GETTLER-RYAN INC.

TRANSMITTAL

TO: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

DATE: May 19, 2000
PROJECT #: 346448.04

SUBJECT: Well Destruction Report for Chevron Service Station #9-1924.

FROM:
Barbara Sieminski
Project Geologist
Gettler-Ryan Inc.
6747 Sierra Court, Suite G
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	05/17/00	Well Destruction at Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California.

THESE ARE TRANSMITTED as checked below:

[ ] For review and comment
[ ] Approved as submitted
[ ] Resubmit __ copies for approval
[X] As requested
[ ] Approved as noted
[ ] Submit __ copies for distribution
[ ] For approval
[ ] Return for corrections
[ ] Return __ corrected prints
[ ] For your files

cc: Ms. Eva Chu, Alameda County Health Care Services Agency (certified mail)
Ms. Betty Owen, Chevron Products Company
GR File

COMMENTS: Attached is a copy of the final report for your use. Copies of this report have been submitted to the above listed parties. Please call if you have questions.

GETTLER-RYAN INC.

STO 2335
EC

March 29, 2000

Mr. Thomas Peacock
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Destruction of Groundwater Monitoring Wells at Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California

Mr. Peacock:

On behalf of Chevron Products Company (Chevron), Gettler-Ryan Inc. (G-R) has prepared this letter regarding the destruction of groundwater monitoring wells at the above referenced site. Six on-site groundwater monitoring wells (C-1, C-2, C-3, C-6, C-7, and C-15) will be properly destroyed during site reconstruction activities scheduled to begin on April 3, 2000. A well destruction permit will be obtained from the Zone 7 Water Agency prior to well destruction.

Wells C-1, C-2, C-3, C-6, C-7, and C-15 will be destroyed, because these wells are located in the area of the proposed new station building, service islands or utility lines. Only two of these wells (C-2 and C-6) are on the current monitoring and sampling program. Monitoring and sampling of other wells had been discontinued in 1994 (C-3 and C-15), 1996 (C-7) or 1999 (C-1). Well replacement, should it be required by the Alameda County Health Care Services Agency, will be performed upon completion of the site reconstruction. On-site groundwater monitoring wells C-5 and C-13 will remain intact and on the current quarterly monitoring and sampling status. Monitoring and sampling of groundwater in the immediate downgradient vicinity of the subject site will be continued to confirm that the dissolved hydrocarbon plume remains stable or decreasing.

If you have questions about the content of this letter, please call us at (925) 551-8555.

Sincerely,
Gettler-Ryan Inc.

Barbara Sieminski

Barbara Sieminski, R.G.
Project Geologist

cc: Mr. Thomas Bauhs, Chevron
GR File

GETTLER-RYAN INC.

May 17, 2000

Mr. Thomas Bauhs
Chevron Products Company
P. O. Box 6004
San Ramon, California 94583

Subject: **Well Destruction at Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California.**

Mr. Bauhs:

At the request of Chevron Products Company, Gettler-Ryan Inc. (GR) destroyed four groundwater monitoring wells at the above referenced site during site reconstruction activities. On April 11, 2000, GR observed Gregg Drilling and Testing, Inc. (C57 # 485165) destroy wells C-3 and C-15. On April 12, 2000, GR observed Bay Area Exploration Inc. (C57 #522125) destroy wells C-2 and C-6. Wells C-2, C-3, C-6, and C-15 were destroyed because these wells were located in the area of the proposed new station building, service islands, and utility lines. Wells C-1and C-7 were initially proposed for destruction but were not destroyed. A copy of well destruction permit #20046 dated April 3, 2000, issued by the Zone 7 Water Agency is attached. Locations of the former wells are shown on the Site Plan (Figure 1). Well destruction activities are summarized in Table 1. Copies of the State of California Well Completion Reports are attached.

Wells C-3 and C-15 were backfilled to the top of casing with neat cement using a tremie pipe and pump. A pressure of approximately 25 pounds per square inch was applied to the top of each well casing for approximately 5 minutes. Wells C-2 and C-6 were drilled out with 8-inch diameter hollow stem augers to approximately 1 foot past the installed depth to remove the casing, sand pack and annular seal material. Upon completion of drilling, neat cement was placed in the borings from the total depth to the ground surface. The boxes of all wells were removed, and the remaining holes were backfilled with native soil. Drill cuttings generated during well destruction activities were stockpiled on-site, placed on and covered with plastic sheeting. The stockpiled soil was sampled for disposal characterization. Copies of the laboratory analytical report and chain-of-custody record are attached. On May 16, 2000, the soil stockpile was removed from the site and transported to Republic Services landfill in Livermore by Allwaste Transportation and Remediation Inc.

