BW - ____27____

ANALYTICAL DATA

Report Date: November 23, 2010 Work Order: 10111112 Page Number: 1 of 2

Summary Report

Wayne Price Key Energy Services-Carlsbad 1609 E. Green Carlsbad, NM 88221

Report Date: November 23, 2010

Work Order: 10111112

Project Location: Mesquite Brine Station (Well)
Project Name: New Carlsbad Brine Well (NCBW)

Project Number: NCBW-2

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
250172	Mesquite Brine Water	water	2010-11-10	08:20	2010-11-11

Sample: 250172 - Mesquite Brine Water

Param	Flag	Result	Units	RL
Total Silver		< 0.0500	m mg/L	0.00500
Total Aluminum		< 0.500	m mg/L	0.0500
Hydroxide Alkalinity		< 1.00	mg/L as $CaCo3$	1.00
Carbonate Alkalinity		< 1.00	mg/L as $CaCo3$	1.00
Bicarbonate Alkalinity		190	mg/L as $CaCo3$	4.00
Total Alkalinity		190	mg/L as $CaCo3$	4.00
Total Arsenic		< 0.100	m mg/L	0.0100
Total Boron		1.28	m mg/L	0.0100
Total Barium		< 0.100	m mg/L	0.0100
Total Cadmium		< 0.0500	m mg/L	0.00500
Total Cobalt		< 0.0500	m mg/L	0.00500
Specific Conductance		495000	m uMHOS/cm	0.00
Total Chromium		< 0.100	$\mathrm{mg/L}$	0.0100
Total Copper		< 0.0500	${ m mg/L}$	0.00500
Density		1.19	m g/ml	0.00
Total Iron		$\boldsymbol{0.328}$	m mg/L	0.0100
Total Mercury		< 0.000200	${ m mg/L}$	0.000200
Chloride		184000	${ m mg/L}$	2.50
Fluoride	1	< 25.0	m mg/L	0.500
Sulfate		4070	m mg/L	2.50

 $continued \dots$

 $^{^1\,\}mathrm{dilution}$ necessitated due to the concentration of chloride present in sample \bullet

 $sample\ 250172\ continued\ \dots$

Param	Flag	Result	${ m Units}$	RL
Total Manganese		< 0.0500	m mg/L	0.00500
Total Molybdenum		< 0.500	${ m mg/L}$	0.0500
Total Nickel		< 0.100	${ m mg/L}$	0.0100
Nitrite-N	2	<250	${ m mg/L}$	0.500
Nitrate-N	3	<25.0	${ m mg/L}$	0.500
Total Lead		< 0.0500	${ m mg/L}$	0.00500
pН		$\boldsymbol{6.18}$	s.u.	2.00
Dissolved Calcium		$\boldsymbol{1370}$	${ m mg/L}$	1.00
Dissolved Magnesium		333	${ m mg/L}$	1.00
Dissolved Potassium		343	${ m mg/L}$	1.00
Dissolved Sodium		$\boldsymbol{143000}$	${ m mg/L}$	1.00
Total Selenium		< 0.200	${ m mg/L}$	0.0200
Total Dissolved Solids		291200	m mg/L	10.00
Total Cyanide		< 0.0150	${ m mg/L}$	0.0150
Total Uranium		< 0.300	${ m mg/L}$	0.0300
Total Zinc		< 0.0500	m mg/L	0.00500

 $^{^2}$ dilution necessitated due to the concentration of chloride present in sample \bullet 3 dilution necessitated due to the concentration of chloride present in sample \bullet



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Certifications

WBENC:

237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA

WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Wayne Price Key Energy Services-Carlsbad 1609 E. Green Carlsbad, NM, 88221

Report Date: November 23, 2010

Work Order:

Project Location:

Mesquite Brine Station (Well)

Project Name:

New Carlsbad Brine Well (NCBW)

Project Number:

NCBW-2

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	${\bf Description}$	Matrix	Taken	Taken	Received
250172	Mesquite Brine Water	water	2010-11-10	08:20	2010-11-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 49 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 $\, B \,$ - $\,$ The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project New Carlsbad Brine Well (NCBW) were received by TraceAnalysis, Inc. on 2010-11-11 and assigned to work order 10111112. Samples for work order 10111112 were received intact at a temperature of 1.3 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	${ m Analysis}$
Test	Method	Batch	Date	Batch	Date
Ag, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
Alkalinity	SM 2320B	64819	2010-11-22 at $12:10$	75564	2010-11-22 at $12:11$
Al, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
As, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Ba, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
B, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
Ca, Dissolved	S 6010C	64617	2010-11-13 at 14:34	75397	2010-11-17 at 07:09
Cd, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Chloride (IC)	E 300.0	64732	2010-11-17 at 12:02	75469	2010-11-17 at 10:08
Conductivity	SM 2510B	64848	2010-11-22 at $10:05$	75594	2010-11-23 at $10:06$
Co, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Cr, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Cu, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
Density	ASTM D854-92	64621	2010-11-15 at 04:54	75323	2010-11-15 at $04:54$
Fe, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
Fluoride (IC)	E 300.0	64859	2010-11-17 at 10:00	75612	2010-11-17 at 11:40
Hg, Total	S 7470A	64712	2010-11-17 at 15:35	75463	2010-11-17 at 17.58
K, Dissolved	S 6010C	64617	2010-11-13 at 14:34	75397	2010-11-17 at 07:09
Mg, Dissolved	S 6010C	64617	2010-11-13 at 14:34	75397	2010-11-17 at 07:09
Mn, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Mo, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Na, Dissolved	S 6010C	64617	2010-11-13 at 14:34	75397	2010-11-17 at 07:09
Ni, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
NO2 (IC)	E 300.0	64859	2010-11-17 at 10:00	75612	2010-11-17 at 11:40
NO3 (IC)	E 300.0	64859	2010-11-17 at 10:00	75612	2010-11-17 at 11:40
Pb, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17
pH	SM 4500-H+	64566	2010-11-11 at $14:55$	75267	2010-11-11 at $14:56$
Se, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
SO4 (IC)	E 300.0	64732	2010-11-17 at $12:02$	75469	2010-11-17 at 10:08
TDS	SM 2540C	64713	2010-11-15 at $09:30$	75435	2010-11-17 at 16:05
Total Cyanide	SM 4500-CN C,E	64614	2010-11-13 at 10:11	75316	2010-11-13 at $10:13$
U, Total	S 6010C	64612	2010-11-12 at $17:07$	75353	2010-11-15 at 15:17
Zn, Total	S 6010C	64612	2010-11-12 at 17:07	75353	2010-11-15 at 15:17

