

Monday, May 04, 2009 6:19:46PM

John Naginis
Dept. of Toxic Substances Control-Chatsworth
9211 Oakdale Avenue
Chatsworth, CA 91311

RE: Runkle Canyon
Work Order: MSD0063

Enclosed are the results of analyses for samples received by the laboratory on 04/02/09 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tim Costello
Client Services Manager

CA ELAP Certificate # 2705

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

For Volatile Analysis a trip blank is required to be provided. If trip blank results are not included in the report, then either the trip blank was not submitted or requested to be analyzed.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Dept. of Toxic Substances Control-Chatsworth 9211 Oakdale Avenue Chatsworth CA, 91311	Project: Runkle Canyon Project Number: 08 SC0130 BERP-CA Project Manager: John Naginis	MSD0063 Reported: 05/04/09 18:19
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AS00870	MSD0063-01	Water	02/17/09 14:30	04/02/09 10:30
AS00871	MSD0063-02	Water	02/17/09 14:30	04/02/09 10:30

Dept. of Toxic Substances Control-Chatsworth 9211 Oakdale Avenue Chatsworth CA, 91311	Project: Runkle Canyon Project Number: 08 SC0130 BERP-CA Project Manager: John Naginis	MSD0063 Reported: 05/04/09 18:19
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AS00870 (MSD0063-01) Water Sampled: 02/17/09 14:30 Received: 04/02/09 10:30									
Mercury	ND	0.20	ug/l	1	9D30003	04/22/09	04/22/09	EPA 7470A	H3
Antimony	ND	1.0	"	"	9D08006	04/08/09	04/08/09	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	26	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.25	"	"	"	"	"	"	
Chromium	ND	2.0	"	"	"	"	"	"	
Cobalt	0.74	0.50	"	"	"	"	"	"	
Copper	4.1	0.50	"	"	"	"	"	"	
Lead	ND	0.50	"	"	"	"	"	"	
Molybdenum	ND	2.0	"	"	"	"	"	"	
Nickel	13	1.0	"	"	"	"	"	"	
Selenium	2.6	2.5	"	"	"	"	"	"	
Silver	ND	0.25	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	ND	5.0	"	"	"	"	"	"	
Zinc	7.8	5.0	"	"	"	"	"	"	
AS00871 (MSD0063-02) Water Sampled: 02/17/09 14:30 Received: 04/02/09 10:30									
Mercury	ND	0.20	ug/l	1	9D30003	04/22/09	04/22/09	EPA 7470A	H3
Antimony	ND	1.0	"	"	9D08006	04/08/09	04/08/09	EPA 6020	
Arsenic	ND	1.0	"	"	"	"	"	"	
Barium	23	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.25	"	"	"	"	"	"	
Chromium	ND	2.0	"	"	"	"	"	"	
Cobalt	ND	0.50	"	"	"	"	"	"	
Copper	4.0	0.50	"	"	"	"	"	"	
Lead	ND	0.50	"	"	"	"	"	"	
Molybdenum	ND	2.0	"	"	"	"	"	"	
Nickel	4.3	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Silver	ND	0.25	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	ND	5.0	"	"	"	"	"	"	
Zinc	ND	5.0	"	"	"	"	"	"	

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

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9D08006 - EPA 200.8/3005A / EPA 6020

Blank (9D08006-BLK1)

Prepared & Analyzed: 04/08/09

Antimony	ND	1.0	ug/l							
Arsenic	ND	1.0	"							
Barium	ND	1.0	"							
Cadmium	ND	0.25	"							
Chromium	ND	2.0	"							
Cobalt	ND	0.50	"							
Copper	ND	0.50	"							
Lead	ND	0.50	"							
Molybdenum	ND	2.0	"							
Nickel	ND	1.0	"							
Selenium	ND	2.5	"							
Silver	ND	0.25	"							
Thallium	ND	1.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	5.0	"							

