September 17, 2003

Mr. Bruce G. Ehrlich Nossaman, Guthner, Knox and Elliot LLP 445 South Figueroa Street, 31st Floor Los Angeles, California 90071

SITE: GREENPARK RUNKLE CANYON, LLC RUNKLE CANYON PROPERTY IN SIMI VALLEY, CALIFORNIA

RE: SITE INVESTIGATION REPORT OF WESTERN 350-ACRE PARCEL

Dear Mr. Ehrlich:

Miller Brooks Environmental, Inc. (Miller Brooks) is pleased to submit this report documenting the site investigation activities conducted on the western 350-acre portion (Site) of the 1,615-acre Runkle Canyon Property (Property) in Ventura County, California (see Figure 1). The site investigation activities were conducted at the request of GreenPark Runkle Canyon, LLC (GreenPark). The purpose of these activities was to identify recognized environmental conditions on the Property with a particular emphasis on strotium-90. The investigation included surface soil and water sampling, the drilling and sampling of soil borings, and groundwater sampling on the Runkle Canyon Property. This report presents the results of sampling and analysis performed on the western 350-acre portion of the Property, and includes a description of the Site, a summary of site assessment activities, results of laboratory analyses, and conclusions.

1.0 BACKGROUND INFORMATION

Strontium (chemical symbol Sr) is a silvery metal that is found in nature and has four stable isotopes and twelve radioactive isotopes. Isotopes are different forms of the same element that have the same number of protons in the nucleus but a different number of neutrons. While the four stable isotopes of strontium occur naturally, strontium-90 is a by-product of the fission of uranium and plutonium in nuclear reactors and nuclear weapons. In the 1950s and 1960s, large amounts of strontium-90 were produced during atmospheric nuclear weapons tests and were dispersed worldwide. Strontium-90 has a half-life of 29.1 years. The releases from the 1950s and 1960s have been decaying slowly and result in current low background levels. The average strontium-90 concentration in surface soil is about 0.1 pico Curie per gram (pCi/g; Environmental Protection Agency [EPA], 2003; Risk Assessment Information System, 2003; Argonne National Laboratory, 2001).

2.0 SUMMARY OF CONCLUSIONS

No detectable concentrations of strontium-90 were detected in soil samples collected from the surface soil of the Site.

3.0 SITE DESCRIPTION

The subject Site is located within an area of undeveloped land referred to as Runkle Canyon, located at the terminus of Sequoia Avenue in the City of Simi Valley in Ventura County, California. The Property consists of three land parcels totaling approximately 1,615 acres. The subject Site comprises the western 350 acres of the Property. The Site is identified by the Ventura County's Assessors office as Parcel Number 685-040-255. There is no known street address for the subject Site. The western 350-acre portion of the Property is undeveloped and consists of a gently sloping valley with hills to the east and west. The Property and Site locations are shown on Figure 1.

4.0 ENVIRONMENTAL SETTING

The Site is located on the United States Department of the Interior, Geological Survey (USGS) Topographic Maps (7.5-minute series) for the Calabasas Quadrangle dated 1952 and photorevised in 1967. The Runkle Canyon Property is located in the Simi Hills at the south side of the Simi Valley. Site elevations range from approximately 1,000 feet to 1,500 feet above mean sea level (USGS, 1952).

4.1 GEOLOGY

The Property is located on the northern flank of the Simi Hills, within the Western Transverse Ranges geomorphic province. The area is characterized by numerous east-west trending folds and reverse faults from ongoing compressional stresses. The Burro Flats Fault dissects the southern portion of the Property in an east-west direction, but has not been designated as an active fault by the State of California (California Division of Mines and Geology [CDMG], 1984).

The dominant geologic formations underlying the Property are the Santa Susana, Llajas and Chatsworth Formations. These are composed mainly of marine shales and sandstones. The geologic units in the area range from Upper Cretaceous to Lower Tertiary in age. The valley floors and stream channels are blanketed by Quaternary alluvium. Isolated remnants of older alluvial deposits are located within the elevated areas, generally adjacent to the main drainage of Runkle Canyon. They generally consist of medium- to reddish-brown sandy silt and clay with sand and cobble lenses. The maximum thickness of older alluvium encountered within previous subsurface investigations is 75 feet (CDMG, 1984).

4.2 HYDROGEOLOGY

The Property is located approximately 3 miles south of the Simi Valley Groundwater Basin within the Calleguas Creek Watershed. The major drainages in the area are the Los Angeles River to the southeast and Los Virgenes Creek to the south. The Chatsworth Reservoir is located approximately 10 miles east of the Site (California Regional Water Quality Control Board [CRWQCB], 1994). An unnamed stream drains to the north, to the Runkle Reservoir, which is located east of the Site, on the 550-acre eastern portion of the Property. The reservoir was observed to be dry during site investigation activities.

Research indicates that two main groundwater systems have been identified in the vicinity of the Property. The Shallow Zone groundwater is laterally discontinuous, and is found within the alluvial deposits along drainages and valley floors. Depth to water in the Shallow Zone has ranged from land surface (artesian conditions) to greater than 30 feet below ground surface (bgs).

A deeper, regional groundwater zone is present within the fractures of the Chatsworth Formation bedrock, which is the principal water-bearing system in the area. In the deeper regional groundwater zone within the Chatsworth Formation, groundwater has been measured at depths ranging from ground surface (artesian conditions) to approximately 567 feet bgs (Groundwater Resources Consultants, Inc. [GRC], 2000).

The groundwater flow direction in the Chatsworth Formation to the east of the Property is to the north-northwest (GRC, 2000). Due to the complex nature of the hydrogeologic setting, the groundwater flow direction and gradient is highly variable on different portions of the Property, so no general regional gradient could be determined.

There are no known municipal supply wells within two miles of the Runkle Canyon Property (Environmental Data Resources, 2000).

5.0 PREVIOUS ASSESMENTS

In April and May 2000, Foster Wheeler conducted a Phase I Site Assessment of the Site. Based on the results of that assessment, no recognized environmental conditions were identified at the Site (Foster Wheeler, 2000).

In September 2000, Harding ESE conducted surface soil sampling for radionuclide impact on the Property. Sample locations were selected based on presumed transport and distribution of constituents from the Santa Susana Field Laboratory (SSFL) facility to the east of the Site, and included onsite drainage features, access road drainage ditches, and low lying areas. Two samples (Samples SS-16 and SS-17; Figure 2) were collected on subject Site, fourteen samples were collected on the 715-acre southern parcel, and one sample was collected approximately 100 feet east of the eastern 550-acre parcel (Harding ESE, 2000).

Results of the soil sampling indicated that all concentrations of tritium were below the minimum detectable activity (MDA). In addition, all concentrations of cesium-137 on the Site were below the MDA. Strontium-90 was detected in one sample (SS-16) on the subject Site at a concentration that exceeded the MDA (Harding ESE, 2000). These results were then compared to concentrations calculated by Foster Wheeler during a 1999 investigation, which included a statistical evaluation using the Multi Agency Radiation Survey and Site Investigation Manual (MARSSIM) protocol (Foster Wheeler, 1999). The strontium-90 concentration in Sample SS-16 (0.686 pCi/g) was found not to exceed exposure limit considered to be protective of human health (1.23 pCi/g; Foster Wheeler, 1999 and Harding ESE, 2000).

6.0 SUMMARY OF SITE ASSESSMENT ACTIVITIES

On March 14, 2003, Miller Brooks collected four surface soil samples (MBE-9, MBE-10, SS-16A, and SS-17A; Figure 2) at the Site. In addition, three offsite samples (Background-1 through Background-3) were collected as a baseline with which to compare results of the onsite samples. The samples were collected in 4-ounce glass jars and placed in a cooler for transport to a state-certified laboratory, following proper chain of custody protocol. The samples were analyzed for Strontium-90 using EPA Method 905.0. A description of general field procedures utilized is included in Appendix A.