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order

10111112 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Work Order: 101111112 New Carlsbad Brine Well (NCBW)

Page Number: 5 of 49 Mesquite Brine Station (Well)

RR

KV

Analytical Report

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analytical Method: S 6010C Prep Method: S 3010A Analysis: Ag, Total QC Batch: 75353 Date Analyzed: Analyzed By: 2010-11-15 Prep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By:

RΤ

		1777			
Parameter	Flag	Result	Units	Dilution	RL
Total Silver		< 0.0500	$_{ m mg/L}$	10	0.00500

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

S 6010C Analysis: Al, Total Analytical Method: Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KV

RL

Danamatan	Ela m	Pogult	Units	Dilution	DI
Parameter	Flag	Result	Units	Dilution	RL
Total Aluminum		< 0.500	mg/L	10	0.0500

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Alkalinity Analytical Method: SM 2320BPrep Method: N/A QC Batch: Date Analyzed: CB75564 2010-11-22 Analyzed By: Prep Batch: 64819 Sample Preparation: Prepared By: CB

RL

Parameter	Flag	Result	Units	$\operatorname{Dilution}$	RL
Hydroxide Alkalinity		< 1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		< 1.00	mg/L as $CaCo3$	1	1.00
Bicarbonate Alkalinity		190	mg/L as $CaCo3$	1	4.00
Total Alkalinity		190	mg/L as $CaCo3$	1	4.00

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

As, Total Analysis: Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612Sample Preparation: 2010-11-15 Prepared By: KV

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 6 of 49 Mesquite Brine Station (Well)

		RL			
Parameter	Flag	Result	Units	${\bf Dilution}$	RL
Total Arsenic		< 0.100	m mg/L	10	0.0100

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: B, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010 - 11 - 15Analyzed By: RRPrep Batch: Sample Preparation: 646122010-11-15 Prepared By: KV

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Ba, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR Prep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KV

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Cd, Total Analytical Method: Prep Method: S 3010A S 6010C QC Batch: 75353Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: Sample Preparation: 64612 2010-11-15 Prepared By: KV

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Co, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KV

Work Order: 101111112

New Carlsbad Brine Well (NCBW)

Page Number: 7 of 49 Mesquite Brine Station (Well)

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Cobalt		< 0.0500	m mg/L	10	0.00500

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Conductivity Analytical Method: SM 2510BPrep Method: N/A QC Batch: 75594 Date Analyzed: 2010 - 11 - 23Analyzed By: PGPrep Batch: 64848 Sample Preparation: 2010-11-22 Prepared By: PG

RLDilution Parameter Flag Result Units RL495000 Specific Conductance uMHOS/cm 10 0.00

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Cr, Total Analysis: Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KV

RLDilution Parameter Flag Result Units RLTotal Chromium < 0.100 10 0.0100 mg/L

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Analytical Method: Prep Method: S 3010A Cu, Total S 6010C QC Batch: 75353Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: Sample Preparation: 64612 2010-11-15 Prepared By: KV

RLParameter Flag Result Units Dilution RL< 0.0500 0.00500 Total Copper 10 mg/L

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Density Analytical Method: ASTM D854-92 Prep Method: N/AQC Batch: 75323Date Analyzed: 2010-11-15 Analyzed By: AHPrep Batch: Sample Preparation: 2010-11-15 Prepared By: 64621 AH

Work Order: 101111112 New Carlsbad Brine Well (NCBW)

Page Number: 8 of 49 Mesquite Brine Station (Well)

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Density		1.19	g/ml	1	0.00

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Fe, Total Analysis: QC Batch: 75353 Prep Batch: 64612

Analytical Method: S 6010C Date Analyzed: 2010 - 11 - 15Sample Preparation: 2010-11-15

Prep Method: S 3010A Analyzed By: RRPrepared By: KV

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Iron		0.328	m mg/L	10	0.0100

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Hg, Total Analysis: QC Batch: 75463 Prep Batch: 64712

Analytical Method: S 7470A Date Analyzed: 2010-11-17 Sample Preparation: 2010-11-17

Prep Method: N/AAnalyzed By: TPPrepared By: TP

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Mercury		< 0.000200	$\mathrm{mg/L}$	1	0.000200

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Ion Chromatography Analytical Method: $E_{300.0}$ QC Batch: 75469Date Analyzed: 2010 - 11 - 17Prep Batch: Sample Preparation: 64732 2010-11-17 QC Batch: Date Analyzed: 756122010 - 11 - 17Prep Batch: 64859 Sample Preparation: 2010-11-17

Prep Method: N/AAnalyzed By: PGPrepared By: PGAnalyzed By: PGPrepared By: PG

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		184000	m mg/L	5000	2.50
Fluoride	1	< 25.0	m mg/L	50	0.500
$\operatorname{Sulfate}$		4070	m mg/L	500	2.50

 $^{^{1}}$ dilution necessitated due to the concentration of chloride present in sample ullet

Report Date: November 23, 2010 Work Order: 101111112 Page Number: 9 of 49 NCBW-2New Carlsbad Brine Well (NCBW) Mesquite Brine Station (Well) Sample: 250172 - Mesquite Brine Water Lubbock Laboratory: Analysis: Mn, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KVRLDilution Parameter Flag Result Units RL< 0.05000.00500 Total Manganese mg/L 10 Sample: 250172 - Mesquite Brine Water Laboratory: Lubbock Analysis: Mo, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KVRLDilution Result Parameter Flag Units RLTotal Molybdenum < 0.500mg/L10 0.0500Sample: 250172 - Mesquite Brine Water Lubbock Laboratory: Analytical Method: S 3010A Analysis: Ni, Total S 6010C Prep Method: QC Batch: 75353 Date Analyzed: Analyzed By: RR2010-11-15 Prep Batch: 64612 Sample Preparation: Prepared By: KV2010-11-15 RLParameter Flag Result Units Dilution RLTotal Nickel < 0.100 mg/L 10 0.0100 Sample: 250172 - Mesquite Brine Water Laboratory: Lubbock Analysis: NO2 (IC) Analytical Method: E 300.0 Prep Method: N/AQC Batch: 75612Analyzed By: PGDate Analyzed: 2010-11-17 Prep Batch: 64859Sample Preparation: 2010-11-17 Prepared By: PGRLFlag Result Parameter Units Dilution RL

