

GROUNDWATER TECHNOLOGY®

ALCO
HAZMAT

94 NOV 30 AM 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.

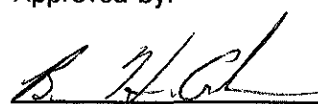
Southland has requested and received site closure for the referenced site. The abandonment of the four groundwater monitoring wells is the last scheduled site activity. If you have any questions or comments, please call the Groundwater Technology Concord office at (510) 671-2387.

Sincerely,
Groundwater Technology, Inc.
Submitted by:



Michael A. Chamberlain
Project Geologist

Groundwater Technology, Inc.
Approved by:



Brian H. Garber
Project Manager

c: Mr. Bob Vasquez, The Southland Corporation

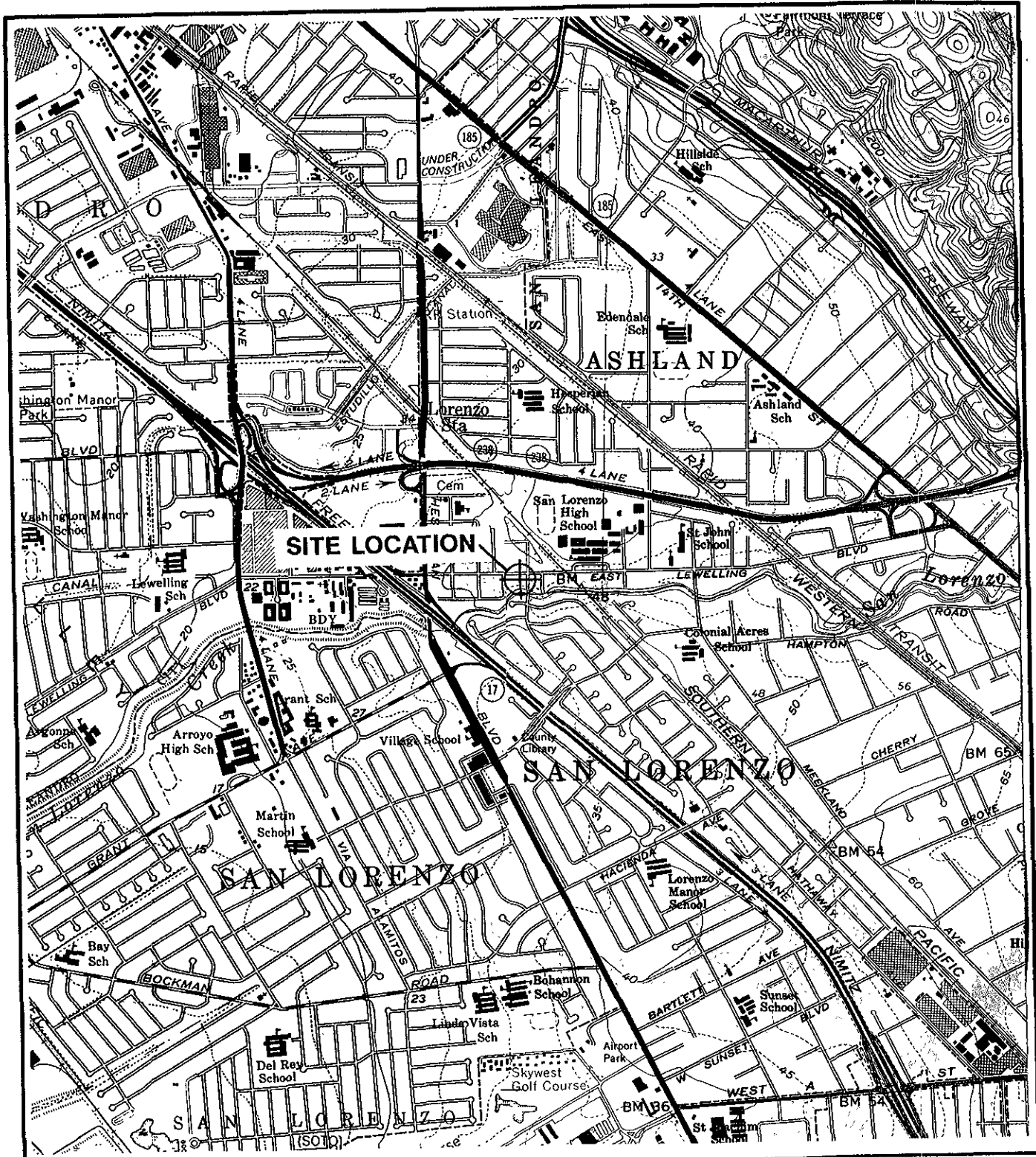
Attachments

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

Attachment 1

Figures

0013R014.020



**GROUNDWATER
TECHNOLOGY**

4057 PORT CHICAGO HWY
CONCORD, CA 94520
(510) 671-2387



SCALE:



SITE LOCATION MAP

CLIENT:

**THE SOUTHLAND CORPORATION
STORE No. 19035**

DATE:

1/21/93

LOCATION:

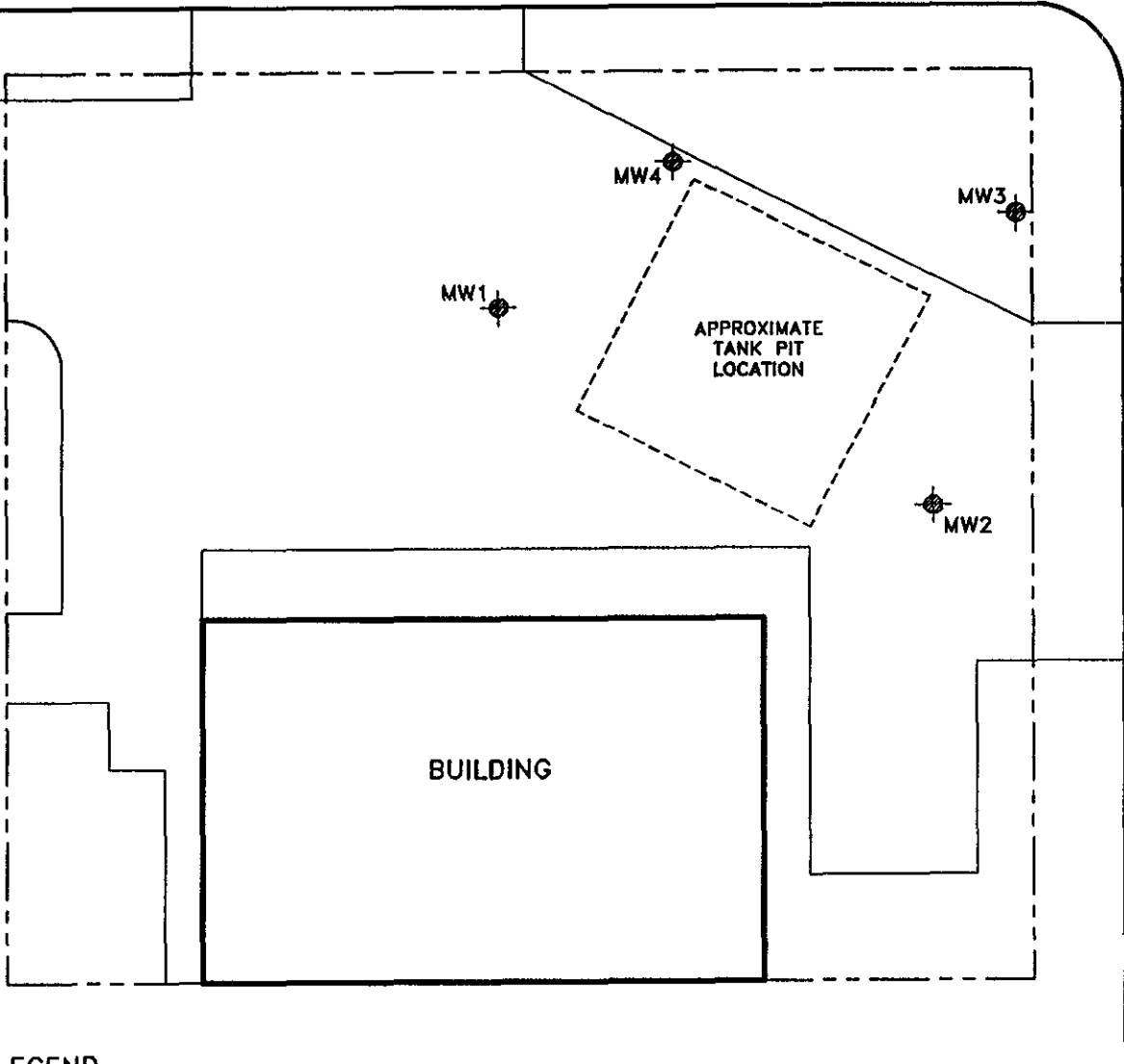
**100 LEWELLING BLVD.
SAN LORENZO, CALIFORNIA**

FIGURE:

1

LEWELLING BLVD.

VIA GRANADA ST.



