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ORIGINAL

0000023882

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AZ CORP COMMISSION
DOCUMENT CONTROL

BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

MARC SPITZER, Chairman
WILLIAM A. MUNDELL
JEFF HATCH-MILLER
MIKE GLEASON
KRISTIN K. MAYES

IN THE MATTER OF THE APPLICATION OF RED ROCK UTILITIES, LLC FOR A CERTIFICATE OF CONVENIENCE AND NECESSITY TO PROVIDE WATER AND WASTE WATER	Docket No. WS-04245A-04-0184 Decision No. 67409 **NOTICE OF FILING REPORT ON ARSENIC LEVELS OF PRODUCTION WELLS**

In satisfaction of Arizona Corporation Commission Decision No. 67409, Opinion and Order, p. 13, lines 21-22, Red Rock Utilities, LLC hereby files a copy of the report on the arsenic levels of the production wells.

DATED this 26th day of August, 2005.

LEWIS AND ROCA LLP

By Mary Beth Savel
Thomas H. Campbell
Mary Beth Savel
40 N. Central Avenue
Phoenix, Arizona 85004
Attorneys for Red Rock Utilities, LLC

183378.1

LEWIS AND ROCA LLP
LAWYERS

ORIGINAL AND 13 COPIES filed
this 26th day of August, 2005, with:

Arizona Corporation Commission
Utilities Division – Docket Control
1200 W. Washington Street
Phoenix, Arizona 85007

COPY delivered this 26th
day of August, 2005 to:

Mr. Brian K. Bozzo
Compliance Manager
Arizona Corporation Commission
1200 W. Washington Street
Utilities Division
Phoenix, AZ 85008

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Well #1

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

SAMPLES TO BE TAKEN AT SOURCE ONLY

PUBLIC WATER SYSTEM INFORMATION

TO BE FILLED OUT BY SYSTEM PERSONNEL

SYSTEM ID	SYSTEM NAME
	Red Rock-Diamond Venture
SAMPLE DATE	**SAMPLE TIME (24 HR CLOCK)**
10/15/03	10:15
OWNER/CONTACT PERSON NAME	**OWNER/CONTACT PERSON PHONE NUMBER**
Teri Thornsberry	520-625-1671
SAMPLING SITE ID	**OWNER/CONTACT FAX NUMBER**
POE#001	520-625-1922

SAMPLE COLLECTION POINT		I.D. NUMBER	SAMPLE TYPE	
X	POINT OF ENTRY	#001	X	COMPLIANCE MONITORING

NEW SYSTEM			
X	YES		NO

NEW P.O.E.			
X	YES		NO

ADEQ PROJECT NUMBER

WELL ID NUMBER
55-599556

SURFACE WATER INTAKE I.D. NO.

This form is intended to be completely filled out and **ALL** pages submitted together for all microbiological and chemical tests detailed on this form. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form. **ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.**

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION (MO - 248C)
3033 NORTH CENTRAL AVE.
PHOENIX, AZ 85012

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on Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
orate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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INORGANIC CHEMICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	TRIGGER VALUE	CONTAMINANT NAME	CONT CODE	TEST START DATE/TIME	ANALYSIS DATE/TIME	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
200.8	0.006		Antimony	1074		10/20/03	<0.0010		
200.8	0.05		Arsenic	1005		10/20/03	0.0018		
200.8	2.0		Barium	1010		10/20/03	0.15		
200.8	0.004		Beryllium	1075		10/20/03	<0.0010		
200.8	0.005		Cadmium	1015		10/20/03	<0.0010		
200.8	0.1		Chromium	1020		10/20/03	<0.0010		
200.8	1.3		Copper (Action Level)	1022		10/20/03	0.0018		
4500-CN E	0.2		Cyanide (as free cyanide)	1024		10/24/03	<0.020		
300.0	4.0		Fluoride	1025		10/16/03	0.49		
200.8	0.015		Lead (Action Level)	1030		10/20/03	<0.0010		
245.1	0.002		Mercury	1035		10/23/03	<0.00020		
200.8	0.1		Nickel	1036		10/20/03	0.0018		
300.0	10	5	Nitrate (as N)	1040	10/16/03 22:25	10/16/03 22:39	8.3		X
300.0	1	0.5	Nitrite (as N)	1041	10/16/03 22:25	10/16/03 22:39	<0.5		
200.8	0.05		Selenium	1045		10/20/03	<0.0010		
200.8	0.002		Thallium	1085		10/20/03	<0.0010		

CORROSIVITY CHEMICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	TRIGGER VALUE	CONTAMINANT NAME	CONT. CODE	TEST START DATE/TIME	ANALYSIS DATE/TIME	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
300.0			Sulfate	1055		10/16/03	74		
200.7			Sodium	1052		10/17/03	56		
E150.1			pH	1925		10/15/03	7.80		
2320B			Alkalinity	1927		10/17/03	140		
200.7			Hardness/Calcium	1918		10/17/03	160		
2330B			Langelier Index	1997		10/28/03	0.35		
			Temperature (°C)	1996		10/15/03	22.2		
2540C			Tot. Dissolved Solids	1930		10/21/03	340		

LABORATORY INFORMATION

TO BE FILLED OUT BY LABORATORY PERSONNEL

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 I	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Teresa Lial Cindy Bentley	pH and Temperature were performed in the field.	

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SYNTHETIC ORGANIC CHEMICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	TRIGGER VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
515.3	0.07	0.0001	2,4-D	2105	10/22/03	<0.0001		
515.3	0.05	0.0002	2,4,5-TP (Silvex)	2110	10/22/03	<0.0002		
505	0.003	0.001	Toxaphene	2020	10/18/03	<0.001		
525.2	0.002	0.0002	Alachlor	2051	10/21/03	<0.0002		
525.2	0.003	0.0001	Atrazine	2050	10/21/03	<0.0001		
531.1	0.04	0.0009	Carbofuran	2046	10/20/03	<0.0009		
515.3	0.001	0.00004	Pentachlorophenol	2326	10/22/03	<0.00004		
505	0.002	0.0002	Chlordane	2959	10/18/03	<0.0002		
504.1	0.0002	0.0002	Dibromochloropropane (DBCP)	2931	10/20/03	<0.00002		
504.1	0.00005	0.00001	Ethylene Dibromide (EDB)	2946	10/20/03	<0.00001		
525.2	0.0004	0.00004	Heptachlor	2065	10/21/03	<0.00004		
525.2	0.0002	0.00002	Heptachlor Epoxide	2067	10/21/03	<0.00002		
525.2	0.0002	0.00002	Lindane	2010	10/21/03	<0.00002		
	0.0005	0.0001	PCB:Polychlorinated Biphenyls*	2383				
525.2	0.0002	0.0002	Benzo(a)Pyrene	2306	10/21/03	<0.00002		
515.3	0.2	0.001	Dalapon	2031	10/22/03	<0.001		
525.2	0.006	0.0006	Di(2-ethylhexyl)phthalate	2039	10/21/03	<0.0006		
525.2	0.4	0.0006	Di(2-ethylhexyl)adipate	2035	10/21/03	<0.0006		
515.3	0.007	0.0002	Dinoseb	2041	10/22/03	<0.0002		
1613	$3x10^{-8}$	$5x10^{-9}$	2,3,7,8-TCDD (Dioxin)	2063	10/23/03	$< 5x10^{-9}$		
549.2	0.02	0.0004	Diquat	2032	10/21/03	<0.0004		
548.1	0.1	0.009	Endothall	2033	10/17/03	<0.009		
525.2	0.002	0.00001	Endrin	2005	10/21/03	<0.00001		
547	0.7	0.006	Glyphosate	2034	10/21/03	<0.006		
525.2	0.001	0.0001	Hexachlorobenzene	2274	10/21/03	<0.0001		
525.2	0.05	0.0001	Hexachlorocyclopentadiene	2042	10/21/03	<0.0001		
531.1	0.2	0.002	Oxamyl	2036	10/20/03	<0.002		
515.3	0.5	0.0001	Picloram	2040	10/22/03	<0.0001		
525.2	0.004	0.00007	Simazine	2037	10/21/03	<0.00007		
525.2	0.04	0.0001	Methoxychlor	2015	10/21/03	<0.0001		

*Aroclor results may be submitted in lieu of PCB

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 S	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Loreta Leal for Cindy Bentley	Methods 504.1, 505, 515.3, 525.2, 531.1, 547, 548.1 and 549.2 were performed by EHL (AZ0432). Method 1613 was performed by STL (AZ0616)	

AROCLOR (PCBs SCREENING TEST) ANALYSIS

ANALYSIS METHOD	TRIGGER VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS mg/L	EXCEEDS TRIGGER
505	0.00008	Aroclor 1016	2388	10/18/03	<0.00008	
505	0.02	Aroclor 1221	2390	10/18/03	<0.02	
505	0.0005	Aroclor 1232	2392	10/18/03	<0.0005	
505	0.0003	Aroclor 1242	2394	10/18/03	<0.0003	
505	0.0001	Aroclor 1248	2396	10/18/03	<0.0001	
505	0.0001	Aroclor 1254	2398	10/18/03	<0.0001	
505	0.0002	Aroclor 1260	2400	10/18/03	<0.0002	

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SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 S	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Teresa Hal for **Cindy Bentley**	Method 505 was performed by EHL (AZ0432).	

VOLATILE ORGANIC CHEMICALS ANALYSIS

ANALYSIS METHOD	MCL VALUE	MDL/TRIGGER VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
524.2	0.007	0.0005	1,1-Dichloroethylene	2977	10/17/03	<0.00050 (Q3)		
524.2	0.2	0.0005	1,1,1-Trichloroethane	2981	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	1,1,2-Trichloroethane	2985	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	1,2-Dichloroethane	2980	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	1,2-Dichloropropane	2983	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	Benzene	2990	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	Carbon Tetrachloride	2982	10/17/03	<0.00050 (Q3)		
524.2	0.07	0.0005	cis-1,2-Dichlorethylene	2380	10/17/03	<0.00050 (Q3)		
524.2	0.7	0.0005	Ethylbenzene	2992	10/17/03	<0.00050 (Q3)		
524.2	0.1	0.0005	(mono)Chlorobenzene	2989	10/17/03	<0.00050 (Q3)		
524.2	0.6	0.0005	o-Dichlorobenzene	2968	10/17/03	<0.00050 (Q3)		
524.2	0.075	0.0005	para-Dichlorobenzene	2969	10/17/03	<0.00050 (Q3)		
524.2	0.1	0.0005	Styrene	2996	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	Tetrachloroethylene	2987	10/17/03	<0.00050 (Q3)		
524.2	1	0.0005	Toluene	2991	10/17/03	<0.00050 (Q3)		
524.2	0.1	0.0005	trans-1,2-Dichloroethylene	2979	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	Trichloroethylene	2984	10/17/03	<0.00050 (Q3)		
524.2	0.002	0.0005	Vinyl Chloride	2976	10/17/03	<0.00050 (Q3)		
524.2	10	0.0005	Xylenes, total	2955	10/17/03	<0.00050 (Q3)		
524.2	0.07	0.0005	1,2,4-Trichlorobenzene	2378	10/17/03	<0.00050 (Q3)		
524.2	0.005	0.0005	Dichloromethane	2964	10/17/03	<0.00050 (Q3)		

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 V	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Teresa Hal for Cindy Bentley		

RADIOCHEMICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	MDL VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS	EXCEEDS MCL
600/00-02	15 Pci/l	3 Pci/L	Gross Alpha**	4000	10/17/03	6.0 ± 1.1	
	5 Pci/l		Combined Radium (226, 228)	4010	10/27/03	<0.3	
903.1		1 Pci/L	Radium 226	4020	10/27/03	<0.3	
904.0		1 Pci/L	Radium 228	4030	10/27/03	<0.3	
	4 mrem	3 Pci/L	Gross Beta	4100			
	20,000 Pci/L***		Tritium	4102			
	8 Pci/L***		Strontium-90	4174			

* A composite radiochemical sample means four quarterly samples from a single source only.

** Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reporte gross alpha value.

All units are reported in picocuries per liter (pCi/L) EXCEPT for gross beta which is reported in millirem per year.

These values are assumed to produce a total body or organ dose of 4 millirem per year.

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SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 R	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Lorena Leal for Cindy Bentley	The radiochemical analyses were performed by Radiation Safety (AZ0462).	

ASBESTOS ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULTS (MFL)	EXCEEDS MCL
100.1	7 MFL	Asbestos	1094	10/24/03	<0.2	

LABORATORY INFORMATION

TO BE FILLED OUT BY LABORATORY PERSONNEL

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 A	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0610	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Lorena Leal for Cindy Bentley	The asbestos analysis was performed by Fiberquant Analytical Services (AZ0633).	

MICROBIOLOGICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT. CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
9223B	PRESENT/ 1 or more Coliform	Total Coliform	3000	10/15/03 16:20	10/16/03 16:30	0

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT. CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
	PRESENT/ 1 or more Coliform	E.COLI or Fecal Coliform	3013			

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
0-310-0138-01 M	10/15/03	10:15
ID NUMBER	**NAME**	
AZ0609	**Aerotech Environmental Laboratories**	
AUTHORIZED SIGNATURE	**COMMENTS**	
Lorena Leal for Cindy Bentley		

WAR 9: REV 03/11/02

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Aerotech Environmental

Date: *11-Nov-03*

CLIENT:	YL Technology	**Client Sample ID:**	POE 001
Lab Order:	03100138	**Tag Number:**	
Project:	Red Rock- Diamond Venture New Source	**Collection Date:**	10/15/2003 10:15:00 AM
Lab ID:	03100138-01A	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL RECOVERABLE		**E200.7**				Analyst: **PR**
Calcium	64	2.0		mg/L	1	10/17/2003 8:58:07 PM
Hardness, Calcium (As CaCO3)	160	5.0		mg/L	1	10/17/2003 8:58:07 PM
Sodium	56	2.0		mg/L	1	10/17/2003 8:58:07 PM
ICP/MS METALS, TOTAL RECOVERABLE		**E200.8**				Analyst: **HK**
Antimony	< 0.0010	0.0010		mg/L	1	10/20/2003
Arsenic	0.0018	0.0010		mg/L	1	10/20/2003
Barium	0.15	0.0010		mg/L	1	10/20/2003
Beryllium	< 0.0010	0.0010		mg/L	1	10/20/2003
Cadmium	< 0.0010	0.0010		mg/L	1	10/20/2003
Chromium	< 0.0010	0.0010		mg/L	1	10/20/2003
Copper	0.0018	0.0010		mg/L	1	10/20/2003
Lead	< 0.0010	0.0010		mg/L	1	10/20/2003
Nickel	0.0018	0.0010		mg/L	1	10/20/2003
Selenium	< 0.0010	0.0010		mg/L	1	10/20/2003
Thallium	< 0.0010	0.0010		mg/L	1	10/20/2003
MERCURY, TOTAL		**E245.1**				Analyst: **CU**
Mercury	< 0.00020	0.00020		mg/L	1	10/23/2003
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1,1-Trichloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1,2-Trichloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1-Dichloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,1-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2,3-Trichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2,3-Trichloropropane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2,4-Trichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2,4-Trimethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	Q3	mg/L	1	10/17/2003
1,2-Dibromoethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2-Dichloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,2-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,3,5-Trimethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,3-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,3-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
1,4-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
2,2-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental

Date: *11-Nov-03*

CLIENT:	YL Technology	**Client Sample ID:**	POE 001
Lab Order:	03100138	**Tag Number:**	
Project:	Red Rock- Diamond Venture New Source	**Collection Date:**	10/15/2003 10:15:00 AM
Lab ID:	03100138-01A	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: JR
2-Chlorotoluene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
4-Chlorotoluene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
4-Isopropyltoluene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Benzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Bromobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Bromochloromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Bromodichloromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Bromoform	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Bromomethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Carbon tetrachloride	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Chlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Chloroethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Chloroform	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Chloromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
cis-1,2-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
cis-1,3-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Dibromochloromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Dibromomethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Dichlorodifluoromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Ethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Hexachlorobutadiene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Isopropylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
m,p-Xylene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Methylene chloride	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Naphthalene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
n-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
n-Propylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
o-Xylene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
sec-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Styrene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
tert-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Tetrachloroethene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Toluene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
trans-1,2-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
trans-1,3-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Trichloroethene	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Trichlorofluoromethane	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Trihalomethanes, Total	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Vinyl chloride	< 0.00050	0.00050	Q3	mg/L	1	10/17/2003
Surr: 1,2-Dichlorobenzene-d4	91.2	70-130		%REC	1	10/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Aerotech Environmental

Date: *11-Nov-03*

CLIENT:	YL Technology	**Client Sample ID:**	POE 001
Lab Order:	03100138	**Tag Number:**	
Project:	Red Rock- Diamond Venture New Source	**Collection Date:**	10/15/2003 10:15:00 AM
Lab ID:	03100138-01A	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
Surr: 4-Bromofluorobenzene	91.8	70-130		%REC	1	10/17/2003
CALCIUM CARBONATE SATURATION		**SM2330B**				Analyst: **TD**
Langelier Saturation Index	0.35			SI	1	10/28/2003
TEMPERATURE		**M2550B**				Analyst: **TT**
Temperature	22.2			°C	1	10/15/2003 10:15:00 AM
PH (MEASURED IN FIELD)		**E150.1**				Analyst: **TT**
pH	7.80	2.00		pH units	1	10/15/2003 10:15:00 AM
COLIFORM, TOTAL		**M9223 B**				Analyst: **JF**
Total Coliform (Colilert)	0			Pos/Neg	1	10/15/2003 4:20:00 PM
Escherichia Coli	0			Pos/Neg	1	10/15/2003 4:20:00 PM
ANIONS BY ION CHROMATOGRAPHY		**E300**				Analyst: **LB**
Fluoride	0.49	0.40		mg/L	1	10/16/2003 10:25:00 PM
Nitrogen, Nitrate (As N)	8.3	0.20		mg/L	1	10/16/2003 10:25:00 PM
Nitrogen, Nitrite (As N)	< 0.50	0.50		mg/L	1	10/16/2003 10:25:00 PM
Sulfate	74	2.0		mg/L	1	10/16/2003 10:25:00 PM
ALKALINITY		**M2320 B**				Analyst: **L M**
Alkalinity, Bicarbonate (As CaCO3)	140	2.0		mg/L CaCO3	1	10/17/2003 2:00:00 PM
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0		mg/L CaCO3	1	10/17/2003 2:00:00 PM
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0		mg/L CaCO3	1	10/17/2003 2:00:00 PM
Alkalinity, Total (As CaCO3)	140	6.0		mg/L CaCO3	1	10/17/2003 2:00:00 PM
CYANIDE, TOTAL		**M4500-CN E**				Analyst: **MT**
Cyanide, Total	< 0.020	0.020		mg/L	1	10/24/2003 10:00:00 AM
RESIDUE, FILTERABLE		**M2540 C**				Analyst: **AC**
Total Dissolved Solids	340	10		mg/L	1	10/21/2003

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Aerotech Environmental

Date: *11-Nov-03*

CLIENT: YL Technology
Lab Order: 03100138
Project: Red Rock- Diamond Venture New Source
Lab ID: 03100138-02A

Client Sample ID: Trip Blank
Tag Number:
Collection Date: 10/15/2003
Matrix: TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1,1-Trichloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1,2-Trichloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1-Dichloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1-Dichloroethene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,1-Dichloropropene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2,3-Trichlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2,3-Trichloropropane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2,4-Trichlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2,4-Trimethylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020		mg/L	1	10/17/2003
1,2-Dibromoethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2-Dichloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,2-Dichloropropane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,3,5-Trimethylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,3-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
1,3-Dichloropropane	< 0.00050	0.00050		mg/L	1	10/17/2003
1,4-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
2,2-Dichloropropane	< 0.00050	0.00050		mg/L	1	10/17/2003
2-Chlorotoluene	< 0.00050	0.00050		mg/L	1	10/17/2003
4-Chlorotoluene	< 0.00050	0.00050		mg/L	1	10/17/2003
4-Isopropyltoluene	< 0.00050	0.00050		mg/L	1	10/17/2003
Benzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Bromobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Bromochloromethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Bromodichloromethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Bromoform	< 0.00050	0.00050		mg/L	1	10/17/2003
Bromomethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Carbon tetrachloride	< 0.00050	0.00050		mg/L	1	10/17/2003
Chlorobenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Chloroethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Chloroform	< 0.00050	0.00050		mg/L	1	10/17/2003
Chloromethane	< 0.00050	0.00050		mg/L	1	10/17/2003
cis-1,2-Dichloroethene	< 0.00050	0.00050		mg/L	1	10/17/2003
cis-1,3-Dichloropropene	< 0.00050	0.00050		mg/L	1	10/17/2003
Dibromochloromethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Dibromomethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Dichlorodifluoromethane	< 0.00050	0.00050		mg/L	1	10/17/2003

Qualifiers:

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Aerotech Environmental

Date: *11-Nov-03*

CLIENT:	YL Technology	**Client Sample ID:**	Trip Blank
Lab Order:	03100138	**Tag Number:**	
Project:	Red Rock- Diamond Venture New Source	**Collection Date:**	10/15/2003
Lab ID:	03100138-02A	**Matrix:**	TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
Ethylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Hexachlorobutadiene	< 0.00050	0.00050		mg/L	1	10/17/2003
Isopropylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	10/17/2003
Methylene chloride	< 0.00050	0.00050		mg/L	1	10/17/2003
Naphthalene	< 0.00050	0.00050		mg/L	1	10/17/2003
n-Butylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
n-Propylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	10/17/2003
sec-Butylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Styrene	< 0.00050	0.00050		mg/L	1	10/17/2003
tert-Butylbenzene	< 0.00050	0.00050		mg/L	1	10/17/2003
Tetrachloroethene	< 0.00050	0.00050		mg/L	1	10/17/2003
Toluene	< 0.00050	0.00050		mg/L	1	10/17/2003
trans-1,2-Dichloroethene	< 0.00050	0.00050		mg/L	1	10/17/2003
trans-1,3-Dichloropropene	< 0.00050	0.00050		mg/L	1	10/17/2003
Trichloroethene	< 0.00050	0.00050		mg/L	1	10/17/2003
Trichlorofluoromethane	< 0.00050	0.00050		mg/L	1	10/17/2003
Trihalomethanes, Total	< 0.00050	0.00050		mg/L	1	10/17/2003
Vinyl chloride	< 0.00050	0.00050		mg/L	1	10/17/2003
Surr: 1,2-Dichlorobenzene-d4	92.4	70-130		%REC	1	10/17/2003
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	10/17/2003

Qualifiers:

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Date: *11-Nov-03*

CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID **MB-15221** SampType: **MBLK** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031017A**
Client ID: **ZZZZZ** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/17/2003** SeqNo: **472396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	< 2.0	2.0									
Hardness, Calcium (As CaCO3)	< 5.0	5.0									
Sodium	< 2.0	2.0									

Sample ID **LCS-15221** SampType: **LCS** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031017A**
Client ID: **ZZZZZ** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/17/2003** SeqNo: **472397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.62	2.0	10.5	0	101	85	115	0	0		
Sodium	10.43	2.0	10	0	104	85	115	0	0		

Sample ID **LCSD-15221** SampType: **LCSD** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031017A**
Client ID: **ZZZZZ** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/17/2003** SeqNo: **472398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.65	2.0	10.5	0	101	85	115	10.62	0.274	20	
Sodium	10.38	2.0	10	0	104	85	115	10.43	0.466	20	

Sample ID **03100138-01A MS** SampType: **MS** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031017A**
Client ID: **POE 001** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/17/2003** SeqNo: **472401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	74.34	2.0	10.5	63.61	102	70	130	0	0		
Sodium	69.6	2.0	10	55.64	140	70	130	0	0		M6

Qualifiers:
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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID **03100963-04A MS** SampType: **MS** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031021A**
Client ID: **ZZZZZ** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/21/2003** SeqNo: **473945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	50.08	2.0	10.5	37.99	115	70	130	0	0		
Sodium	28.84	2.0	10	16.32	125	70	130	0	0		

Sample ID **03100138-01A MSD** SampType: **MSD** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031017A**
Client ID: **POE 001** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/17/2003** SeqNo: **472402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	73.53	2.0	10.5	63.61	94.5	70	130	74.34	1.09	20	
Sodium	68.36	2.0	10	55.64	127	70	130	69.6	1.79	20	