<250

mg/L

500

0.500

Nitrite-N

²dilution necessitated due to the concentration of chloride present in sample •

Report Date: November 23, 2010 Work Order: 101111112 Page Number: 10 of 49 NCBW-2New Carlsbad Brine Well (NCBW) Mesquite Brine Station (Well)

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A QC Batch: 75612 Date Analyzed: Analyzed By: PG2010-11-17 Prep Batch: 64859 Sample Preparation: 2010-11-17 Prepared By: PG

RL

Parameter	Flag	Result	Units	Dilution	RL
Nitrate-N	3	<25.0	$\mathrm{mg/L}$	50	0.500

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Pb, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: Analyzed By: 2010-11-15 RRPrep Batch: 64612Sample Preparation: 2010-11-15 Prepared By: KV

RL

Parameter	Flag	Result	Units	Dilution	RL
Total Lead		< 0.0500	$\mathrm{mg/L}$	10	0.00500

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analytical Method: Analysis: рН SM 4500-H+Prep Method: N/A QC Batch: 75267 Date Analyzed: Analyzed By: CB2010-11-11 Prep Batch: 64566Sample Preparation: Prepared By: CB

		RL			
Parameter	Flag	Result	Units	${\rm Dilution}$	RL
pН		6.18	s.u.	1	2.00

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Salts, Dissolved Prep Method: S 3005A Analysis: Analytical Method: S 6010C QC Batch: 75397 Date Analyzed: 2010-11-17 Analyzed By: RRPrep Batch: 64617 Sample Preparation: 2010-11-15 Prepared By: KV

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Dissolved Calcium		1370	$\mathrm{mg/L}$	1	1.00
Dissolved Magnesium		333	$\mathrm{mg/L}$	1	1.00

³ dilution necessitated due to the concentration of chloride present in sample •

 $continued \dots$

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 11 of 49 Mesquite Brine Station (Well)

sample 250172 continued ...

		RL			
Parameter	Flag	Result	Units	$\operatorname{Dilution}$	RL
Dissolved Potassium		343	mg/L	1	1.00
Dissolved Sodium		143000	$\mathrm{mg/L}$	100	1.00

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Se, Total QC Batch: 75353 Prep Batch: 64612 Analytical Method: S 6010C Date Analyzed: 2010-11-15 Sample Preparation: 2010-11-15

Prep Method: S 3010A Analyzed By: RR Prepared By: KV

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis:TDSAnalytical Method:SM 2540CQC Batch:75435Date Analyzed:2010-11-17Prep Batch:64713Sample Preparation:2010-11-16

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Analytical Method: Prep Method: N/ATotal Cyanide SM 4500-CN C,E QC Batch: 75316 Date Analyzed: 2010-11-13 Analyzed By: AHPrep Batch: Sample Preparation: 2010-11-13 64614Prepared By: AH

 Report Date: November 23, 2010 Work Order: 10111112 Page Number: 12 of 49 NCBW-2 New Carlsbad Brine Well (NCBW) Mesquite Brine Station (Well)

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: U, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RRPrep Batch: 64612Sample Preparation: Prepared By: KV2010-11-15

RL

Sample: 250172 - Mesquite Brine Water

Laboratory: Lubbock

Analysis: Zn, Total Analytical Method: S 6010C Prep Method: S 3010A QC Batch: Analyzed By: 75353 Date Analyzed: 2010-11-15 RRPrep Batch: 64612 Sample Preparation: 2010-11-15 Prepared By: KV

RL

Method Blank (1) QC Batch: 75316

QC Batch: 75316 Date Analyzed: 2010-11-13 Analyzed By: AH Prep Batch: 64614 QC Preparation: 2010-11-13 Prepared By: AH

Method Blank (1) QC Batch: 75323

QC Batch: 75323 Date Analyzed: 2010-11-15 Analyzed By: AH Prep Batch: 64621 QC Preparation: 2010-11-15 Prepared By: AH

Report Date: November 23, 2010 NCBW-2		Work Order: 10111112 New Carlsbad Brine Well (NCBW)	Page Number: 13 of 4 Mesquite Brine Station (Well		
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Donomoton	Ele m	$ootnotesize ext{MDL} $ Result	Units		RL
Parameter Total Silver	Flag	<0.000469	mg/L		0.005
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Parameter	Flag	$ootnotesize ext{MDL} $ Result	Units		RL
Total Aluminum		< 0.00982	m mg/L		0.05
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
		MDL			
Parameter Total Arsenic	Flag	Result < 0.00465	$rac{ m Units}{ m mg/L}$		RL 0.01
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		m RL
Total Boron	0	< 0.00215	mg/L		0.01

Report Date: November 23, 2010 NCBW-2		Work Order: 10111112 New Carlsbad Brine Well (NCBW)	Page Number: 14 of 49 Mesquite Brine Station (Well)		
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
D	Tal.	MDL	T T **		DI
Parameter Total Barium	Flag	Result <0.00418	$rac{ m Units}{ m mg/L}$		RL 0.01
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Parameter	Flag	$egin{array}{c} ext{MDL} \ ext{Result} \end{array}$	Units		m RL
Total Cadmium	<u> </u>	< 0.00232	m mg/L		0.005
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		RL
Total Cobalt	2 1006	< 0.00258	mg/L		0.005
Method Blank (1)	QC Batch: 75353				
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		m RL
Total Chromium	8	< 0.00291	m mg/L		0.01

Report Date: November 23, 2010 NCBW-2		Work Order: 10111112 New Carlsbad Brine Well (NCBW)	Page Number: Mesquite Brine Station	
Method Blank (1)	QC Batch: 75353			
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12	Analyzed By Prepared By	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units	RL
Total Copper		< 0.00313	${ m mg/L}$	0.005
Method Blank (1)	QC Batch: 75353			
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12	Analyzed By Prepared By	
Parameter	Flag	$egin{array}{c} ext{MDL} \ ext{Result} \end{array}$	Units	m RL
Total Iron	Tiag	<0.00273	mg/L	0.01
Method Blank (1)	QC Batch: 75353			
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12	Analyzed By Prepared By	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units	m RL
Total Manganese	0	< 0.00423	${ m mg/L}$	0.005
Method Blank (1)	QC Batch: 75353			
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12	Analyzed By Prepared By	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units	m RL
Total Molybdenum		< 0.00164	${ m mg/L}$	0.05