Results of the laboratory analysis of soil samples are presented in Table 1. The laboratory reports and chain of custody documents are included in Appendix B.

7.0 FINDINGS

No detectable concentrations of strontium-90 were detected in the soil samples collected at the Site.

8.0 CONCLUSIONS

No detectable concentrations of strontium-90 were detected in soil samples collected from the surface soil of the Site.

9.0 STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

This report was prepared for the sole use of Greenpark Runkle Canyon, LLC. Any other use without the express written consent of Miller Brooks is prohibited. The conclusions herein are based solely upon the agreed written scope of work outlined in this report. Miller Brooks makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information which was not found or available to Miller Brooks at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by Miller Brooks have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This investigation was supervised or personally conducted by the licensed professional whose signature and license number appear below.

Jennifer L. Canfield Project Geologist

Elizabeth A. Robbins, RG 4874

Senior Geologist

Attachments: Table 1 - Results of Laboratory Analysis of Soil Samples

Figure 1 - Vicinity Map

Figure 2 - Site Plan Showing Soil Sample Locations

Appendix A - General Field Procedures

Appendix B - Official Laboratory Reports and Chain of Custody Records

No. 4874

01-402-0002-02

10.0 REFERENCES

- Argonne National Laboratory, 2001, Human Health Fact Sheet, Strontium, www.ead.anl.gov/pub/doc/strontium, October.
- California Division of Mines and Geology, 1984, Geology of the Calabasas-Agoura-Eastern Thousand Oaks Area, Los Angeles and Ventura Counties, California, Open File Report 84-1.
- California Regional Water Quality Control Board, 1994, Water Quality Control Plan, Los Angeles Region, June 1994.
- Environmental Data Resources, 2000, The EDR-Radius Map with Geocheck, GreenPark Ranch, Simi Valley, California, August 2000.
- Foster Wheeler Environmental Corporation, 1999, Final Report Runkle Ranch Site Investigation, Simi Valley, CA, October.
- Foster Wheeler Environmental Corporation, 2000, Phase I Environmental Site Assessment Parcel Number 685-040-025, Simi Valley, CA, May 16.
- Groundwater Resources Consultants, Inc., 2000, Annual Groundwater Monitoring Report Santa Susana Field Laboratory, 1999, February 2000.
- Harding ESE, 2000, Results of Limited Soil Sampling, Rancho Simi Property, APN 685-130-180, Simi Valley, California, November 3.
- Risk Assessment Information System, 2003, RAGs A Format for Strontium-90 CAS Number 10098972, www.risk.lsd.ornl.gov/tox/profiles/strontium-90 ragsa.shtml., September 12.
- United States Environmental Protection Agency, 2003, Radiation Information, Strontium, www.epa.gov/radiation/radionuclides/strontium.htm, September 12.
- United States Geological Survey, 1952, Calabassas Quadrangle, 7.5 Minute Topographic Series, Scale 1:24,000, Photorevised 1967.
- The following documents were reviewed to evaluate the sampling and analysis protocol utilized by Miller Brooks in the investigation and reporting activities on the Runkle Canyon Property:
- Agency for Toxic Substance and Disease Registry (ATSDR), 1999, SSFL Draft Preliminary Site Evaluation, December 1.
- Groundwater Resources Consultants, Inc., 1990, Area IV Radiological Investigation Report, Santa Susana Field Laboratory, Rockwell International Corporation Rocketdyne Division, March 23.

- Haley and Aldrich, Inc, 2002, Groundwater Monitoring Quarterly Report, Third Quarter 2002, July through September 2002, Santa Susana Field Laboratory, Ventura County, California, November 25.
- McLaren/Hart, 1995, Additional Soil and Water Sampling at the Brandeis-Barden Institute and Santa Monica Mountains Conservancy, January 19.
- Olson, P., Shepard, K., and Adler, K., 1987, CERCLA Program Phase II Site Characterization, May 29.
- Rockwell International, 1996, Proposed Statewide Release Criteria for Remediation of Facilities at the SSFL, March 11.
- Rocketdyne Energy Technology Engineering Center, 1996, Area IV Radiological Characterization Survey, Final Report, Volume I, August 15.
- Tetratech EM, Inc., 2002, Final Rocketdyne Technical Support and Field Oversight Document Review for Building 4059, December 20.
- The Boeing Company, 2001, Request for Approval to Ship Soil from SRE to a Landfill, September 25.
- The Boeing Company, 1999, Factsheet-Santa Susana Field Laboratory, Groundwater Cleanup and Monitoring Program.
- The Boeing Company, 1999, Factsheet-Santa Susana Field Laboratory, Radiological Cleanup and Monitoring Program,
- USEPA, 1995, The U.S. EPA Announces Results of Rocketdyne's Off-Site Sampling Program for the Santa Susana Field Laboratory.

TABLE

TABLE 1 RESULTS OF STRONTIUM ANALYSIS FOR SOIL SAMPLES Western 350-acre Parcel Runkle Canyon Property Simi Valley, California

Sample ID	Date	pCi/g-dry
	· ·	
MBE-9-Surface	3/14/03	ND<2.00
MBE-10-Surface	3/14/03	ND<2.00
SS-16A	3/14/03	ND<2.80
SS-17A *	3/14/03	ND<2.80
Duplicate-1 *	3/14/03	ND<2.80
Background-1	3/14/03	ND<2.00
Background-2	3/14/03	ND<2.00
Background-3	3/14/03	ND<2.20
Trip Blank	3/14/03	ND<10 pCi/L
Trip Blank	3/14/03	

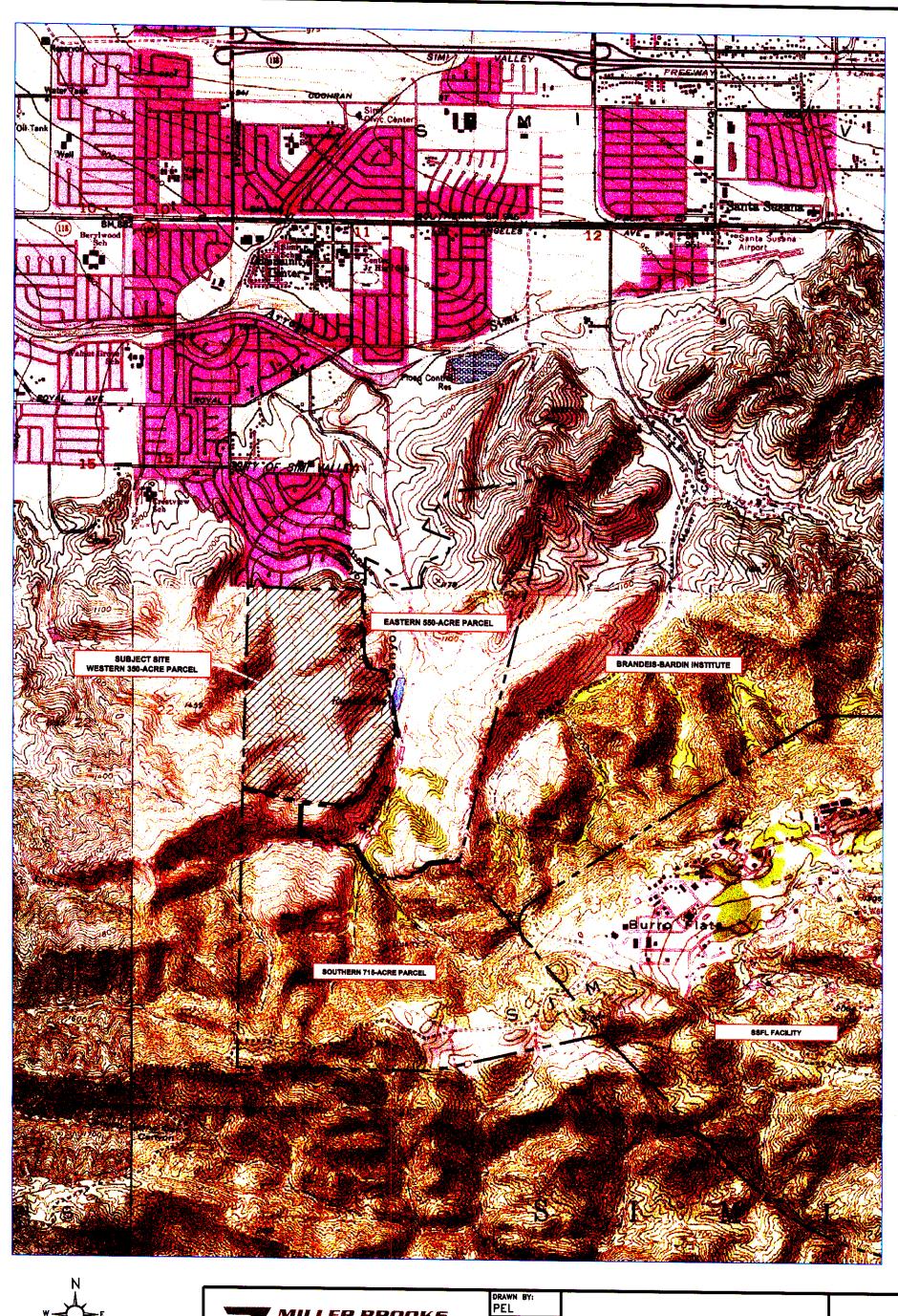
Notes:

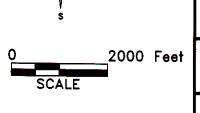
pCi/g-dry = pico curie per gram - dry

ND = not detected at limit indicated

^{* =} Duplicate-1 was collected in the same location as Sample SS-17A on March 14, 2003. pCi/g = pico curie per liter

FIGURES







PROJECT NO. 01-406-0002-02

PEL
DATE:
11/21/02
REVISED BY:
DCN
REVISED:
08/28/03
APPROVED BY:
EAR

DATE: 08/28/03

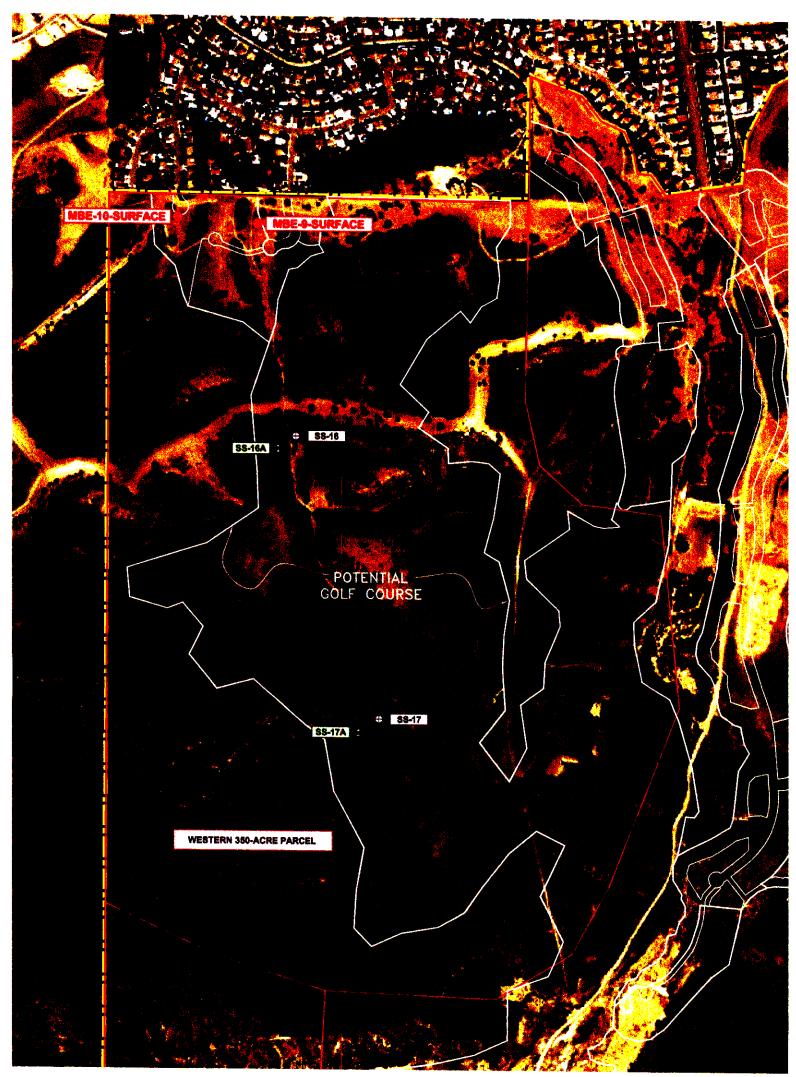
VICINITY MAP

FIGURE

RUNKLE CANYON PROPERTY SIMI VALLEY, CA.

FILE: K:\DWGS\RUNKLE RANCH\VICINITY MAP [F1A]

DATE PLOTTED: 08/28/03



LEGEND

SURFACE SOIL SAMPLE LOCATION

SS-17

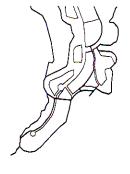
SURFACE SOIL SAMPLE LOCATION (HARDING ESE, 2000)

SS-17A

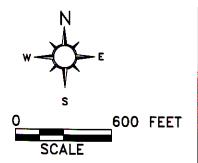
SURFACE SOIL SAMPLE LOCATION (MILLER BROOKS, 2003)

PARCEL BOUNDARY

PROPERTY BOUNDARY



PROPOSED DEVELOPMENT



MILLER BROOKS	DRAWN BY:
Environmental. Inc.	DATE: 06/05/03
	REVISED BY:
	DEVICED.

PROJECT NO. 01-402-0002-03

2124 MAIN STREET, SUITE 200 HUNTINGTON BEACH, CA. 92648 (714) 960-4088 EAR

06/05/03

06/05/03

SITE PLAN SHOWING SURFACE SOIL SAMPLE LOCATIONS

> WESTERN 350-ACRE PARCEL RUNKLE CANYON PROPERTY

SIMI VALLEY, CA.

FIGURE

FILE: K:\DWGS\RUNKLE CANYON\SAR\SURFACE 0813 [8-F2]
DATE PLOTTED: 06/05/03

APPENDIX A

APPENDIX A

GENERAL FIELD PROCEDURES

SURFACE AND HAND AUGER SOIL SAMPLING

During the investigation, soil is screened for organic vapors using a photoionization detector (PID). The soil samples are collected from the soil surface, an excavator bucket or hand-auger boring by inserting a 2-inch brass sample tube into undisturbed soil. The sample tube is sealed with Teflon sheeting and polyurethane caps. Each sample is labeled with the project number, boring number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are either delivered to an onsite mobile laboratory for immediate analysis or placed in a cooler with ice at approximately 4 degrees Celsius for transport to an offsite state-certified laboratory.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil samples selected for laboratory analysis. The chain of custody form accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

DECONTAMINATION

Drilling equipment is decontaminated by steam cleaning before being brought onsite. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution, and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between borings. Groundwater purging and sampling equipment that could come into contact with well fluids is either dedicated to a well or cleaned prior to each use in a Liqui-nox solution followed by two tap water rinses.