Sample ID **03100963-04A MSD** SampType: **MSD** TestCode: **200.7** Units: **mg/L** Prep Date: **10/16/2003** Run ID: **ICP001_031021A**
Client ID: **ZZZZZ** Batch ID: **15221** TestNo: **E200.7** Analysis Date: **10/21/2003** SeqNo: **473946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	49.84	2.0	10.5	37.99	113	70	130	50.08	0.471	20	
Sodium	28.94	2.0	10	16.32	126	70	130	28.84	0.321	20	

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID	MB-15235	SampType:	MBLK	TestCode:	200.8	Units:	mg/L	Prep Date:	10/17/2003	Run ID:	ICP/MS_031020A
Client ID:	ZZZZZ	Batch ID:	15235	TestNo:	E200.8			Analysis Date:	10/20/2003	SeqNo:	473178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	< 0.0010	0.0010									
Arsenic	< 0.0010	0.0010									
Barium	< 0.0010	0.0010									
Beryllium	< 0.0010	0.0010									
Cadmium	< 0.0010	0.0010									
Chromium	< 0.0010	0.0010									
Copper	< 0.0010	0.0010									
Lead	< 0.0010	0.0010									
Nickel	< 0.0010	0.0010									
Selenium	< 0.0010	0.0010									
Thallium	< 0.0010	0.0010									

Sample ID	LCS-15235	SampType:	LCS	TestCode:	200.8	Units:	mg/L	Prep Date:	10/17/2003	Run ID:	ICP/MS_031020A
Client ID:	ZZZZZ	Batch ID:	15235	TestNo:	E200.8			Analysis Date:	10/20/2003	SeqNo:	473170

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.0548	0.0010	0.05	0	110	85	115	0	0		
Arsenic	0.05504	0.0010	0.05	0	110	85	115	0	0		
Barium	0.05351	0.0010	0.05	0	107	85	115	0	0		
Beryllium	0.05329	0.0010	0.05	0	107	85	115	0	0		
Cadmium	0.05259	0.0010	0.05	0	105	85	115	0	0		
Chromium	0.05383	0.0010	0.05	0	108	85	115	0	0		
Copper	0.05375	0.0010	0.05	0	108	85	115	0	0		
Lead	0.05247	0.0010	0.05	0	105	85	115	0	0		
Nickel	0.05139	0.0010	0.05	0	103	85	115	0	0		
Selenium	0.05378	0.0010	0.05	0	108	85	115	0	0		
Thallium	0.05238	0.0010	0.05	0	105	85	115	0	0		

Qualifiers:
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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID **LCSD-15235** SampType: **LCSD** TestCode: **200.8** Units: **mg/L** Prep Date: **10/17/2003** Run ID: **ICP/MS_031020A**
Client ID: **ZZZZZ** Batch ID: **15235** TestNo: **E200.8** Analysis Date: **10/20/2003** SeqNo: **473173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05459	0.0010	0.05	0	109	85	115	0.0548	0.384	20	
Arsenic	0.05435	0.0010	0.05	0	109	85	115	0.05504	1.26	20	
Barium	0.05347	0.0010	0.05	0	107	85	115	0.05351	0.0748	20	
Beryllium	0.05318	0.0010	0.05	0	106	85	115	0.05329	0.207	20	
Cadmium	0.0524	0.0010	0.05	0	105	85	115	0.05259	0.362	20	
Chromium	0.05345	0.0010	0.05	0	107	85	115	0.05383	0.708	20	
Copper	0.05297	0.0010	0.05	0	106	85	115	0.05375	1.46	20	
Lead	0.05256	0.0010	0.05	0	105	85	115	0.05247	0.171	20	
Nickel	0.05092	0.0010	0.05	0	102	85	115	0.05139	0.919	20	
Selenium	0.05333	0.0010	0.05	0	107	85	115	0.05378	0.840	20	
Thallium	0.05243	0.0010	0.05	0	105	85	115	0.05238	0.0954	20	

Sample ID **03100147-01A MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **10/17/2003** Run ID: **ICP/MS_031020A**
Client ID: **ZZZZZ** Batch ID: **15235** TestNo: **E200.8** Analysis Date: **10/20/2003** SeqNo: **473095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05411	0.0010	0.05	0	108	70	130	0	0		
Arsenic	0.05766	0.0010	0.05	0	115	70	130	0	0		
Cadmium	0.0505	0.0010	0.05	0	101	70	130	0	0		
Chromium	0.05415	0.0010	0.05	0	108	70	130	0	0		
Copper	0.05146	0.0010	0.05	0.00244	98	70	130	0	0		
Lead	0.05022	0.0010	0.05	0	100	70	130	0	0		
Selenium	0.05536	0.0010	0.05	0	111	70	130	0	0		
Thallium	0.05055	0.0010	0.05	0	101	70	130	0	0		

Qualifiers:
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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID **03101048-01A MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **10/17/2003** Run ID: **ICP/MS_031020A**
Client ID: **ZZZZZ** Batch ID: **15235** TestNo: **E200.8** Analysis Date: **10/20/2003** SeqNo: **473136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05446	0.0010	0.05	0	109	70	130	0	0		
Arsenic	0.05755	0.0010	0.05	0	115	70	130	0	0		
Barium	0.07255	0.0010	0.05	0.01942	106	70	130	0	0		
Beryllium	0.0556	0.0010	0.05	0	111	70	130	0	0		
Cadmium	0.05201	0.0010	0.05	0	104	70	130	0	0		
Chromium	0.06005	0.0010	0.05	0.0022	116	70	130	0	0		
Copper	0.07525	0.0010	0.05	0.02193	107	70	130	0	0		
Lead	0.05343	0.0010	0.05	0.00155	104	70	130	0	0		
Nickel	0.05912	0.0010	0.05	0.00587	107	70	130	0	0		
Selenium	0.05479	0.0010	0.05	0	110	70	130	0	0		
Thallium	0.05148	0.0010	0.05	0	103	70	130	0	0		

Sample ID **03100147-01A MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **10/17/2003** Run ID: **ICP/MS_031020A**
Client ID: **ZZZZZ** Batch ID: **15235** TestNo: **E200.8** Analysis Date: **10/20/2003** SeqNo: **473096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05406	0.0010	0.05	0	108	70	130	0.05411	0.0924	20	
Arsenic	0.05761	0.0010	0.05	0	115	70	130	0.05766	0.0868	20	
Cadmium	0.05069	0.0010	0.05	0	101	70	130	0.0505	0.376	20	
Chromium	0.05514	0.0010	0.05	0	110	70	130	0.05415	1.81	20	
Copper	0.05188	0.0010	0.05	0.00244	98.9	70	130	0.05146	0.813	20	
Lead	0.0502	0.0010	0.05	0	100	70	130	0.05022	0.0398	20	
Selenium	0.05617	0.0010	0.05	0	112	70	130	0.05536	1.45	20	
Thallium	0.05042	0.0010	0.05	0	101	70	130	0.05055	0.258	20	

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID **03101048-01A MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **10/17/2003** Run ID: **ICP/MS_031020A**
Client ID: **ZZZZZ** Batch ID: **15235** TestNo: **E200.8** Analysis Date: **10/20/2003** SeqNo: **473137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05398	0.0010	0.05	0	108	70	130	0.05446	0.885	20	
Arsenic	0.05764	0.0010	0.05	0	115	70	130	0.05755	0.156	20	
Barium	0.07149	0.0010	0.05	0.01942	104	70	130	0.07255	1.47	20	
Beryllium	0.05588	0.0010	0.05	0	112	70	130	0.0556	0.502	20	
Cadmium	0.05139	0.0010	0.05	0	103	70	130	0.05201	1.20	20	
Chromium	0.05836	0.0010	0.05	0.0022	112	70	130	0.06005	2.85	20	
Copper	0.07508	0.0010	0.05	0.02193	106	70	130	0.07525	0.226	20	
Lead	0.05261	0.0010	0.05	0.00155	102	70	130	0.05343	1.55	20	
Nickel	0.0588	0.0010	0.05	0.00587	106	70	130	0.05912	0.543	20	
Selenium	0.05449	0.0010	0.05	0	109	70	130	0.05479	0.549	20	
Thallium	0.05132	0.0010	0.05	0	103	70	130	0.05148	0.311	20	

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W

Sample ID **MB-15279** SampType: **MBLK** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.00020									

Sample ID **LCS-15279** SampType: **LCS** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00507	0.00020	0.005	0	101	85	115	0	0		

Sample ID **LCSD-15279** SampType: **LCSD** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00526	0.00020	0.005	0	105	85	115	0.00507	3.68	20	

Sample ID **03100963-08AMS** SampType: **MS** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00544	0.00020	0.005	0	109	70	130	0	0		

Sample ID **03100985-01AMS** SampType: **MS** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00537	0.00020	0.005	0	107	70	130	0	0		

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CLIENT: YL Technology
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Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W

Sample ID **03100963-08AMSD** SampType: **MSD** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00545	0.00020	0.005	0	109	70	130	0.00544	0.184	20	

Sample ID **03100985-01AMSD** SampType: **MSD** TestCode: **245.1_W** Units: **mg/L** Prep Date: **10/22/2003** Run ID: **FIMS HG_031023A**
Client ID: **ZZZZZ** Batch ID: **15279** TestNo: **E245.1** Analysis Date: **10/23/2003** SeqNo: **475381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00533	0.00020	0.005	0	107	70	130	0.00537	0.748	20	

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CLIENT: YL Technology
Work Order: 03100138
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID **MB-R40265** SampType: **MBLK** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	< 0.40	0.40									
Nitrogen, Nitrate (As N)	< 0.20	0.20									
Nitrogen, Nitrite (As N)	< 0.20	0.20									
Sulfate	< 2.0	2.0									

Sample ID **LCS-R40265** SampType: **LCS** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.94	0.40	2	0	97	90	110	0	0		
Nitrogen, Nitrate (As N)	2.06	0.20	2	0	103	90	110	0	0		
Nitrogen, Nitrite (As N)	2.05	0.20	2	0	103	90	110	0	0		
Sulfate	10.36	2.0	10	0	104	90	110	0	0		N1

Sample ID **LCSD-R40265** SampType: **LCSD** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.92	0.40	2	0	96	90	110	1.94	1.04	20	
Nitrogen, Nitrate (As N)	2.08	0.20	2	0	104	90	110	2.06	0.966	20	
Nitrogen, Nitrite (As N)	2.03	0.20	2	0	102	90	110	2.05	0.980	20	
Sulfate	10.37	2.0	10	0	104	90	110	10.36	0.0965	20	N1

Sample ID **03100141-01AMS** SampType: **MS** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	2.23	0.40	2	0.4	91.5	80	120	0	0		

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CLIENT: YL Technology
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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID **03100141-01AMS** SampType: **MS** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.32	0.20	2	2.73	79.5	80	120	0	0		M7
Nitrogen, Nitrite (As N)	1.93	0.20	2	0	96.5	80	120	0	0		

Sample ID **03100141-01ADUP** SampType: **DUP** TestCode: **300_W** Units: **mg/L** Prep Date: Run ID: **IC 1_031016A**
Client ID: **ZZZZZ** Batch ID: **R40265** TestNo: **E300** Analysis Date: **10/16/2003** SeqNo: **473319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.44	0.40	0	0	0	0	0	0.4	9.52	20	
Nitrogen, Nitrate (As N)	2.73	0.20	0	0	0	0	0	2.73	0	20	
Nitrogen, Nitrite (As N)	< 0.20	0.20	0	0	0	0	0	0	0	20	

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CLIENT: YL Technology
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Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID MB-R40220	SampType: MBLK	TestCode: 524_W_SDW	Units: mg/L	Prep Date:	Run ID: MS02_031017A
Client ID: ZZZZZ	Batch ID: R40220	TestNo: E524.2		Analysis Date: 10/17/2003	SeqNo: 472813

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050									
1,1,1-Trichloroethane	< 0.00050	0.00050									
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050									
1,1,2-Trichloroethane	< 0.00050	0.00050									
1,1-Dichloroethane	< 0.00050	0.00050									
1,1-Dichloroethene	< 0.00050	0.00050									
1,1-Dichloropropene	< 0.00050	0.00050									
1,2,3-Trichlorobenzene	< 0.00050	0.00050									
1,2,3-Trichloropropane	< 0.00050	0.00050									
1,2,4-Trichlorobenzene	< 0.00050	0.00050									
1,2,4-Trimethylbenzene	< 0.00050	0.00050									
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020									
1,2-Dibromoethane	< 0.00050	0.00050									
1,2-Dichlorobenzene	< 0.00050	0.00050									
1,2-Dichloroethane	< 0.00050	0.00050									
1,2-Dichloropropane	< 0.00050	0.00050									
1,3,5-Trimethylbenzene	< 0.00050	0.00050									
1,3-Dichlorobenzene	< 0.00050	0.00050									
1,3-Dichloropropane	< 0.00050	0.00050									
1,4-Dichlorobenzene	< 0.00050	0.00050									
2,2-Dichloropropane	< 0.00050	0.00050									
2-Chlorotoluene	< 0.00050	0.00050									
4-Chlorotoluene	< 0.00050	0.00050									
4-Isopropyltoluene	< 0.00050	0.00050									
Benzene	< 0.00050	0.00050									
Bromobenzene	< 0.00050	0.00050									
Bromochloromethane	< 0.00050	0.00050									
Bromodichloromethane	< 0.00050	0.00050									

Qualifiers:
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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID **MB-R40220**	SampType: **MBLK**	TestCode: **524_W_SDW**	Units: **mg/L**	Prep Date:	Run ID: **MS02_031017A**
Client ID: **ZZZZZ**	Batch ID: **R40220**	TestNo: **E524.2**		Analysis Date: **10/17/2003**	SeqNo: **472813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	< 0.00050	0.00050									
Bromomethane	< 0.00050	0.00050									
Carbon tetrachloride	< 0.00050	0.00050									
Chlorobenzene	< 0.00050	0.00050									
Chloroethane	< 0.00050	0.00050									
Chloroform	< 0.00050	0.00050									
Chloromethane	< 0.00050	0.00050									
cis-1,2-Dichloroethene	< 0.00050	0.00050									
cis-1,3-Dichloropropene	< 0.00050	0.00050									
Dibromochloromethane	< 0.00050	0.00050									
Dibromomethane	< 0.00050	0.00050									
Dichlorodifluoromethane	< 0.00050	0.00050									
Ethylbenzene	< 0.00050	0.00050									
Hexachlorobutadiene	< 0.00050	0.00050									
Isopropylbenzene	< 0.00050	0.00050									
m,p-Xylene	< 0.00050	0.00050									
Methylene chloride	< 0.00050	0.00050									
Naphthalene	< 0.00050	0.00050									
n-Butylbenzene	< 0.00050	0.00050									
n-Propylbenzene	< 0.00050	0.00050									
o-Xylene	< 0.00050	0.00050									
sec-Butylbenzene	< 0.00050	0.00050									
Styrene	< 0.00050	0.00050									
tert-Butylbenzene	< 0.00050	0.00050									
Tetrachloroethene	< 0.00050	0.00050									
Toluene	< 0.00050	0.00050									
trans-1,2-Dichloroethene	< 0.00050	0.00050									
trans-1,3-Dichloropropene	< 0.00050	0.00050									

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID **MB-R40220** SampType: **MBLK** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: Run ID: **MS02_031017A**
Client ID: **ZZZZZ** Batch ID: **R40220** TestNo: **E524.2** Analysis Date: **10/17/2003** SeqNo: **472813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	< 0.00050	0.00050									
Trichlorofluoromethane	< 0.00050	0.00050									
Trihalomethanes, Total	< 0.00050	0.00050									
Vinyl chloride	< 0.00050	0.00050									
Surr: 1,2-Dichlorobenzene-d4	0.00482	0	0.005	0	96.4	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.0048	0	0.005	0	96	70	130	0	0		

Sample ID **LCS-R40220** SampType: **LCS** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: Run ID: **MS02_031017A**
Client ID: **ZZZZZ** Batch ID: **R40220** TestNo: **E524.2** Analysis Date: **10/17/2003** SeqNo: **472814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00474	0.00050	0.005	0	94.8	70	130	0	0		
1,1,1-Trichloroethane	0.00484	0.00050	0.005	0	96.8	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.00497	0.00050	0.005	0	99.4	70	130	0	0		
1,1,2-Trichloroethane	0.00484	0.00050	0.005	0	96.8	70	130	0	0		
1,1-Dichloroethane	0.00488	0.00050	0.005	0	97.6	70	130	0	0		
1,1-Dichloroethene	0.00499	0.00050	0.005	0	99.8	70	130	0	0		
1,1-Dichloropropene	0.00494	0.00050	0.005	0	98.8	70	130	0	0		
1,2,3-Trichlorobenzene	0.00475	0.00050	0.005	0	95	70	130	0	0		
1,2,3-Trichloropropane	0.00505	0.00050	0.005	0	101	70	130	0	0		
1,2,4-Trichlorobenzene	0.00459	0.00050	0.005	0	91.8	70	130	0	0		
1,2,4-Trimethylbenzene	0.00488	0.00050	0.005	0	97.6	70	130	0	0		
1,2-Dibromo-3-chloropropane	0.00463	0.0020	0.005	0	92.6	70	130	0	0		
1,2-Dibromoethane	0.00477	0.00050	0.005	0	95.4	70	130	0	0		
1,2-Dichlorobenzene	0.00482	0.00050	0.005	0	96.4	70	130	0	0		
1,2-Dichloroethane	0.00486	0.00050	0.005	0	97.2	70	130	0	0		
1,2-Dichloropropane	0.00492	0.00050	0.005	0	98.4	70	130	0	0		
1,3,5-Trimethylbenzene	0.00489	0.00050	0.005	0	97.8	70	130	0	0		

Qualifiers:
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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID LCS-R40220 | SampType: LCS | TestCode: 524_W_SDW | Units: mg/L | Prep Date: | Run ID: MS02_031017A
Client ID: ZZZZZ | Batch ID: R40220 | TestNo: E524.2 | Analysis Date: 10/17/2003 | SeqNo: 472814

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.0048	0.00050	0.005	0	96	70	130	0	0		
1,3-Dichloropropane	0.00485	0.00050	0.005	0	97	70	130	0	0		
1,4-Dichlorobenzene	0.00481	0.00050	0.005	0	96.2	70	130	0	0		
2,2-Dichloropropane	0.00476	0.00050	0.005	0	95.2	70	130	0	0		
2-Chlorotoluene	0.00485	0.00050	0.005	0	97	70	130	0	0		
4-Chlorotoluene	0.00484	0.00050	0.005	0	96.8	70	130	0	0		
4-Isopropyltoluene	0.00489	0.00050	0.005	0	97.8	70	130	0	0		
Benzene	0.00494	0.00050	0.005	0	98.8	70	130	0	0		
Bromobenzene	0.00476	0.00050	0.005	0	95.2	70	130	0	0		
Bromochloromethane	0.0049	0.00050	0.005	0	98	70	130	0	0		
Bromodichloromethane	0.00488	0.00050	0.005	0	97.6	70	130	0	0		
Bromoform	0.00469	0.00050	0.005	0	93.8	70	130	0	0		
Bromomethane	0.00492	0.00050	0.005	0	98.4	70	130	0	0		
Carbon tetrachloride	0.00483	0.00050	0.005	0	96.6	70	130	0	0		
Chlorobenzene	0.00483	0.00050	0.005	0	96.6	70	130	0	0		
Chloroethane	0.0051	0.00050	0.005	0	102	70	130	0	0		
Chloroform	0.0049	0.00050	0.005	0	98	70	130	0	0		
Chloromethane	0.00559	0.00050	0.005	0	112	70	130	0	0		
cis-1,2-Dichloroethene	0.00497	0.00050	0.005	0	99.4	70	130	0	0		
cis-1,3-Dichloropropene	0.00482	0.00050	0.005	0	96.4	70	130	0	0		
Dibromochloromethane	0.00477	0.00050	0.005	0	95.4	70	130	0	0		
Dibromomethane	0.00482	0.00050	0.005	0	96.4	70	130	0	0		
Dichlorodifluoromethane	0.00494	0.00050	0.005	0	98.8	70	130	0	0		
Ethylbenzene	0.00488	0.00050	0.005	0	97.6	70	130	0	0		
Hexachlorobutadiene	0.0046	0.00050	0.005	0	92	70	130	0	0		
Isopropylbenzene	0.00493	0.00050	0.005	0	98.6	70	130	0	0		
m,p-Xylene	0.0099	0.00050	0.01	0	99	70	130	0	0		
Methylene chloride	0.00487	0.00050	0.005	0	97.4	70	130	0	0		

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID **LCS-R40220** SampType: **LCS** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: Run ID: **MS02_031017A**
Client ID: **ZZZZZ** Batch ID: **R40220** TestNo: **E524.2** Analysis Date: **10/17/2003** SeqNo: **472814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.00477	0.00050	0.005	0	95.4	70	130	0	0		
n-Butylbenzene	0.00493	0.00050	0.005	0	98.6	70	130	0	0		
n-Propylbenzene	0.00487	0.00050	0.005	0	97.4	70	130	0	0		
o-Xylene	0.00491	0.00050	0.005	0	98.2	70	130	0	0		
sec-Butylbenzene	0.00496	0.00050	0.005	0	99.2	70	130	0	0		
Styrene	0.00486	0.00050	0.005	0	97.2	70	130	0	0		
tert-Butylbenzene	0.00489	0.00050	0.005	0	97.8	70	130	0	0		
Tetrachloroethene	0.00474	0.00050	0.005	0	94.8	70	130	0	0		
Toluene	0.00492	0.00050	0.005	0	98.4	70	130	0	0		
trans-1,2-Dichloroethene	0.005	0.00050	0.005	0	100	70	130	0	0		
trans-1,3-Dichloropropene	0.00477	0.00050	0.005	0	95.4	70	130	0	0		
Trichloroethene	0.00492	0.00050	0.005	0	98.4	70	130	0	0		
Trichlorofluoromethane	0.00502	0.00050	0.005	0	100	70	130	0	0		
Vinyl chloride	0.00211	0.00050	0.002	0	106	70	130	0	0		
Surr: 1,2-Dichlorobenzene-d4	0.0047	0	0.005	0	94	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.00471	0	0.005	0	94.2	70	130	0	0		

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CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: ALKALINITY

Sample ID **MB-R40183** SampType: **MBLK** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **ZZZZZ** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0									
Alkalinity, Total (As CaCO3)	< 6.0	6.0									

Sample ID **MB-R40183** SampType: **MBLK** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **ZZZZZ** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0									
Alkalinity, Total (As CaCO3)	< 6.0	6.0									

Sample ID **LCS-R40183** SampType: **LCS** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **ZZZZZ** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	256	6.0	250	0	102	90	110	0	0		

Sample ID **LCS-R40183** SampType: **LCS** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **ZZZZZ** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	254	6.0	250	0	102	90	110	0	0		

Qualifiers:
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Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: ALKALINITY

Sample ID **03100138-01A DUP** SampType: **DUP** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **POE 001** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	146	2.0	0	0	0	0	0	144	1.38	20	
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0	0	0	0	0	0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0	0	0	0	0	0	0	0	20	
Alkalinity, Total (As CaCO3)	146	6.0	0	0	0	0	0	144	1.38	20	

Sample ID **03100963-03A DUP** SampType: **DUP** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: Run ID: **BURET 1_031017B**
Client ID: **ZZZZZ** Batch ID: **R40183** TestNo: **M2320 B** Analysis Date: **10/17/2003** SeqNo: **472211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	298	2.0	0	0	0	0	0	300	0.669	20	
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0	0	0	0	0	0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0	0	0	0	0	0	0	0	20	
Alkalinity, Total (As CaCO3)	298	6.0	0	0	0	0	0	300	0.669	20	

Qualifiers:
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Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: Cyanide_W

Sample ID **MB-R40508** SampType: **MBLK** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	< 0.020	0.020									

Sample ID **LCS-R40508** SampType: **LCS** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.186	0.020	0.2	0	93	90	110	0	0		

Sample ID **LCSD-R40508** SampType: **LCSD** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.193	0.020	0.2	0	96.5	90	110	0.186	3.69	20	