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Method Blank (1)	QC Batch: 75353					
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		m RL	
Total Nickel	6	< 0.00593	mg/L		0.01	
Method Blank (1)	QC Batch: 75353					
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV	
Damanakan	Dl	MDL	TIi.		DI	
Parameter Total Lead	Flag	Result <0.00303	$rac{ m Units}{ m mg/L}$		RL 0.005	
Method Blank (1)	QC Batch: 75353					
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		m RL	
Total Selenium	0	< 0.00570	m mg/L		0.02	
Method Blank (1)	QC Batch: 75353					
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12		Analyzed By: Prepared By:	RR KV	
Parameter	Flag	$rac{ ext{MDL}}{ ext{Result}}$	Units		m RL	
Total Uranium		< 0.0136	m mg/L		0.03	

Report Date: November NCBW-2	er 23, 2010	Work Order New Carlsbad Bri			Page Number: 1 e Brine Station	
Method Blank (1)	QC Batch: 75353					
QC Batch: 75353 Prep Batch: 64612		Date Analyzed: QC Preparation:	2010-11-15 2010-11-12		Analyzed By: Prepared By:	RR KV
D.	D)		MDL	TT **		DI
Parameter Total Zinc	Flag	<0.00	esult 0178	$rac{ m Units}{ m mg/L}$		RL 0.005
Method Blank (1)	QC Batch: 75397					
QC Batch: 75397 Prep Batch: 64617		Date Analyzed: QC Preparation:	2010-11-17 2010-11-13		Analyzed By: Prepared By:	RR KV
Parameter	Fla	g	$rac{ ext{MDL}}{ ext{Result}}$	Units		RL
Dissolved Calcium Dissolved Magnesium Dissolved Potassium Dissolved Sodium			<0.0134 <0.184 <0.0634 <0.303	$egin{array}{l} { m mg/L} \\ { m mg/L} \\ { m mg/L} \\ { m mg/L} \end{array}$		1 1 1 1
Method Blank (1)	QC Batch: 75435					
QC Batch: 75435 Prep Batch: 64713		Date Analyzed: QC Preparation:	2010-11-17 2010-11-15		Analyzed By: Prepared By:	PG PG
Parameter Table 10 10 10 10 10 10 10 10 10 10 10 10 10	Fl	ag	MDL Result	Units		RL
Total Dissolved Solids			5.000	m mg/L		10
Method Blank (1)	QC Batch: 75463					
QC Batch: 75463 Prep Batch: 64712		Date Analyzed: QC Preparation:	2010-11-17 2010-11-17		Analyzed By: Prepared By:	TP TP
Parameter	Flag	.000	MDL Result	Units		RL
Total Mercury		< 0.0	000388	mg/L		0.0002

Report Date: November NCBW-2	r 23, 2010	Work Order: 10111112 New Carlsbad Brine Well (NCBW)	Page Number: 1 Mesquite Brine Station	
Method Blank (1)	QC Batch: 75469			
QC Batch: 75469 Prep Batch: 64732		Date Analyzed: 2010-11-17 QC Preparation: 2010-11-17	Analyzed By: Prepared By:	PG PG
Parameter	Flag	$egin{array}{c} ext{MDL} \ ext{Result} \end{array}$	${ m Units}$	m RL
Chloride	riag	<0.0350	mg/L	2.5
Sulfate		< 0.596	mg/L	2.5
Method Blank (1)	QC Batch: 75564			
QC Batch: 75564		Date Analyzed: 2010-11-22	Analyzed By:	
Prep Batch: 64819		QC Preparation: 2010-11-22	Prepared By:	СВ
		MDL		
Parameter	Flag		Units	RL
Hydroxide Alkalinity Carbonate Alkalinity		<1.00 <1.00	mg/L as CaCo3 mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	$\frac{1}{4}$
Total Alkalinity		< 4.00	mg/L as CaCo3	4
Method Blank (1)	QC Batch: 75594			
QC Batch: 75594		Date Analyzed: 2010-11-23	Analyzed By:	$_{ m PG}$
Prep Batch: 64848		QC Preparation: 2010-11-22	Prepared By:	PG
		MDL		
Parameter	Flag		${ m Units}$	RL
Specific Conductance		2.80	uMHOS/cm	
Method Blank (1)	QC Batch: 75612			
QC Batch: 75612		Date Analyzed: 2010-11-17	Analyzed By:	PG
Prep Batch: 64859		QC Preparation: 2010-11-17	Prepared By:	\overline{PG}
		MDL		
Parameter	Flag	Result	Units	RL
Nitrite-N		< 0.0334	m mg/L	0.5

Report Date: Novemb	er 23, 2010	Work Order New Carlsbad Bri	Page Number ite Brine Stati			
Method Blank (1)	QC Batch: 75612					
QC Batch: 75612 Prep Batch: 64859		Date Analyzed: QC Preparation:	2010-11-17 2010-11-17		Analyzed E Prepared E	
			MDL			
Parameter Nitrate-N	Flag		esult 0491	$rac{ m Units}{ m mg/L}$		RL 0.5
Method Blank (1)	QC Batch: 75612					
QC Batch: 75612 Prep Batch: 64859		Date Analyzed: QC Preparation:	2010-11-17 2010-11-17		Analyzed E Prepared E	-
Parameter Fluoride	Flag	R	MDL esult 0964	$_{ m Units}$		$\frac{\mathrm{RL}}{0.5}$
Duplicates (1) Du QC Batch: 75267 Prep Batch: 64566	iplicated Sample: 2501	Date Analyzed: QC Preparation:	2010-11-11 2010-11-11		Analyzed E Prepared E	
Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
рН	9.01	9.05	s. u.	1	0	20
	iplicated Sample: 2501					
QC Batch: 75323 Prep Batch: 64621		Date Analyzed: QC Preparation:	2010-11-15 2010-11-15		Analyzed E Prepared B	
Param	Duplicate Result	$egin{array}{c} { m Sample} \\ { m Result} \end{array}$	Units	$\operatorname{Dilution}$	RPD	RPD Limit
Density	1.21	1.21	g/ml	1	0	20
Duplicates (1) Du	iplicated Sample: 2503	300				
QC Batch: 75435 Prep Batch: 64713		Date Analyzed: QC Preparation:	2010-11-17 2010-11-15		Analyzed E Prepared E	