APPENDIX B



FAX 714/538-1209

CLIENT Orange Coast Analytical

(4376)

LAB REQUEST 108126

ATTN: Mark Norrani

3002 Dow Ave.

REPORTED 03/27/2003

Suite 532

Tustin, CA 92680

RECEIVED

03/19/2003

PROJECT Runkle Ranch

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
419242	Creek - 1 Water
419243	Creek - 2 Water
419244	Windmill - 1 Water
419245	Creek - 3 Water
419246	Trip Blank
419247	Creek - 1 Soil
419248	Creek - 2 Soil
419249	Creek - 3 Soil

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORII

Tit&L. Parola President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING Chemical Microbiological CLIENT Orange Coast Analytical

(4376)

LAB REQUEST 108126

ATTN: Mark Norrani

3002 Dow Ave.

REPORTED 03/27/2003

Suite 532

Tustin, CA 92680

RECEIVED 03/19/2003

PROJECT Runkle Ranch

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No. 419250 419251

Client Sample Identification
Laboratory Method Blank-W
Laboratory Method Blank-S

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES

Tito L. Parola President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING Chemical Microbiological

Order #: 419242 Matrix: WATER	Client Sample ID:	Creek - 1	Water			
Pate Sampled: 03/14/2003 Time Sampled: 09:00						
Analyte		· · · · · · · · · · · · · · · · · · ·	Result	DLR	Units	Date/Analyst
14 Perchlorate by Ion Chomato	graphy					
Perchlorate			ND	4	ug/L	03/25/03 BGS
Prder #: 419243 Intrix: WATER ate Sampled: 03/14/2003 ime Sampled: 09:15	Client Sample ID:	Creek - 2	Water	<u>.</u>		
Analyte			Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomato	graphy					
Perchlorate			ND	4	ug/L	03/25/03 BGS
atrix: WATER ate Sampled: 03/14/2003 me Sampled: 10:30	Client Sample ID:	Windmill	- 1 Water			
Analyte			Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomator	graphy		·			
Perchlorate			ND	4	ug/L	03/25/03 BGS
rder #: 419245 atrix: WATER ate Sampled: 03/14/2003 me Sampled: 11:20	Client Sample ID:	Creek - 3	Water			
Analyte			Result	DLR	Units	Date/Analyst
		 				
4 Perchlorate by Ion Chomatog	<u>traphy</u>					

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



atrix: WATER ate Sampled: 03/14/2003	onen sample 11.	Trip Dialik				
Analyte			Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomato	graphy					
Perchlorate			ND	4	ug/L	03/25/03 BGS
rder #: 419247 atrix: SOLID	Client Sample ID:	Creek - 1 S	oil	<u> </u>		
Analyte			Result	DLR	Units	Date/Analyst
Perchlorate by Ion Chomatos	graphy					
Perchlorate			ND	0.040	mg/Kg	03/25/03 BGS
der #: 419248	Client Sample ID:	Creek - 2 S	oil			
Analyte			Result	DLR	Units	Date/Analyst
Perchlorate by Ion Chomatog	graphy				· · · · · · ·	
Perchlorate			ND	0.040	mg/Kg	03/25/03 BGS
rder #: 419249 atrix: SOLID	Client Sample ID:	Creek - 3 Se	oil			
Analyte	·		Result	DLR	Units	Date/Analyst
4 Perchlorate by Ion Chomatog	raphy					

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

)rder#:

419246



Analyte Result DLR Units Date/Analyst 4 Perchlorate by Ion Chomatography Perchlorate ND ug/L 03/25/03 **BGS** 419251 Client Sample ID: Laboratory Method Blank-S rder#: latrix: SOLID Analyte Result DLR Units Date/Analyst

Client Sample ID: Laboratory Method Blank-W

Perchlorate by Ion Chomatography

Perchlorate ND 0.040 mg/Kg 03/25/03 BGS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



rder #:

atrix: WATER

419250



Client: Orange Coast Analytical Inc

Project: Runkle Lab Order: C03030603

Report Date: 04/21/03

C03030603-001 Lab ID:

Client Sample ID: MBE-7-Surface

Collection Date: 03/13/03 10:25

DateReceived: 03/20/03

Matrix:

SOIL

MCL/

QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

Analyses

ND pCi/g-dry

Units

Result

2.40

RL

E905.0

03/27/03 17:00 / db

Lab ID:

C03030603-002

DateReceived: 03/20/03

Collection Date: 03/13/03 10:40

Matrix:

Analyses

Client Sample ID: MBE-7-3' SOIL

Result Units

Qual

Qual

Qual

Qual

MCL/ RLQCL

Method

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.40

E905.0

03/27/03 17:00 / db

Lab ID:

C03030603-003

Client Sample ID: MBE-7-7'

Matrix:

SOIL

MCL/

Collection Date: 03/13/03 10:50

DateReceived: 03/20/03

Result Units RL QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

Analyses

ND pCi/g-dry

2.40

E905.0

Method

03/27/03 17:00 / db

Lab ID:

C03030603-004

Client Sample ID: MBE-8-Surface

Collection Date: 03/13/03 12:25

DateReceived: 03/20/03

Matrix:

SOIL

MCL/ QCL

Analyses

Strontium 90

RADIONUCLIDES - TOTAL

Units

pCi/g-dry

Result

ND

2.40

RL

E905.0

Method

03/27/03 17:00 / db

Analysis Date / By

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Qual



LABORATORY ANALYTICAL REPORT

Client:

Orange Coast Analytical Inc

Project:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

Lab ID:

C03030603-005

Collection Date: 03/13/03 12:45

Client Sample ID: MBE-8-3'

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/

QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

Result

2.40

RL

E905.0

03/27/03 17:00 / db

Lab ID:

C03030603-006

Client Sample ID: MBE-8-7'

Collection Date: 03/13/03 12:55 DateReceived: 03/20/03

Matrix: Analyses

SOIL

Units Result Qual

MCL/ RLQCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.40

E905.0

Method

03/27/03 17:00 / db

Lab ID:

C03030603-007

Client Sample ID: MBE-11-Surface

Collection Date: 03/13/03 13:35

DateReceived: 03/20/03

Matrix:

SOIL

MCL/ QCL

RADIONUCLIDES - TOTAL

Analyses

Strontium 90

ND pCi/g-dry

Units

Result

Result

2.40

RL

Qual

Qual

E905.0

Method

03/27/03 17:00 / db

Analysis Date / By

Lab ID:

C03030603-008

Client Sample ID: MBE-11-3'

Collection Date: 03/13/03 13:40

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/

RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

2.40

E905.0

03/27/03 17:00 / db

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit,

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

TRACKING NO. PAGE NO 030603R0002

Lab Order: C03030603



LABORATORY ANALYTICAL REPORT

Client: Orange Coast Analytical Inc

Project: Runkle Report Date: 04/21/03

Lab ID: C03030603-009 Collection Date: 03/13/03 13:45

Client Sample ID: MBE-11-7' DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RLQCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.40 E905.0 03/27/03 17:00 / db

Lab ID: C03030603-010 Collection Date: 03/13/03 14:30

Client Sample ID: MBE-5-Surface DateReceived: 03/20/03

Matrix: SOIL MCL/

Result QCL Analyses Units Qual RL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND E905.0 03/27/03 17:00 / db pCi/g-dry 2.40

Lab ID: C03030603-011 Collection Date: 03/13/03 14:33

Client Sample ID: MBE-5-3' DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND 2.40 E905.0 03/27/03 17:00 / db pCi/g-dry

Lab ID: C03030603-012 Collection Date: 03/13/03 14:35

Client Sample ID: MBE-5-7' DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND 2.40 E905.0 03/27/03 17:00 / db pCi/g-dry

Report RL - Analyte reporting limit. Definitions:

MCL - Maximum contaminant level. QCL - Quality control limit. ND - Not detected at the reporting limit.