Blank (9D08006-BLK1)

Prepared: 04/08/09 Analyzed: 04/09/09

Beryllium	ND	0.50	"							
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Laboratory Control Sample (9D08006-BS1)

Prepared & Analyzed: 04/08/09

Antimony	49.1	1.0	ug/l	50.0		98	85-115			
Arsenic	50.5	1.0	"	50.0		101	85-115			
Barium	48.5	1.0	"	50.0		97	80-115			
Cadmium	50.5	0.25	"	50.0		101	85-115			
Chromium	51.9	2.0	"	50.0		104	80-120			
Cobalt	52.0	0.50	"	50.0		104	85-115			
Copper	52.3	0.50	"	50.0		105	85-115			
Lead	51.2	0.50	"	50.0		102	85-120			
Molybdenum	49.1	2.0	"	50.0		98	85-115			
Nickel	51.7	1.0	"	50.0		103	85-115			
Selenium	51.6	2.5	"	50.0		103	85-115			
Silver	21.8	0.25	"	25.0		87	80-120			
Thallium	49.7	1.0	"	50.0		99	85-120			
Vanadium	49.4	5.0	"	50.0		99	80-115			
Zinc	53.3	5.0	"	50.0		107	85-125			

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

TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9D08006 - EPA 200.8/3005A / EPA 6020

Laboratory Control Sample (9D08006-BS1)

Prepared: 04/08/09 Analyzed: 04/09/09

Beryllium	56.2	0.50	ug/l	50.0		112	70-130			
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Matrix Spike (9D08006-MS1)

Source: MSD0094-01

Prepared: 04/08/09 Analyzed: 04/09/09

Antimony	49.1	1.0	ug/l	50.0	0.910	96	85-115			
Arsenic	64.9	1.0	"	50.0	21.8	86	85-115			
Barium	60.5	1.0	"	50.0	15.8	89	80-115			
Beryllium	46.4	0.50	"	50.0	0.147	93	70-130			
Cadmium	45.0	0.25	"	50.0	ND	90	85-115			
Chromium	43.7	2.0	"	50.0	1.60	84	80-120			
Cobalt	43.5	0.50	"	50.0	1.40	84	85-115			M2
Copper	54.9	0.50	"	50.0	15.5	79	85-115			M2
Lead	49.8	0.50	"	50.0	3.79	92	85-120			
Molybdenum	65.4	2.0	"	50.0	16.9	97	80-115			
Nickel	43.8	1.0	"	50.0	3.46	81	85-115			M2
Selenium	30.5	2.5	"	50.0	1.30	58	85-115			M2
Silver	19.1	0.25	"	25.0	0.0270	76	80-120			M2
Thallium	45.4	1.0	"	50.0	0.0920	91	85-120			
Vanadium	208	5.0	"	50.0	159	97	80-115			
Zinc	43.1	5.0	"	50.0	2.46	81	85-125			M2

Matrix Spike (9D08006-MS2)

Source: MSD0076-01

Prepared: 04/08/09 Analyzed: 04/09/09

Antimony	48.5	1.0	ug/l	50.0	ND	97	85-115			
Arsenic	47.7	1.0	"	50.0	0.268	95	85-115			
Barium	46.1	1.0	"	50.0	0.0850	92	80-115			
Beryllium	50.0	0.50	"	50.0	ND	100	70-130			
Cadmium	47.2	0.25	"	50.0	ND	94	85-115			
Chromium	50.5	2.0	"	50.0	1.83	97	80-120			
Cobalt	48.0	0.50	"	50.0	ND	96	85-115			
Copper	48.1	0.50	"	50.0	3.16	90	85-115			
Lead	47.9	0.50	"	50.0	ND	96	85-120			
Molybdenum	49.5	2.0	"	50.0	ND	99	80-115			
Nickel	47.2	1.0	"	50.0	0.122	94	85-115			
Selenium	46.9	2.5	"	50.0	0.970	92	85-115			
Silver	21.1	0.25	"	25.0	ND	84	80-120			
Thallium	46.8	1.0	"	50.0	ND	94	85-120			
Vanadium	47.3	5.0	"	50.0	ND	95	80-115			
Zinc	48.4	5.0	"	50.0	1.67	94	85-125			