Work Order: 101111112 New Carlsbad Brine Well (NCBW)

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	Duplicate	\mathbf{Sample}				RPD
Param	Result	Result	Units	$\operatorname{Dilution}$	RPD	Limit
Total Dissolved Solids	480.0	471.0	$\mathrm{mg/L}$	1	2	10

Duplicates (1) Duplicated Sample: 250172

QC Batch: 75564 Date Analyzed: 2010-11-22 Analyzed By: CB Prep Batch: 64819 QC Preparation: 2010-11-22 Prepared By: CB

	Duplicate	Sample				RPD
Param	Result	Result	Units	$\operatorname{Dilution}$	RPD	${f Limit}$
Hydroxide Alkalinity	< 1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	< 1.00	< 1.00	mg/L as $CaCo3$	1	0	20
Bicarbonate Alkalinity	180	190	mg/L as $CaCo3$	1	5	20
Total Alkalinity	180	190	mg/L as $CaCo3$	1	5	20

Duplicates (1) Duplicated Sample: 250305

QC Batch: 75594 Date Analyzed: 2010 - 11 - 23Analyzed By: PG Prep Batch: 64848 QC Preparation: 2010-11-22 Prepared By: PG

	$\operatorname{Duplicate}$	\mathbf{Sample}				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Specific Conductance	997	1000	uMHOS/cm	P [*]	0	20

Laboratory Control Spike (LCS-1)

QC Batch: 75316 Date Analyzed: 2010-11-13 Analyzed By: AH Prep Batch: 64614 QC Preparation: 2010-11-13 Prepared By: AH

	LCS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit
Total Cyanide	0.119	m mg/L	1	0.120	< 0.0115	99	83.3 - 116

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Cyanide	0.120	mg/L	1	0.120	< 0.0115	100	83.3 - 116	1	20

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Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Amount Result Limit Units Dil. Rec. Total Silver 0.118 0.125< 0.000469 94 85 - 115 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Silver	0.118	$\mathrm{mg/L}$	1	0.125	< 0.000469	94	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Aluminum 0.934 < 0.00982mg/L1.00 93 85 - 115 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Aluminum	0.950	mg/L	1	1.00	< 0.00982	95	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Arsenic 0.509 < 0.00465102 85 - 115 mg/L0.500

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Arsenic	0.511	mg/L	1	0.500	< 0.00465	102	85 - 115	0	20

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Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Limit Rec. Total Boron 0.04700.0500< 0.0021594 85 - 115 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Boron	0.0480	$\mathrm{mg/L}$	1	0.0500	< 0.00215	96	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Barium 0.992< 0.00418 mg/L1.00 99 85 - 115 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Barium	0.992	mg/L	1	1.00	< 0.00418	99	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	${f Limit}$
Total Cadmium	0.254	$\mathrm{mg/L}$	1	0.250	< 0.00232	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Cadmium	0.257	mg/L	1	0.250	< 0.00232	103	85 - 115	1	20

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Laboratory Control Spike (LCS-1)

QC Batch: 75353Prep Batch: 64612

NCBW-2

Date Analyzed: 2010 - 11 - 15QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Dil. Amount Result Limit Units Rec. 0.248 0.250Total Cobalt < 0.0025899 85 - 115 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Cobalt	0.252	$\mathrm{mg/L}$	1	0.250	< 0.00258	101	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR Prepared By: KV

Prep Batch: 64612

QC Preparation: 2010-11-12

	LCS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Chromium	0.0980	$\mathrm{mg/L}$	1	0.100	< 0.00291	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Chromium	0.100	mg/L	1	0.100	< 0.00291	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612

Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12

Analyzed By: RR Prepared By: KV

	LCS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Copper	0.125	${ m mg/L}$	1	0.125	< 0.00313	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Copper	0.123	${ m mg/L}$	1	0.125	< 0.00313	98	85 - 115	2	20

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Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Limit Rec. < 0.0027385 - 115 Total Iron 0.5050.500 101 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Iron	0.521	$\mathrm{mg/L}$	1	0.500	< 0.00273	104	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Manganese 0.248 0.250< 0.00423 mg/L99 85 - 115 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Manganese	0.242	mg/L	1	0.250	< 0.00423	97	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Molybdenum 0.506 < 0.00164 101 85 - 115 mg/L0.500

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Molybdenum	0.510	mg/L	1	0.500	< 0.00164	102	85 - 115	1	20

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Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Limit Rec. 0.248 0.250< 0.0059385 - 115 Total Nickel 99 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Nickel	0.250	${ m mg/L}$	1	0.250	< 0.00593	100	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Lead < 0.00303 103 0.517 mg/L0.50085 - 115 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Lead	0.522	mg/L	1	0.500	< 0.00303	104	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Selenium 0.459< 0.00570 92 85 - 115 mg/L0.500

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Selenium	0.469	mg/L	1	0.500	< 0.00570	94	85 - 115	2	20

Work Order: 101111112 New Carlsbad Brine Well (NCBW)

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Laboratory Control Spike (LCS-1)

QC Batch: 75353Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Dil. Result Limit Units Amount Rec. 85 - 115 Total Uranium 0.4560.500< 0.013691 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Uranium	0.474	$\mathrm{mg/L}$	1	0.500	< 0.0136	95	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12

Analyzed By: RR Prepared By: KV

KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Zinc 0.248 0.250< 0.00178mg/L99 85 - 115 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Zinc	0.248	mg/L	1	0.250	< 0.00178	99	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: Date Analyzed: 2010-11-17 Analyzed By: RR 75397 Prep Batch: 64617QC Preparation: 2010-11-13 Prepared By:

	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec.}$	${f Limit}$
Dissolved Calcium	49.9	$\mathrm{mg/L}$	1	50.0	< 0.0134	100	85 - 115
Dissolved Magnesium	50.1	${ m mg/L}$	1	50.0	< 0.184	100	85 - 115
Dissolved Potassium	49.4	${ m mg/L}$	1	50.0	< 0.0634	99	85 - 115
Dissolved Sodium	49.6	${ m mg/L}$	1	50.0	< 0.303	99	85 - 115

Work Order: 101111112 New Carlsbad Brine Well (NCBW)