Client: Orange Coast Analytical Inc

Project: Runkle Lab Order: C03030603

Report Date: 04/21/03

Lab ID: C03030603-013 Collection Date: 03/13/03 14:45

DateReceived: 03/20/03

Matrix:

SOIL

Client Sample ID: MBE-2-Surface

MCL/

Method Analysis Date / By

Analyses Result Units Qual RL QCL

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.40

E905.0

03/27/03 17:00 / db

Lab ID: C03030603-014

Client Sample ID: MBE-2-3'

DateReceived: 03/20/03

Collection Date: 03/13/03 15:00

Matrix:

SOIL

MCL/

Analyses Result Units Qual RLQCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.40

E905.0

03/27/03 17:00 / db

Lab ID:

C03030603-015

Client Sample ID: MBE-2-7'

Matrix:

Strontium 90

SOIL

Collection Date: 03/13/03 15:05

DateReceived: 03/20/03

DateReceived: 03/20/03

Analyses

RADIONUCLIDES - TOTAL

ND pCi/g-dry

Result

Result

Units

RL

2.00

Qual

Qual

E905.0

Method

03/28/03 16:00 / db

Analysis Date / By

Lab ID:

C03030603-016

Collection Date: 03/13/03 14:00

Client Sample ID: MBE-12-Surface

MCL/ QCL

MCL/

QCL

Matrix: Analyses

SOIL

Units

RL

Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.00

E905.0

03/28/03 16:00 / db

Report **Definitions:** RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Qual



LABORATORY ANALYTICAL REPORT

Client:

Orange Coast Analytical Inc

Project:

Lab ID:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

C03030603-017

Client Sample ID: MBE-1-Surface

Collection Date: 03/13/03 14:10

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/

2.00

RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

2.10 pCi/g-dry Strontium 90 precision (±) 1.20 pCi/g-dry

Result

Units

E905.0

E905.0

03/28/03 16:00 / db 03/28/03 16:00 / db

Lab ID:

C03030603-018

Client Sample ID: MBE-6-Surface

Collection Date: 03/13/03 15:00

DateReceived: 03/20/03

Matrix:

SOIL

MCL/

Analyses Result Units Qual RLQCL

Analysis Date / By

RADIONUCLIDES - TOTAL Strontium 90

Strontium 90 precision (±)

2.20 pCi/g-dry 1.20 pCi/g-dry

E905.0 E905.0

Method

03/28/03 16:00 / db 03/28/03 16:00 / db

Lab ID:

C03030603-019

Client Sample ID: MBE-3-Surface

Collection Date: 03/13/03 15:15

Matrix:

SOIL

MCL/

2.00

DateReceived: 03/20/03

Analyses

Strontium 90

RADIONUCLIDES - TOTAL

Units

QCL Qual RL

ND

Result

Result

pCi/g-dry

2.00

E905.0

Method

03/28/03 16:00 / db

Analysis Date / By

Lab ID:

C03030603-020

Client Sample ID: MBE-4-Surface

Collection Date: 03/13/03 15:30

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/ QCL

Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

2.00

RL

Qual

E905.0

03/28/03 16:00 / db

Report **Definitions:**

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: Orange Coast Analytical Inc

Lab Order: C03030603 Project: Runkle Report Date: 04/21/03

Lab ID: C03030603-021 Collection Date: 03/13/03 15:35

Client Sample ID: MBE-4-3' DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.00 E905.0 03/28/03 16:00 / db

Lab ID: C03030603-022 Collection Date: 03/13/03 15:40

Client Sample ID: MBE-4-7' DateReceived: 03/20/03

SOIL Matrix: MCL/

Analyses Result Units Qual RLQCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.00 E905.0 03/28/03 16:00 / db

Lab ID: C03030603-023 Collection Date: 03/13/03

Client Sample ID: Duplicate 1 DateReceived: 03/20/03

SOIL Matrix: MCL/

Analyses Result Units Qual RLQCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.00 E905.0 03/28/03 16:00 / db

Lab ID: C03030603-024 Collection Date: 03/13/03

Client Sample ID: Duplicate 2 DateReceived: 03/20/03

SOIL Matrix: MCL/

Analyses Result Units Qual RLQCL Method Analysis Date / By

RADIONUCLIDES - TOTAL Strontium 90 ND 2.00 E905.0 pCi/g-dry 03/28/03 16:00 / db

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Definitions:

QCL - Quality control limit. ND - Not detected at the reporting limit.



Client:

Orange Coast Analytical Inc

Project:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

Lab ID:

C03030603-025

Collection Date: 03/14/03 11:45

Client Sample ID: MBE-10-Surface

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/ QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

Result

2.00

RL

E905.0

Method

03/28/03 16:00 / db

Lab ID:

C03030603-026

Qual

Collection Date: 03/14/03 11:50

Client Sample ID: MBE-9-Surface

MCL/

DateReceived: 03/20/03

Matrix: Analyses

SOIL

Result Units Qual

RL QCL Method

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.00

E905.0

03/28/03 16:00 / db

Lab ID:

C03030603-027

Client Sample ID: Background-1

Collection Date: 03/14/03 07:55

Matrix:

SOIL

MCL/

QCL

DateReceived: 03/20/03

Analyses

RLQual

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

Result

Result

2.00

E905.0

Method

03/28/03 16:00 / db

Lab ID:

C03030603-028

Client Sample ID: Background-2

Collection Date: 03/14/03 08:00

DateReceived: 03/20/03

Matrix:

SOIL

MCL/

Analyses

Qual

RL QCL

Analysis Date / By Method

Strontium 90

RADIONUCLIDES - TOTAL

ND pCi/g-dry

Units

2.00

E905.0

03/28/03 16:00 / db

Report **Definitions:**

RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

> TRACKING NO. PAGE NO. n30603R0007

Qual

Qual

Qual

Qual



LABORATORY ANALYTICAL REPORT

Client: Orange Coast Analytical Inc

Project: Runkle Lab Order: C03030603

Report Date: 04/21/03

Lab ID: C03030603-029

Collection Date: 03/14/03 12:00

Client Sample ID: Background-3

DateReceived: 03/20/03

Matrix:

SOIL

MCL/

QCL Method

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

Analyses

ND pCi/g-dry

Units

Result

Result

Result

Result

2.20

RL

E905.0

03/31/03 17:00 / db

Lab ID:

C03030603-030

Client Sample ID: SS-1A

Collection Date: 03/14/03 09:30

Matrix: Analyses

SOIL

MCL/ QCL

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

2.20

RL

E905.0

Method

03/31/03 17:00 / db

Analysis Date / By

Lab ID:

C03030603-031

Client Sample ID: SS-2A

Collection Date: 03/14/03 09:35

DateReceived: 03/20/03

DateReceived: 03/20/03

Matrix:

SOIL

MCL/ RL QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

Analyses

ND pCi/g-dry

Units

2.20

E905.0

Method

03/31/03 17:00 / db

Lab ID:

C03030603-032

Collection Date: 03/14/03 09:40

Client Sample ID: SS-3A

DateReceived: 03/20/03

Matrix: Analyses

SOIL

MCL/ QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry

Units

2.20

RL

E905.0

Method

03/31/03 17:00 / db

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



Client: Orange Coast Analytical Inc

Project: Runkle Lab Order: C03030603

Report Date: 04/21/03

C03030603-033 Lab ID: Collection Date: 03/14/03 09:50

Client Sample ID: SS-4A DateReceived: 03/20/03

SOIL Matrix: MCL/

Result Units Qual RL**QCL** Method Analysis Date / By Analyses

RADIONUCLIDES - TOTAL

Strontium 90 ND 2.20 E905.0 03/31/03 17:00 / db pCi/g-dry

C03030603-034 Collection Date: 03/14/03 09:55 Lab ID:

DateReceived: 03/20/03 Client Sample ID: SS-5A

SOIL Matrix: MCL/

Result Units Qual RLQCL Method Analysis Date / By Analyses

RADIONUCLIDES - TOTAL

ND 2.20 E905.0 03/31/03 17:00 / db Strontium 90 pCi/g-dry

Collection Date: 03/14/03 10:00 Lab ID: C03030603-035

DateReceived: 03/20/03 Client Sample ID: SS-6A

Matrix: SOIL MCL/

Result Units Qual RL QCL Method Analysis Date / By Analyses

RADIONUCLIDES - TOTAL

QCL - Quality control limit.