TestAmerica Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Dept. of Toxic Substances Control-Chatsworth 9211 Oakdale Avenue Chatsworth CA, 91311	Project: Runkle Canyon Project Number: 08 SC0130 BERP-CA Project Manager: John Naginis	MSD0063 Reported: 05/04/09 18:19
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Total Metals by EPA 6000/7000 Series Methods - Quality Control TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9D08006 - EPA 200.8/3005A / EPA 6020

Matrix Spike Dup (9D08006-MSD1)	Source: MSD0094-01	Prepared: 04/08/09	Analyzed: 04/09/09							
Antimony	50.2	1.0	ug/l	50.0	0.910	99	85-115	2	20	
Arsenic	66.2	1.0	"	50.0	21.8	89	85-115	2	20	
Barium	60.6	1.0	"	50.0	15.8	90	80-115	0.2	20	
Beryllium	48.1	0.50	"	50.0	0.147	96	70-130	4	20	
Cadmium	45.6	0.25	"	50.0	ND	91	85-115	1	20	
Chromium	43.4	2.0	"	50.0	1.60	84	80-120	0.7	20	
Cobalt	43.9	0.50	"	50.0	1.40	85	85-115	0.9	20	
Copper	56.0	0.50	"	50.0	15.5	81	85-115	2	20	M2
Lead	51.0	0.50	"	50.0	3.79	94	85-120	2	20	
Molybdenum	67.4	2.0	"	50.0	16.9	101	80-115	3	20	
Nickel	44.2	1.0	"	50.0	3.46	81	85-115	0.8	20	M2
Selenium	31.4	2.5	"	50.0	1.30	60	85-115	3	20	M2
Silver	19.5	0.25	"	25.0	0.0270	78	80-120	2	20	M2
Thallium	46.3	1.0	"	50.0	0.0920	93	85-120	2	20	
Vanadium	207	5.0	"	50.0	159	95	80-115	0.5	10	
Zinc	43.5	5.0	"	50.0	2.46	82	85-125	0.9	20	M2

Batch 9D30003 - EPA 7470A / EPA 7470A

Blank (9D30003-BLK1)	Prepared & Analyzed: 04/22/09									
Mercury	ND	0.20	ug/l							
Laboratory Control Sample (9D30003-BS1)	Prepared & Analyzed: 04/22/09									
Mercury	7.94	0.20	ug/l							
Laboratory Control Sample Dup (9D30003-BSD1)	Prepared & Analyzed: 04/22/09									
Mercury	7.98	0.20	ug/l	80-120	0.5	25				

Dept. of Toxic Substances Control-Chatsworth
9211 Oakdale Avenue
Chatsworth CA, 91311

Project: Runkle Canyon
Project Number: 08 SC0130 BERP-CA
Project Manager: John Naginis

MSD0063
Reported:
05/04/09 18:19

Notes and Definitions

M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

H3 Sample was received and analyzed past holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MSD0063

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 08 SC0130 BERP-CA	ECL No.: AS00870 To AS00871	2. Page 1 of 1
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3. Requestor:(to Receive Results) a. Name: John Naginis	4. Project Name (if applicable): Runkle Canyon
b. Address: 9211 Oakdale Avenue (street number) Chatsworth, CA 91311 (city, state, zip)	5. TAT Level: 2
c. Phone: (818) 717-6626 (area code first) d. Fax: (818) 717-6629 (area code first)	
e. Email: Jnaginis @dtsc.ca.gov	