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Param	$\begin{array}{c} LCSD \\ Result \end{array}$	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	${ m Rec.} \ { m Limit}$	RPD	$egin{array}{l} ext{RPD} \ ext{Limit} \end{array}$
Dissolved Calcium	51.1	mg/L	1	50.0	< 0.0134	102	85 - 115	2	20
Dissolved Magnesium	51.5	mg/L	1	50.0	< 0.184	103	85 - 115	3	20
Dissolved Potassium	50.1	mg/L	1	50.0	< 0.0634	100	85 - 115	1	20
Dissolved Sodium	50.3	mg/L	1	50.0	< 0.303	101	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75435 Prep Batch: 64713 Date Analyzed: 2010-11-17 QC Preparation: 2010-11-15

Analyzed By: PG Prepared By: PG

	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Total Dissolved Solids	986	${ m mg/L}$	1	1000	< 5.00	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	$_{ m LCSD}$			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Total Dissolved Solids	978	$\mathrm{mg/L}$	1	1000	< 5.00	98	90 - 110	1	10

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75463 Prep Batch: 64712 Date Analyzed: 2010-11-17 QC Preparation: 2010-11-17 Analyzed By: TP Prepared By: TP

	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit
Total Mercury	0.00390	$_{ m mg/L}$	1	0.00400	< 0.0000388	98	91.4 - 111

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec .	Limit	RPD	Limit
Total Mercury	0.00399	mg/L	1	0.00400	< 0.0000388	100	91.4 - 111	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: Date Analyzed: 2010-11-17 Analyzed By: PG 75469 Prep Batch: 64732 QC Preparation: 2010-11-17 Prepared By: PG

Work Order: 101111112 New Carlsbad Brine Well (NCBW) Page Number: 28 of 49 Mesquite Brine Station (Well)

	LCS			Spike	Matrix		Rec.
Param	Result	Units	$\mathrm{Dil}.$	${ m Amount}$	Result	$\mathrm{Rec.}$	Limit
Chloride	24.2	$\mathrm{mg/L}$	1	25.0	< 0.0350	97	90 - 110
Sulfate	26.0	${ m mg/L}$	1	25.0	< 0.596	104	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Chloride	25.0	${ m mg/L}$	1	25.0	< 0.0350	100	90 - 110	3	20
$\operatorname{Sulfate}$	26.8	$\mathrm{mg/L}$	1	25.0	< 0.596	107	90 - 110	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75612 Date Analyzed: 2010-11-17 Analyzed By: PG
Prep Batch: 64859 QC Preparation: 2010-11-17 Prepared By: PG

	$_{ m LCS}$			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${ m Amount}$	Result	$\mathrm{Rec.}$	Limit
Nitrite-N	5.12	$_{ m mg/L}$	1	5.00	< 0.0334	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	$_{ m LCSD}$			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	${f Limit}$	RPD	Limit
Nitrite-N	5.48	$\mathrm{mg/L}$	1	5.00	< 0.0334	110	90 - 110	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 75612 Date Analyzed: 2010-11-17 Analyzed By: PG
Prep Batch: 64859 QC Preparation: 2010-11-17 Prepared By: PG

	LCS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec.}$	Limit
Nitrate-N	5.06	$\mathrm{mg/L}$	1	5.00	< 0.0491	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Nitrate-N	5.42	mg/L	1	5.00	< 0.0491	108	90 - 110	7	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 29 of 49 Mesquite Brine Station (Well)

Laboratory Control Spike (LCS-1)

QC Batch: 75612 Prep Batch: 64859 Date Analyzed: 2010-11-17 QC Preparation: 2010-11-17 Analyzed By: PG Prepared By: PG

LCS Spike Matrix Rec. Param Result Dil. Result Limit Units Amount Rec. 90 - 110 Fluoride 5.03 5.00 < 0.0964101 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	$\mathrm{Rec.}$	Limit	RPD	Limit
Fluoride	5.37	mg/L	1	5.00	< 0.0964	107	90 - 110	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250314

QC Batch: 75316 Prep Batch: 64614 Date Analyzed: 2010-11-13 QC Preparation: 2010-11-13 Analyzed By: AH Prepared By: AH

MSSpike Matrix Rec. Param Result Units Dil. Amount Result Limit Rec. Total Cyanide 0.122 0.120 < 0.0115102 mg/L80 - 120 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Cyanide	0.123	mg/L	1	0.120	< 0.0115	102	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12

Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Silver	0.121	$\mathrm{mg/L}$	1	0.125	< 0.000469	97	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Silver	0.121	${ m mg/L}$	1	0.125	< 0.000469	97	75 - 125	0	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 30 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Aluminum	0.945	$_{ m mg/L}$	1	1.00	< 0.00982	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Aluminum	0.945	m mg/L	1	1.00	< 0.00982	94	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

MSSpike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Arsenic 0.489< 0.00465 mg/L0.50098 75 - 125 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Arsenic	0.494	mg/L	1	0.500	< 0.00465	99	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12

Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Boron	0.0470	$\mathrm{mg/L}$	1	0.0500	< 0.00215	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	A mount	Result	Rec.	Limit	RPD	Limit
Total Boron	0.0490	mg/L	1	0.0500	< 0.00215	98	75 - 125	4	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 31 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		Rec .
Param	Result	Units	Dil.	${ m Amount}$	Result	$\mathrm{Rec}.$	Limit
Total Barium	0.945	mg/L	1	1.00	0.007	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Total Barium	0.963	m mg/L	1	1.00	0.007	96	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	$\mathrm{Dil}.$	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Total Cadmium	0.240	mg/L	1	0.250	< 0.00232	96	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Cadmium	0.242	mg/L	1	0.250	< 0.00232	97	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612

Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Cobalt	0.225	$\mathrm{mg/L}$	1	0.250	< 0.00258	90	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Cobalt	0.240	${ m mg/L}$	1	0.250	< 0.00258	96	75 - 125	6	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 32 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 E Prep Batch: 64612 Q

Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

MSSpike Matrix Rec. Limit Param Result Dil. Amount Result Units Rec. < 0.0029175 - 125 Total Chromium 0.0910 0.100 91 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Chromium	0.0980	m mg/L	1	0.100	< 0.00291	98	75 - 125	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Date Analyzed: 2010-11-15 Prep Batch: 64612 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

MSSpike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Total Copper 0.123 < 0.00313 mg/L0.12598 75 - 125 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Copper	0.123	mg/L	1	0.125	< 0.00313	98	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Date Analyzed: 2010-11-15 Prep Batch: 64612 QC Preparation: 2010-11-12