2.20 E905.0 03/31/03 17:00 / db ND Strontium 90 pCi/g-dry

Collection Date: 03/14/03 10:05 Lab ID: C03030603-036

DateReceived: 03/20/03 Client Sample ID: SS-7A

Matrix: SOIL MCL/

Analysis Date / By Analyses Result Units Qual RLQCL Method

RADIONUCLIDES - TOTAL

E905.0 03/31/03 17:00 / db ND 2.20 Strontium 90 pCi/g-dry

RL - Analyte reporting limit. MCL - Maximum contaminant level. Report **Definitions:** ND - Not detected at the reporting limit.

> TRACKING NO. PAGE NO. n3n603R0009



Client:

Orange Coast Analytical Inc

Project:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

Lab ID:

C03030603-037

Client Sample ID: SS-8A

Collection Date: 03/14/03 10:10

DateReceived: 03/20/03

Matrix: Analyses

SOIL

Result Units Qual

RLQCL

MCL/ Method

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.20

E905.0

03/31/03 17:00 / db

Lab ID;

C03030603-038

Client Sample ID: SS-9A

Matrix:

SOIL

DateReceived: 03/20/03

MCL/ QCL

Collection Date: 03/14/03 10:15

Analyses

Strontium 90

RADIONUCLIDES - TOTAL

ND pCi/g-dry

Units

Result

Result

2.20

RL

Qual

Qual

E905.0

Method

03/31/03 17:00 / db

Analysis Date / By

Lab ID:

C03030603-039

Client Sample ID: SS-10A

Matrix: Analyses

SOIL

Collection Date: 03/14/03 10:40

DateReceived: 03/20/03

MCL/ RL QCL

Analysis Date / By

RADIONUCLIDES - TOTAL Strontium 90

ND pCi/g-dry

Units

2.20

E905.0

Method

03/31/03 17:00 / db

Lab ID:

C03030603-040

Client Sample ID: SS-11A

Collection Date: 03/14/03 10:45

DateReceived: 03/20/03

Matrix: Analyses

SOIL

Result Units Qual

MCL/ RL QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND

pCi/g-dry

2.20

E905.0

Method

03/31/03 17:00 / db

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

> TRACKING HO. PAGE N 030603R001



Client:

Orange Coast Analytical Inc

Project:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

Lab ID:

C03030603-041

Client Sample ID: SS-12A

Collection Date: 03/14/03 10:50 DateReceived: 03/20/03

Matrix: SOIL

Analyses

Result Units

Qual RL

MCL/ QCL Method

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.20

E905.0

03/31/03 17:00 / db

Lab ID:

C03030603-042

Client Sample ID: SS-13A

Collection Date: 03/14/03 09:45

Matrix:

SOIL

MCL/ QCL

DateReceived: 03/20/03

Analyses

RADIONUCLIDES - TOTAL Strontium 90

Units

pCi/g-dry

Result

ND

Result

2.20

RL

Qual

Qual

E905.0

Method

03/31/03 17:00 / db

Analysis Date / By

Lab ID:

Matrix:

C03030603-043

Client Sample ID: SS-14A

SOIL

MCL/

QCL

Collection Date: 03/14/03 11:00

DateReceived: 03/20/03

RADIONUCLIDES - TOTAL Strontium 90

Analyses

ND pCi/g-dry

Units

2.80

RL

E905.0

Method

04/01/03 15:15 / db

Analysis Date / By

Lab ID:

C03030603-044

Client Sample ID: SS-15A

Collection Date: 03/14/03 11:30

DateReceived: 03/20/03

Matrix:

SOIL

Analyses

Result Units Qual RL

MCL/ QCL

Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/g-dry 2.80

E905.0

Method

04/01/03 15:15 / db

Report Definitions:

RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Lab Order: C03030603



LABORATORY ANALYTICAL REPORT

Client: Orange Coast Analytical Inc

Project: Runkle Report Date: 04/21/03

Lab ID: C03030603-045 Collection Date: 03/14/03 11:40

Client Sample ID: SS-16A DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.80 E905.0 04/01/03 15:15 / db

Lab ID: C03030603-046 Collection Date: 03/14/03 11:10

Client Sample ID: SS-17A DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.80 E905.0 04/01/03 15:15 / db

Lab ID: C03030603-047 Collection Date: Not Provided

Client Sample ID: Duplicate-1 DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.80 E905.0 04/01/03 15:15 / db

Lab ID: C03030603-048 Collection Date: Not Provided

Client Sample ID: Duplicate-2 DateReceived: 03/20/03

Matrix: SOIL MCL/

Analyses Result Units Qual RL QCL Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90 ND pCi/g-dry 2.80 E905.0 04/01/03 15:15 / db

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Qual



LABORATORY ANALYTICAL REPORT

Client:

Orange Coast Analytical Inc

Project:

Runkle

Lab Order: C03030603

Report Date: 04/21/03

Lab ID:

C03030603-049

Collection Date: Not Provided

Client Sample ID: Trip Blank

DateReceived: 03/20/03

Matrix:

Analyses

AQUEOUS

MCL/ QCL

Method Analysis Date / By

RADIONUCLIDES - TOTAL

Strontium 90

ND pCi/L

Units

Result

10

RL

E905.0

04/01/03 15:15 / db

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name ORNG-CST-ANLYTCL-INC					nd Time Received:		3/20/2003 14:00:00	
Work Order Number C03030603				Receive			0.20.2000 14.00.00	
Checklist completed by Signature	Carrier name)/ <u>/</u>	<u>></u>	Review	ed by		Date	
			_					
Shipping container/cooler in good condition?		Yes	V	No 🗌	Not Present			
Custody seals intact on shipping container/cool	er?	Yes		No 🗌	Not Present	Y		
Custody seals intact on sample bottles?		Yes		No 🗌	Not Present	Y		
Chain of custody present?		Yes	V	No 🗌				
Chain of custody signed when relinquished and	received?	Yes	V	No 🗌				
Chain of custody agrees with sample labels?		Yes		No 🗹				
Samples in proper container/bottle?		Yes	V	No 🗌				
Sample containers intact?		Yes	✓	No 🗌				
Sufficient sample volume for indicated test?		Yes	✓	No 🗆				
All samples received within holding time?		Yes	✓	No 🗌				
Container/Temp Blank temperature in complian	ce?	Yes	V	No 🗌	10°C			
Water - VOA vials have zero headspace?		Yes		No 🗆	No VOA vials subr	nitted	☑	
Water - pH acceptable upon receipt?		Yes	\checkmark	No 🗔	Not Applicable			
	Adjusted?	·		Checked by		_		
Any No and/or NA (not applicable) response mu	ust be detailed in the c	comme	nts se	ection below.	=====		=======	
Client contacted	Date contacted:				Person contacted			
Contacted by:	Regarding:							
Comments: The were two bottles marked as Duplicate-1 for name. Also per M. Noorani project is Runkle	or the 3-14-03 sample only.	es, SA	G fax	ed client per Ma	ark Noorani bottles	<u>match</u>	ed w/ sampler	
Corrective Action								