6. Sampling Information:	a. Date/Time Sampled: 02/17/09 (mm/dd/yy) 2:30 PM (##:## AM/PM)	7. Codes (select from drop down list or fill in if applicable)
b. Location: EPA ID No.		a. Unit BERP-Engineering & Geology
Site: Runkle Canyon		b. INDEX 5600
Address: Terminus of Sequoia Avenue (street number) Simi Valley, CA (city, state, zip)		c. PCA 12045
GPS-Lat: _____ GPS-Long: _____		d. MPC 329
GPS-Alt: _____ GPS-Depth: _____		e. SITE 301383-11
		f. County 56--Ventura

01
02

8. Samples:	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	SW-1		AS00870	Water	1 Liter Plastic	2	No Preservative
2	SW-2		AS00871	Water	1 Liter Plastic	2	No Preservative
3							
4							
5							
6							
7							
8							
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
pH for Liquid (9040B)	6010J-2 1,2		
Metals Scan (drinking water, 6020A)	1,2		
Other Metals:			
c. TCLP Analysis		d. Other Analysis	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Site Characterization

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)

12. Supplemental Requests: Enter sample IDs as described in Item 9	↓ E C L ↑	13. ECL Lab Remarks: To Test America, 4-1-09 for 6020A ONLY
Desired Analysis		Initials Date

14. Chain of Custody:			
Name	Title	Signature	Inclusive Dates of Custody
a. John Naginis	Senior Geologist	<i>John Naginis</i>	2/17/2009 to 2-18-09
b. Peter Wong	RS II	<i>Peter Wong</i>	2/18/09 to 4/1/09
c.			to
d. Juliett.	Lab Tech	<i>Juliett</i>	04/02/09 to 1030
e.			to
f.			to
g.			to

MSD0063

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

AUTHORIZATION REQUEST FORM (ARF)

SUPPLEMENTAL

(Check if Supplemental Requested)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required:
(for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush *Level 1 2 3

Requestor's Name: John Naginis Email: Jnaginis@dtsc.ca.gov Phone (818) 717-8626

Region: 03-Chatsworth Unit: BERP-Chatsworth Office Fax (818) 717-8629

Back-up Requestor: Norm Riley Phone (916) 327-4642

Site Name: Runkle Canyon AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type				Organic Analysis	Number of Samples/Type			
	Solid	Liquid	Water	Other		Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)					GRO (Gasoline, 8015B)				
Acidity (305-1)					DRO(Diesel) only (ECL816-M)				
Alkalinity (310-1)					Motor Oil only (ECL818-M)				
Anions by IC (9056)					DRO(Diesel) & Motor Oil (ECL816-M)				
Chromium VI(Cr ⁶⁺) by Colorimetric (7196A)					EthyleneGlycol (ECL772-M)				
Chromium VI(Cr ⁶⁺) in Water by IC (7199)					PBDEs (ECL750-M)				
Cyanides for Wastes,Leachates (9010B)					PCBs (8082)				
Hardness (130-2)					Pesticides - Chlorinated (8081A)				
Mercury(Hg) in (Semi)Solid Waste (7471A)					Pesticides - Organophosphate (8141A)				
Mercury(Hg) in Liquid Waste (7470A)					1,4-Dioxane (ECL830-S)				
Metals Screening by XRF					GC/MS Semivolatiles (8270C)				
Metals Scan (8010B, for As,Ba,Cu,Pb, etc)					Volatiles (8260B)				
Metals Scan (for Drinking water, 8020A)			2		HPLC Carbonyl Compounds (8316A)				
OrganoLead in Waste (ECLB38-M)					Explosives (8330)				
Particle Size (ECL740-S)					PAHs (8310)				
Perchlorate for Soil,Sludge (ECL955-M)					Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Perchlorate for Water (314-0)					Flash Point (1020A)				
pH (9040B, 9045C)					n-Hexane Extractables/TPH (1664)				
Total Dissolved Solids (160-1)					TXO-Total Halogens in Oil (ECL792-S)				
WET(ECL810-S) <input type="checkbox"/> Only if necessary <input type="checkbox"/> Do it regardless					(others, type in)				
(others, type in)					(others, type in)				
TCLP Analysis**					Other Analysis				
Metals <input type="checkbox"/> Only if necessary <input type="checkbox"/> Do it regardless					Fish Bioassay (Title 22)				
Mercury <input type="checkbox"/> Only if necessary <input type="checkbox"/> Do it regardless					Congener PCBs (ECL-CG-PCB)				
Volatiles <input type="checkbox"/> Only if necessary <input type="checkbox"/> Do it regardless					Congener PBDEs (ECL-CG-PBDE)				
Semivolatiles <input type="checkbox"/> Only if necessary <input type="checkbox"/> Do it regardless					(others, type in)				
(others, type in)					(others, type in)				