Analyzed By: RR Prepared By: KV

MS Spike MatrixRec. Rec. Param Result Units Dil. Amount Result Limit Total Iron 0.4860.500 < 0.00273 97 75 - 125 mg/L

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Iron	0.484	$\mathrm{mg/L}$	1	0.500	< 0.00273	97	75 - 125	0	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 33 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Manganese	0.234	$_{ m mg/L}$	1	0.250	< 0.00423	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Manganese	0.234	$\mathrm{mg/L}$	1	0.250	< 0.00423	94	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Molybdenum	0.471	mg/L	1	0.500	< 0.00164	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Molybdenum	0.478	mg/L	1	0.500	< 0.00164	96	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
Total Nickel	0.233	m mg/L	1	0.250	< 0.00593	93	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Nickel	0.236	${ m mg/L}$	1	0.250	< 0.00593	94	75 - 125	1	20

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 34 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit
Total Lead	0.471	$_{ m mg/L}$	1	0.500	< 0.00303	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil .	${f Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Lead	0.472	${ m mg/L}$	1	0.500	< 0.00303	94	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	$\mathrm{Dil}.$	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Total Selenium	0.439	mg/L	1	0.500	< 0.00570	88	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Selenium	0.445	mg/L	1	0.500	< 0.00570	89	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	${f Limit}$
Total Uranium	0.499	$\mathrm{mg/L}$	1	0.500	< 0.0136	100	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
Total Uranium	0.503	mg/L	1	0.500	< 0.0136	101	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 35 of 49 Mesquite Brine Station (Well)

Matrix Spike (MS-1)

Spiked Sample: 250190

QC Batch: 75353 Prep Batch: 64612 Date Analyzed: 2010-11-15 QC Preparation: 2010-11-12 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	${f Limit}$
Total Zinc	0.237	m mg/L	1	0.250	< 0.00178	95	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
Total Zinc	0.235	m mg/L	1	0.250	< 0.00178	94	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 250090

QC Batch: 75397 Prep Batch: 64617 Date Analyzed: 2010-11-17 QC Preparation: 2010-11-13 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Dissolved Calcium	492	${ m mg/L}$	1	500	33.1	92	75 - 125
Dissolved Magnesium	498	${ m mg/L}$	1	500	41.5	91	75 - 125
Dissolved Potassium	459	${ m mg/L}$	1	500	6	91	75 - 125
Dissolved Sodium	558	${ m mg/L}$	1	500	94.9	93	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec.}$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Dissolved Calcium	542	$\mathrm{mg/L}$	1	500	33.1	102	75 - 125	10	20
Dissolved Magnesium	548	m mg/L	1	500	41.5	101	75 - 125	10	20
Dissolved Potassium	499	$\mathrm{mg/L}$	1	500	6	99	75 - 125	8	20
Dissolved Sodium	608	$\mathrm{mg/L}$	1	500	94.9	103	75 - 125	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 249899

QC Batch: 75463 Prep Batch: 64712 Date Analyzed: 2010-11-17 QC Preparation: 2010-11-17

Analyzed By: TP Prepared By: TP

 $continued \dots$

 Page Number: 36 of 49 Mesquite Brine Station (Well)

matrix spikes continued . . .

T.	MS	TT 1.	ъ.,	Spike	Matrix	T.	Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	${ m Amount}$	Result	$\mathrm{Rec}.$	Limit
Total Mercury	0.00317	m mg/L	1	0.00400	< 0.0000388	79	75 - 122

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Total Mercury	0.00320	$\mathrm{mg/L}$	1	0.00400	< 0.0000388	80	75 - 122	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250347

QC Batch:75469Date Analyzed:2010-11-17Analyzed By:PGPrep Batch:64732QC Preparation:2010-11-17Prepared By:PG

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Chloride	22000	$\mathrm{mg/L}$	500	12500	8780	106	90 - 110
Sulfate	15200	${ m mg/L}$	500	12500	2310	103	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec .	Limit	RPD	Limit
Chloride	21600	mg/L	500	12500	8780	102	90 - 110	2	20
Sulfate	14900	$\mathrm{mg/L}$	500	12500	2310	101	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250347

QC Batch: 75612 Date Analyzed: 2010-11-17 Analyzed By: PG
Prep Batch: 64859 QC Preparation: 2010-11-17 Prepared By: PG

		MS			Spike	Matrix		${ m Rec.}$
Param		Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Nitrite-N	4	2860	${ m mg/L}$	500	2500	<16.7	114	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁴ matrix spikes ran with batch but spiked sample was reported in another batch •

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 37 of 49 Mesquite Brine Station (Well)

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Nitrite-N	5	2930	$\mathrm{mg/L}$	500	2500	<16.7	117	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250347

 QC Batch:
 75612
 Date Analyzed:
 2010-11-17

 Prep Batch:
 64859
 QC Preparation:
 2010-11-17

Analyzed By: PG Prepared By: PG

		MS			Spike	Matrix		$\mathrm{Rec}.$
Param		Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Nitrate-N	6	2660	$_{ m mg/L}$	500	2500	<24.6	106	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param		Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Nitrate-N	7	2580	$\mathrm{mg/L}$	500	2500	<24.6	103	90 - 110	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 250347

QC Batch: 75612 Date Analyzed: 2010-11-17 Analyzed By: PG
Prep Batch: 64859 QC Preparation: 2010-11-17 Prepared By: PG

		MS			Spike	Matrix		$\mathrm{Rec}.$
Param		Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
Fluoride	8	2480	$\mathrm{mg/L}$	500	2500	<48.2	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param		Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
Fluoride	9	2620	mg/L	500	2500	<48.2	105	90 - 110	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 75267 Date Analyzed: 2010-11-11 Analyzed By: CB

⁵ matrix spikes ran with batch but spiked sample was reported in another batch •

 $^{^6}$ matrix spikes ran with batch but spiked sample was reported in another batch ullet

 $^{^7}$ matrix spikes ran with batch but spiked sample was reported in another batch ullet

 $^{^8}$ matrix spikes ran with batch but spiked sample was reported in another batch ullet

 $^{^9\,\}mathrm{matrix}$ spikes ran with batch but spiked sample was reported in another batch ullet

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 38 of 49 Mesquite Brine Station (Well)

			ICVs	ICVs	${ m ICVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
pН		s.u.	7.00	7.03	100	98 - 102	2010-11-11

Standard (CCV-1)