ANALYTICAL SUMMARY REPORT

April 21, 2003

Mark Noorani Orange Coast Analytical Inc 3002 Dow Ste 532 Tustin, CA 92780

Workorder No.: C03030603 Project Name: Runkle

Energy Laboratories Inc. received the following 49 samples from Orange Coast Analytical Inc on 3/20/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03030603-001	MBE-7-Surface	03/13/03 10:25	03/20/03	Soil	Digestion For RadioChemistry Strontium 90
C03030603-002	MBE-7-3'	03/13/03 10:40	03/20/03	Soil	Same As Above
C03030603-003	MBE-7-7'	03/13/03 10:50	03/20/03	Soil	Same As Above
C03030603-004	MBE-8-Surface	03/13/03 12:25	03/20/03	Soil	Same As Above
C03030603-005	MBE-8-3'	03/13/03 12:45	03/20/03	Soil	Same As Above
C03030603-006	MBE-8-7'	03/13/03 12:55	03/20/03	Soil	Same As Above
C03030603-007	MBE-11-Surface	03/13/03 13:35	03/20/03	Soil	Same As Above
C03030603-008	MBE-11-3'	03/13/03 13:40	03/20/03	Soil	Same As Above
C03030603-009	MBE-11-7'	03/13/03 13:45	03/20/03	Soil	Same As Above
C03030603-010	MBE-5-Surface	03/13/03 14:30	03/20/03	Soil	Same As Above
C03030603-011	MBE-5-3'	03/13/03 14:33	03/20/03	Soil	Same As Above
C03030603-012	MBE-5-7'	03/13/03 14:35	03/20/03	Soil	Same As Above
C03030603-013	MBE-2-Surface	03/13/03 14:45	03/20/03	Soil	Same As Above
C03030603-014	MBE-2-3'	03/13/03 15:00	03/20/03	Soil	Same As Above
C03030603-015	MBE-2-7'	03/13/03 15:05	5 03/20/03	Soil	Same As Above
C03030603-016	MBE-12-Surface	03/13/03 14:00	03/20/03	Soil	Same As Above
C03030603-017	MBE-1-Surface	03/13/03 14:10	03/20/03	Soil	Same As Above
C03030603-018	MBE-6-Surface	03/13/03 15:00	0 03/20/03	Soil	Same As Above
C03030603-019	MBE-3-Surface	03/13/03 15:1:	5 03/20/03	Soil	Same As Above
C03030603-020	MBE-4-Surface	03/13/03 15:30	0 03/20/03	Soil	Same As Above
C03030603-021	MBE-4-3'	03/13/03 15:3:	5 03/20/03	Soil	Same As Above
C03030603-022	MBE-4-7'	03/13/03 15:40	03/20/03	Soil	Same As Above
C03030603-023	Duplicate 1	03/13/03 0:00	03/20/03	Soil	Same As Above



C03030603-024	Duplicate 2	03/13/03 0:00	03/20/03	Soil	Same As Above
C03030603-025	MBE-10-Surface	03/14/03 11:45	03/20/03	Soil	Same As Above
C03030603-026	MBE-9-Surface	03/14/03 11:50	03/20/03	Soil	Same As Above
C03030603-027	Background-1	03/14/03 7:55	03/20/03	Soil	Same As Above
C03030603-028	Background-2	03/14/03 8:00	03/20/03	Soil	Same As Above
C03030603-029	Background-3	03/14/03 12:00	03/20/03	Soil	Same As Above
C03030603-030	SS-1A	03/14/03 9:30	03/20/03	Soil	Same As Above
C03030603-031	SS-2A	03/14/03 9:35	03/20/03	Soil	Same As Above
C03030603-032	SS-3A	03/14/03 9:40	03/20/03	Soil	Same As Above
C03030603-033	SS-4A	03/14/03 9:50	03/20/03	Soil	Same As Above
C03030603-034	SS-5A	03/14/03 9:55	03/20/03	Soil	Same As Above
C03030603-035	SS-6A	03/14/03 10:00	03/20/03	Soil	Same As Above
C03030603-036	SS-7A	03/14/03 10:05	03/20/03	Soil	Same As Above
C03030603-037	SS-8A	03/14/03 10:10	03/20/03	Soil	Same As Above
C03030603-038	SS-9A	03/14/03 10:15	03/20/03	Soil	Same As Above
C03030603-039	SS-10A	03/14/03 10:40	03/20/03	Soil	Same As Above
C03030603-040	SS-11A	03/14/03 10:45	03/20/03	Soil	Same As Above
C03030603-041	SS-12A	03/14/03 10:50	03/20/03	Soil	Same As Above
C03030603-042	SS-13A	03/14/03 9:45	03/20/03	Soil	Same As Above
C03030603-043	SS-14A	03/14/03 11:00	03/20/03	Soil	Same As Above
C03030603-044	SS-15A	03/14/03 11:30	03/20/03	Soil	Same As Above
C03030603-045	SS-16A	03/14/03 11:40	03/20/03	Soil	Same As Above
C03030603-046	SS-17A	03/14/03 11:10	03/20/03	Soil	Same As Above
C03030603-047	Duplicate-1	, , , , , , , , , , , , , , , , , , , ,	03/20/03	Soil	Same As Above
C03030603-048	Duplicate-2		03/20/03	Soil	Same As Above
C03030603-049	Trip Blank		03/20/03	Aqueous	Strontium 90

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

If you have any questions regarding these tests results, please call.

Report Approved By:

All Lacking



Date: 21-Apr-03

CLIENT:

Orange Coast Analytical Inc

Project:

Runkle

Sample Delivery Group: C03030603

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT

eli-cs - Energy Laboratories, Inc. - College Station, TX

eli-g - Energy Laboratories, Inc. - Gillette, WY

eli-h - Energy Laboratories, Inc. - Helena, MT

eli-r - Energy Laboratories, Inc. - Rapid City, SD

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by NELAC. Some client specific reporting requirements may not require NELAC reporting protocol.

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

The total number of pages of this report are indicated by the last four digits of the tracking number located in the lower right corner.

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THE REAL PROPERTY.
ALC: NO.

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

REQUIRED TAT:

Normal

Lab Job No:

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CUSTOMER INFORMATION			PROJECT IN	_					REQUESTION A	3	7	7	7	7	7		///	//		
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Mr. Mark Noorani	LOCATIO	" 402	<u>-000</u> 3	-ن-	<u> </u>		<u></u>	/ {	(3. g)	/,	!/				/		//	•		
Orange Coast Analytical, Inc.	ADDRES	<i>\</i>	i Val	ley	<u>, U</u>	<u> </u>		7		3			/ /	/ /	/ ,	/	/ /			
3002 Dow St., Suite 532									2	5/										
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All samples remain the property	of the	client who	is respons	ible fo	r dispo	sal. A	disposal	fee	may	−. be ir	ทุกกร	ed if	clie	nt fai	ils to	o pic	kuo sam	oles.		· · · · · · · · · · · · · · · · · · ·

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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 **Tustin, CA 92780**

4620 E. Elwood, Suite 4 Phoenix, AZ 85040

Lab Job No: 🔔			
Page	<u></u>	of	<u>}</u>
			

Normal (714) 832-0064, Fax (714) 832-0067 (480) 736-0960 Fax (480) 736-0970 **REQUIRED TAT:** CUSTOMER INFORMATION PROJECT INFORMATION PROJECT NAME 02-0002-02 Mr. Mark Noorani Orange Coast Analytical, Inc. ADDRESS 3002 Dow St., Suite 532 Tustin, CA 92780 SAMPLED BY MO. OF SAMPLE **SAMPLE ID** PRES. CONTAINERS DATE REMARKS/PRECAUTIONS TIME MATRIX TYPE 3/14/03 4,2 11:30 11:40 1:10 poly Total No. of Samples: 2 19+ 1 trip blank) Method of Shipment: Repoquished By: Date/Time: Received By: Date/Time: Reporting Format: (check) NORMAL _____ S.D. HMMD Reinquished By: Date/Time: 3-18-03 Received By: Date/Time: **RWQCB OTHER** Retinquished By: Date/Time: Received For Lab By: Date/Time: 7 Sample Integrity: (check) intact _ on ice _ 80

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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

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	ORANGE COAST ANALYTIC
1	3002 Dow, Suite 532
	Tustin CA 92780

CAL, INC.

4620 E. Elwood, Suite 4 Phoenix, AZ 85040

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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

REQUIRED TAT: NOVMAL

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Lab Job No: .