Sample ID **03100948-01A MS** SampType: **MS** TestCode: **CYANIDE_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.147	0.020	0.2	0	73.5	80	120	0	0		M7

Sample ID **03100963-05A MS** SampType: **MS** TestCode: **CYANIDE_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.193	0.020	0.2	0	96.5	80	120	0	0		

Qualifiers:
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J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

ain Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 850- hone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.c
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: Cyanide_W

Sample ID **03100948-01A MSD** SampType: **MSD** TestCode: **CYANIDE_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476796**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.17	0.020	0.2	0	85	80	120	0.147	14.5	20	

Sample ID **03100963-05A MSD** SampType: **MSD** TestCode: **CYANIDE_W** Units: **mg/L** Prep Date: Run ID: **SPEC 1_031024A**
Client ID: **ZZZZZ** Batch ID: **R40508** TestNo: **M4500-CN E** Analysis Date: **10/24/2003** SeqNo: **476799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.193	0.020	0.2	0	96.5	80	120	0.193	0	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

.in Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 8504 ione: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.c
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

CLIENT: YL Technology
Work Order: 03100138
Project: Red Rock- Diamond Venture New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID **MB-R40358** SampType: **MBLK** TestCode: **S_TDS** Units: **mg/L** Prep Date: Run ID: **BL002_031021A**
Client ID: **ZZZZZ** Batch ID: **R40358** TestNo: **M2540 C** Analysis Date: **10/21/2003** SeqNo: **474876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 10	10									

Sample ID **LCS-R40358** SampType: **LCS** TestCode: **S_TDS** Units: **mg/L** Prep Date: Run ID: **BL002_031021A**
Client ID: **ZZZZZ** Batch ID: **R40358** TestNo: **M2540 C** Analysis Date: **10/21/2003** SeqNo: **474875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	949	10	1000	0	94.9	90	110	0	0		

Sample ID **LCSD-R40358** SampType: **LCSD** TestCode: **S_TDS** Units: **mg/L** Prep Date: Run ID: **BL002_031021A**
Client ID: **ZZZZZ** Batch ID: **R40358** TestNo: **M2540 C** Analysis Date: **10/21/2003** SeqNo: **474874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	945	10	1000	0	94.5	90	110	949	0.422	10	

Sample ID **03100908-01A DUP** SampType: **DUP** TestCode: **S_TDS** Units: **mg/L** Prep Date: Run ID: **BL002_031021A**
Client ID: **ZZZZZ** Batch ID: **R40358** TestNo: **M2540 C** Analysis Date: **10/21/2003** SeqNo: **474865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	410	10	0	0	0	0	0	390	5.00	10	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

ain Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85 hone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803

Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. · CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

Precision Analytical Laboratories, Inc.
4455 South Park Avenue, Suite 110
Tucson, AZ 85714

Sample Received: October 16, 2003
Analysis Completed: October 29, 2003

Sample ID	Gross Alpha Activity Method 600/00-02 (pCi/L)	Uranium Activity Method 00-07 (pCi/L)	Adjusted Gross Alpha (pCi/L)	Radium 226 Activity Method 903.1 (pCi/L)	Radium 228 Activity Method 904 (pCi/L)	Total Radium (pCi/L)
POE 001	6.0 ± 1.1	---	---	< 0.3	< 0.3	< 0.3

Robert L. Metzger, Ph.D., C.H.P.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER RADIOCHEMICAL ANALYSIS REPORT

SAMPLES TO BE TAKEN AT SOURCE ONLY

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<

>>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

[/ /-/ / /] Red Rock Diamond Venture

System ID — System Name

[10/15/2003] [10150000]

Sample Date — Sample Time

Owner/Contact Person Name

Owner/Contact Person Fax Number

Owner/Contact Person Phone Number

COMPLIANCE SAMPLE TYPE

- [ ] Composite of four quarterly samples*
- [ ] Quarterly
- [ ] Reduced Monitoring/Grab Sample

Date Q1 Collected [ ]
Date Q2 Collected [ ]
Date Q3 Collected [ ]
Date Q4 Collected [ ]

SAMPLE COLLECTION POINT/ID

- [ ] Surface-DWR # [ ]
- [X] Well-DWR # [55-599556]
- [X] Point of Entry # [001]

Sample Collection Location

*** RADIOCHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont Code	Analysis Run Date	Results	Exceeds MCL
600/00-02	15 pCi/l	3 pCi/l	Gross Alpha**	4000	10/17/2003	6.0 ± 1.1	☐
	5 pCi/l		Combined Radium	4010	10/27/2003	< 0.3	☐
903.1		1 pCi/l	Radium 226	4020	10/27/2003	< 0.3	
904.0		1 pCi/l	Radium 228	4030	10/27/2003	< 0.3	
900.0	4 mrem	3 pCi/l	Gross Beta***	4100			☐
906.0	20,000		Tritium	4102			
905.0	8 pCi/l		Strontium-90	4174			

>>> LABORATORY INFORMATION <<<

To be filled out by laboratory personnel

SPECIMEN NUMBER

[20897]

ID Number [AZ 0 / 4 / 6 / 2] Name: [Radiation Safety Engineering, Inc.]

COMMENTS [POE 001 03100138]

Authorized Signature [Robert R. Mitzel]

Date Public Water System Notified [ ]

* A composite radiochemical sample means four quarterly samples from a single sample point only.

** Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (pCi/l) EXCEPT for gross beta which is reported in millirem per year.

*** These values are assumed to produce a total body or organ dose of 4 millirem per year.

Precision Analytical Laboratories

TO SUBCONTRACT LABORATORY:

RADIATION SAFETY ENGINEERING, INC.
3245 N. WASHINGTON ST.
CHANDLER AZ 85225 TEL (480)897-9459 FAX 892-5446

Lab Number

Client	Precision Analytical Laboratories
Address	4455 S. Park Ave. #110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal
Phone	(520) 807-3801
Fax	(520) 807-3803

Project Name: Red Rock Diamond Venture
Project Number: 03100138
Sampler: Ter. / VL Technology
P.O. Number: 2562

Page ____ of ____
Fax Results Y N
email Results Y N
email Address lleal@palabs.com

PROJECT INFORMATION

SYSTEM NAME Red Rock Diamond Venture
PWS ID #
POE ID # 001 WELL ID # 55-599556
COMPLIANCE X YES ____ NO
STATE FORM X YES ____ NO
NEW SOURCE X YES ____ NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	Radiochem	# of sample containers
	POE 001 20892	10-15-03	1015	DW	X	1

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
10-15-03		Lorena Leal	UPS

All services are performed subject to the Terms & Conditions on the reverse side.

FIBERQUANT ANALYTICAL SERVICES

Determination of Asbestos in Water using TEM

JobNumber: 200307395

Client: PRECISION ANLYTICAL LAB INC

4455 S PARK AVE STE 110

TUCSON, AZ 85714-0000

Office Phone: (520) 807-3801
FAX: (520) 807-3803

 # Samples: 1 TEM **Rec:** 10/16/2003 **Method:** EPA 100.1 TEM Water

Client Job: 03100138/Red Rock DV **PO Number:** 2564 **Routing Number:**

Report Date: 10/24/2003 **Date Analyzed:** 10/24/2003

Method and Analysis Information:

Samples are analyzed using the protocols given in EPA method 100.1, as amended by the 1993 EPA guidence. Samples should be un-preserved water in 1 L containers having about 200 ml headspace for shaking. There is a 48 hr deadline between the time the sample is taken and the time it is filtered to minimize loss of asbestos fibers due to biological interference. Each sample is shook for 1 minute, and ultrasonicated for at least 10 minutes, shaking every 5 minutes to disperse any fibers that are present. A measured amount of sample is then filtered through a 0.1 um pore size polycarbonate filter, backed by a 5 um pore size MCE filter and a glass frit. Several volumes of liquid may be filtered for each sample in order to assure that a properly loaded sample is obtained. A portion of each resulting filter (and blanks) is then coated with 100-200 um of carbon in a Denton 502A Carbon Evaporator. The carbon encapsulates all of the larger and most of the smaller particulate on the filter. Three mm square pieces of the coated filter are placed on three or more copper TEM grids, and the original filter material is dissolved away in a Jaffe wick and/or condensation washer. The finished replica in carbon containing the particulate is then examined on a JEOL 1200 or Phillips CM 10 transmission electrom microscope at 10,000 to 20,000x magnification. All asbestos fibers >10um in length are tabulated and characterized as asbestos or non-asbestos using a combination of morphology, electron diffraction characteristics, and elemental composition. The result is calculated in millions of fibers per liter (MFL). The grid is scanned until 20 grid openings have been observed, or until an analytical sensitivity (the hypothetical observation of one fiber) of 0.2 MFL has been reached. The nominal 20 grid opening cut-off is used for those samples containing so much non-asbestos particulate that the desired analytical sensitivity is impractical to attain.

The method was designed to determine EPA drinking water compliance. The standard for drinking water is <7 MFL as measured by this method. Fiberquant maintains Arizona Environmental Laboratory license #AZ0633 covering EPA Method 100.1.

Overall, the coefficient of variation can be expected to be approximately 0.5 for analyses in which >20 asbestos fibers have been counted, ranging up to 1.00 for analyses in which only a few asbestos fibers are counted.

The analysis was performed under an ongoing quality assurance program which includes: Lab blanks, prepared with each set of samples, and analyzed at the rate of one per 25 samples analyzed. Each analyst has suitable background credentials, such as at least a bachelor's degree in geology or chemistry, and has undergone extensive 2-6 month training in TEM techniques and mineralogy specific to TEM asbestos analysis before being allowed to perform client analyses. Unknown reference samples are routinely identified to ensure that each analyst can collect and correctly interpret TEM information. The TEM is aligned and its performance checked daily. Magnification, electron diffraction pattern size, and analytical performance characteristics are calibrated routinely. Samples are re-analyzed sometimes by the same analyst and sometimes by a different analyst in order to determine accuracy and precision. The total of QC analyses (blanks + recounts) are greater than 10% of analyzed samples. Each analyst participates in interlab round robins and proficiency testing in order to show correlation to other lab's analyses. Because TEM samples are not analyzed in batches, which would be traditional for most water analyses, and not every blank is read, and not every sample has a duplicate or replicate analysis associated with it, it is not possible to include a traditional QC report with the analysis. QC reports are produced monthly, and are available on request. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant is accredited by NVLAP to perform TEM analysis of asbestos in air samples, and has been found to be proficient in the EPA water proficiency program. Accreditation or proficiency does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Job Analysis Notes:

	Date	Time		
Sampled:	10/15/2003	10:15	By:	Precision Analytical
Received:	10/16/2003	14:27		
Filtered:	10/16/2003	17:10		
Analyzed:	10/24/2003	8:45		

Analysis Results:

Lab Number	Client Number	Date	Condition	Filtered Vol (ml)	#GOs	GO Area	MFL	AsbestosType	Sensitivity (MFL)
							Job Number:		200307395
2003-07395- 1	03100138-01	10/15/2003	acceptable	40	11	0.00934	< 2	-	2

Analyst: DAVID M. SCHALLER

Printed: 24-Oct-03

Original Print Date: 24-Oct-03

Larry S. Pierce, Approved Accreditation Signatory

Job Number:	200307395

QA Report:	Job Number:	200307395

1. Calibrations	
TEM magnification. date of last.	10/15/2003
TEM camera constant. date of last.	10/17/2003
EDS performance check (k-factors, resolution, low-e perf.). date of last.	6/3/2003
TEM stage drift, minimum beam size. date of last.	6/3/2003
plasma asher. date of last.	9/8/2006

2. Blanks (1/25 samples required)	X not required this job _____ str/mm2

3. Recounts (1/17 samples required)	X not required this job _____ Rel%Diff

4. Analyst Performance	
NVLAP proficiency testing	X current
verified counts. cum. % true positives	90.8
verification of diffraction pattern identifications. cum. % correct	99.6
verification of EDS spectra. cum. % correct	95.2

ASBESTOS ANALYSIS ***
>>> To be filled out by laboratory personnel <<<

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL
EPA 100.1	7 MFL	Asbestos	1094	**10/24/03**	**<0.2 MFL**	**No**

*All units must be reported in million fibers per liter (MFL).

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

LABORATORY SPECIMEN NUMBER **2003-07395- 1** Sample Date: **10/15/03** Time taken: **10:15**

Lab ID Number: **(AZ 0/6/3/3)** Laboratory Name: **FIBERQUANT ANALYTICAL SERVICES**
5025 S. 33rd St., Phoenix, AZ 85040 1-800-743-2687

Comments:

Authorized Signature:

Date Public Water System Notified:

*** MICROBIOLOGICAL ANALYSIS ***
> > > > To be filled out by laboratory personnel < < < <

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
	Present/1 1 or more Coliform	or Fecal E. Coli Coliform	3000	(_____)	(_____)	_____

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
	Present/1 1 or more Coliform	or Fecal E. Coli Coliform	3013	(_____)	(_____)	_____

> > > > > LABORATORY INFORMATION < < < < <
To be filled out by laboratory personnel

SPECIMEN NUMBER _____ [__/__/__] [__:__]
Sample Date Sample time
ID Number (AZ / / /) Name: _____
Comments: _____
Authorized Signature: _____
Date Public Water System Notified: _____
DWAR 9. REVISED June 2. 2000

INSTRUCTIONS FOR USING THE ARIZONA DRINKING WATER SOURCE APPROVAL REPORTING FORM
Revised June 2, 2000

5

Precision Analytical Laboratories

TO SUBCONTRACT LABORATORY:

FIBERQUANT ANALYTICAL
5025 SOUTH 33RD ST.
PHOENIX AZ 85041 TELEPHONE (602) 276-9139 FAX 276-4558

Lab Number

Client	Precision Analytical Laboratories
Address	4455 S. Park Ave. #110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal
Phone	(520) 807-3801
Fax	(520) 807-3803

Project Name: Red Rock Diamond Venture
Project Number: 03100138
Sampler: Teri / XL Technology
P.O. Number: 2564

Page ____ of ____
Fax Results Y N
email Results Y N
email Address lleal@palabs.com

PROJECT INFORMATION

SYSTEM NAME Red Rock Diamond Venture
PWS ID #
POE ID # 001 WELL ID # 55-599556
COMPLIANCE X YES ____ NO
STATE FORM X YES ____ NO
NEW SOURCE X YES ____ NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	Asbestos	# of sample containers
	POE 001	10-15-03	1015	DW	X	

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
10-15-03		Lorena Leal	UPS
			T Townsend 10-16 2:27 UPS

All services are performed subject to the Terms & Conditions on the reverse side.

Environmental Health Laboratories
The Nation's Drinking Water Laboratory
Division of Underwriters Laboratories Inc.

110 South Hill Street
South Bend, IN 46617
Phone: (574) 233-4777
Fax: (574) 233-8207

LABORATORY REPORT

This report contains 10 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at 1-800-332-4345 or 574-233-4777.

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A Division of Underwriters Laboratories Inc.

ACCREDITED IN ACCORDANCE WITH nelac

QUALITY ETHICS SERVICE

Environmental Health Laboratories

Client Contact / Database Corrections

Date of Request: 10/24/03 Time of Request 6:20am Requested By: LCO

Sample Number(s): 9560916 Manager Approval: CM

Order Number: 81352 Method/Test: 515.3

Note: All fields with bold titles must be completed.

1. Document the nature of the problem. Be as specific as possible.

The batch matrix spike does not meet method criteria. The matrix spike performed was not from your sample site. This is being communicated as required by the Arizona administrative code.

2. Client Contacted by: NA Date/Time:
   Company Name: Contact Person:
   Conversation Notes:

Note: When Section 2 is used, all fields must be completed.

3. Document the correction required. Be as specific as possible.

	Yes	No
Recollect Sample:	☐	☐
On Same Order:	☐	☐
New Order Created in Database:	☐	☐
Report with Qualifiers:	☐	☐
Cancel Analysis:	☐	☐
To go with EHL#:	☐	☐

Initials: Order#

Corrections Made By: Date/Time:

EHL-IT-F-001-01
Effective Date: October 24, 2001

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

*** SAMPLES TO BE TAKEN AT SOURCE ONLY ***

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<

>>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

[ ] System ID

Red Rock Diamond Venture
System Name

[10/15/03] Sample date [10:15] Sample time (24 hr clock)

ADEQ Project Number

55-599556
Well ID Number

NEW SYSTEM YES X NO

Surface Water Intake ID Number

NEW P.O.E. YES X NO

Teri Thornsberry / YL Technology
Owner/Contact Person Name

(520) 625-1671
Owner/Contact Person Phone Number

(520) 625-1922
Owner/Contact Fax Number

POE 001
SAMPLING SITE ID

SAMPLE TYPE

[X] Compliance Monitoring

SAMPLE COLLECTION POINT / ID

[X] Point of Entry# [001]

This form is intended to be completely filled out and ALL pages submitted together for all microbiological and chemical tests detailed on this form. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form. ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION
3033 NORTH CENTRAL AVE., PHOENIX, AZ 85012

***INORGANIC CHEMICAL ANALYSIS ***
To be filled out by laboratory personnel

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Results*	Exceeds MCL	Exceeds Trigger
_____	0.05	Arsenic	1005	_____	_____	_____	☐	
_____	2.0	Barium	1010	_____	_____	_____	☐	
_____	0.005	Cadmium	1015	_____	_____	_____	☐	
_____	0.1	Chromium	1020	_____	_____	_____	☐	
_____	1.3	Copper (Action Level)	1022	_____	_____	_____	☐	
_____	4.0	Fluoride	1025	_____	_____	_____	☐	
_____	0.015	Lead (Action Level)	1030	_____	_____	_____	☐	
_____	0.002	Mercury	1035	_____	_____	_____	☐	
_____	10	Nitrate (as N)	1040	_____	_____	_____	☐	
_____	1	Nitrite (as N)	1041	_____	_____	_____	☐	
_____	0.05	Selenium	1045	_____	_____	_____	☐	
_____	0.006	Antimony	1074	_____	_____	_____	☐	
_____	0.004	Beryllium	1075	_____	_____	_____	☐	
_____	0.2	Cyanide (as free cyanide)	1024	_____	_____	_____	☐	
_____	0.1	Nickel	1036	_____	_____	_____	☐	
_____	0.002	Thallium	1085	_____	_____	_____	☐	

*** CORROSIVITY CHEMICAL ANALYSIS ***
>>>To be filled out by Laboratory Personnel<<<

_____	Sulfate	1055	_____	_____	_____
_____	Sodium	1052	_____	_____	_____
_____	pH	1925	_____	_____	_____
_____	Alkalinity	1927	_____	_____	_____
_____	Hardness/Calcium	1918	_____	_____	_____
_____	Langlier Index	1997	_____	_____	_____
_____	Temperature (°C)	1996	_____	_____	_____
_____	Total Dissolved Solids-TDS	1930	_____	_____	_____

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

SPECIMEN NUMBER
[_____]

[_____] [_____] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]
Comments: [_____]
Reviewed by: [_____] Finalized by: [_____]

*** SYNTHETIC ORGANIC CHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	Trigger Value	Contaminant Name	Cont. Code	Analysis Run Date/Time	Results*	Exceeds MCL	Exceeds Trigger
515.3	0.07	.0001	2,4-D	2105	10/22/03 / 21:52	< 0.0001		
515.3	0.05	.0002	2,4,5-TP (Silvex)	2110	10/22/03 / 21:52	< 0.0002		
525.2	0.002	.0002	Alachlor	2051	10/21/03 / 15:18	< 0.0002		
505	0.003	.001	Toxaphene	2020	10/18/03 / 03:35	< 0.001		
525.2	0.003	.0001	Atrazine	2050	10/21/03 / 15:18	< 0.0001		
531.1	0.04	.0009	Carbofuran	2046	10/20/03 / 23:22	< 0.0009		
515.3	0.001	.00004	Pentachlorophenol	2326	10/22/03 / 21:52	< 0.00004		
505	0.002	.0002	Chlordane	2959	10/18/03 / 03:35	< 0.0002		
504.1	0.0002	.00002	Dibromochloropropane (DBCP)	2931	10/20/03 / 21:12	< 0.00002		
504.1	0.00005	.00001	Ethylene Dibromide (EDB)	2946	10/20/03 / 21:12	< 0.00001		
525.2	0.0004	.00004	Heptachlor	2065	10/21/03 / 15:18	< 0.00004		
525.2	0.0002	.00002	Heptachlor Epoxide	2067	10/21/03 / 15:18	< 0.00002		
525.2	0.0002	.00002	Lindane	2010	10/21/03 / 15:18	< 0.00002		
525.2	0.04	.0001	Methoxychlor	2015	10/21/03 / 15:18	< 0.0001		
	0.0005	.0001	PCB:Polychlorinated Biphenyls*	2383				
525.2	0.0002	.00002	Benzo(a)pyrene	2306	10/21/03 / 15:18	< 0.00002		
515.3	0.2	.001	Dalapon	2031	10/22/03 / 21:52	< 0.001		
525.2	0.006	.0006	Di(2-ethylhexyl)phthalate	2039	10/21/03 / 15:18	< 0.0006		
525.2	0.4	.0006	Di(2-ethylhexyl)adipate	2035	10/21/03 / 15:18	< 0.0006		
515.3	0.007	.0002	Dinoseb	2041	10/22/03 / 21:52	< 0.0002		
	3x10-8	5x10-9	2,3,7,8-TCDD (Dioxin)	2063				
549.2	0.02	.0004	Diquat	2032	10/21/03 / 15:54	< 0.0004		
548.1	0.1	.009	Endothall	2033	10/17/03 / 19:21	< 0.009		
525.2	0.002	.00001	Endrin	2005	10/21/03 / 15:18	< 0.00001		
547	0.7	.006	Glyphosate	2034	10/21/03 / 16:06	< 0.006		
525.2	0.001	.0001	Hexachlorobenzene	2274	10/21/03 / 15:18	< 0.0001		
525.2	0.05	.0001	Hexachlorocyclopentadiene	2042	10/21/03 / 15:18	< 0.0001		
531.1	0.2	.002	Oxamyl	2036	10/20/03/23:22	< 0.002		
515.3	0.5	.0001	Picloram	2040	10/22/03 / 21:52	< 0.0001		
525.2	0.004	.00007	Simazine	2037	10/21/03 / 15:18	< 0.00007		

* Aroclor results may be submitted in lieu of PCB

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [956094]

[10/15/03] [10:15] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by: [ ] Finalized by: [ ]

Report #: 956094-102

AROCLOR (PCBs SCREENING TEST)

To be filled out by laboratory personnel

Analysis Method	Trigger Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds** Trigger
505	0.00008	Aroclor 1016	2388	10/18/03 / 03:35	< 0.00008	☐
505	0.02	Aroclor 1221	2390	10/18/03 / 03:35	< 0.02	☐
505	0.0005	Aroclor 1232	2392	10/18/03 / 03:35	< 0.0005	☐
505	0.0003	Aroclor 1242	2394	10/18/03 / 03:35	< 0.0003	☐
505	0.0001	Aroclor 1248	2396	10/18/03 / 03:35	< 0.0001	☐
505	0.0001	Aroclor 1254	2398	10/18/03 / 03:35	< 0.0001	☐
505	0.0002	Aroclor 1260	2400	10/18/03 / 03:35	< 0.0002	☐

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [956102]

[10/15/03] Sample date [10:15] Sample time (24 hr clock)

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by: [Steve Dougherty] Finalized by: [ ]

*** VOLATILE ORGANIC CHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL/Trigger Value	Contaminant Name	Cont. Code	Analysis Run Date/Time	Results*	Exceeds MCL	Exceeds Trigger
	0.007	0.0005	1,1-Dichloroethylene	2977			☐	☐
	0.2	0.0005	1,1,1-Trichloroethane	2981			☐	☐
	0.005	0.0005	1,1,2-Trichloroethane	2985			☐	☐
	0.005	0.0005	1,2-Dichloroethane	2980			☐	☐
	0.005	0.0005	1,2-Dichloropropane	2983			☐	☐
	0.005	0.0005	Benzene	2990			☐	☐
	0.005	0.0005	Carbon Tetrachloride	2982			☐	☐
	0.07	0.0005	cis-1,2-Dichloroethylene	2380			☐	☐
	0.7	0.0005	Ethylbenzene	2992			☐	☐
	0.1	0.0005	(mono)chlorobenzene	2989			☐	☐
	0.6	0.0005	o-Dichlorobenzene	2968			☐	☐
	0.075	0.0005	para-Dichlorobenzene	2969			☐	☐
	0.1	0.0005	Styrene	2996			☐	☐
	0.005	0.0005	Tetrachloroethylene	2987			☐	☐

*** VOLATILE ORGANIC CHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL/Trigger Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceeds Trigger
_____	1	0.0005	Toluene	2991	_____	_____	☐	☐
_____	0.1	0.0005	trans-1,2-Dichloroethylene	2979	_____	_____	☐	☐
_____	0.005	0.0005	Trichloroethylene	2984	_____	_____	☐	☐
_____	0.002	0.0005	Vinyl Chloride	2976	_____	_____	☐	☐
_____	10	0.0005	Xylenes, total	2955	_____	_____	☐	☐
_____	0.07	0.0005	1,2,4-Trichlorobenzene	2378	_____	_____	☐	☐
_____	0.005	0.0005	Dichloromethane	2964	_____	_____	☐	☐

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [_____] [_____] [_____] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [_____]

Reviewed by: [_____] Finalized by: [_____]

Date Public Water System Notified: [_____]

*** RADIOCHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL
_____	15 Pci/L	3 Pci/L	Gross Alpha **	4000	_____	_____	☐
_____	5 Pci/L		Combined Radium (226,228)	4010	_____	_____	☐
_____		1 Pci/L	Radium 226	4020	_____	_____	
_____		1 Pci/L	Radium 228	4030	_____	_____	
_____	4 mrem	3 Pci/L	Gross Beta	4100	_____	_____	☐
_____	20,000 Pci/L***		Tritium	4102	_____	_____	
_____	8 Pci/L***		Strontium-90	4174	_____	_____	

* A composite radiochemical sample means four quarterly samples from a single source only.

** Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (Pci/L) EXCEPT for gross beta which is reported in millirem per year.

*** These values are assumed to produce a total body or organ dose of 4 millirem per year.

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [_____] [_____ _____] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [_____]

Reviewed by: [_____] Finalized by: [_____]

Date Public Water System Notified: [_____]

*** ASBESTOS ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL
_____	7 MFL	Asbestos	1094	_____	_____	☐

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [_____] [_____] [_____] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [_____]

Reviewed by: [_____] Finalized by: [_____]

Date Public Water System Notified: [_____]

*** MICROBIOLOGICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date / Time	Analysis Run Date / Time	Result
_____	Present/ 1 or more Coliform	Total Coliform	3000	_____	_____	Absent

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date / Time	Analysis Run Date / Time	Result
_____	Present/ 1 or more Coliform	E. Coli or Fecal Coliform	3013	_____	_____	Absent

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER [_____] [_____ _____] (24 hr clock)
Sample date Sample time

ID Number [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [_____]

Reviewed by: [_____] Finalized by: [_____]

Date Public Water System Notified: [_____]

INSTRUCTIONS FOR USING THE ARIZONA DRINKING WATER SOURCE APPROVAL REPORTING FORM

DWAR 9: Revised March 11, 2002

SYSTEM ID: This is a unique 5 digit Public Water System Identification (PWSID) number assigned to each public water system by ADEQ.

SYSTEM NAME: This should be the legal name which the water system will be known as when the system is built. Always notify the Department in writing of any name or ownership change.

ADEQ PROJECT NUMBER: This is the number assigned by ADEQ when the project is first submitted for an "Approval to Construct".

NEW SYSTEM: If this is a new system and a system id number has not yet been assigned by ADEQ, then mark "YES", and be sure that the project number is filled in.

NEW POE: If this source represents a new point of entry (POE) for your system, then mark "YES" on the form. This will allow ADEQ to assign a new point of entry number and the appropriate monitoring year for this entry point.

WELL ID NUMBER: The Department of Water Resources' registration number goes here. This number always begins with 55-. If the new source does not constitute a new point of entry, fill in the existing point of entry number that this source is joining.

SURFACE WATER INTAKE ID NUMBER: This number must be assigned by ADEQ. If the new source does not constitute a new point of entry, fill in the existing point of entry number that this source is joining.

SAMPLE DATE: The date the speciman was collected in mm/dd/yy format.

SAMPLE TIME: The time the speciman was collected in hh:mm format (24 hr clock time).

OWNER/CONTACT PERSON NAME: The first and last name of the owner or owner's representative, (contact person) who should be contacted with sample results.

OWNER/CONTACT PHONE #: The daytime phone number of the owner or owner's representative, (contact person) who should be contacted with sample results.

SAMPLE TYPE: The compliance reason for speciman collection. Only the relevant sample types for each contaminant group are provided on the ADEQ forms.

SPECIMEN NUMBER: A unique 15 character (max) alphanumeric code that identifies a particular sample used to test one contaminant or one category of contaminants (i.e., Microbiological, Inorganic, Organic, VOC) for specific sampling event. If reporting on different reporting forms, a different (unique) number is required for each contaminant group and for each report.

NOTE: These definitions are general in nature. For specific questions regarding your laboratory submittal, please contact the Arizona Department of Environmental Quality (ADEQ) Drinking Water Section at 1-800-234-5677, ext. 2236, or (602) 207-2236

www.azdeq.state.az.us - water quality - safe drinking water - forms reports and guidelines - lab reporting forms - Drinking Water Source Approval Form 71 KB

Note: This report may not be reproduced, except in full, without written approval from Environmental Health Laboratories (EHL). EHL is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory. These results may not meet the NELAP standard but satisfy the requirements for this project.

70

81352

SUBCONTRACT LABORATORY:

ENVIRONMENTAL HEALTH LABORATORIES
110 S. Hill Street South Bend, IN 46617
(219) 233-4777 (800) 332-4345 FAX (219) 233-8207 Project Manager: Matt Hayes

ORDER #

Client	PRECISION ANALYTICAL LABORATORIES, INC.
Address	4455 S. Park Ave., Suite 110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal - lleal@palabs.com
Phone	(520) 807-3801
Fax	(520) 807-3803

STATE (OF SAMPLE ORIGIN): AZ
PROJECT NUMBER: 03100138
SAMPLER: Teri / YL Technology
P.O. No.: 2563

Page 1 of 1
Fax Results Y N
email Results Y N
email Address

PROJECT INFORMATION

SYSTEM NAME Red Rock Diamond Venture
PWS ID #
POE ID # 001 WELL ID # 55-599556
COMPLIANCE X YES ___ NO
STATE FORM X YES ___ NO
NEW SOURCE X YES ___ NO

ANALYSES REQUESTED

EHL LAB #	COLLECTION DATE	COLLECTION TIME	SAMPLING SITE	SAMPLE MATRIX	504	504 TRIP BLANK	515.3	531.1	525.2	547	548	549	505						# of sample containers
956094	10/15/03	1015	POE001	DW	X														2
956095	3-7-03	0830	LTB			X													1
956096	10/15	1015	POE001				X												3
956097	↓	↓	↓					X											2
956098									X										1
956099				SS						X									
956100											X								↓
956101												X							1
956102	↓	↓	↓										X						2
														X					

LAB COMMENTS:

Date	Time	Samples Relinquished By	Samples Received By
10/16/03		Lorena Leal	[illegible] 10-16-03 1015
			0.6 °C wet ice

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

November 5, 2003

STL SACRAMENTO PROJECT NUMBER: G3J160378
PO/CONTRACT: 2565

Lorena Leal
Precision Analytical Laboratories, Inc.
4455 S. Park Ave
Suite 110
Tucson, AZ 85714

Dear Ms. Leal,

This report contains the analytical results for the sample received under chain of custody by STL Sacramento on October 16, 2003. This sample is associated with your 03100138 project.

The test results in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G3J160378

General Comments
Note: 5.0 pg/L = 5.0 X 10-9 mg/L.

There was no identification on the sample container.

There were no other anomalies associated with this project.

SEVERN TRENT **STL**

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	NA	South Carolina	87014001
California	01H-9CA	Utah	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Nevada	CA044	USACE	NA
New Jersey*	CA005	USDA Foreign Plant	37-82605
New York	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

SAMPLE SUMMARY

G3J160378

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F2QGK	001	POE001	10/15/03	10:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Precision Analytical Laboratories

TO SUBCONTRACT LABORATORY:

SEVERN TRENT LABORATORY
880 RIVERSIDE PARKWAY
W. SACRAMENTO CA 95605 TEL (916) 373-5600 FAX 372-1059

Lab Number

Client	Precision Analytical Laboratories
Address	4455 S. Park Ave. #110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal
Phone	(520) 807-3801
Fax	(520) 807-3803

Project Name: Red Rock Diamond Venture
Project Number: 03100138
Sampler: Teri / YL Technology
P.O. Number: 25605

Page ____ of ____
Fax Results Y N
email Results Y N
email Address lleal@palabs.com

PROJECT INFORMATION

SYSTEM NAME Red Rock Diamond Venture
PWS ID #
POE ID # 001 WELL ID # 55-599556
COMPLIANCE X YES ____ NO
STATE FORM X YES ____ NO
NEW SOURCE X YES ____ NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	DIOXIN	# of sample containers
	POE001	10-15-03	1015	DW	X	1

RECEIVED IN GOOD CONDITION
UNDER COC
OCT 16 2003
INI

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
10-15-03		Lorena Leal	[illegible]
			10/16/03 1040

All services are performed subject to the Terms & Conditions on the reverse side.

LOT RECEIPT CHECKLIST

SEVERN TRENT STL

STL Sacramento

CLIENT Precision Analytical PM KD LOG # 23531

LOT# (QUANTIMS ID) G5J160378 QUOTE# 20957 LOCATION W15A

		Initials	Date
DATE RECEIVED 10/16/13 TIME RECEIVED 1005		KW	10/16/13
DELIVERED BY	☐ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☒ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☒ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ STL ☒ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 1 ☒ 2 ☐ ☐ OTHER		
COC #(S)			
TEMPERATURE BLANK			
SAMPLE TEMPERATURE	0		
COLLECTOR'S NAME:	☐ Verified from COC ☒ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☒ N/A		
LABELED BY			
LABELS CHECKED BY			
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☒ N/A		
	VOA - Encores ☒ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A KW 10/16/13			
☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☒ N/A KW 10/16/13			
☒ Clouseau	☐ TEMPERATURE EXCEEDED (2 °-6 °C) ☒ N/A		
☐ WET ICE	☐ BLUE ICE ☐ GEL PACK		
☒ PM NOTIFIED	☐ NO COOLING AGENTS USED		

Notes: Sample does not have id on label.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

QA185 8/00 NEK

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA *																				
VOAh *																				
____AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
250AGBna																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
____PB/PJ																				
____PBn/PJn																				
500PB/PJ																				
500PBn/PJn																				
500PBna																				
500PBzn/na																				
250PB																				
250PBn																				
250PBna																				
250PBzn/na																				
____"CT																				
Encore																				
Folder/Filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

* Number of VOA's with air bubbles present / total number of VOA's

PRECISION ANALYTICAL LABORATORIES INC

Client Sample ID: POE001

Trace Level Organic Compounds

Lot-Sample #...: G3J160378-001 Work Order #...: F2QGK1AA Matrix.....: WATER
Date Sampled...: 10/15/03 Date Received..: 10/16/03
Prep Date.....: 10/21/03 Analysis Date..: 10/23/03
Prep Batch #...: 3294645
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(25 - 141)

QC DATA ASSOCIATION SUMMARY

G3J160378

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	EPA-5 1613B-Tetra		3294645	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G3J160378 Work Order #...: F24NA1AD Matrix.....: WATER
MB Lot-Sample #: G3J210000-645

Prep Date.....: 10/21/03
Analysis Date..: 10/22/03 Prep Batch #...: 3294645
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G3J160378 Work Order #...: F24NA1AC Matrix.....: WATER
LCS Lot-Sample#: G3J210000-645
Prep Date.....: 10/21/03 Analysis Date..: 10/22/03
Prep Batch #...: 3294645
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	200	157	pg/L	78	EPA-5 1613B-T

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G3J160378 Work Order #...: F24NA1AC Matrix.....: WATER
LCS Lot-Sample#: G3J210000-645
Prep Date.....: 10/21/03 Analysis Date..: 10/22/03
Prep Batch #...: 3294645
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	78	(73 - 146)	EPA-5 1613B-Tetras

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Precision Analytical Laboratories

a division of Aerotech Laboratories, Inc.

[ ] Main Lab - 4645 E. Cotton Center Blvd., Bldg. 3, Suite 189, Phoenix AZ 85040
www.palabs.com (602) 437-3321 or call toll free 1-866-7PALABS (1-866-772-5227)
[ ] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027
(623) 780-4700 967-1310 FAX (623) 780-2934
[ ] Tucson - 4455 S. Park Ave., Suite 110 Tucson, AZ 85714
(520) 807-3801 FAX (520) 807-3803

Lab Number

03100138

Customer Number:	Page____ of ____
Customer: LH Technology	
Address: PO Box 3011	
City, State, Zip: Sahuarita 85629	
Contact: Tom	Sampler: Tom
Phone: 625-1671	Project Name:
FAX:	Project Number:
P.O. Number:	FAX Results: Y N
E-Mail:	E-mail Results: Y N

Public Water System Information

System Name: Red Rock - Diamond Valley	
PWS No.: —	DWR No.: 55-579556
POE: —	Report To: ADEQ (Y) EPA N
Collection Point: POE001	
Location (City): Red Rock	
New System (Y) N	New POE (Y) N

Sample Receipt

Temperature 13.0 °C
Custody Seals: Yes____ No ✓
Custody Seals Intact: Yes____ No____
Total # of Containers:____

Turn Around Time

____ 24 hours ____ 48 Hours
____ 72 hours
____ 5 Working Days
____ Standard 10 Working Days
Subject to scheduling & availability (surcharges apply).

Analyses Requested

Sample Information

Lab #	Sample Identification	Date	Time	Matrix	Dioxin - STL	Radiochem - Lab Safety	Asbestos - Fivergwent	504, 505, 515, 525	531, 547, 548, 549	(Hardness-Ca), Na	As, Ba, Cd, Cr, Cu, Pb, Se	Sb, Be, Ni, Tl, Hg	F, NO_2, NO_3, SO_4, TDS,	Alkalinity, CN, Lang. Index	Total Coliform - Tucson	524.2	# of Sample Bottles
01	POE 001	10/15	1015	DW	+	+	+	+	X	X	X	X	X	X	X	X	
02	Trip blank			TB												X	1

Instructions / Special Requirements: **Field pH:** 7.8 **Field Temperature:** 72 °F

Date	Time	Samples Relinquished By	Samples Received By
10/15/03	1215	[signature]	[signature]
10-16-03	08:00	FEDEX	[signature]

All services are performed subject to the Terms & Conditions on the reverse side.

Revised 6-12-02

Precision Analytical Laboratories

Project Checked By: _____

Sample Receipt Checklist

Client Name YL Tech Date and Time Received 10/15/03 1215

Lab Number 03100138 Received by h

Checklist completed by [signature] 10-15-03 (Signature / Date) Containers: Brass Sleeves ____ Glass Jars ____ Methanol Kits ____

Matrix: DW Carrier name: Teri T.

Shipping container/cooler in good condition?	Yes X	No ___	Not Present ___
Custody seals intact on shipping container/cooler?	Yes ___	No ___	Not Present X
Custody seals intact on sample bottles?	Yes ___	No ___	Not Present X
Chain of custody present?	Yes X	No ___	
Chain of custody signed when relinquished and received?	Yes X	No ___	
Chain of custody agrees with sample labels?	Yes X	No ___	
Samples in proper container/bottle?	Yes X	No ___	
Sample containers intact?	Yes X	No ___	
All samples received within holding time?	Yes X	No ___	

Do different containers of the same sample vary in appearance? Yes ___ (If yes, contact PM) No X

Water – VOA vials have zero headspace? No VOA submitted ___ Yes X No ___

Number of sample bottles: 28 +2TB(524.504) Acid Preserved: 5 Dechlorinator: 17 Unpreserved: 5 NaOH: 1

Temperature of samples? 13.0 °C Blue Ice ___ Wet Ice X Not Present ___

Water – pH acceptable upon receipt? Yes ___ No ___ Not applicable ___

pH: Metals <2 413.1 ____ Total Phenols ____
Cyanide >12 418.1 ____
Nutrients <2 Sulfide ____

Adjusted? No Results? _____

Any No response must be detailed in the comments section below:

Person/Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____

Corrective Action: _____

Precision Analytical Laboratories

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[ ] Main Lab - 4645 E. Cotton Center Blvd., Bldg. 3, Suite 189, Phoenix AZ 85040
www.palabs.com (602) 437-3321 or call toll free 1-866-7PALABS (1-866-772-5227)
[ ] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027
(623) 780-4700 967-1310 FAX (623) 780-2934
[ ] Tucson - 4455 S. Park Ave., Suite 110 Tucson, AZ 85714
(520) 807-3801 FAX (520) 807-3803

Lab Number: 03100138

Customer Number: | Page ____ of ____

Customer: GF Technology

Address: PO Box 3601

City, State, Zip: Sahuarita 85629

Contact: Jan | Sampler: Jan

Phone: 625-1671 | Project Name:

FAX: | Project Number:

P.O. Number: | FAX Results: Y N

E-Mail: | E-mail Results: Y N

Public Water System Information

System Name: Red Rock - Diamond Ventures

PWS No.: — | DWR No.: 55-[illegible]

POE: | Report To: ADEQ (Y) EPA N

Collection Point: POE 001

Location (City): Red Rock

New System (Y) N | New POE (Y) N

Sample Receipt

Temperature 13.0 °C

Custody Seals: Yes ____ No ✓

Custody Seals Intact: Yes ____ No ____

# of Containers: ____

Turn Around Time

____ 24 hours ____ 48 Hours

____ 72 hours

____ 5 Working Days

____ Standard 10 Working Days

Subject to scheduling & availability (surcharges apply).

Analyses Requested

Sample Information

Lab #	Sample Identification	Date	Time	Matrix	Dioxin - STL	Radiochem - Lab Science	Asbestos - Fyrequent	504, 505, 515, 525	531, 547, 548, 549 EHL	(Hardness-Ca), Na	As, Ba, Cd, Cr, Cu, Pb, Se	Sb, Be, Ni, Tl, Hg	F, NO_2, NO_3, SO_4, TDS,	Alkalinity, CN, Lang. Index	Total Coliform - Tucson	524.2	# of Sample Bottles
01	POE 001	10/15	10/5	DW													
02	Trip blank			TB												X	1

Instructions / Special Requirements: **Field pH:** 7.8 **Field Temperature:** 72 °F

Date	Time	Samples Relinquished By	Samples Received By
10/15/03	1215	[signature]	[signature]

Services are performed subject to the Terms & Conditions on the reverse side.

Revised 6-12-02

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Well #2

RECEIVED
APR - 5 2004

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

SAMPLES TO BE TAKEN AT SOURCE ONLY

SYSTEM ID	SYSTEM NAME
	Red Rock DRD #2
SAMPLE DATE	**SAMPLE TIME (24 HR CLOCK)**
02/12/04	14:00
OWNER/CONTACT PERSON NAME	**OWNER/CONTACT PERSON PHONE NUMBER**
Karen Hartwell/ Teri Thornsberry	(520) 625-1671
SAMPLING SITE ID	**OWNER/CONTACT FAX NUMBER**
Well Head	(520) 625-1922

SAMPLE COLLECTION POINT	I.D. NUMBER	SAMPLE TYPE
POINT OF ENTRY		X COMPLIANCE MONITORING

NEW SYSTEM		
X YES		NO

ADEQ PROJECT NUMBER

NEW P.O.E.		
X YES		NO

WELL ID NUMBER
55-599557

SURFACE WATER INTAKE I.D. NO.

This form is intended to be completely filled out and **ALL** pages submitted together for all microbiological and chemical tests detailed on this form. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form.

ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.

Please note:

The Arsenic MCL is currently .05 mg/L. However, on Jan. 23, 2006, the Arsenic MCl will be .01 mg/L.

There currently is no MCL for Uranium. However, on Dec. 8, 2003 the Uranium MCL will be .03 mg/L.

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION (5415b-2)
1110 W. Washington St.
Phoenix AZ 85007

n Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.co
son Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
porate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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INORGANIC CHEMICAL ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULT	EXCEEDS MCL	EXCEEDS REPORTING LIMIT
200.8	0.05	0.05	Arsenic	1005	2/16/2004	0.0038		
200.8	2	2	Barium	1010	2/16/2004	0.086		
200.8	0.005	0.005	Cadmium	1015	2/16/2004	<0.0010		
200.8	0.1	0.1	Chromium	1020	2/16/2004	0.0017		
200.8	1.3*	0.050	Copper	1022	2/18/2004	0.0048		
300.0	4.0	2.0	Fluoride	1025	2/13/2004	0.60		
200.8	0.015*	0.0025	Lead	1030	2/16/2004	<0.0010		
245.1	0.002	0.002	Mercury	1035	2/17/2004	<0.00020		
300.0	10	5	Nitrate (as N)	1040	2/13/2004	**1.2**		
300.0	1	0.5	Nitrite (as N)	1041	2/13/2004	<0.50		
200.8	0.05	0.05	Selenium	1045	2/16/2004	0.0016		
200.8	0.006	0.006	Antimony	1074	2/17/2004	<0.0010		
200.8	0.004	0.004	Beryllium	1075	2/18/2004	<0.0010		
4500CN C	0.2	0.2	Cyanide (as free cyanide)	1024	3/5/2004	<0.020**		
200.8	0.1	0.1	Nickel	1036	2/16/2004	0.0014		
200.8	0.002	0.002	Thallium	1085	2/16/2004	<0.0010		

* Action Level

INORGANIC CHEMICAL ANALYSIS

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01 I	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Beutley	**Cyanide was resampled on 2/29/04 10:00	

PHYSICAL ANALYSIS

ANALYSIS METHOD	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULT
300.0	Sulfate	1055	2/13/2004	34
200.7	Sodium	1052	2/18/2004	53
Field	pH	1925	2/12/2004	6.80
2320B	Alkalinity	1927	2/16/2004	130
Calc.	Hardness/Ca.	1918	2/18/2004	77
9330B	Langelier Index	1997	3/2/2004	-0.99
Field	Temp. (°C)	1996	2/12/2004	20°C
2540C	TDS	1930	2/17/2004	220

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01C	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Beutley	Temperature and pH are field measurements performed by client.	