The wells have been properly destroyed as required by California Department of Water Resources' *California Well Standards* (Bulletins 74-81 and 74-90) and Zone 7 Water Agency guidelines. If you have questions, please call us at (925) 551-7555.

Sincerely
Gettler-Ryan Inc.

Barbara Sieminski
Project Geologist, R.G. 6676

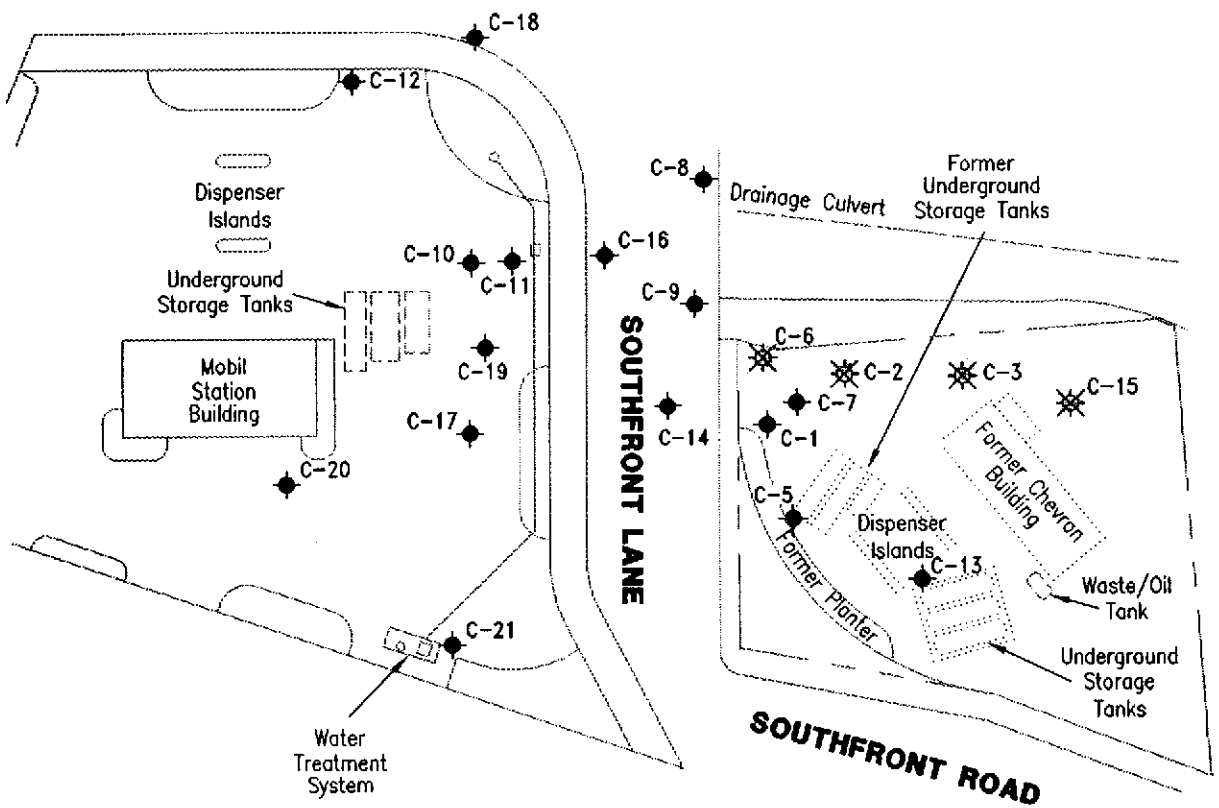
REGISTERED GEOLOGIST ☆ BARBARA SIEMINSKI ☆ No. 6676 STATE OF CALIFORNIA

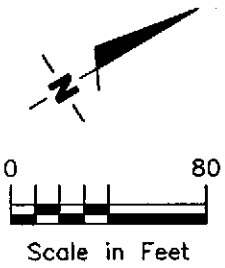
Attachments: Figure 1. Site Plan
Table 1. Summary of Well Destruction Activities
Well Destruction Permit
State of California Well Completion Reports
Laboratory Analytical Report and Chain-of-Custody Form

346448.04

EXPLANATION

- Groundwater monitoring well
- Abandoned well





Source: Figure Modified From Drawing Provided By RRM engineering contracting firm

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

SITE PLAN
Chevron Service Station No. 9-1924
4904 Southfront Road
Livermore, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
346448.04		5/00	

Table 1. Summary of Well Destruction Activities - Chevron Service Station #9-1924, 4904 Southfront Road, Livermore, California.