LEGEND

⊕ ABANDONED MONITORING WELL



GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY.
 CONCORD, CA 94520
 (510) 671-2387

SITE PLAN

CLIENT:
THE SOUTHLAND CORPORATION
 STORE No. 19035

LOCATION:
 100 LEWELLING BLVD.
 SAN LORENZO, CALIFORNIA

REV. NO.: 0 DATE: 11/17/94

PM <i>BL</i>	PE/RG	DESIGNED TW	DETAILED ML
-----------------	-------	----------------	----------------

ACAD FILE:
 SPN94

PROJECT NO.:
 020200013

FIGURE:
 2 -

Attachment 2

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

0013R014.020



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 100 Lwelling Boulevard
San Lorenzo, CA

PERMIT NUMBER 94470
LOCATION NUMBER 3S/2W 7G80 to 7G83

CLIENT

Name Southland Corporation
Address 3146 Gold Camp Road Voice 916-852-6880
City Larche, California Zip 95670

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name Groundwater Technology
Address 4057 Port Chicago Hwy Voice 671-2387
City Concord, CA Zip 94520

A. GENERAL

1. A permit application should be submitted so as to arrive at the 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.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Wall Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

Domestic	<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>		

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C-57 582696

WELL PROJECTS

Drill Hole Diameter	<input type="checkbox"/>	in.	Maximum	
Casing Diameter	<input type="checkbox"/>	in.	Depth	<u>30</u> ft.
Surface Seal Depth	<input type="checkbox"/>	ft.	Number	<u>4</u>

GEOTECHNICAL PROJECTS

Number of Borings	<input type="checkbox"/>	Maximum	
Hole Diameter	<input type="checkbox"/>	Depth	<input type="checkbox"/>

ESTIMATED STARTING DATE August 1, 1994
ESTIMATED COMPLETION DATE Sept 1, 1994

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 12 Aug 94

APPLICANT'S SIGNATURE [Signature] 7-22-94

Attachment 3
Laboratory Analytical Results For Soil Samples

0013R014.020



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.

A handwritten signature in black ink, appearing to read 'Rashmi Shah', is written over a horizontal line.

Rashmi 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

- a. 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, mg/Kg			
Lead, total	5	5	<5		
Detection Limit Multiplier		1	1		



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: 020200013
 Login Number: C4110151
 Project ID (number): 020200013
 Project ID (name): Southland, 100 Lewelling Blvd., San Lorenzo, CA

ANALYTICAL RESULTS

Volatile Organics
 Method: EPA 8020
 Matrix: Soil

GTEL Sample Number	C4110151-01
Client ID	SAMPLE 1,2
Date Sampled	
Date Analyzed	11/09/94
Dilution Factor	1.00

Analyte	Reporting		Concentration:Wet Weight		
	Limit	Units			
Benzene	0.005	mg/kg	< 0.005	--	--
Toluene	0.005	mg/kg	< 0.005	--	--
Ethylbenzene	0.005	mg/kg	< 0.005	--	--
Xylenes (total)	0.015	mg/kg	< 0.015	--	--
TPH as GAS	1.0	mg/kg	< 1.0	--	--
BFB (Surrogate)	--	%	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 Concord, CA
 C4110151:1



GTEL Client ID: 020200013
Login Number: C4110151
Project ID (number): 020200013
Project ID (name): Southland, 100 Lewelling Blvd., San Lorenzo, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Soil

Method Blank Results

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

Analyte	Method: EPA 8020	Concentration: ug/L
Benzene	< 0.0050	
Toluene	< 0.0050	
Ethylbenzene	< 0.0050	
Xylenes (Total)	< 0.015	
TPH as Gasoline	< 1.0	

Notes:

GTEL Client ID: 020200013
 Login Number: C4110151
 Project ID (number): 020200013
 Project ID (name): Southland, 100 Lewelling Blvd., San Lorenzo, CA

QUALITY CONTROL RESULTS

Volatile Organics
 Method: EPA 8020
 Matrix: Soil

Matrix Spike and Matrix Spike Duplicate Results

Analyte	Original Concentration	Spike Amount	Matrix Spike	Matrix Spike	Matrix Spike Duplicate	Matrix Spike Duplicate	RPD, %	Acceptability Limits	
			Concentration	Recovery, %	Concentration	Recovery, %		RPD, %	Recovery, %
EPA 8020	GTEL Sample ID:C4110038-03		Spike ID:F110894-3		Dup. ID:F110894-4				
Units: mg/kg	Analysis Date:06-NOV-94		08-NOV-94		08-NOV-94			Client ID:Batch QC	
Benzene	< 0.0050	0.0500	0.0372	74.4	0.0384	76.8	3.1	40	48.8-129%
Toluene	< 0.0050 **	0.0500	0.0353	70.6	0.0356	71.2	0.8	40	52-123%
Ethylbenzene	< 0.0050 **	0.0500	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: 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.
 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.