ı Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.com
son Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
ıorate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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SYNTHETIC ORGANIC CHEMICAL ANALYSIS

ANALYSIS	MCL	REPORTING	CONTAMINANT	CONT.	ANALYSIS	RESULT	EXCEEDS	EXCEEDS
515.3	0.07	0.0001	2,4-D	2105	2/25/2004	<0.0001		
515.3	0.05	0.0002	2,4,5-TP (Silvex)	2110	2/25/2004	<0.0002		
525.2	0.002	0.0002	Alachlor	2051	2/18/2004	<0.0002		
505	0.003	0.001	Toxaphene	2020	2/20/2004	<0.001		
525.2	0.003	0.0001	Atrazine	2050	2/18/2004	<0.0001		
531.1	0.04	0.0009	Carbofuran	2046	2/20/2004	<0.0009		
515.3	0.001	0.00004	Pentachlorophenol	2326	2/25/2004	<0.00004		
505	0.002	0.0002	Chlordane	2959	2/20/2004	<0.0002		
504.1	0.0002	0.00002	Dibromochloropropane (DBCP)	2931	2/23/2004	<0.00002		
504.1	0.00005	0.00001	Ethylene Dibromide (EDB)	2946	2/23/2004	<0.00001		
525.2	0.0004	0.00004	Heptachlor	2065	2/18/2004	<0.00004		
525.2	0.0002	0.00002	Heptachlor Epoxide	2067	2/18/2004	<0.00002		
525.2	0.0002	0.00002	Lindane	2010	2/18/2004	<0.00002		
525.2	0.04	0.0001	Methoxychlor	2015	2/18/2004	<0.0001		
------	0.0005	0.0001	PCB:Polychlorinated Biphenyls*	2383	----------	----------		
525.2	0.0002	0.00002	Benzo(a)Pyrene	2306	2/18/2004	<0.00002		
515.3	0.2	0.001	Dalapon	2031	2/25/2004	<0.001		
525.2	0.006	0.0006	Di(2-ethylhexyl)phthalate	2039	2/18/2004	<0.0006		
525.2	0.4	0.0006	Di(2-ethylhexyl)adipate	2035	2/18/2004	<0.0006		
515.3	0.007	0.0002	Dinoseb	2041	2/25/2004	<0.0002		
1613	$3x10^{-8}$	$5x10^{-9}$	2,3,7,8-TCDD (Dioxin)	2063	2/21/2004	$<5.0x10^{-9}$		
549.2	0.02	0.0004	Diquat	2032	2/17/2004	<0.0004		
548.1	0.1	0.0009	Endothall	2033	2/16/2004	<0.009		
525.2	0.002	0.00001	Endrin	2005	2/18/2004	<0.00001		
547	0.7	0.006	Glyphosate	2034	2/19/2004	<0.006		
525.2	0.001	0.0001	Hexachlorobenzene	2274	2/18/2004	<0.0001		
525.2	0.05	0.0001	Hexachlorocyclopentadiene	2042	2/18/2004	<0.0001		
531.1	0.2	0.002	Oxamyl	2036	2/20/2004	<0.002		
515.3	0.5	0.0001	Picloram	2040	2/25/2004	<0.0001		
525.2	0.004	0.0007	Simazine	2037	2/18/2004	<0.00007		

*Aroclor results may be submitted in lieu of PCB

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01S	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
Cindy Bentley	Methods 504.1, 505, 515.3, 525.2, 531.1, 547, 548.1 and 549.2 were performed by EHL (AZ0432). Method 1613 was performed by STL (AZ0616).	

n Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.com
son Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
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AROCLOR (PCBs SCREENING TEST)

ANALYSIS	REPORTING	CONTAMINANT	CONT	ANALYSIS	RESULT	EXCEEDS
505	0.00008	Aroclor 1016	2388	2/20/2004	<0.00008	
505	0.02	Aroclor 1221	2390	2/20/2004	<0.02	
505	0.0005	Aroclor 1232	2392	2/20/2004	<0.0005	
505	0.0003	Aroclor 1242	2394	2/20/2004	<0.0003	
505	0.0001	Aroclor 1248	2396	2/20/2004	<0.0001	
505	0.0001	Aroclor 1254	2398	2/20/2004	<0.0001	
505	0.0002	Aroclor 1260	2400	2/20/2004	<0.0002	

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01S	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Bentley	Method 505 was performed by EHL (AZ0432).	

VOLATILE ORGANIC CHEMICALS ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
524.2	0.007	0.0005	1,1-Dichloroethylene	2977	2/16/2004	<0.00050 Q3		
524.2	0.2	0.0005	1,1,1-Trichloroethane	2981	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,1,2-Trichloroethane	2985	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,2-Dichloroethane	2980	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,2-Dichloropropane	2983	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Benzene	2990	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Carbon Tetrachloride	2982	2/16/2004	<0.00050 Q3		
524.2	0.07	0.0005	cis-1,2-Dichlorethylene	2380	2/16/2004	<0.00050 Q3		
524.2	0.7	0.0005	Ethylbenzene	2992	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	(mono)Chlorobenzene	2989	2/16/2004	<0.00050 Q3		
524.2	0.6	0.0005	o-Dichlorobenzene	2968	2/16/2004	<0.00050 Q3		
524.2	0.075	0.0005	para-Dichlorobenzene	2969	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	Styrene	2996	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Tetrachloroethylene	2987	2/16/2004	<0.00050 Q3		
524.2	1	0.0005	Toluene	2991	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	trans-1,2-Dichloroethylene	2979	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Trichloroethylene	2984	2/16/2004	<0.00050 Q3		
524.2	0.002	0.0005	Vinyl Chloride	2976	2/16/2004	<0.00050 Q3		
524.2	10	0.0015	Xylenes, total	2955	2/16/2004	<0.00050 Q3		
524.2	0.07	0.0005	1,2,4-Trichlorobenzene	2378	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Dichloromethane	2964	2/16/2004	<0.00050 Q3		

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01V	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Bentley	Q3- Sample received with improper chemical preservation.	

ain Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.co
ucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
ornerate Address: 4501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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RADIOCHEMICAL ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULTS	EXCEEDS MCL	EXCEEDS REPORTING LIMIT
	15 pCi/l		Adjusted Gross Alpha	4000				
600/00-02		3 pCi/L	Gross Alpha	4002	2/18/2004	4.4 ± 1.0		
	30ppb	(reserved)	Combined Uranium	4006				
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium	4010				
		1 pCi/L	Radium 226	4020				
		1 pCi/L	Radium 228	4030				
	4 mrem	3 pCi/L	Gross Beta	4100				
	20000 pCi/L	1000 pCi/L	Tritium	4102				
		10 pCi/L	Strontium-89	4172				
	8 pCi/L	2 pCi/L	Strontium-90	4174				
		1 pCi/L	Iodine-131	4264				
		10 pCi/L	Cesium-134	4270				

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01R	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Bentley	The radiochemical analyses were performed by Radiation Safety (AZ0462).	

ASBESTOS ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS (MFL)	EXCEEDS MCL
100.1	7 MFL	Asbestos	1094	2/18/2004	<.7	

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01B	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Bentley	The asbestos analysis was performed by Fiberquant Analytical Services (AZ0904).	

in Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.cor
:son Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
morate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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MICROBIOLOGICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
9223B	PRESENT/1 or more Coliform	Total Coliform	3000	2/12/04 16:20	2/13/04 16:20	0

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
9223B	PRESENT/1 or more Coliform	E.COLI or Fecal Coliform	3013	2/12/04 16:20	2/13/04 16:20	0

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01E	02/12/04	14:00
ID NUMBER	**NAME**	
AZ0609	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	**COMMENTS**	
Cindy Bentley		

DWAR 9: Revised 2003

ain Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.cor
ucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

February 24, 2004

STL SACRAMENTO PROJECT NUMBER: G4B130194
PO/CONTRACT: 3026

Lorena Leal
Aerotech Environmental Laboratories
4455 S. Park Ave
Suite 110
Tucson, AZ 85714

Dear Ms. Leal,

This report contains the analytical results for the sample received under chain of custody by STL Sacramento on February 13, 2004. This sample is associated with your 04020117 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4B130194

General comments

Note: 5.0 pg/L = 5.0 X 10^{-9} mg/L

There were no anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	NA	South Carolina	87014001
California	01169CA	Utah	QUANI
Connecticut	PH-0691	Virginia	00178
Florida	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Nevada	CA044	USACE	NA
New Jersey*	CA005	USDA Foreign Plant	37-82605
New York	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

SAMPLE SUMMARY

G4B130194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F9J73	001	WELL HEAD	02/12/04	14:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G4B130194

Aerotech Environmental Laboratories

TO SUBCONTRACT LABORATORY:

SEVERN TRENT LABORATORY
880 RIVERSIDE PARKWAY
W. SACRAMENTO CA 95605 TEL (916) 373-5600 FAX 372-1059

Lab Number

Client	Aerotech Environmental Laboratories
Address	4455 S. Park Ave. #110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal
Phone	(520) 807-3801
Fax	(520) 807-3803

Project Name: YL
Project Number: 04020117
Sampler: Teri Thornberry
P.O. Number: 3026

Page 1 of 1
Fax Results Y N
email Results Y N
email Address lleal@palabs.com

PROJECT INFORMATION

SYSTEM NAME
PWS ID #
POE ID # WELL ID # Will FAX
COMPLIANCE X YES NO
STATE FORM X YES NO
NEW SOURCE X YES NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	DIOXIN	# of sample containers
	Well Head	2/12/04	1400	DW	X	1

RECEIVED IN GOOD CONDITION UNDER COC
FEB 13 2004
INI

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
2/12/04			2/13/04 1030

All services are performed subject to the Terms & Conditions on the reverse side.

STL Sacramento (916) 373 - 5600

Aerotech Env Laboratories Inc

Client Sample ID: WELL HEAD

Trace Level Organic Compounds

Lot-Sample #...: G4B130194-001 Work Order #...: F9J731AA Matrix.....: WATER
Date Sampled...: 02/12/04 Date Received..: 02/13/04
Prep Date.....: 02/19/04 Analysis Date..: 02/21/04
Prep Batch #...: 4050555
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 141)

QC DATA ASSOCIATION SUMMARY

G4B130194

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	EPA-5 1613B-Tetra		4050555	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4B130194 Work Order #...: F9V4Q1AA Matrix.....: WATER
MB Lot-Sample #: G4B190000-555

Prep Date.....: 02/19/04
Analysis Date..: 02/20/04 Prep Batch #...: 4050555
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G4B130194 Work Order #...: F9V4Q1AC Matrix.....: WATER
LCS Lot-Sample#: G4B190000-555
Prep Date.....: 02/19/04 Analysis Date..: 02/20/04
Prep Batch #...: 4050555
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	106	(73 - 146)	EPA-5 1613B-Tetras

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G4B130194 Work Order #...: F9V4Q1AC Matrix.....: WATER
LCS Lot-Sample#: G4B190000-555
Prep Date.....: 02/19/04 Analysis Date..: 02/20/04
Prep Batch #...: 4050555
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**200**	**211**	**pg/L**	**106**	**EPA-5 1613B-T**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

FIBERQUANT ANALYTICAL SERVICES

Determination of Asbestos in Water using TEM

JobNumber: 200401098

Client: PRECISION ANLYTICAL LAB INC

4455 S PARK AVE STE 110

TUCSON, AZ 85714-0000

Office Phone: (520) 807-3801
FAX: (520) 807-3803

 # Samples: 1 TEM **Rec:** 2/13/2004 **Method:** EPA 100.1 TEM Water

Client Job: 04020117 **PO Number:** 105-741/3025 **Routing Number:** -

Report Date: 2/18/2004 **Date Analyzed:** 2/18/2004

Method and Analysis Information:

Samples are analyzed using the protocols given in EPA method 100.1, as amended by the 1993 EPA guidence. Samples should be un-preserved water in 1 L containers having about 200 ml headspace for shaking. There is a 48 hr deadline between the time the sample is taken and the time it is filtered to minimize loss of asbestos fibers due to biological interference. Each sample is shook for 1 minute, and ultrasonicated for at least 10 minutes, shaking every 5 minutes to disperse any fibers that are present. A measured amount of sample is then filtered through a 0.1 um pore size polycarbonate filter, backed by a 5 um pore size MCE filter and a glass frit. Several volumes of liquid may be filtered for each sample in order to assure that a properly loaded sample is obtained. A portion of each resulting filter (and blanks) is then coated with 100-200 um of carbon in a Denton 502A Carbon Evaporator. The carbon encapsulates all of the larger and most of the smaller particulate on the filter. Three mm square pieces of the coated filter are placed on three or more copper TEM grids, and the original filter material is dissolved away in a Jaffe wick and/or condensation washer. The finished replica in carbon containing the particulate is then examined on a JEOL 1200 or Phillips CM 10 transmission electrom microscope at 10,000 to 20,000x magnification. All asbestos fibers >10um in length are tabulated and characterized as asbestos or non-asbestos using a combination of morphology, electron diffraction characteristics, and elemental composition. The result is calculated in millions of fibers per liter (MFL). The grid is scanned until 20 grid openings have been observed, or until an analytical sensitivity (the hypothetical observation of one fiber) of 0.2 MFL has been reached. The nominal 20 grid opening cut-off is used for those samples containing so much non-asbestos particulate that the desired analytical sensitivity is impractical to attain.

The method was designed to determine EPA drinking water compliance. The standard for drinking water is <7 MFL as measured by this method. Fiberquant maintains Arizona Environmental Laboratory license #AZ0633 covering EPA Method 100.1.

Overall, the coefficient of variation can be expected to be approximately 0.5 for analyses in which >20 asbestos fibers have been counted, ranging up to 1.00 for analyses in which only a few asbestos fibers are counted.

The analysis was performed under an ongoing quality assurance program which includes: Lab blanks, prepared with each set of samples, and analyzed at the rate of one per 25 samples analyzed. Each analyst has suitable background credentials, such as at least a bachelor's degree in geology or chemistry, and has undergone extensive 2-6 month training in TEM techniques and mineralogy specific to TEM asbestos analysis before being allowed to perform client analyses. Unknown reference samples are routinely identified to ensure that each analyst can collect and correctly interpret TEM information. The TEM is aligned and its performance checked daily. Magnification, electron diffraction pattern size, and analytical performance characteristics are calibrated routinely. Samples are re-analyzed sometimes by the same analyst and sometimes by a different analyst in order to determine accuracy and precision. The total of QC analyses (blanks + recounts) are greater than 10% of analyzed samples. Each analyst participates in interlab round robins and proficiency testing in order to show correlation to other lab's analyses. Because TEM samples are not analyzed in batches, which would be traditional for most water analyses, and not every blank is read, and not every sample has a duplicate or replicate analysis associated with it, it is not possible to include a traditional QC report with the analysis. QC reports are produced monthly, and are available on request. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant is accredited by NVLAP to perform TEM analysis of asbestos in air samples, and has been found to be proficient in the EPA water proficiency program. Accreditation or proficiency does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Job Analysis Notes:

The high particulate content of the sample did not permit analysis to the desired sensitivity of 0.2 MFL (million fibers per liter).

	Date	Time		
Sampled:	2/12/2004	14:00	**By:**	Precision Analytical
Received:	2/13/2004	14:30		
Filtered:	2/13/2004	17:20		
Analyzed:	2/18/2004	12:52		

Analysis Results:

Lab Number	Client Number	Date	Condition	Filtered Vol (ml)	#GOs	GO Area	MFL	AsbestosType	Sensitivity (MFL)
							Job Number:	200401098	
2004-01098- 1	04020017-01	2/12/2004	acceptable	7	20	0.00933	<.7	-	.7

Uwe Steimle

Analyst: UWE .. STEIMLE

Printed: 18-Feb-04

Original Print Date: 18-Feb-04

Larry S. Pierce

Larry S. Pierce, Approved Accreditation Signatory

Job Number:	200401098

QA Report:	Job Number:	200401098

1. Calibrations	
TEM magnification. date of last.	1/23/2004
TEM camera constant. date of last.	2/9/2004
EDS performance check (k-factors, resolution, low-e perf.). date of last.	1/22/2004
TEM stage drift, minimum beam size. date of last.	1/22/2004
plasma asher. date of last.	2/12/2004

2. Blanks (1/25 samples required)	___ not required this job	<15 str/mm2
3. Recounts (1/17 samples required)	X not required this job	___ Rel%Diff

4. Analyst Performance	
NVLAP proficiency testing	X current
verified counts. cum. % true positives	92.4
verification of diffraction pattern identifications. cum. % correct	100.0
verification of EDS spectra. cum. % correct	100.0

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER SOURCE APPROVAL FORM
SAMPLES TO BE TAKEN AT SOURCE ONLY
>>>> PUBLIC WATER SYSTEM INFORMATION <<<<
>>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

System ID: _____

System Name: **Red Rock DRD #2**

Sample Date: **02/12/04** Time taken: **14:00**

LABORATORY SPECIMEN NUMBER: **2004-01098- 1**

ADEQ Project Number: _____

Well ID Number: **55-599557**

NEW SYSTEM YES ___ NO ___

Surface Water Intake ID Number: _____

NEW P.O.E. YES ___ NO ___

Owner/Contact Person Name: **Teri Thornsberry / YL Technology**

Owner/Contact Person Phone Number: **(520) 625-1671**

Owner/Contact Fax Number: **(520) 625-1922**

SAMPLING SITE ID: _____

SAMPLE TYPE

[X] Compliance Monitoring

SAMPLE COLLECTION POINT/ID

[ ] Point of Entry# [ ]

THIS FORM IS INTENDED TO BE COMPLETELY FILLED OUT AND ALL PAGES SUBMITTED TOGETER FOR ALL MICROBIOLOGIAN AND CHEMICAL TESTS DETAILED ON THIS FORM. IF MORE THAN ONE LABORATORY PARTICIPATED IN THE ANALYSES, PLEASE ATTACH A COPY OF THE ORIGINAL LABORATORY REPORT, SIGNED BY EHT PERFORMING LABORATORY, TO THE BACK OF THIS FORM

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION
3033 NORTH CENTRAL AVE., PHOENIX, AZ 85012

ASBESTOS ANALYSIS ***
>>> To be filled out by laboratory personnel <<<

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL
EPA 100.1	7 MFL	Asbestos	1094	**2/18/04**	**<0.7 MFL**	**No**

*All units must be reported in million fibers per liter (MFL).

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

LABORATORY SPECIMEN NUMBER **2004-01098- 1** Sample Date: **02/12/04** Time taken: **14:00**

Lab ID Number: **(AZ 0/6/3/3)** Laboratory Name: **FIBERQUANT ANALYTICAL SERVICES**
5025 S. 33rd St., Phoenix, AZ 85040 1-800-743-2687

Comments:

Authorized Signature: Uwe Steinle

Date Public Water System Notified:

* * * MICROBIOLOGICAL ANALYSIS * * *
> > > > To be filled out by laboratory personnel < < < <

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
	Present/1 1 or more Coliform	E. Coli or Fecal Coliform	3000	(_____)	(_____)	_____

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
	Present/1 1 or more Coliform	E. Coli or Fecal Coliform	3013	(_____)	(_____)	_____

> > > > > LABORATORY INFORMATION < < < < <
To be filled out by laboratory personnel

SPECIMEN NUMBER _____ [__/__/__] Sample Date [__:__] Sample time
ID Number (AZ / / /) Name: _____
Comments: _____
Authorized Signature: _____
Date Public Water System Notified: _____
DWAR 9: REVISED June 2, 2000

INSTRUCTIONS FOR USING THE ARIZONA DRINKING WATER SOURCE APPROVAL REPORTING FORM
Revised June 2, 2000

TO SUBCONTRACT LABORATORY:

FIBERQUANT ANALYTICAL
5025 SOUTH 33RD ST.
PHOENIX AZ 85041 TELEPHONE (602) 276-9139 FAX 276-4558

Lab Number

Client	Aerotech Environmental Laboratories	Project Name:	XL
Address	4455 S. Park Ave. #110	Project Number:	04D20117
City, State, Zip	Tucson AZ 85714	Sampler:	Teri Thornsberry
Contact	Lorena Leal	P.O. Number:	3025
Phone	(520) 807-3801		
Fax	(520) 807-3803		

Page 1 of 1

Fax Results Y N

email Results Y N

email Address lleal@palabs.com

PROJECT INFORMATION

SYSTEM NAME Red Rock DRD #2

PWS ID #

POE ID # WELL ID # Will FAX

COMPLIANCE # YES NO

STATE FORM # YES NO

NEW SOURCE # YES NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	Asbestos	# of sample containers
	Well Head	2/12/04	1400	QW	X	1

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
2/12/04	1	[signature]	[signature] UPS
			2-13-04

All services are performed subject to the Terms & Conditions on the reverse side.

Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. · CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

Aerotech Environmental Labs.
4645 East Cotton Center Blvd., Bldg. 3, Ste. 189
Phoenix, AZ 85040

Sample Received: February 13, 2004
Analysis Completed: February 19, 2004

Sample ID	Gross Alpha Activity Method 600/00-02 (pCi/L)
Well Head	4.4 ± 1.0

Robert L. Metzger, Ph.D., C.H.P.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

SAMPLES TO BE TAKEN AT SOURCE ONLY

> > > > PUBLIC WATER SYSTEM INFORMATION < < < <

> > > > TO BE FILLED OUT BY SYSTEM PERSONNEL < < < <

[/ /-/ / /] Red Rock #2

System ID System Name

[02 / 12 / 04] [14 : 00] (24 hour clock)

Sample date Sample time

ADEQ Project Number

55-599557

Well ID Number

NEW SYSTEM YES X NO ____

NEW POE YES ____ NO ____

Surface Water Intake ID Number

Owner/Contact Person Name

Owner/Contact Person Phone Number

( )

Owner/Contact Fax Number

SAMPLING SITE ID

SAMPLE TYPE

☐ Compliance Monitoring (initial testing)

SAMPLE COLLECTION POINT/ID

☐ Point of Enrty # [ ]

This form is intended to be completely filled out and ALL pages submitted together for all microbiological and chemical tests detailed on this form. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form. ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION
3033 NORTH CENTRAL AVE., PHOENIX, AZ 85012

*** RADIOCHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont Code	Analysis Run Date	Results	Exceeds MCL
00/00-02	15 pCi/l	3 pCi/l	Gross Alpha**	4000	02/18/2004	4.4 ± 1.0	☐
	5 pCi/l		Combined Radium	4010			☐
03.1		1 pCi/l	Radium 226	4020			
04.0		1 pCi/l	Radium 228	4030			
00.0	4 mrem	3 pCi/l	Gross Beta***	4100			☐
06.0	20,000		Tritium	4102			
05.0	8 pCi/l		Strontium-90	4174			

> > > LABORATORY INFORMATION < < <

To be filled out by laboratory personnel

[22195] SPECIMEN NUMBER [02/12/2004] Sample date [14:00] Sample time

ID Number [AZ0/4/6/2] Name: [Radiation Safety Engineering, Inc.]

Comments: [04020117]

Authorized Signature: [ ]

Date Public Water System notified: [ ]

* A composite radiochemical sample means four quarterly samples from a single source only.

** Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (Pci/l) EXCEPT for gross beta which is reported in millirem per year.

*** These values are assumed to produce a total body or organ dose of 4 millirem per year.

TO SUBCO. .ACT LABORATORY:

RADIATION SAFETY ENGINEERING, INC.
3245 N. WASHINGTON ST.
CHANDLER AZ 85225 TEL (480)897-9459 FAX 892-5446

Lab Number

Client	Aerotech Environmental Laboratories	Project Name: YL	Page 1 of 1
Address	4455 S. Park Ave. #110	Project Number: 04020117	Fax Results (Y) N
City, State, Zip	Tucson AZ 85714	Sampler: Teri Thornberry	email Results Y N
Contact	Lorena Leal	P.O. Number: 3021	email Address lleal@palabs.com
Phone	(520) 807-3801		
Fax	(520) 807-3803		

PROJECT INFORMATION

SYSTEM NAME Red Rock DRD ~~#12, #2~~
PWS ID #
POE ID # WELL ID # Will FAX
COMPLIANCE X YES NO
STATE FORM X YES NO
NEW SOURCE X YES NO

ANALYSES REQUESTED

Sample Information

#	Sample Identification	Date	Time	Type	Radiochem	# of sample containers
	Well Head	2/12/04	1400	PWX		1
	22195					

Instructions/Special Requirements:

Date	Time	Samples Relinquished By	Samples Received By
2/12/04		[illegible]	UPS
021304			Sierra

All services are performed subject to the Terms & Conditions on the reverse side.

Environmental Health Laboratories
The Nation's Drinking Water Laboratory
Division of Underwriters Laboratories Inc.

110 South Hill Street
South Bend, IN 46617
Phone: (574) 233-4777
Fax: (574) 233-8207

LABORATORY REPORT

This report contains 11 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at 1-800-332-4345 or 574-233-4777.

This report may not be reproduced, except in full, without written approval from Environmental Health Laboratories (EHL). EHL is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

A Division of Underwriters Laboratories Inc.

ACCREDITED IN ACCORDANCE WITH nelac

QUALITY ETHICS SERVICE

Environmental Health Laboratories

Client Contact / Database Corrections

Date of Request: 2 / 23 / 04 Time of Request: 2:00AM Requested By: [illegible]

Sample Number(s): 1000172 Manager Approval: [illegible]

Order Number: 91399 Method/Test: 531.1 / Carbamate

Note: All fields with bold titles must be completed.

1. Document the nature of the problem. Be as specific as possible.

The batch matrix spike does not meet method criteria. The matrix spike performed was not from your sample site. This is being communicated as required by the Arizona administrative code.

2. Client Contacted by: _____ Date/Time: _____
   Company Name: _____ Contact Person: _____
   Conversation Notes: _____

Note: When Section 2 is used, all fields must be completed.

3. Document the correction required. Be as specific as possible.

	Yes	No
Recollect Sample:	☐	☐
On Same Order:	☐	☐
New Order Created in Database:	☐	☐
Report with Qualifiers:	☐	☐
Cancel Analysis:	☐	☐
To go with EHL#:	☐	☐

Initials: _____ Order#: _____

Corrections Made By: _____ Date/Time: _____

Environmental Health Laboratories

Client Contact / Database Corrections

Date of Request: 2/19/04 Time of Request: 4:15PM Requested By: IAS

Sample Number(s): 1000174 Manager Approval: [illegible]

Order Number: 91399 Method/Test: 547/ Glyphosate/AMPA

Note: All fields with bold titles must be completed.