CUSTOMER INFORMATION						FEDIENETA	Ş					/						
COMPANY: MILLOR BROOKS ENVINONMENT SEND REPORT TO: Elizabeth Robbins ADDRESS: 2124 main Street, Stez HB, CA 92448	HTU PROJ	ECT NAI	ME: KI	MKIE	Ra	N	يط				MIS	\$ /	/ /	/ /	/ /	/ /	/ /	/ / / /
SEND REPORT TO: Elizabeth Robbins	NUME	BER:	<u> 무</u> 야	7-00	02		<u>01</u>	<u>-</u>		∦ <u>.</u>		§ /						
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HB, CA 92098	_									1	6	\forall						//
PHONE: 714 9604088 FAX:	SAMP	LED BY	<i>'</i> :		1 /	(,\'/	/ /	/			/		′ /					
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Relinquished By: Date/Time:		Received By: Date/Tim								:				R	(WQ	СВ		OTHER
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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

REQUIRED TAT: Normal

Page.

Lab Job No:

CUSTOMER INFORMATION		PROJECT INFORMATION							3			/				
COMPANY: Miller Brooks Environment			untile] /	REGISTALING.	> /	63/	/	/	/ ,	Ι,	/ /	/ / /
SEND REPORT TO: Elizabeth Vabbins	NUN	IBER: 402	r-0 <i>0</i> 03	-67			ν.	<i></i>	/,	!/						
ADDRESS: 2124 manstreet, Ste 20	<u>ت ارود</u>	ATION: Siv	ni Val	ilen.	<u> </u>		3	# 4	3			/	/ ,	Ι,	/ /	/ /
HB, CA 92648	AUU	HESS;		/4	5/											
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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

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REQUIRED TAT:

Page ______ of ____

Normal

CUSTOMER INFORMATION			· · · · · · · · · · · · · · · · · · ·] ,	REDUEST HO.	3									
COMPANY: Miller Brown Env.		ECT NAME:	02-00 UNKLE	Ran	<u>ch</u>		//		>/	2			/		/ / / /
SEND REPORT TO: Elizabeth Vabbins ADDRESS: 2124 Man St. Ste. 200	LOCA	TION: S.	N1 U411	02-0	<u> </u>				/ <u>/</u>						/ / /
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PHONE: 714960-4088 FAX: 71496024	62 SAMP	LED BY: VM	for Can	field	R.Cov	reju_] [5							′ /
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				,							in	tact			on ice

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 **Tustin, CA 92780** (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

Lab Job No: _				
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Tustin, CA 92780 (714) 832-0064, Fax (714)	4) 832	-0067	7	Phoenix, (480) 736			(480	736-09	970			REQUI	RED 1	TAT:		Λ	lor	M	al	!			
CUSTOMER INFORMATION COMPANY: YMINEY BROOKS ENVIRONMENT SEND REPORT TO: ENZABOTH ROBBINS ADDRESS: 214 WAIN St., Ste 200 HB, CM 92648 PHONE: 714960-4088 FAX: 714960-2		PROJECT NUMBER LOCATIO ADDRESS	11 Lyr 11 Siv	PROJECT III LUNKL AIVAI AIVAI	e (02 Vey	Can -02 , CI	<u>-</u> '		WW.	SOJ REGISTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.4	7 //	T /.					/	7	4		
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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

	Page	of _
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HIRFN TAT-	Normal	

REQUIRED TAT:

Lab Job No:

CUSTOMER INFORMATION	,		PROJECT INF	ORMATIO	N /	. م	/			o/				//	//		
COMPANY: Miller Brooks ENVINTIMENTE	P ROJI	PROJECT INFORMATION JECT NAME: RUNKLe Canyon ATION: Simi Valley, CM RESS:									/ /	' /		' / /	/ /		
SEND REPORT TO: FILL always KODDINS	NUME	MBER: 402-0002-02							77								,
ADDRESS: 2124 Main Street, St 20	O LOCAT	NUMBER: 402-0002-02 LOCATION: SIM: VAI On CAT ADDRESS: SAMPLED BY: JON 11 FOR CAN FRED L. CONTAINER SERVICE SAMPLE SAMPLE CONTAINER SAMPLE SAMPLE CONTAINER								/ /	/ /	' /			/		
Huntington Beach, CA9264	ADDR							12	7								
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	CONTAINERS	3/13/03	TIME							f			<i></i>				
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MBE-7-7'			10:20		1			_ _		<u> </u>							
MBL-BSDEFALE			12:25		jar				<u> </u>	1							
MBE-8-3'			12:45		TING					1_							
MBC 8-7'			12:55		7												
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48E-5- 3'			2:33		ring												
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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

REQUIRED TAT: Normal

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CUSTOMER INFORMATION			PROJECT IN	IFORMATIO)N			MEDUES: THOS)			\int	///	// •	•
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APPENDIX C

8.0 DETERMINATION OF NATURAL TRITIUM

To further investigate the levels of tritium present in natural water in the local area, to permit some judgment as to what is "natural" and what is "artificial" tritium, the results identified by consideration of the previous plot as "natural" are displayed in Figure 8-1, as a cumulative probability plot. In this plot, an estimated Gaussian distribution, determined by a least-squares fit to the data, is shown by the diagonal straight line passing through the points. If the points were perfectly selected from a Gaussian distribution, the points would all be exactly on the line. The observed agreement is quite good.

This natural or background tritium set consists of the following samples and results (in pCi/L \pm 2-sigma):

1. 17th and G Streets surface drainage	42.9 ± 9.07
2. Chatsworth swimming pool	36.7 ± 9.50
3. Tap water from LADWP, Chatsworth	35.8 ± 8.54
4. R-2A pond (9/18/89)	34.0 ± 8.40
5. Bell Creek (9/18/89)	30.0 ± 8.12
6. Tap water from LADWP, Canoga Park	29.7 ± 10.1
7. ETEC Power Pak cooling tower water	28.8 ± 8.51
8. Arrowhead bottled drinking water	26.1 ± 7.69
9. R-2A pond (6/21/90)	20.8 ± 8.99
10. SRE pond (9/17/89)	20.1 ± 7.42
11. SRE pond (6/28/90)	19.1 ± 8.77
12. RMDF pond	17.0 ± 7.30
13. Ventura County Waterworks, Moorpark	16.6 ± 8.52
14. Rainfall (9/17/89)	15.8 ± 7.14
15. Canadian Glacier bottled drinking water	15.4 ± 8.31
16. WS-5 (depth to water 405 ft)	12.7 ± 8.37
17. RD-18 (depth to water 84 ft)	11.3 ± 8.08
18. RD-7 (depth to water 70 ft)	10.0 ± 7.96
19. Dead Water (UST)	8.86 ± 7.97
20. RD-25 (depth to water 50 ft)	8.73 ± 7.88

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21.	R-1 pond	7.55 ± 7.95
22.	RD-21 (depth to water 105 ft)	5.84 ± 7.72
23.	Dead Water (UST)	4.34 ± 3.27
24.	Dead Water (UST)	3.33 ± 3.13
25.	RD-25 (depth to water 50 ft)	3.24 ± 6.93
26.	Dead Water (UST)	1.99 ± 3.15
27.	Dead Water (UST)	1.50 ± 7.78
28.	Dead Water (UST)	0.53 ± 3.03
29.	RD-22 (depth to water 303 ft)	-0.58 ± 7.37
30.	Golden Wilderness bottled drinking water	-3.07 ± 7.32

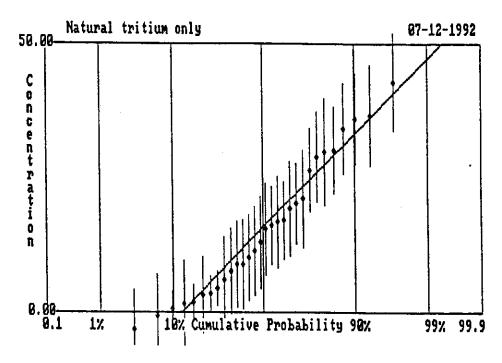


Figure 8-1. Cumulative Probability Plot of Results of Tritium-in-Water Analyses by U.S. Testing, Using Electrolytic Enrichment, for "Natural" Water Samples.

The Straight Line Through Most of the Data Points Represents an Approximate Gaussian Distribution