Analysis Objective: Evaluating Metals in Surface Water

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Please analyze with lower detection limit for drinking water standards.

Expected Sample Arrival Date: 03/26/09 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **08 TA 0130 BERP-CO**

Lab to Receive Sample(s):

Sample Management Officer (SMO): *JN*

To: Test America Inc.
885 Jarvis Drive
Morgan Hill, CA 95037
Attn: Tim Castello (408)782-8126

ARF's Revision No. Initials: Date:

ARF's Revision No. 2 Initials: Date:

Today's Date: 3/25/09 (mm/dd/yy)

Expiration Date: 4/06/09 (mm/dd/yy)

Check box if cancelled

Initials: Date:

ECL Personnel Confirmed: _____

If Sample(s) Directed to Contract Lab, Please Specify:
Reason:
ECL Contract Lab Manager Notification (for Rush or TAT Level = 1):

Turnaround Time (TAT): *Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: DISC
 REC. BY (PRINT) JULIE (H.)
 WORKORDER: MSD0063

DATE REC'D AT LAB: 4/2/09
 TIME REC'D AT LAB: 1030
 DATE LOGGED IN: 4/2/09

For Regulatory Purposes?
 DRINKING WATER
 WASTE WATER
 OTHER

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH**	SAMPLE MATRIX	DATE SAMPLED	Temp. >6°C	REMARKS: CONDITION
1. Custody Seal(s)	Present / Absent Intact / Broken*									
2. Chain-of-Custody	Present / Absent*									
3. Traffic Reports or Packing List:	Present / Absent									
4. Airbill / Sticker - Present / Absent	Present / Absent									
Tracking #	<u>868333415 (A02)</u>									
5. Sample Condition: Intact/Leaking*/Broken*	Yes/No*									
6. Samples labeled	Yes/No*									
7. Sample ID's listed on COC	Yes/No*									
8. Does Information on COC and sample labels agree?	Yes/No*									
9. Sample received within hold time:	Yes/No*									
10. Adequate sample volume received	Yes/No*									
11. Proper preservatives used	Yes/No*									
12. Trip Blank / Temp Blank Received?*	Yes/No*									
(circle which if yes)	Yes/No*									
3. Thermometer Used : IR-1 / IR-3 / Backup										
4. Cooler	RT** CF** CT**									
1.	<u>5.6</u> <u>-1.0</u> <u>4.6</u>									
2.										
3.										
4.										
5.										
5. Is/Are corrected temp 0-6°C? Yes/No*										
Exception (if any): Metals / Perchlorate /										
Within 24hrs of sampling-on ice / Problem COC										

(Handwritten notes in table cells)
 (H) poly wrap per sample
 JULIE H.
 SEE COC
 04/2/09
 YES

(Handwritten notes in remarks column)
 xsdht + prep
 HNSm/bk
 4/2/09
 -1500

** IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION
 *** CHECK SAMPLE PREP LOG IF NOT INDICATED
 **** Read Temperature/Correction Factor/Corrected Temperature