1. Document the nature of the problem. Be as specific as possible.

The batch matrix spike does not meet method criteria. The matrix spike performed was not from your sample site. This is being communicated as required by the Arizona administrative code.

2. Client Contacted by:_____ Date/Time:_____
   Company Name:_____ Contact Person:_____
   Conversation Notes:_____

Note: When Section 2 is used, all fields must be completed.

3. Document the correction required. Be as specific as possible.

	Yes	No
Recollect Sample:	☐	☐
On Same Order:	☐	☐
New Order Created in Database:	☐	☐
Report with Qualifiers:	☐	☐
Cancel Analysis:	☐	☐
To go with EHL#:	☐	☐

Initials:_____ Order#_____

Corrections Made By:_____ Date/Time:_____

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

*** SAMPLES TO BE TAKEN AT SOURCE ONLY ***

[_____] Red Rock PRD #2

System ID — System Name

[02/12/04] [14:00] (24 hr clock)

Sample date — Sample time

ADEQ Project Number

55-599557

Well ID Number

NEW SYSTEM YES ____ NO ____

Surface Water Intake ID Number

NEW P.O.E. YES ____ NO ____

Owner/Contact Person Name

Owner/Contact Person Phone Number

SAMPLE TYPE

[X] Compliance Monitoring

SAMPLE COLLECTION POINT / ID

[ ] Point of Entry# [_____]

This form is intended to be filled out completely, and all pages are to be submitted together. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form.

ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.

Please note:

The Arsenic MCL is currently 0.05 mg/L. However, on Jan. 23, 2006, the Arsenic MCL will be 0.01 mg/L.
There currently is no MCL for Uranium. However, on Dec. 8, 2003 the Uranium MCL will be 0.03 mg/L.

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION
1110 W. Washington St., PHOENIX, AZ 85007

Report #: 1000169-77

***INORGANIC CHEMICAL ANALYSIS ***

Analysis Method	MCL Value	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceed Report
	0.05	0.05	Arsenic	1005			☐	☐
	2.0	2.0	Barium	1010			☐	☐
	0.005	0.005	Cadmium	1015			☐	☐
	0.1	0.1	Chromium	1020			☐	☐
	1.3^	0.050	Copper (Action Level)	1022			☐	☐
	4.0	2.0	Fluoride	1025			☐	☐
	0.015^	0.0025	Lead (Action Level)	1030			☐	☐
	0.002	0.002	Mercury	1035			☐	☐
	10	5	Nitrate (as N)	1040			☐	☐
	1	0.5	Nitrite (as N)	1041			☐	☐
	0.05	0.05	Selenium	1045			☐	☐
	0.006	0.006	Antimony	1074			☐	☐
	0.004	0.004	Beryllium	1075			☐	☐
	0.2	0.2	Cyanide (as free cyanide)	1024			☐	☐
	0.1	0.1	Nickel	1036			☐	☐
	0.002	0.002	Thallium	1085			☐	☐

^ Action Limit

>>>>> **LABORATORY INFORMATION** <<<<<

SPECIMEN NUMBER _____

Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by:[ ] Finalized by: [ ]

PHYSICAL ANALYSIS

	Sulfate	1055		
	Sodium	1052		
	pH	1925		
	Alkalinity	1927		
	Hardness/Calcium	1918		
	Langlier Index	1997		
	Temperature (˚C)	1996		
	Total Dissolved Solids-TDS	1930		

>>>>> **LABORATORY INFORMATION** <<<<<

SPECIMEN NUMBER _____

Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by:[ ] Finalized by: [ ]

*** SYNTHETIC ORGANIC CHEMICAL ANALYSIS ***

To be filled out by laboratory personnel

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceeds Reporting Limit
15.3	0.07	.0001	2,4-D	2105	02/25/04	< 0.0001		
515.3	0.05	.0002	2,4,5-TP (Silvex)	2110	02/25/04	< 0.0002		
525.2	0.002	.0002	Alachlor	2051	02/18/04	< 0.0002		
505	0.003	.001	Toxaphene	2020	02/20/04	< 0.001		
525.2	0.003	.0001	Atrazine	2050	02/18/04	< 0.0001		
531.1	0.04	.0009	Carbofuran	2046	02/20/04	< 0.0009		
515.3	0.001	.00004	Pentachlorophenol	2326	02/25/04	< 0.00004		
505	0.002	.0002	Chlordane	2959	02/20/04	< 0.0002		
504.1	0.0002	.00002	Dibromochloropropane (DBCP)	2931	02/23/04	< 0.00002		
504.1	0.00005	.00001	Ethylene Dibromide (EDB)	2946	02/23/04	< 0.00001		
525.2	0.0004	.00004	Heptachlor	2065	02/18/04	< 0.00004		
525.2	0.0002	.00002	Heptachlor Epoxide	2067	02/18/04	< 0.00002		
525.2	0.0002	.00002	Lindane	2010	02/18/04	< 0.00002		
525.2	0.04	.0001	Methoxychlor	2015	02/18/04	< 0.0001		
	0.0005	.0001	PCB:Polychlorinated Biphenyls*	2383				
525.2	0.0002	.00002	Benzo(a)pyrene	2306	02/18/04	< 0.00002		
15.3	0.2	.001	Dalapon	2031	02/25/04	< 0.001		
525.2	0.006	.0006	Di(2-ethylhexyl)phthalate	2039	02/18/04	< 0.0006		
525.2	0.4	.0006	Di(2-ethylhexyl)adipate	2035	02/18/04	< 0.0006		
515.3	0.007	.0002	Dinoseb	2041	02/25/04	< 0.0002		
	3x10-8	5x10-9	2,3,7,8-TCDD (Dioxin)	2063				
549.2	0.02	.0004	Diquat	2032	02/17/04	< 0.0004		
548.1	0.1	.009	Endothall	2033	02/16/04	< 0.009		
525.2	0.002	.00001	Endrin	2005	02/18/04	< 0.00001		
547	0.7	.006	Glyphosate	2034	02/19/04	< 0.006		
525.2	0.001	.0001	Hexachlorobenzene	2274	02/18/04	< 0.0001		
525.2	0.05	.0001	Hexachlorocyclopentadiene	2042	02/18/04	< 0.0001		
531.1	0.2	.002	Oxamyl	2036	02/20/04	< 0.002		
515.3	0.5	.0001	Picloram	2040	02/25/04	< 0.0001		
525.2	0.004	.00007	Simazine	2037	02/18/04	< 0.00007		

* Aroclor results may be submitted in lieu of PCB

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER 1000169

Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [AEL Project #04020117]

Reviewed by: [Steve Dungy] Finalized by: [[illegible]]

Report #: 1000169-77

AROCLOR (PCBs SCREENING TEST)

Analysis Method	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds** Reporting Limit
05	0.00008	Aroclor 1016	2388	02/20/04	< 0.00008	☐
505	0.02	Aroclor 1221	2390	02/20/04	< 0.02	☐
505	0.0005	Aroclor 1232	2392	02/20/04	< 0.0005	☐
505	0.0003	Aroclor 1242	2394	02/20/04	< 0.0003	☐
505	0.0001	Aroclor 1248	2396	02/20/04	< 0.0001	☐
505	0.0001	Aroclor 1254	2398	02/20/04	< 0.0001	☐
505	0.0002	Aroclor 1260	2400	02/20/04	< 0.0002	☐

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

SPECIMEN NUMBER 1000177
Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]
Comments: [AEL Project #04020117]
Reviewed by: [Steve Dougherty] Finalized by: [[illegible]]

*** VOLATILE ORGANIC CHEMICAL ANALYSIS ***

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceeds Reporting Limit
	0.007	0.0005	1,1-Dichloroethylene	2977			☐	☐
	0.2	0.0005	1,1,1-Trichloroethane	2981			☐	☐
	0.005	0.0005	1,1,2-Trichloroethane	2985			☐	☐
	0.005	0.0005	1,2-Dichloroethane	2980			☐	☐
	0.005	0.0005	1,2-Dichloropropane	2983			☐	☐
	0.005	0.0005	Benzene	2990			☐	☐
	0.005	0.0005	Carbon Tetrachloride	2982			☐	☐
	0.07	0.0005	cis-1,2-Dichloroethylene	2380			☐	☐
	0.7	0.0005	Ethylbenzene	2992			☐	☐
	0.1	0.0005	(mono)chlorobenzene	2989			☐	☐
	0.6	0.0005	o-Dichlorobenzene	2968			☐	☐
	0.075	0.0005	para-Dichlorobenzene	2969			☐	☐
	0.1	0.0005	Styrene	2996			☐	☐
	0.005	0.0005	Tetrachloroethylene	2987			☐	☐

*** VOLATILE ORGANIC CHEMICAL ANALYSIS ***

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceeds Reporting Limit
	1	0.0005	Toluene	2991			☐	☐
	0.1	0.0005	trans-1,2-Dichloroethylene	2979			☐	☐
	0.005	0.0005	Trichloroethylene	2984			☐	☐
	0.002	0.0005	Vinyl Chloride	2976			☐	☐
	10	0.0015	Xylenes, total	2955			☐	☐
	0.07	0.0005	1,2,4-Trichlorobenzene	2378			☐	☐
	0.005	0.0005	Dichloromethane	2964			☐	☐

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER _____

Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by:[ ] Finalized by: [ ]

Date Public Water System Notified: [ ]

*** RADIOCHEMICAL ANALYSIS ***

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL	Exceeds Reporting Limit
	15 Pci/L		Adjusted Gross Alpya	4000			☐	
		3 Pci/L	Gross Alpha	4002				☐
	30 ppb	(reserved)	Combined Uranium	4006			☐	☐
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium	4010			☐	☐
		1 pCi/L	Radium 226	4020				☐
		1 pCi/L	Radium 228	4030				
	4 mrem	3 pCi/L	Gross Beta	4100			☐	☐
	20,000 pCi/L	1000 pCi/L	Tritium	4102			☐	☐
		10 pCi/L	Strontium-89	4172				☐
	8 pCi/L	2 pCi/L	Strontium-90	4174			☐	☐
		1 pCi/L	Iodine-131	4264				☐
		10 pCi/L	Cesium-134	4270				☐

>>>>> LABORATORY INFORMATION <<<<<

To be filled out by laboratory personnel

SPECIMEN NUMBER _____

Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]

Comments: [ ]

Reviewed by:[ ] Finalized by: [ ]

Date Public Water System Notified: [ ]

*** ASBESTOS ANALYSIS ***

Analysis Method	MCL	Contaminant Name	Cont. Code	Analysis Run Date	Results*	Exceeds MCL
EM	7 MFL	Asbestos	1094	_____	_____	☐

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

SPECIMEN NUMBER _____
Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]
Comments: [ ]
Reviewed by:[ ] Finalized by: [ ]
Date Public Water System Notified: [ ]

*** MICROBIOLOGICAL ANALYSIS ***

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date / Time	Analysis Run Date / Time	Result
_____	Present/ 1 or more Coliform	Total Coliform	3000	_____	_____	_____

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date / Time	Analysis Run Date / Time	Result
_____	Present/ 1 or more Coliform	Total Coliform	3013	_____	_____	_____

>>>>> LABORATORY INFORMATION <<<<<
To be filled out by laboratory personnel

SPECIMEN NUMBER _____
Lab ID Number: [AZ 0 / 4 / 3 / 2] Name: [Environmental Health Laboratories]
Comments: [ ]
Reviewed by:[ ] Finalized by: [ ]
Date Public Water System Notified: [ ]
DWAR9: Revised 2003

INSTRUCTIONS FOR USING THE ARIZONA DRINKING WATER SOURCE APPROVAL REPORTING FORM

DWAR 9: Revised 2003

SYSTEM ID: This is a unique 5 digit Public Water System Identification (PWSID) number assigned to each public water system by ADEQ.

SYSTEM NAME: This should be the legal name which the water system will be known as when the system is built. Always notify the Department in writing of any name or ownership change.

ADEQ PROJECT NUMBER: This is the number assigned by ADEQ when the project is first submitted for an "Approval to Construct".

NEW SYSTEM: If this is a new system and a system id number has not yet been assigned by ADEQ, then mark "YES", and be sure that the project number is filled in.

NEW POE: If this source represents a new point of entry (POE) for your system, then mark "YES" on the form. This will allow ADEQ to assign a new point of entry number and the appropriate monitoring year for this entry point.

WELL ID NUMBER: The Department of Water Resources' registration number goes here. This number always begins with 55-. If the new source does not constitute a new point of entry, fill in the existing point of entry number that this source is joining.

SURFACE WATER INTAKE ID NUMBER: This number must be assigned by ADEQ. If the new source does not constitute a new point of entry, fill in the existing point of entry number that this source is joining.

SAMPLE DATE: The date the speciman was collected in mm/dd/yy format.

SAMPLE TIME: The time the speciman was collected in hh:mm format (24 hr clock time).

OWNER/CONTACT PERSON NAME: The first and last name of the owner or owner's representative, (contact person) who should be contacted with sample results.

OWNER/CONTACT PHONE #: The daytime phone number of the owner or owner's representative, (contact person) who should be contacted with sample results.

SAMPLE TYPE: The compliance reason for speciman collection. Only the relevant sample types for each contaminant group are provided on the ADEQ forms.

SPECIMEN NUMBER: A unique 15 character (max) alphanumeric code that identifies a particular sample used to test one contaminant or one category of contaminants (i.e., Microbiological, Inorganic, Organic, VOC) for specific sampling event. If reporting on different reporting forms, a different (unique) number is required for each contaminant group and for each report.

NOTE: These definitions are general in nature. For specific questions regarding your laboratory submittal, please contact the Arizona Department of Environmental Quality (ADEQ) Drinking Water Section at 1-800-234-5677, ext. 2236, or (602) 207-2236

www.azdeq.state.az.us - water quality - safe drinking water - forms reports and guidelines - lab reporting forms - Drinking Water Source Approval Form 71 KB

Note: This report may not be reproduced, except in full, without written approval from Environmental Health Laboratories (EHL). EHL is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory. These results may not meet the NELAP standard but satisfy the requirements for this project.

SUBCONTRACT LABORATORY:

ENVIRONMENTAL HEALTH LABORATORIES
110 S. Hill Street South Bend, IN 46617
(219) 233-4777 (800) 332-4345 FAX (219) 233-8207 Project Manager: Matt Hayes

ORDER # 91399

Client	Aerotech Environmental Laboratories
Address	4455 S. Park Ave., Suite 110
City, State, Zip	Tucson AZ 85714
Contact	Lorena Leal - lleal@palabs.com
Phone	(520) 807-3801
Fax	(520) 807-3803

STATE (OF SAMPLE ORIGIN): AZ
PROJECT NUMBER: 04020117
SAMPLER: Teri Thornberry
P.O. No.: ~~KB022~~ 3029

Page 1 of 1
Fax Results Y N
email Results Y N
email Address

PROJECT INFORMATION

SYSTEM NAME Red Rock DRD #2
PWS ID #
POE ID # WELL ID # Will FAX
COMPLIANCE ✓ YES ___ NO
STATE FORM ✓ YES ___ NO
NEW SOURCE ✓ YES ___ NO

ANALYSES REQUESTED

EHL LAB #	COLLECTION DATE	COLLECTION TIME	SAMPLING SITE	SAMPLE MATRIX	504	504 TRIP BLANK	515.3	531.1	525.2	547	548	549	505	# of sample containers
1000169	2/12/04	1400	Well Head	DW	X									2
1000170	12/19/03	1345	LTB			X								1
1000171	2/12	1400	Well Head				X							3
1000172								X						2
1000173									X					2
1000174										X				2
1000175											X			2
1000176												X		1
1000177													X	2
													~~X~~ SS 2-13-04	

LAB COMMENTS:

Date	Time	Samples Relinquished By	Samples Received By
2/12/04			UPS
02/13/04	09:30 AM	11:30 AM	

All services are performed subject to the Terms & Conditions on the reverse side.

Aerotech Environmental Laboratories Sample Receipt Checklist Project checked by:_____

Accession Number: 04020117		Checklist completed by: 2/12/04 Signature/Date	
Client Name: KL			
Matrix: DW	Carrier Name: client	Date/Time Rec'd: 2/12/04 By: B	1455

Temperature of Samples? 24.2°C Circle one: Blue Ice Wet Ice Not Present

	Yes	No	Not Present
Shipping container/cooler in good condition?			
Custody seals intact on shipping container/cooler?			
Custody seals intact on sample containers?			
Chain of Custody present and relinquished/received properly?			
Chain of Custody agrees with sample labels?			
Samples in proper containers/bottles?			
Sample containers intact?			
All samples received within holding time?			
Do different containers of the same sample vary in appearance?			If Yes,Contact PM
40mL vials for volatiles & SOCs received with zero headspace?			

Containers:
Brass Sleeve____
Glass Jar____
Methanol____
Plastic Bag____

Total number of bottles received: 30 | IH sample media:

Number of containers received by preservative (by sample number):

Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-General	5														
B-HNO3	1														
C-H2SO4	2														
D-HCl	3	1													
E-Na2S2O3	9	1													
F-NaOH	1														
G-Sulfide															
H-525/515	5														
I-MCAA	2														
J-Methanol															
K-HAA															

**If more than 15 samples are rec'd, please continue on separate sheet(s)*

Water-pH acceptable upon receipt? Yes X No N/A

Preservative & pH		pH of samples upon receipt	If sample received with improper pH, list sample number and adjustments
Metals	<2	<2	
Nutrients	<2	<2	
Total Phenols	<2		
413 (O&G)	<2		
418 (TPH)	<2		
Cyanide	>12	>12	
Sulfide	>9		

Any No response must be detailed in the comments section below. Please continue on back if you run out of space.

Comments: Sampled w/in 2hrs

Corrective Action:

Aerotech Environmental Laboratories Sample Receipt Checklist Project checked by:_____

Laboratory Number: 04020117	Checklist completed by: 3/1/04 Signature/Date		
Client Name:			
Matrix: DW	Carrier Name: client	Date/Time Rec'd: 3/1/04	By: B 1455

Temperature of Samples? 2.4/2.2°C *Circle one:* Blue Ice Wet Ice (Not Present)

	Yes	No**	Not Present
Shipping container/cooler in good condition?	X		
Custody seals intact on shipping container/cooler?			X
Custody seals intact on sample containers?			
Chain of Custody present and relinquished/received properly?	X		
Chain of Custody agrees with sample labels?	X		
Samples in proper containers/bottles?	X		
Sample containers intact?	X		
All samples received within holding time?	X		
Is there sufficient sample volume to perform the tests?	X		
Do different containers of the same sample vary in appearance?		X	If Yes,Contact PM
40mL vials for volatiles & SOCs received with zero headspace?			0

Containers:
Brass Sleeve____
Glass Jar____
Methanol____
Plastic Bag____

Total number of bottles received: 1	IH sample media:

Number of containers received by preservative (by sample number):

Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-General															
B-HNO3															
C-H2SO4															
D-HCl															
E-Na2S2O3															
F-NaOH	+10	+10	1												
G-Sulfide															
H-Na Sulfite															
I-MCAA															
J-Methanol															
K-HAA															
L-Other															

**If more than 15 samples are rec'd, please continue on separate sheet(s)*

Water-pH acceptable upon receipt? Yes X No N/A

Preservative & pH		pH of samples upon receipt	If sample received with improper pH, list sample number and adjustments
Metals	<2		
Nutrients	<2		
Total Phenols	<2		
413 (O&G)	<2		
418 (TPH)	<2		
Cyanide	>12	>12	
Sulfide	>9		

Any No response must be detailed in the comments section below. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001.02, Section 1.8.6. Continue on back if additional space is needed.

Comments: (1) Sample #2 is CN resample.

Corrective Action:

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Main Lab - 4645 E. Cotton Center Blvd., Bldg. 3, Suite 189, Phoenix AZ 85040
www.palabs.com (602) 437-3321 or call toll free 1-866-7PALABS (1-866-772-5227)
North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027
(623) 780-4700 967-1310 FAX (623) 780-2934
Tucson - 4455 S. Park Ave., Suite 110 Tucson, AZ 85714
(520) 807-3801 FAX (520) 807-3803

Lab Number: 04020117

ustomer Number: | Page 1 of 1

ustomer: AC Tech

ddress: PO Box 210

ty, State, Zip: Sahuarita, AZ

ontact: | Sampler:

one: | Project Name:

X: | Project Number:

O. Number: | FAX Results: Y N

Mail: | E-mail Results: Y N

Public Water System Information

System Name: Red Rock DRD #2

PWS No.: | DWR No.:

POE: | Report To: ADEQ **Y** EPA **N**

Collection Point: Well Head

Location (City): Red Rock

New System: **Y** **N** New POE: **Y** **N**

Sample Receipt

mperature 24.2 °C

ody Seals: Yes ____ No X

uy Seals Intact: Yes ____ No X

tal # of Containers: ____

Turn Around Time

____ 24 hours ____ 48 Hours

____ 72 hours

____ 5 Working Days

X Standard 10 Working Days

Subject to scheduling & availability (surcharges apply).

