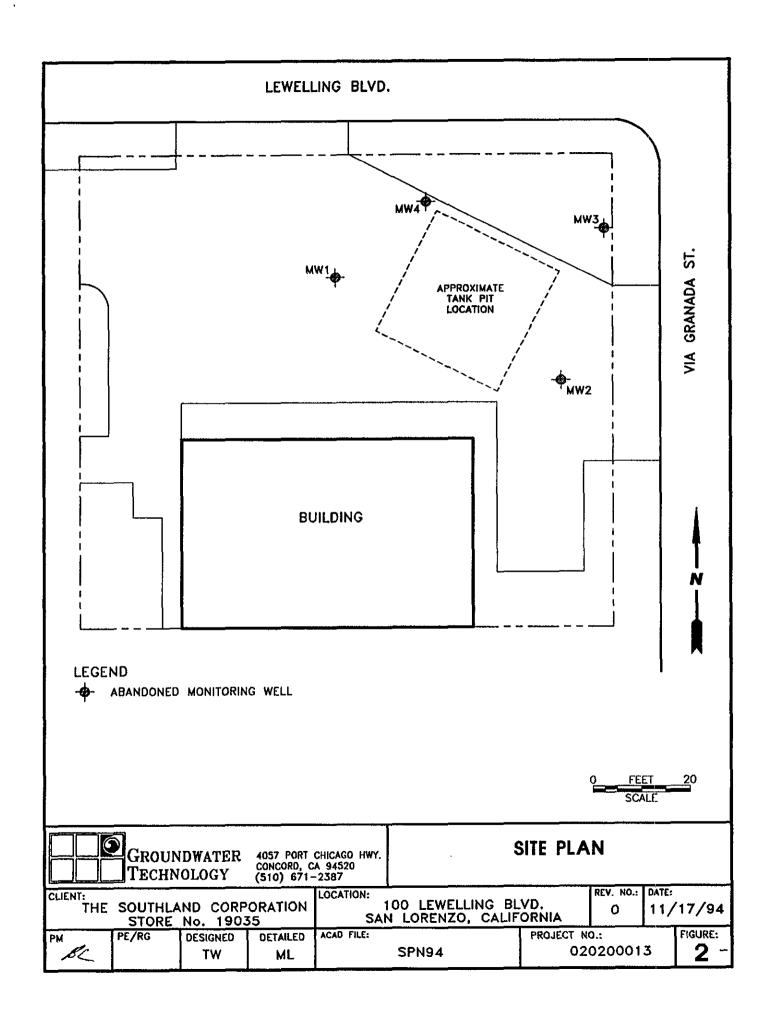
## Attachment 1

**Figures** 

0013R014.020







## Attachment 2

Well Destruction Permit
Zone 7 Alameda County Flood Control And Water Conservation District

GROUNDWATER
TECHNOLOGY, INC.



**APPLICANT'S** 

# **ZONE 7 WATER AGENCY**

16171

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

FAX NO. 5104623914

VOICE (510) 484-2600 FAX (510) 462-3914

# DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF PROJECT 100 Lwelling Balevard	PERMIT NUMBER 94470 LOCATION NUMBER 3S/2W 7G80 to 7G83
CLIENT  Name Southkird Compountion  Address 3146 Gold Comp Lond Voice 916.852-6880  City Lanche Consulation Zip 95670  APPLICANT  Name Groundwaten Technology	PERMIT CONDITIONS  Circled Permit Requirements Apply  A. GENERAL  1. A permit application should be submitted so as to arrive at the
Address for B-t Chicago H, Voice G71-2387  City Co-co-(CA) Zip G4520  TYPE OF PROJECT  Well Construction General Cathodic Protection General Water Supply Contamination Monitoring Well Destruction  PROPOSED WATER SUPPLY WELL USE  Domestic Industrial Other  Municipal Irrigation  DRILLING METHOD: Mud Rotary Air Rotary Auger  Cable Other  DRILLER'S LICENSE NO. C-57 S82696  WELL PROJECTS  Drill Hole Diameter in. Maximum Casing Diameter in. Depth 30 ft. Surface Seat Depth ft. Number 4  GEOTECHNICAL PROJECTS	Zone 7 office five days prior to proposed starting date.  2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.  3. Permit is void if project not begun within 90 days of approval date.  B. WATER WELLS, INCLUDING PIEZOMETERS  1. Minimum surface seal thickness is two inches of cement grout placed by tremie.  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.  C. GEOTECHNICAL. Backlill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.  D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.  E. WELL DESTRUCTION. See attached.
Number of Borings Hole Diameter  in.  Depth  ft.  ESTIMATED STARTING DATE ESTIMATED COMPLETION DATE  Saple 1, 1994  I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	Approved Myman Hong Date 12 Aug

# Attachment 3

Laboratory Analytical Results For Soil Samples

0013R014.020

GROUNDWATER
TECHNOLOGY, INC.