Well ID	Well Destruction Date	Well Diameter (inches)	Installed Well Depth (feet)	Well Depth on 04//11/00 (feet)	Depth to Water on 04/11/00 (feet)	Destruction Method
C-2	04/12/00	3	25.0	24.8	12.0	Drilled out to 26.5 feet bgs and grouted with neat cement
C-3	04/11/00	3	20.0	18..2	12.8	Pressure grouted with neat cement
C-6	04/12/00	3	22.0	22.0	11.5	Drilled out to 23 feet bgs and grouted with neat cement
C-15	04/11/00	3	22.0	21.4	14.6	Pressure grouted with neat cement

346448.04

C-3 was MW complete to 20' bgs in 12/84

C-15 " " " " 20' bgs

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

OCATION OF PROJECT Chevron SS#9-1924
4904 Southfront Road, Livermore

:LIENT
Name Chevron Products Company
Address P.O. Box 6004 Voice (925) 842-8898
City San Ramon Zip 94583

APPLICANT
Name Geffler-Ryan Inc
Barbara Sieminski Fax (925) 551-7888
Address 6747 Sierra Ct, Ste G Voice (925) 551-7555
City Dublin Zip 94568

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	___	General	___
Water Supply	___	Contamination	___
Monitoring	___	Well Destruction	√

6 wells - pressure grout

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger ___
Cable ___ Other ___

DRILLER'S LICENSE NO. C57 # 522125

WELL PROJECTS - Destruction by pressure grout

Drill Hole Diameter	8 in.	Maximum Depth	25 ft.
Casing Diameter	3 in.		
Surface Seal Depth	6-8 ft.	Number	6

(C-1, C-2, C-3, C-6, C-7, C-15)

GEOTECHNICAL PROJECTS

Number of Borings	___	Maximum Depth	___ ft.
Hole Diameter	___ in.		

ESTIMATED STARTING DATE 04/12/00
ESTIMATED COMPLETION DATE 04/12/00

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

APPLICANT'S SIGNATURE Barbara Sieminski Date 03/30/00

FOR OFFICE USE

PERMIT NUMBER 20046
LOCATION NUMBER 3S/2E 3K10, 3K11, 3K12, 3K14, 3K15 and 3K20

PERMIT CONDITIONS

Circled Permit Requirements Apply

(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.

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. Backfill 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.

Approved Wyman Hong Date 4/3/00
Wyman Hong

91992

April 10, 2000

Zone 7
Water Resources Engineering
Drilling Protection Ordinance

Chevron Products Company
4904 Southfront Road
Livermore
Wells 3S/2E 3K10(C1), 3K11(C2), 3K14(C6) & 3K15(C7)
Permit 20046

Destruction Requirements:

1. Sound the well as deeply as practicable and record for your report.

2. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.

3. Using a tremie pipe, fill the hole to two feet below the lower of finished grade or original ground with neat cement.

4. After the seal has set, backfill the remaining hole with compacted material.

P:\WRE\Wyman\Drillout.wpd

April 10, 2000

Zone 7
Water Resources Engineering
Groundwater Protection Ordinance

Chevron Products Company
4904 Southfront Road
Livermore
Wells 3S/2E 3K12 (C3) & 3K20(C15)
Permit 20046

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.

2. Sound the well as deeply as practicable and record for your report.

3. Pressure grout the casing to two feet below the finished grade or original ground, whichever is the lower elevation.

4. Remove the casing, seal, and gravel pack to two feet below the finished grade or original ground, whichever is the lower elevation (optional).