Analyses Requested

Sample Information

Lab #	Sample Identification	Date	Time	Matrix	Dioxin	Radiochem	Asbestos	504, 505, 515, 525	531, 547, 548, 549	(Hardness-Ca), Na	As, Ba, Cd, Cr, Cu, Pb, Se	Sb, Be, Ni, Tl, Hg	F, NO_2, NO_3, SO_4, TDS,	Alkalinity, CN, Lang. Index	Total Coliform	524.2	# of Sample Bottles
01	Well Head	2/12/04	1400	Water	X	X	X	X	X	X	X	X	X	X	X	X	

ructions / Special Requirements: **Field pH:** 6.8 **Field Temperature:** 20 C

Well Head

Date	Time	Samples Relinquished By	Samples Received By
2/12/04	1455	[signature]	[signature]
2/12/04			UPS / Velocity
2-12-04	0700	Velocity [signature]	[signature]

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Well Head
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004 2:00:00 PM
Lab ID:	04020117-01B	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, TOTAL RECOVERABLE		**E200.7**				Analyst: **TD**
Calcium	31	2.0		mg/L	1	2/18/2004
Hardness, Calcium (As CaCO3)	77	5.0		mg/L	1	2/18/2004
Sodium	53	2.0		mg/L	1	2/18/2004
ICP/MS METALS, TOTAL RECOVERABLE		**E200.8**				Analyst: **HK**
Antimony	< 0.0010	0.0010		mg/L	1	2/17/2004 3:38:16 PM
Arsenic	0.0038	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Barium	0.086	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Beryllium	< 0.0010	0.0010		mg/L	1	2/18/2004
Cadmium	< 0.0010	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Chromium	0.0017	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Copper	0.0048	0.0010		mg/L	1	2/18/2004
Lead	< 0.0010	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Nickel	0.0014	0.0010		mg/L	1	2/16/2004 3:01:48 PM
Selenium	< 0.0010	0.0010		mg/L	1	2/17/2004 3:38:16 PM
Thallium	< 0.0010	0.0010		mg/L	1	2/16/2004 3:01:48 PM
MERCURY, TOTAL		**E245.1**				Analyst: **CU**
Mercury	< 0.00020	0.00020		mg/L	1	2/17/2004 1:39:23 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
(2) AEL - Knudsen Laboratory

ain Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.con
cson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Well Head
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004 2:00:00 PM
Lab ID:	04020117-01D	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1,1-Trichloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1,2-Trichloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1-Dichloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,1-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2,3-Trichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2,3-Trichloropropane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2,4-Trichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2,4-Trimethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	Q3	mg/L	1	2/16/2004
1,2-Dibromoethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2-Dichloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,2-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,3,5-Trimethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,3-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,3-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
1,4-Dichlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
2,2-Dichloropropane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
2-Chlorotoluene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
4-Chlorotoluene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
4-Isopropyltoluene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Benzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Bromobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Bromochloromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Bromodichloromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Bromoform	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Bromomethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Carbon tetrachloride	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Chlorobenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Chloroethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Chloroform	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Chloromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
cis-1,2-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
cis-1,3-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Dibromochloromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Dibromomethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Dichlorodifluoromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental Laboratories

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Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Well Head
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004 2:00:00 PM
Lab ID:	04020117-01D	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		**E524.2**				Analyst: **JR**
Ethylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Hexachlorobutadiene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Isopropylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
m,p-Xylene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Methylene chloride	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Naphthalene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
n-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
n-Propylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
o-Xylene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
sec-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Styrene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
tert-Butylbenzene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Tetrachloroethene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Toluene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
trans-1,2-Dichloroethene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
trans-1,3-Dichloropropene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Trichloroethene	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Trichlorofluoromethane	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Trihalomethanes, Total	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Vinyl chloride	< 0.00050	0.00050	Q3	mg/L	1	2/16/2004
Surr: 1,2-Dichlorobenzene-d4	105	70-130		%REC	1	2/16/2004
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	2/16/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Well Head
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004 2:00:00 PM
Lab ID:	04020117-01E	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
COLIFORM, TOTAL(1)		**M9223 B**				Analyst: **JF**
Total Coliform (Colilert)	0	0		Pos/Neg	1	2/12/2004 4:20:00 PM
Escherichia Coli	0	0		Pos/Neg	1	2/12/2004 4:20:00 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental — Analytical Report

Date: *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Trip Blank
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004
Lab ID:	04020117-02A	**Matrix:**	TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2				Analyst: **JR**
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1,1-Trichloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1,2-Trichloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1-Dichloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1-Dichloroethene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,1-Dichloropropene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2,3-Trichlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2,3-Trichloropropane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2,4-Trichlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2,4-Trimethylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020		mg/L	1	2/16/2004
1,2-Dibromoethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2-Dichloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,2-Dichloropropane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,3,5-Trimethylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,3-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
1,3-Dichloropropane	< 0.00050	0.00050		mg/L	1	2/16/2004
1,4-Dichlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
2,2-Dichloropropane	< 0.00050	0.00050		mg/L	1	2/16/2004
2-Chlorotoluene	< 0.00050	0.00050		mg/L	1	2/16/2004
4-Chlorotoluene	< 0.00050	0.00050		mg/L	1	2/16/2004
4-Isopropyltoluene	< 0.00050	0.00050		mg/L	1	2/16/2004
Benzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Bromobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Bromochloromethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Bromodichloromethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Bromoform	< 0.00050	0.00050		mg/L	1	2/16/2004
Bromomethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Carbon tetrachloride	< 0.00050	0.00050		mg/L	1	2/16/2004
Chlorobenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Chloroethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Chloroform	< 0.00050	0.00050		mg/L	1	2/16/2004
Chloromethane	< 0.00050	0.00050		mg/L	1	2/16/2004
cis-1,2-Dichloroethene	< 0.00050	0.00050		mg/L	1	2/16/2004
cis-1,3-Dichloropropene	< 0.00050	0.00050		mg/L	1	2/16/2004
Dibromochloromethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Dibromomethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Dichlorodifluoromethane	< 0.00050	0.00050		mg/L	1	2/16/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental Laboratories

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Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	Trip Blank
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/12/2004
Lab ID:	04020117-02A	**Matrix:**	TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2				Analyst: **JR**
Ethylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Hexachlorobutadiene	< 0.00050	0.00050		mg/L	1	2/16/2004
Isopropylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
m,p-Xylene	< 0.00050	0.00050		mg/L	1	2/16/2004
Methylene chloride	< 0.00050	0.00050		mg/L	1	2/16/2004
Naphthalene	< 0.00050	0.00050		mg/L	1	2/16/2004
n-Butylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
n-Propylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
o-Xylene	< 0.00050	0.00050		mg/L	1	2/16/2004
sec-Butylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Styrene	< 0.00050	0.00050		mg/L	1	2/16/2004
tert-Butylbenzene	< 0.00050	0.00050		mg/L	1	2/16/2004
Tetrachloroethene	< 0.00050	0.00050		mg/L	1	2/16/2004
Toluene	< 0.00050	0.00050		mg/L	1	2/16/2004
trans-1,2-Dichloroethene	< 0.00050	0.00050		mg/L	1	2/16/2004
trans-1,3-Dichloropropene	< 0.00050	0.00050		mg/L	1	2/16/2004
Trichloroethene	< 0.00050	0.00050		mg/L	1	2/16/2004
Trichlorofluoromethane	< 0.00050	0.00050		mg/L	1	2/16/2004
Trihalomethanes, Total	< 0.00050	0.00050		mg/L	1	2/16/2004
Vinyl chloride	< 0.00050	0.00050		mg/L	1	2/16/2004
Surr: 1,2-Dichlorobenzene-d4	98.6	70-130		%REC	1	2/16/2004
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	2/16/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental **Analytical Report** **Date:** *12-Mar-04*

CLIENT:	YL Technology	**Client Sample ID:**	DRD Red Rock
Lab Order:	04020117	**Tag Number:**	
Project:	Red Rock New Source	**Collection Date:**	2/29/2004 10:00:00 AM
Lab ID:	04020117-03F	**Matrix:**	DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CYANIDE, TOTAL		**M4500-CN E**				Analyst: **AT**
Cyanide, Total	< 0.020	0.020		mg/L	1	3/5/2004 12:00:00 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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(623) 780-4700 967-1310 FAX (623) 780-2934
Tucson - 4455 S. Park Ave., Suite 110 Tucson, AZ 85714
(520) 807-3801 FAX (520) 807-3803

Lab Number: 04020117

stomer Number: | Page 1 of 1

stomer: 4C Tech
dress: PO Box 390
, State, Zip: Sahuarita Az
ntact: | Sampler:
one: | Project Name:
K: | Project Number:
. Number: | FAX Results: Y N
lail: | E-mail Results: Y N

Public Water System Information

System Name: Red Rock DRD #2
PWS No.: | DWR No.: 55-599557
POE: | Report To: ADEQ Y EPA N
Collection Point: Well Head
Location (City): Red Rock
New System Y N | New POE Y N

Sample Receipt

perature 24.2 °C
ly Seals: Yes ____ No X
ody Seals Intact: Yes ____ No X
# of Containers: ____

Turn Around Time

____ 24 hours ____ 48 Hours
____ 72 hours
____ 5 Working Days
X Standard 10 Working Days
Subject to scheduling & availability (surcharges apply).

Analyses Requested

Sample Information

Lab #	Sample Identification	Date	Time	Matrix	Dioxin	Radiochem	Asbestos	504, 505, 515, 525	531, 547, 548, 549	(Hardness-Ca), Na	As, Ba, Cd, Cr, Cu, Pb, Se	Sb, Be, Ni, Tl, Hg	F, NO_2, NO_3, SO_4, TDS,	Alkalinity, CN, Lang. Index	Total Coliform	524.2	# of Sample Bottles
	Well Head	2/12/04	1400	Wtr	X	X	X	X	X	X	X	X	X	X	X	X	
	DRD Red Rock	2-29-04	1000	Wtr										X			10
	DRD Red Rock	2-29-04	1000											X			1

tions / Special Requirements: **Field pH:** 6.8 **Field Temperature:** 20°C
Well call with 55#

Date	Time	Samples Relinquished By	Samples Received By
2/12/04	1455	[signature]	[signature] VPS/Velocity
2-12-04			
2-2-04	09:15	VELOCITY	[signature]

vices are performed subject to the Terms & Conditions on the reverse side.

Date: *12-Mar-04*

Aerotech Environmental

CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID: **MB-16480** SampType: **MBLK** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/19/2004** SeqNo: **523659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	< 2.0	2.0									
Hardness, Calcium (As CaCO3)	< 5.0	5.0									
Sodium	< 2.0	2.0									

Sample ID: **LCS-16480** SampType: **LCS** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.990	2.0	10.5	0	95.1	85	115				
Sodium	9.650	2.0	10	0	96.5	85	115				

Sample ID: **LCSD-16480** SampType: **LCSD** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.990	2.0	10.5	0	95.1	85	115	9.990	0	20	
Sodium	9.950	2.0	10	0	99.5	85	115	9.650	3.06	20	

Sample ID: **04020112-01B MS** SampType: **MS** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	58.30	2.0	10.5	47.50	103	70	130				
Sodium	89.80	2.0	10	76.70	131	70	130				M6

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID: **04020945-02B MS** SampType: **MS** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	51.90	2.0	10.5	41.30	101	70	130				

Sample ID: **04020112-01B MSD** SampType: **MSD** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523549**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	58.10	2.0	10.5	47.50	101	70	130	58.30	0.344	20	
Sodium	89.80	2.0	10	76.70	131	70	130	89.80	0	20	M6

Sample ID: **04020945-02B MSD** SampType: **MSD** TestCode: **200.7** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44198**
Client ID: Batch ID: **16480** TestNo: **E200.7** Analysis Date: **2/18/2004** SeqNo: **523561**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	52.30	2.0	10.5	41.30	105	70	130	51.90	0.768	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID: **MB-16463** SampType: **MBLK** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0010	0.0010									
Barium	< 0.0010	0.0010									
Cadmium	< 0.0010	0.0010									
Chromium	< 0.0010	0.0010									
Lead	< 0.0010	0.0010									
Nickel	< 0.0010	0.0010									
Selenium	< 0.0010	0.0010									
Thallium	< 0.0010	0.0010									

Sample ID: **MB-16463** SampType: **MBLK** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44168**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/17/2004** SeqNo: **523207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	< 0.0010	0.0010									
Selenium	< 0.0010	0.0010									

Sample ID: **MB-16463** SampType: **MBLK** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44204**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/18/2004** SeqNo: **524106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	< 0.0010	0.0010									
Copper	< 0.0010	0.0010									

Sample ID: **LCS-16463** SampType: **LCS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.05202	0.0010	0.05	0	104	85	115				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID: **LCS-16463** SampType: **LCS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.05178	0.0010	0.05	0	104	85	115				
Cadmium	0.05373	0.0010	0.05	0	107	85	115				
Chromium	0.05598	0.0010	0.05	0	112	85	115				
Lead	0.05699	0.0010	0.05	0	114	85	115				
Nickel	0.05115	0.0010	0.05	0	102	85	115				
Selenium	0.05700	0.0010	0.05	0	114	85	115				
Thallium	0.05121	0.0010	0.05	0	102	85	115				

Sample ID: **LCS-16463** SampType: **LCS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44168**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/17/2004** SeqNo: **523203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05273	0.0010	0.05	0	105	85	115				
Selenium	0.05593	0.0010	0.05	0	112	85	115				

Sample ID: **LCS-16463** SampType: **LCS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44204**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/18/2004** SeqNo: **524107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.04371	0.0010	0.05	0	87.4	85	115				
Copper	0.05092	0.0010	0.05	0	102	85	115				

Sample ID: **LCSD-16463** SampType: **LCSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.04921	0.0010	0.05	0	98.4	85	115	0.05202	5.55	20	
Barium	0.05463	0.0010	0.05	0	109	85	115	0.05178	5.36	20	

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID **LCSD-16463** SampType: **LCSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.05006	0.0010	0.05	0	100	85	115	0.05373	7.07	20	
Chromium	0.05318	0.0010	0.05	0	106	85	115	0.05598	5.13	20	
Lead	0.05457	0.0010	0.05	0	109	85	115	0.05699	4.34	20	
Nickel	0.04821	0.0010	0.05	0	96.4	85	115	0.05115	5.92	20	
Selenium	0.05459	0.0010	0.05	0	109	85	115	0.05700	4.32	20	
Thallium	0.05728	0.0010	0.05	0	115	85	115	0.05121	11.2	20	

Sample ID **LCSD-16463** SampType: **LCSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44168**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/17/2004** SeqNo: **523205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05303	0.0010	0.05	0	106	85	115	0.05273	0.567	20	
Selenium	0.05587	0.0010	0.05	0	112	85	115	0.05593	0.107	20	

Sample ID **LCSD-16463** SampType: **LCSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44204**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/18/2004** SeqNo: **524111**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.04464	0.0010	0.05	0	89.3	85	115	0.04371	2.11	20	
Copper	0.05041	0.0010	0.05	0	101	85	115	0.05092	1.01	20	

Sample ID **04020117-01B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.06257	0.0010	0.05	0.003820	118	70	130				
Barium	0.1390	0.0010	0.05	0.08617	106	70	130				
Cadmium	0.05319	0.0010	0.05	0	106	70	130				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID: **04020117-01B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.05973	0.0010	0.05	0.001730	116	70	130				
Lead	0.05904	0.0010	0.05	0	118	70	130				
Nickel	0.05329	0.0010	0.05	0.001400	104	70	130				
Selenium	0.06014	0.0010	0.05	0.001590	117	70	130				
Thallium	0.06139	0.0010	0.05	0	123	70	130				

Sample ID: **04020914-04B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.06489	0.0010	0.05	0.01404	102	70	130				
Barium	0.05712	0.0010	0.05	0	114	70	130				
Cadmium	0.05085	0.0010	0.05	0	102	70	130				
Chromium	0.05559	0.0010	0.05	0.001730	108	70	130				
Lead	0.05737	0.0010	0.05	0	115	70	130				
Nickel	0.04909	0.0010	0.05	0	98.2	70	130				
Thallium	0.05812	0.0010	0.05	0	116	70	130				

Sample ID: **04020117-01B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44168**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/17/2004** SeqNo: **523166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05495	0.0010	0.05	0	110	70	130				
Selenium	0.05672	0.0010	0.05	0	113	70	130				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID: **04020117-01B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44204**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/18/2004** SeqNo: **524109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.04909	0.0010	0.05	0	98.2	70	130				
Copper	0.05567	0.0010	0.05	0.004750	102	70	130				

Sample ID: **04020914-04B MS** SampType: **MS** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44266**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/20/2004** SeqNo: **524213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05005	0.0010	0.05	0	100	70	130				
Selenium	0.04888	0.0010	0.05	0	97.8	70	130				

Sample ID: **04020117-01B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.05884	0.0010	0.05	0.003820	110	70	130	0.06257	6.14	20	
Barium	0.1360	0.0010	0.05	0.08617	99.8	70	130	0.1390	2.13	20	
Cadmium	0.05086	0.0010	0.05	0	102	70	130	0.05319	4.48	20	
Chromium	0.05742	0.0010	0.05	0.001730	111	70	130	0.05973	3.94	20	
Lead	0.05577	0.0010	0.05	0	112	70	130	0.05904	5.70	20	
Nickel	0.05081	0.0010	0.05	0.001400	98.8	70	130	0.05329	4.76	20	
Selenium	0.05520	0.0010	0.05	0.001590	107	70	130	0.06014	8.57	20	
Thallium	0.05808	0.0010	0.05	0	116	70	130	0.06139	5.54	20	

Sample ID: **04020914-04B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.07291	0.0010	0.05	0.01404	118	70	130	0.06489	11.6	20	

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID: **04020914-04B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44130**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/16/2004** SeqNo: **522713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	0.05549	0.0010	0.05	0	111	70	130	0.05712	2.89	20	
Cadmium	0.05790	0.0010	0.05	0	116	70	130	0.05085	13.0	20	
Chromium	0.06282	0.0010	0.05	0.001730	122	70	130	0.05559	12.2	20	
Lead	0.06432	0.0010	0.05	0	129	70	130	0.05737	11.4	20	
Nickel	0.05540	0.0010	0.05	0	111	70	130	0.04909	12.1	20	
Thallium	0.06610	0.0010	0.05	0	132	70	130	0.05812	12.8	20	M6

Sample ID: **04020117-01B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44168**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/17/2004** SeqNo: **523167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05466	0.0010	0.05	0	109	70	130	0.05495	0.529	20	
Selenium	0.05234	0.0010	0.05	0	105	70	130	0.05672	8.03	20	

Sample ID: **04020117-01B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44204**
Client ID: **Well Head** Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/18/2004** SeqNo: **524110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.04654	0.0010	0.05	0	93.1	70	130	0.04909	5.33	20	
Copper	0.05325	0.0010	0.05	0.004750	97.0	70	130	0.05567	4.44	20	

Sample ID: **04020914-04B MSD** SampType: **MSD** TestCode: **200.8** Units: **mg/L** Prep Date: **2/16/2004** RunNo: **44266**
Client ID: Batch ID: **16463** TestNo: **E200.8** Analysis Date: **2/20/2004** SeqNo: **524214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.05886	0.0010	0.05	0	118	70	130	0.05005	16.2	20	
Selenium	0.05653	0.0010	0.05	0	113	70	130	0.04888	14.5	20	

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
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Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W

Sample ID: **MB-16482** SampType: **MBLK** TestCode: **245.1_W** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44161**
Client ID: Batch ID: **16482** TestNo: **E245.1** Analysis Date: **2/17/2004** SeqNo: **523104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.00020									

Sample ID: **LCS-16482** SampType: **LCS** TestCode: **245.1_W** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44161**
Client ID: Batch ID: **16482** TestNo: **E245.1** Analysis Date: **2/17/2004** SeqNo: **523105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004990	0.00020	0.005	0	99.8	85	115				

Sample ID: **LCSD-16482** SampType: **LCSD** TestCode: **245.1_W** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44161**
Client ID: Batch ID: **16482** TestNo: **E245.1** Analysis Date: **2/17/2004** SeqNo: **523106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005000	0.00020	0.005	0	100	85	115	0.004990	0.200	20	

Sample ID: **04020867-01B MS** SampType: **MS** TestCode: **245.1_W** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44161**
Client ID: Batch ID: **16482** TestNo: **E245.1** Analysis Date: **2/17/2004** SeqNo: **523108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004990	0.00020	0.005	0	99.8	70	130				

Sample ID: **04020867-01B MSD** SampType: **MSD** TestCode: **245.1_W** Units: **mg/L** Prep Date: **2/17/2004** RunNo: **44161**
Client ID: Batch ID: **16482** TestNo: **E245.1** Analysis Date: **2/17/2004** SeqNo: **523109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005020	0.00020	0.005	0	100	70	130	0.004990	0.599	20	

Qualifiers:
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

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■ Corporate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID: **MB-R44079** SampType: **MBLK** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	< 0.40	0.40									
Nitrogen, Nitrate (As N)	< 0.20	0.20									
Nitrogen, Nitrite (As N)	< 0.20	0.20									
Sulfate	< 2.0	2.0									

Sample ID: **LCS-R44079** SampType: **LCS** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.860	0.40	2	0	93.0	90	110				
Nitrogen, Nitrate (As N)	1.980	0.20	2	0	99.0	90	110				
Nitrogen, Nitrite (As N)	2.000	0.20	2	0	100	90	110				
Sulfate	10.19	2.0	10	0	102	90	110				

Sample ID: **LCSD-R44079** SampType: **LCSD** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.860	0.40	2	0	93.0	90	110	1.860	0	20	
Nitrogen, Nitrate (As N)	1.990	0.20	2	0	99.5	90	110	1.980	0.504	20	
Nitrogen, Nitrite (As N)	1.990	0.20	2	0	99.5	90	110	2.000	0.501	20	
Sulfate	10.10	2.0	10	0	101	90	110	10.19	0.887	20	

Sample ID: **04020907-01AMS** SampType: **MS** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	2.360	0.40	2	0.6800	84.0	80	120				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID: **04020907-01AMS** SampType: **MS** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.480	0.20	2	0.9300	77.5	80	120				M7
Nitrogen, Nitrite (As N)	2.090	0.20	2	0	104	80	120				
Sulfate	30.28	2.0	10	21.80	84.8	80	120				

Sample ID: **04020907-01ADUP** SampType: **DUP** TestCode: **300_W** Units: **mg/L** Prep Date: RunNo: **44079**
Client ID: Batch ID: **R44079** TestNo: **E300** Analysis Date: **2/13/2004** SeqNo: **522203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.7100	0.40						0.6800	4.32	20	
Nitrogen, Nitrate (As N)	0.9700	0.20						0.9300	4.21	20	
Nitrogen, Nitrite (As N)	< 0.20	0.20						0	0	20	
Sulfate	21.93	2.0						21.80	0.595	20	

Qualifiers:
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID: MB-R44153	SampType: MBLK	TestCode: 524_W_SDW	Units: mg/L	Prep Date:	RunNo: 44153
Client ID:	Batch ID: R44153	TestNo: E524.2		Analysis Date: 2/16/2004	SeqNo: 522972

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	< 0.00050	0.00050									
1,1,1-Trichloroethane	< 0.00050	0.00050									
1,1,2,2-Tetrachloroethane	< 0.00050	0.00050									
1,1,2-Trichloroethane	< 0.00050	0.00050									
1,1-Dichloroethane	< 0.00050	0.00050									
1,1-Dichloroethene	< 0.00050	0.00050									
1,1-Dichloropropene	< 0.00050	0.00050									
1,2,3-Trichlorobenzene	< 0.00050	0.00050									
1,2,3-Trichloropropane	< 0.00050	0.00050									
1,2,4-Trichlorobenzene	< 0.00050	0.00050									
1,2,4-Trimethylbenzene	< 0.00050	0.00050									
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020									
1,2-Dibromoethane	< 0.00050	0.00050									
1,2-Dichlorobenzene	< 0.00050	0.00050									
1,2-Dichloroethane	< 0.00050	0.00050									
1,2-Dichloropropane	< 0.00050	0.00050									
1,3,5-Trimethylbenzene	< 0.00050	0.00050									
1,3-Dichlorobenzene	< 0.00050	0.00050									
1,3-Dichloropropane	< 0.00050	0.00050									
1,4-Dichlorobenzene	< 0.00050	0.00050									
2,2-Dichloropropane	< 0.00050	0.00050									
2-Chlorotoluene	< 0.00050	0.00050									
4-Chlorotoluene	< 0.00050	0.00050									
4-Isopropyltoluene	< 0.00050	0.00050									
Benzene	< 0.00050	0.00050									
Bromobenzene	< 0.00050	0.00050									
Bromochloromethane	< 0.00050	0.00050									
Bromodichloromethane	< 0.00050	0.00050									
Bromoform	< 0.00050	0.00050									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID: **MB-R44153** SampType: **MBLK** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: RunNo: **44153**
Client ID: Batch ID: **R44153** TestNo: **E524.2** Analysis Date: **2/16/2004** SeqNo: **522972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	< 0.00050	0.00050									
Carbon tetrachloride	< 0.00050	0.00050									
Chlorobenzene	< 0.00050	0.00050									
Chloroethane	< 0.00050	0.00050									
Chloroform	< 0.00050	0.00050									
Chloromethane	< 0.00050	0.00050									
cis-1,2-Dichloroethene	< 0.00050	0.00050									
cis-1,3-Dichloropropene	< 0.00050	0.00050									
Dibromochloromethane	< 0.00050	0.00050									
Dibromomethane	< 0.00050	0.00050									
Dichlorodifluoromethane	< 0.00050	0.00050									
Ethylbenzene	< 0.00050	0.00050									
Hexachlorobutadiene	< 0.00050	0.00050									
Isopropylbenzene	< 0.00050	0.00050									
m,p-Xylene	< 0.00050	0.00050									
Methylene chloride	< 0.00050	0.00050									
Naphthalene	< 0.00050	0.00050									
n-Butylbenzene	< 0.00050	0.00050									
n-Propylbenzene	< 0.00050	0.00050									
o-Xylene	< 0.00050	0.00050									
sec-Butylbenzene	< 0.00050	0.00050									
Styrene	< 0.00050	0.00050									
tert-Butylbenzene	< 0.00050	0.00050									
Tetrachloroethene	< 0.00050	0.00050									
Toluene	< 0.00050	0.00050									
trans-1,2-Dichloroethene	< 0.00050	0.00050									
trans-1,3-Dichloropropene	< 0.00050	0.00050									
Trichloroethene	< 0.00050	0.00050									
Trichlorofluoromethane	< 0.00050	0.00050									

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID: **MB-R44153** SampType: **MBLK** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: RunNo: **44153**
Client ID: Batch ID: **R44153** TestNo: **E524.2** Analysis Date: **2/16/2004** SeqNo: **522972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trihalomethanes, Total	< 0.00050	0.00050									
Vinyl chloride	< 0.00050	0.00050									
Surr: 1,2-Dichlorobenzene-d4	0.005420	0	0.005	0	108	70	130				
Surr: 4-Bromofluorobenzene	0.005450	0	0.005	0	109	70	130				