4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX Client Number: 026203139 Project ID: Sthind, Lewelling

7/11 100 Lewelling San Lorenzo

Work Order Number: C4-10-0426

October 31, 1994

Mike Chamberlin Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 10/24/94, under chain of custody record 33597.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

**Áashmi Shah** 

**Laboratory Director** 

Client Number: 026203139
Project ID: Sthind, Lewelling
7/11
100 Lewelling
San Lorenzo
Work Order Number: C4-10-0426

# **ANALYTICAL RESULTS**

# Lead in Soil

# EPA Method 7421a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample preparation by Method 3050. Results reported on a wet weight basis.

GTEL Sample Number	,	01	102894 MET		
Client identification		COMPOSITE MW-1,2,3,4	METHOD BLANK		
Date Sampled		10/14/94			
Date Prepared		10/28/94	10/28/94		
Date Analyzed		10/31/94	10/31/94		
Analyte	Detection Limit, mg/Kg		Concentration	on, mg/Kg	
Lead, total	5	5	<5 _		
Detection Limit Multiplier		1	1		



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Western Region 4080 Pike Lane, Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720

November 9, 1994

Tim Watchers Groundwater Technology, Inc. 4057 Port Chicago Hwy Concord, CA 94520

RE: GTEL Client ID:

020200013

Login Number:

C4110151

Project ID (number):

020200013

Project ID (name):

Southland, 100 Lewelling Blvd., San Lorenzo, CA

#### Dear Tim Watchers:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 11/08/94 under Chain-of-Custody Number(s) 32640.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Rashmi Shah

Laboratory Director

GTEL Client ID:

Project ID (name):

020200013

ANALYTICAL RESULTS

Login Number:

C4110151

Project ID (number): 020200013

Southland, 100 Lewelling Blvd., San Lorenzo, CA

Volatile Organics Method: **EPA 8020** 

Matrix:

Soil

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Analyte	Limit	Units	Con	<u>centration:Wet</u>	Weight	
Benzene	0,005	mg/kg	< 0.005	•		44
Toluene	0.005	mg/kg	< 0.005	• •		
Ethylbenzene	KN LARISENCE PROM <b>U STUUKS</b> AN	mg/kg ···	< 0.005			
Xylenes (total)	0.015	mg/kg	< 0.015			<del>-</del> -
TPH as GAS	1.0	mg/kg	<b>×1.0</b>	4.6		
BFB (Surrogate)		X	82.0	₩.**		

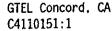
#### Notes:

#### Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

#### EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119%.





GTEL Client ID: 020200013 QUALITY CONTROL RESULTS

Login Number: C4110151 Volatile Organics
Project ID (number): 020200013 Method: EPA 8020
Project ID (name): Southland, 100 Lewelling Blvd., San Lorenzo, CA Matrix: Soil

#### Method Blank Results

QC Batch No: F110894-1 Date Analyzed: 08-NOV-94

#### Notes:



GTEL Client ID: 020200013 QUALITY CONTROL RESULTS

Login Number: C4110151
Project ID (number): 020200013

Project ID (number): 020200013 Method: EPA 8020
Project ID (name): Southland, 100 Lewelling Blvd., San Lorenzo, CA Matrix: Soil

#### Matrix Spike and Matrix Spike Duplicate Results

			Matrix	Matrix	Matrix Spike	Matrix Spike			
	Original	Spike	Spike	Spike	Duplicate	Duplicate		Acceptabi	lity Limits
Analyte	Concentrati	on Amount	Concentration	Recovery, X	Concentration	Recovery, %	RPD. %	RPD. %	Recovery, X
EPA 8020	GTEL Sample ID:C4110	038-03	Spike ID:F	110894-3	Dup. ID:F1	10894-4			
Units: mg/kg	Analysis Date:06-NO	V-94	0	8-NOV-94_		- <u>NOV-94</u>		ID:Batch	
Benzene	€ 0.005	0.050	0 0,0372	74.4	0.0384	76.8	3.1	· 40 · · ·	48.8-129%
Toluene		0.05			0.0356	71.2	0.8	40	52-123%
Ethy Ibenzene	< 0.005	0 ** 0.05	00 0.0326	65.2	0.0325	65.0	0,3	40	55.4-122%
Xylenes (Total	) < 0.015	** 0.150	0.105	70.0	0.106	70.7	0.9	40	55.1-130%

#### Notes:

C4110038-03: Xylenes (Total): For data validation purposes an estimated concentration of 0.00180, which is below the reporting limit, was used to calculate the spike recovery results.



Volatile Organics

<sup>\*\*:</sup> C4110038-03: Toluene: For data validation purposes an estimated concentration of 0.000600, which is below the reporting limit, was used to calculate the spike recovery results.

C4110038-03: Ethylbenzene: For data validation purposes an estimated concentration of 0.000500, which is below the reporting limit. was used to calculate the spike recovery results.

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