5. After the seal has set, backfill the remaining hole with compacted material(optional).

These destruction requirements as proposed by Barbara Sieminski of Gettler-Ryan meet or exceed Zone 7 minimum requirements.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

14 April, 2000

Barbara Sieminski
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W004270

Enclosed are the results of analyses for samples received by the laboratory on 12-Apr-00 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp
Laboratory Director

CA ELAP Certificate #1271

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP3(A-D)	W004270-01	Soil	12-Apr-00 11:40	12-Apr-00 16:45

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP3(A-D) (W004270-01) Soil	**Sampled: 12-Apr-00 11:40**	**Received: 12-Apr-00 16:45**							**P-04**
Purgeable Hydrocarbons	**39**	5.0	mg/kg	100	0D13002	13-Apr-00	13-Apr-00	DHS LUFT	
Benzene	ND	0.025	"	"	"	"	"	"	
Toluene	**0.086**	0.025	"	"	"	"	"	"	
Ethylbenzene	**0.21**	0.025	"	"	"	"	"	"	
Xylenes (total)	0.31	0.025	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*63.7 %*	*40-140*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP3(A-D) (W004270-01) Soil Sampled: 12-Apr-00 11:40 Received: 12-Apr-00 16:45									
Lead	ND	1.0	mg/kg	1	0D13010	13-Apr-00	14-Apr-00	EPA 6010A	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D13002 - EPA 5030B [MeOH]										
Blank (0D13002-BLK1)				Prepared & Analyzed: 13-Apr-00						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.612*		"	*0.600*		*102*	*40-140*			
LCS (0D13002-BS1)				Prepared & Analyzed: 13-Apr-00						
Benzene	0.680	0.0050	mg/kg	0.800		85.0	50-150			
Toluene	0.750	0.0050	"	0.800		93.7	50-150			
Ethylbenzene	0.830	0.0050	"	0.800		104	50-150			
Xylenes (total)	2.46	0.0050	"	2.40		102	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.552*		"	*0.600*		*92.0*	*40-140*			
Matrix Spike (0D13002-MS1)		Source: W004265-03		Prepared & Analyzed: 13-Apr-00						
Benzene	0.716	0.0050	mg/kg	0.800	ND	89.5	50-150			
Toluene	0.756	0.0050	"	0.800	ND	94.5	50-150			
Ethylbenzene	0.794	0.0050	"	0.800	ND	99.3	50-150			
Xylenes (total)	2.33	0.0050	"	2.40	ND	97.1	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.606*		"	*0.600*		*101*	*40-140*			
Matrix Spike Dup (0D13002-MSD1)		Source: W004265-03		Prepared & Analyzed: 13-Apr-00						
Benzene	0.722	0.0050	mg/kg	0.800	ND	90.2	50-150	0.834	20	
Toluene	0.772	0.0050	"	0.800	ND	96.5	50-150	2.09	20	
Ethylbenzene	0.818	0.0050	"	0.800	ND	102	50-150	2.98	20	
Xylenes (total)	2.39	0.0050	"	2.40	ND	99.6	50-150	2.54	20	
Surrogate: a,a,a-Trifluorotoluene	*0.610*		"	*0.600*		*102*	*40-140*			

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0D13010 - EPA 3050B										
Blank (0D13010-BLK1)				Prepared & Analyzed: 13-Apr-00						
Lead	ND	1.0	mg/kg							
LCS (0D13010-BS1)				Prepared & Analyzed: 13-Apr-00						
Lead	49.0	1.0	mg/kg	50.0		98.0	80-120			
LCS Dup (0D13010-BSD1)				Prepared & Analyzed: 13-Apr-00						
Lead	50.0	1.0	mg/kg	50.0		100	80-120	2.02	20	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron #9-1924	**Reported:**
Dublin CA, 94568	Project Manager: Barbara Sieminski	14-Apr-00 09:52

Notes and Definitions

P-04	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☑ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1924
Facility Address: 4904 Southfront Road, Livermore
Consultant Project Number: 346448.04
Consultant Name: Getter-Ryan Inc
Address: 6747 Sierra Ct, Ste G, Dublin, CA 94568
Project Contact (Name): Barbara Sieminski
(Phone) (925) 551-7555 (Fax Number) (925) 551-7888

Chevron Contact (Name): Jess Natividad
(Phone): (925) 842-9178
Laboratory Name: Sequoia
Laboratory Release Number: 9144488 WO04270
Samples Collected by (Name): Barbara Sieminski
Collection Date: 04/12/00
Signature: B Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCLP or AA)	Total Lead					Remarks
SP3-A (Composite)		1	S	G	11:40		Yes	X								X					
SP3-B		1	↓	↓	11:42	-01AD	↓	X								X					
SP3-C		1			11:44			X								X					
SP3-D		1			11:46			X								X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	04/12/00		Seq. Da	4/11/00 15:40
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	Seq. Da	04/12/00 16:45			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					4/12/00

Turn Around Time (Circle Choice)
24 Hrs.
(48 Hrs.)
5 Days
10 Days
As Contracted

12:41T