Sample ID: **LCS-R44153** SampType: **LCS** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: RunNo: **44153**
Client ID: Batch ID: **R44153** TestNo: **E524.2** Analysis Date: **2/16/2004** SeqNo: **522973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.005350	0.00050	0.005	0	107	70	130				
1,1,1-Trichloroethane	0.005100	0.00050	0.005	0	102	70	130				
1,1,2,2-Tetrachloroethane	0.005450	0.00050	0.005	0	109	70	130				
1,1,2-Trichloroethane	0.005510	0.00050	0.005	0	110	70	130				
1,1-Dichloroethane	0.005260	0.00050	0.005	0	105	70	130				
1,1-Dichloroethene	0.005260	0.00050	0.005	0	105	70	130				
1,1-Dichloropropene	0.005240	0.00050	0.005	0	105	70	130				
1,2,3-Trichlorobenzene	0.005750	0.00050	0.005	0	115	70	130				
1,2,3-Trichloropropane	0.005680	0.00050	0.005	0	114	70	130				
1,2,4-Trichlorobenzene	0.005450	0.00050	0.005	0	109	70	130				
1,2,4-Trimethylbenzene	0.005220	0.00050	0.005	0	104	70	130				
1,2-Dibromo-3-chloropropane	0.005320	0.0020	0.005	0	106	70	130				
1,2-Dibromoethane	0.005550	0.00050	0.005	0	111	70	130				
1,2-Dichlorobenzene	0.005240	0.00050	0.005	0	105	70	130				
1,2-Dichloroethane	0.005250	0.00050	0.005	0	105	70	130				
1,2-Dichloropropane	0.005360	0.00050	0.005	0	107	70	130				
1,3,5-Trimethylbenzene	0.005240	0.00050	0.005	0	105	70	130				
1,3-Dichlorobenzene	0.005240	0.00050	0.005	0	105	70	130				
1,3-Dichloropropane	0.005430	0.00050	0.005	0	109	70	130				
1,4-Dichlorobenzene	0.005240	0.00050	0.005	0	105	70	130				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID: **LCS-R44153** SampType: **LCS** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: RunNo: **44153**
Client ID: Batch ID: **R44153** TestNo: **E524.2** Analysis Date: **2/16/2004** SeqNo: **522973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	0.005190	0.00050	0.005	0	104	70	130				
2-Chlorotoluene	0.005240	0.00050	0.005	0	105	70	130				
4-Chlorotoluene	0.005270	0.00050	0.005	0	105	70	130				
4-Isopropyltoluene	0.005200	0.00050	0.005	0	104	70	130				
Benzene	0.005230	0.00050	0.005	0	105	70	130				
Bromobenzene	0.005260	0.00050	0.005	0	105	70	130				
Bromochloromethane	0.005550	0.00050	0.005	0	111	70	130				
Bromodichloromethane	0.005250	0.00050	0.005	0	105	70	130				
Bromoform	0.005460	0.00050	0.005	0	109	70	130				
Bromomethane	0.006050	0.00050	0.005	0	121	70	130				
Carbon tetrachloride	0.005080	0.00050	0.005	0	102	70	130				
Chlorobenzene	0.005180	0.00050	0.005	0	104	70	130				
Chloroethane	0.005230	0.00050	0.005	0	105	70	130				
Chloroform	0.005300	0.00050	0.005	0	106	70	130				
Chloromethane	0.004420	0.00050	0.005	0	88.4	70	130				
cis-1,2-Dichloroethene	0.005290	0.00050	0.005	0	106	70	130				
cis-1,3-Dichloropropene	0.005260	0.00050	0.005	0	105	70	130				
Dibromochloromethane	0.005410	0.00050	0.005	0	108	70	130				
Dibromomethane	0.005560	0.00050	0.005	0	111	70	130				
Dichlorodifluoromethane	0.005050	0.00050	0.005	0	101	70	130				
Ethylbenzene	0.005210	0.00050	0.005	0	104	70	130				
Hexachlorobutadiene	0.005050	0.00050	0.005	0	101	70	130				
Isopropylbenzene	0.005100	0.00050	0.005	0	102	70	130				
m,p-Xylene	0.01052	0.00050	0.01	0	105	70	130				
Methylene chloride	0.005380	0.00050	0.005	0	108	70	130				
Naphthalene	0.005720	0.00050	0.005	0	114	70	130				
n-Butylbenzene	0.005160	0.00050	0.005	0	103	70	130				
n-Propylbenzene	0.005120	0.00050	0.005	0	102	70	130				
o-Xylene	0.005250	0.00050	0.005	0	105	70	130				

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID: **LCS-R44153** SampType: **LCS** TestCode: **524_W_SDW** Units: **mg/L** Prep Date: RunNo: **44153**
Client ID: Batch ID: **R44153** TestNo: **E524.2** Analysis Date: **2/16/2004** SeqNo: **522973**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	0.005070	0.00050	0.005	0	101	70	130				
Styrene	0.005280	0.00050	0.005	0	106	70	130				
tert-Butylbenzene	0.005170	0.00050	0.005	0	103	70	130				
Tetrachloroethene	0.005330	0.00050	0.005	0	107	70	130				
Toluene	0.005200	0.00050	0.005	0	104	70	130				
trans-1,2-Dichloroethene	0.005250	0.00050	0.005	0	105	70	130				
trans-1,3-Dichloropropene	0.005340	0.00050	0.005	0	107	70	130				
Trichloroethene	0.005190	0.00050	0.005	0	104	70	130				
Trichlorofluoromethane	0.005040	0.00050	0.005	0	101	70	130				
Vinyl chloride	0.002190	0.00050	0.002	0	110	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.005330	0	0.005	0	107	70	130				
Surr: 4-Bromofluorobenzene	0.005420	0	0.005	0	108	70	130				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

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CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: ALKALINITY

Sample ID: **MB-R44116** SampType: **MBLK** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: RunNo: **44116**
Client ID: Batch ID: **R44116** TestNo: **M2320 B** Analysis Date: **2/16/2004** SeqNo: **522569**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0									
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0									
Alkalinity, Total (As CaCO3)	< 6.0	6.0									

Sample ID: **LCS-R44116** SampType: **LCS** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: RunNo: **44116**
Client ID: Batch ID: **R44116** TestNo: **M2320 B** Analysis Date: **2/16/2004** SeqNo: **522570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	252.0	6.0	250	0	101	90	110				

Sample ID: **04020867-01ADUP** SampType: **DUP** TestCode: **ALKALINITY** Units: **mg/L CaCO3** Prep Date: RunNo: **44116**
Client ID: Batch ID: **R44116** TestNo: **M2320 B** Analysis Date: **2/16/2004** SeqNo: **522573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	300.0	2.0						310.0	3.28	20	
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Total (As CaCO3)	300.0	6.0						310.0	3.28	20	

Qualifiers:
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

■ Main Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.com
■ Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803
■ Corporate Address: 1501 W. Knudson Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: Cyanide_W

Sample ID: **MB-R44712** SampType: **MBLK** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: RunNo: **44712**
Client ID: Batch ID: **R44712** TestNo: **M4500-CN E** Analysis Date: **3/5/2004** SeqNo: **529254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	< 0.020	0.020									

Sample ID: **LCS-R44712** SampType: **LCS** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: RunNo: **44712**
Client ID: Batch ID: **R44712** TestNo: **M4500-CN E** Analysis Date: **3/5/2004** SeqNo: **529255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1880	0.020	0.2	0	94.0	90	110				

Sample ID: **LCSD-R44712** SampType: **LCSD** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: RunNo: **44712**
Client ID: Batch ID: **R44712** TestNo: **M4500-CN E** Analysis Date: **3/5/2004** SeqNo: **529263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1940	0.020	0.2	0	97.0	90	110	0.1880	3.14	20	

Sample ID: **04030528-01FMS** SampType: **MS** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: RunNo: **44712**
Client ID: Batch ID: **R44712** TestNo: **M4500-CN E** Analysis Date: **3/5/2004** SeqNo: **529260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1860	0.020	0.2	0	93.0	80	120				

Sample ID: **04030528-01FMSD** SampType: **MSD** TestCode: **Cyanide_W** Units: **mg/L** Prep Date: RunNo: **44712**
Client ID: Batch ID: **R44712** TestNo: **M4500-CN E** Analysis Date: **3/5/2004** SeqNo: **529261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1850	0.020	0.2	0	92.5	80	120	0.1860	0.539	20	

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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■ Corporate Address: 1501 W. Knudsen Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

CLIENT: YL Technology
Work Order: 04020117
Project: Red Rock New Source

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID: MB-R44182	SampType: MBLK	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 44182
Client ID:	Batch ID: R44182	TestNo: M2540 C		Analysis Date: 2/17/2004	SeqNo: 523369

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 10	10									

Sample ID: LCS-R44182	SampType: LCS	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 44182
Client ID:	Batch ID: R44182	TestNo: M2540 C		Analysis Date: 2/17/2004	SeqNo: 523379

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1001	10	1000	0	100	90	110				

Sample ID: LCSD-R44182	SampType: LCSD	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 44182
Client ID:	Batch ID: R44182	TestNo: M2540 C		Analysis Date: 2/17/2004	SeqNo: 523380

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	987.0	10	1000	0	98.7	90	110	1001	1.41	10	

Sample ID: 04020984-01ADUP	SampType: DUP	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 44182
Client ID:	Batch ID: R44182	TestNo: M2540 C		Analysis Date: 2/17/2004	SeqNo: 523376

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	292.0	10						283.0	3.13	10	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

■ Main Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax. 623.445.6192 www.aeroenvirolabs.com
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■ Phoenix Facility: 4504 W. Kendall Drive, Phoenix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.651.4802 Fax: 623.780.7695 www.aerotechlabs.com

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FAX TRANSMITTAL SHEET

DATE: 4/7/04

WLB PROJECT #: 100050 RED ROCK

TO: FRANK POSTILLION / MARK WEINBERG

FROM: CHRISINDA BALLEW

FAX: 617-0588 / 299-5602

WLB FAX # 881-7492

COMMENTS: FRANK / MARK,

Here is the latest water quality info on well no. 2. Everything looks good.

Frank I am interested in the results you got from your samples lets talk when you get a chance.

Thanks,

Chris

THERE ARE A TOTAL OF 8 PAGES, INCLUDING THE COVER PAGE. IF ALL PAGES ARE NOT RECEIVED PROPERLY, PLEASE NOTIFY US IMMEDIATELY BY CALLING (520) 881-7480.

PLEASE DELIVER AS SOON AS POSSIBLE

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yl Technology

PO Box 390 Sahuarita, Az. 85629 Phone: (520) 625-1671

FAX TRANSMISSION COVER SHEET

Date: *April 7, 2004*

To: *WLB*

Attn: *Cressinda Balew*

Fax: *881-7192*

Re: *Red Rock #2*

Sender: *Karen Hartwell*

YOU SHOULD RECEIVE 7 PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL 520-625-1671.

Cressinda,

Per our conversation attached are the adeq forms for the above system. I'll send the complete package to you in the mail. The arsenic is level will be below the new limit. Call me if you have any questions.

Karen

Aerotech Environmental Laboratories

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DRINKING WATER SOURCE APPROVAL FORM

SAMPLES TO BE TAKEN AT SOURCE ONLY

SYSTEM ID	SYSTEM NAME
	Red Rock DRD #2
SAMPLE DATE	SAMPLE TIME (24 HR CLOCK)
02/12/04	14:00
OWNER/CONTACT PERSON NAME	OWNER/CONTACT PERSON PHONE NUMBER
Karen Hartwell/ Teri Thornsberry	(520) 625-1671
SAMPLING SITE ID	OWNER/CONTACT FAX NUMBER
Well Head	(520) 625-1922

SAMPLE COLLECTION POINT	I.D. NUMBER	SAMPLE TYPE
POINT OF ENTRY		X COMPLIANCE MONITORING

NEW SYSTEM			
X	YES		NO

NEW P.O.E.			
X	YES		NO

ADEQ PROJECT NUMBER

WELL ID NUMBER
55-599557

SURFACE WATER INTAKE I.D. NO.

This form is intended to be completely filled out and **ALL** pages submitted together for all microbiological and chemical tests detailed on this form. If more than one laboratory participated in the analyses, please attach a copy of the original laboratory report, signed by the performing laboratory, to the back of this form.

ALL RESULTS SHALL BE REPORTED IN MILLIGRAMS PER LITER (MG/L) UNLESS OTHERWISE SPECIFIED.

Please note:
The Arsenic MCL is currently .05 mg/L. However, on Jan. 23, 2006, the Arsenic MCL will be .01 mg/L.

There currently is no MCL for Uranium. However, on Dec. 8, 2003 the Uranium MCL will be .03 mg/L.

PLEASE MAIL THIS COMPLETED FORM TO:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
TECHNICAL REVIEW UNIT
DRINKING WATER SECTION (5415b-2)
1110 W. Washington St.
Phoenix AZ 85007

air Laboratory: 4845 E. Cotton Center Boulevard Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.6227 Fax: 623.445.8192 www.aerotechlabs.com
ucson Facility: 4455 S. Park Ave. Ste. 110 Tucson Phone: 520.807.3801 Fax: 520.807.3803
porate Address: 1601 W. Knudsen Drive, Phoenix 85027 Phone: 623.780.4800 Toll Free: 800.651.4802

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INORGANIC CHEMICAL ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULT	EXCEEDS MCL	EXCEEDS REPORTING LIMIT
200.8	0.05	0.05	Arsenic	1005	2/16/2004	0.0038		
200.8	2	2	Barium	1010	2/16/2004	0.086		
200.8	0.005	0.005	Cadmium	1015	2/16/2004	<0.0010		
200.8	0.1	0.1	Chromium	1020	2/16/2004	0.0017		
200.8	1.3*	0.050	Copper	1022	2/16/2004	0.0048		
300.0	4.0	2.0	Fluoride	1025	2/13/2004	0.60		
200.8	0.015*	0.0025	Lead	1030	2/16/2004	<0.0010		
245.1	0.002	0.002	Mercury	1035	2/17/2004	<0.00020		
300.0	10	5	Nitrate (as N)	1040	2/13/2004	1.2		
300.0	1	0.5	Nitrite (as N)	1041	2/13/2004	<0.50		
200.8	0.05	0.05	Selenium	1045	2/16/2004	0.0016		
200.8	0.006	0.006	Antimony	1074	2/17/2004	<0.0010		
200.8	0.004	0.004	Beryllium	1075	2/16/2004	<0.0010		
4500CN C	0.2	0.2	Cyanide (as free cyanide)	1024	3/5/2004	<0.020**		
200.8	0.1	0.1	Nickel	1036	2/16/2004	0.0014		
200.8	0.002	0.002	Thallium	1085	2/16/2004	<0.0010		

* Action Level

INORGANIC CHEMICAL ANALYSIS

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01 I	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
	**Cyanide was resampled on 2/28/04 10:00	

PHYSICAL ANALYSIS

ANALYSIS METHOD	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULT
300.0	Sulfate	1055	2/13/2004	34
200.7	Sodium	1052	2/18/2004	53
Field	pH	1926	2/12/2004	6.80
2320B	Alkalinity	1927	2/16/2004	130
Calc.	Hardness/Ca.	1918	2/18/2004	77
9330B	Langelier Index	1997	3/2/2004	-0.99
Field	Temp. (°C)	1996	2/12/2004	20°C
2540C	TDS	1930	2/17/2004	220

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01C	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
	Temperature and pH are field measurements performed by client.	

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SYNTHETIC ORGANIC CHEMICAL ANALYSIS

ANALYSIS	MCL	REPORTING	CONTAMINANT	CONT.	ANALYSIS	RESULT	EXCEEDS	EXCEEDS
515.3	0.07	0.0001	2,4-D	2105	2/25/2004	<0.0001		
515.3	0.05	0.0002	2,4,5-TP (Silvex)	2110	2/25/2004	<0.0002		
525.2	0.002	0.002	Alachlor	2051	2/18/2004	<0.0002		
505	0.003	0.001	Toxaphene	2020	2/20/2004	<0.001		
525.2	0.003	0.0001	Atrazine	2050	2/18/2004	<0.0001		
531.1	0.04	0.0009	Carbofuran	2046	2/20/2004	<0.0009		
515.3	0.001	0.00004	Pentachlorophenol	2326	2/25/2004	<0.00004		
505	0.002	0.0002	Chlordane	2959	2/20/2004	<0.0002		
504.1	0.0002	0.00002	Dibromochloropropane (DBCP)	2931	2/23/2004	<0.00002		
504.1	0.00005	0.00001	Ethylene Dibromide (EDB)	2946	2/23/2004	<0.00001		
525.2	0.0004	0.00004	Heptachlor	2065	2/18/2004	<0.00004		
525.2	0.0002	0.00002	Heptachlor Epoxide	2067	2/18/2004	<0.00002		
525.2	0.0002	0.00002	Lindane	2010	2/18/2004	<0.00002		
525.2	0.04	0.0001	Methoxychlor	2015	2/18/2004	<0.0001		
——	0.0005	0.0001	PCB:Polychlorinated Biphenyls*	2383	——	——		
525.2	0.0002	0.00002	Benzo(a)Pyrene	2306	2/18/2004	<0.00002		
515.3	0.2	0.001	Dalapon	2031	2/25/2004	<0.001		
525.2	0.006	0.0006	Di(2-ethylhexyl)phthalate	2039	2/18/2004	<0.0006		
525.2	0.4	0.0006	Di(2-ethylhexyl)adipate	2035	2/18/2004	<0.0006		
515.3	0.007	0.0002	Dinoseb	2041	2/25/2004	<0.0002		
1613	$3x10^{-8}$	$5x10^{-9}$	2,3,7,8-TCDD (Dioxin)	2063	2/21/2004	$<5.0x10^{-9}$		
549.2	0.02	0.0004	Diquat	2032	2/17/2004	<0.0004		
548.1	0.1	0.009	Endothall	2033	2/16/2004	<0.009		
525.2	0.002	0.00001	Endrin	2005	2/18/2004	<0.00001		
547	0.7	0.006	Glyphosate	2034	2/19/2004	<0.006		
525.2	0.001	0.0001	Hexachlorobenzene	2274	2/18/2004	<0.0001		
525.2	0.05	0.0001	Hexachlorocyclopentadiene	2042	2/18/2004	<0.0001		
531.1	0.2	0.002	Oxamyl	2036	2/20/2004	<0.002		
515.3	0.5	0.0001	Picloram	2040	2/25/2004	<0.0001		
525.2	0.004	0.0007	Simazine	2037	2/18/2004	<0.00007		

*Aroclor results may be submitted in lieu of PCB

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01S	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
Cindy K. [illegible]	Methods 504.1, 505, 515.3, 525.2, 531.1, 547, 548.1 and 549.2 were performed by EHL (AZ0432). Method 1613 was performed by STL (AZ0616).	

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AROCLOR (PCBs SCREENING TEST)

ANALYSIS	REPORTING	CONTAMINANT	CONT	ANALYSIS	RESULT	EXCEEDS
505	0.00008	Aroclor 1016	2388	2/20/2004	<0.00008	
505	0.02	Aroclor 1221	2390	2/20/2004	<0.02	
505	0.0005	Aroclor 1232	2392	2/20/2004	<0.0005	
505	0.0003	Aroclor 1242	2394	2/20/2004	<0.0003	
505	0.0001	Aroclor 1248	2396	2/20/2004	<0.0001	
505	0.0001	Aroclor 1254	2398	2/20/2004	<0.0001	
505	0.0002	Aroclor 1260	2400	2/20/2004	<0.0002	

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01S	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
[signature]	Method 505 was performed by EHL (AZ0432).	

VOLATILE ORGANIC CHEMICALS ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS mg/L	EXCEEDS MCL	EXCEEDS TRIGGER
524.2	0.007	0.0005	1,1-Dichloroethylene	2977	2/16/2004	<0.00050 Q3		
524.2	0.2	0.0005	1,1,1-Trichloroethane	2981	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,1,2-Trichloroethane	2985	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,2-Dichloroethane	2980	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	1,2-Dichloropropane	2983	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Benzene	2990	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Carbon Tetrachloride	2982	2/16/2004	<0.00050 Q3		
524.2	0.07	0.0005	cis-1,2-Dichloroethylene	2380	2/16/2004	<0.00050 Q3		
524.2	0.7	0.0005	Ethylbenzene	2992	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	(mono)Chlorobenzene	2989	2/16/2004	<0.00050 Q3		
524.2	0.6	0.0005	o-Dichlorobenzene	2968	2/16/2004	<0.00050 Q3		
524.2	0.075	0.0005	para-Dichlorobenzene	2969	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	Styrene	2996	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Tetrachloroethylene	2987	2/16/2004	<0.00050 Q3		
524.2	1	0.0005	Toluene	2991	2/16/2004	<0.00050 Q3		
524.2	0.1	0.0005	trans-1,2-Dichloroethylene	2979	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Trichloroethylene	2984	2/16/2004	<0.00050 Q3		
524.2	0.002	0.0005	Vinyl Chloride	2976	2/16/2004	<0.00050 Q3		
524.2	10	0.0015	Xylenes, total	2955	2/16/2004	<0.00050 Q3		
524.2	0.07	0.0005	1,2,4-Trichlorobenzene	2378	2/16/2004	<0.00050 Q3		
524.2	0.005	0.0005	Dichloromethane	2984	2/16/2004	<0.00050 Q3		

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01V	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
[signature]	Q3- Sample received with improper chemical preservation.	

■ Main Laboratory: 4645 E. Cotton Center D... Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax: 623.445.6192 www.aerotechlab
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■ Corporate Address: 1501 W. Knudsen Drive ...nix, Arizona 85027 Phone: 623.780.4800 Toll Free: 800.481.4...

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RADIOCHEMICAL ANALYSIS

ANALYSIS METHOD	MCL	REPORTING LIMIT	CONTAMINANT NAME	CONT. CODE	ANALYSIS RUN DATE	RESULTS	EXCEEDS MCL	EXCEEDS REPORTING LIMIT
	15 pCi/l		Adjusted Gross Alpha	4000				
600/00-02		3 pCi/L	Gross Alpha	4002	2/18/2004	4.4 ± 1.0		
	30ppb	(observed)	Combined Uranium	4006				
			Uranium 234	4007				
			Uranium 235	4008				
			Uranium 238	4009				
	5 pCi/L	1 pCi/L	Combined Radium	4010				
		1 pCi/L	Radium 226	4020				
		pCi/L	Radium 228	4030				
	4 mrem	pCi/L	Gross Beta	4100				
	20000 pCi/L	0 pCi/L	Tritium	4102				
		10 pCi/L	Strontium-89	4172				
	8 pCi/L	pCi/L	Strontium-90	4174				
		pCi/L	Iodine-131	4264				
		pCi/L	Cesium-134	4270				

LABORATORY INFORMATION

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01R	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
[signature]	The radiochemical analyses were performed by Radiation Safety (AZ0462).	

ASBESTOS ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	ANALYSIS RUN DATE	RESULTS (MFL)	EXCEEDS MCL
100.1	7 MFL	Asbestos	1094	2/18/2004	<.7	

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01B	02/12/04	14:00
ID NUMBER	NAME	
AZ0610	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
[signature]	The asbestos analysis was performed by Fiberquant Analytical Services (AZ0904).	

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Corporate Address: 150[illegible] W. Knudsen Dr[illegible] [illegible], Arizona 85027 Phone: 623.780.4800 Toll Free: 800.681.4802 Fax: 623.780.7[illegible]

Aerotech Environmental Laboratories

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MICROBIOLOGICAL ANALYSIS

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
9223B	PRESENT/1 or more Coliform	Total Coliform	3000	2/12/04 16:20	2/13/04 16:20	0

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

ANALYSIS METHOD	MCL VALUE	CONTAMINANT NAME	CONT CODE	TEST START DATE/TIME	ANALYSIS RUN DATE/TIME	RESULT
9223B	PRESENT/1 or more Coliform	E.COLI or Fecal Coliform	3013	2/12/04 16:20	2/13/04 16:20	0

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

SPECIMEN NUMBER	SAMPLE DATE	SAMPLE TIME
04020117-01E	02/12/04	14:00
ID NUMBER	NAME	
AZ0609	Aerotech Environmental Laboratories	
AUTHORIZED SIGNATURE	COMMENTS	
[signature]		

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