QC Batch: 75267

Date Analyzed: 2010-11-11

Analyzed By: CB

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
$\overline{\mathrm{pH}}$		s.u.	7.00	6.99	100	98 - 102	2010-11-11

Standard (ICV-1)

QC Batch: 75316

Date Analyzed: 2010-11-13

Analyzed By: AH

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Cyanide		$\mathrm{mg/L}$	0.120	0.120	100	85 - 115	2010-11-13

Standard (CCV-1)

QC Batch: 75316

Date Analyzed: 2010-11-13

Analyzed By: AH

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	${ m Analyzed}$
Total Cyanide		$_{ m mg/L}$	0.120	0.125	104	85 - 115	2010-11-13

Standard (ICV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			ICVs	$1 \mathrm{CVs}$	$1 \mathrm{CVs}$	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Silver		$\mathrm{mg/L}$	0.125	0.122	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

Work Order: 10111112 New Carlsbad Brine Well (NCBW

New Carlsbad Brine Well (NCBW) Mesquite Brine Station (Well)

Page Number: 39 of 49

			$rac{ ext{ICVs}}{ ext{True}}$	$egin{array}{l} ext{ICVs} \ ext{Found} \end{array}$	$egin{array}{l} ext{ICVs} \ ext{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Aluminum		$\mathrm{mg/L}$	1.00	0.975	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Arsenic		$\mathrm{mg/L}$	1.00	0.970	97	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	${ m Analyzed}$
Total Boron		$_{ m mg/L}$	1.00	1.01	101	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Barium		mg/L	1.00	0.975	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			IC Vs	$1 \mathrm{CVs}$	IC Vs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Cadmium		$\mathrm{mg/L}$	1.00	0.988	99	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

Work Order: 101111112 New Carlsbad Brine Well (NCBW) Page Number: 40 of 49 Mesquite Brine Station (Well)

			ICVs	ICVs	ICVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	Analyzed
Total Cobalt		m mg/L	1.00	0.974	97	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	${ m ICVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc.	Recovery	Limits	${ m Analyzed}$
Total Chromium		m mg/L	1.00	0.981	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Total Copper		$_{ m mg/L}$	1.00	0.987	99	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Iron		mg/L	1.00	0.980	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	${ m Analyzed}$
Total Manganese		m mg/L	1.00	0.981	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

Work Order: 10111112

New Carlsbad Brine Well (NCBW)

Page Number: 41 of 49 Mesquite Brine Station (Well)

			$rac{ ext{ICVs}}{ ext{True}}$	$egin{array}{l} ext{ICVs} \ ext{Found} \end{array}$	$rac{ ext{ICVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	Flag	Units	Conc .	Conc .	$\operatorname{Recovery}$	Limits	${ m Analyzed}$
Total Molybdenum		$\mathrm{mg/L}$	1.00	0.974	97	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Nickel		$\mathrm{mg/L}$	1.00	0.985	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	${ m Analyzed}$
Total Lead		$_{ m mg/L}$	1.00	0.976	98	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Selenium		$_{ m mg/L}$	1.00	0.970	97	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Uranium		m mg/L	1.00	0.974	97	90 - 110	2010-11-15

Standard (ICV-1)

 $QC \ Batch: \ 75353$ Date Analyzed: 2010-11-15 Analyzed By: RR

Report Date: November 23, 2010 Work Order: 101111112 Page Number: 42 of 49 NCBW-2New Carlsbad Brine Well (NCBW) Mesquite Brine Station (Well) ICVs ${\rm ICVs}$ ICVsPercent True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed Total Zinc 0.991 90 - 110 2010-11-15 mg/L1.00 99 Standard (CCV-1) QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR CCVs CCVsCCVsPercent True Found Percent Recovery Date Units Analyzed Param Flag Conc. Conc. Recovery Limits Total Silver 0.1250.120 90 - 110 2010-11-15 mg/L96 Standard (CCV-1)

QC Batch:	75353		Date Analyzed:	15	Analy	Analyzed By: RR	
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
D	TOI.	TT **	a	0	D	T	A 1 1

			CCVs	CCVS	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Total Aluminum		${ m mg/L}$	1.00	0.958	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Arsenic		$_{ m mg/L}$	1.00	0.945	94	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Boron		$_{ m mg/L}$	1.00	0.953	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 43 of 49 Mesquite Brine Station (Well)

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	$\operatorname{Recovery}$	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc.	Recovery	Limits	Analyzed
Total Barium		$\mathrm{mg/L}$	1.00	0.968	97	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	$\operatorname{Recovery}$	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	Analyzed
Total Cadmium		$\mathrm{mg/L}$	1.00	0.972	97	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	$\operatorname{Recovery}$	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${\bf Analyzed}$
Total Cobalt		m mg/L	1.00	0.952	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
Total Chromium		$\mathrm{mg/L}$	1.00	0.961	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Copper		$_{ m mg/L}$	1.00	0.953	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 44 of 49 Mesquite Brine Station (Well)

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Total Iron		m mg/L	1.00	0.961	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	Analyzed
Total Manganese		$\mathrm{mg/L}$	1.00	0.961	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	Analyzed
Total Molybdenum		$_{ m mg/L}$	1.00	0.950	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Nickel		mg/L	1.00	0.964	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Total Lead		$_{ m mg/L}$	1.00	0.951	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353

Date Analyzed: 2010-11-15

Analyzed By: RR

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 45 of 49 Mesquite Brine Station (Well)

			${ m CCVs} \ { m True}$	CCVs Found	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
			rrue	round	rercent	necovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	${ m Analyzed}$
Total Selenium		$\mathrm{mg/L}$	1.00	0.948	95	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Uranium		mg/L	1.00	0.964	96	90 - 110	2010-11-15

Standard (CCV-1)

QC Batch: 75353 Date Analyzed: 2010-11-15 Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Zinc		$_{ m mg/L}$	1.00	0.967	97	90 - 110	2010-11-15

Standard (ICV-1)

QC Batch: 75397 Date Analyzed: 2010-11-17 Analyzed By: RR

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		m mg/L	51.0	50.6	99	90 - 110	2010-11-17
Dissolved Magnesium		m mg/L	51.0	50.5	99	90 - 110	2010 - 11 - 17
Dissolved Potassium		m mg/L	55.0	54.9	100	90 - 110	2010 - 11 - 17
Dissolved Sodium		$\mathrm{mg/L}$	51.0	50.5	99	90 - 110	2010-11-17

Standard (CCV-1)

QC Batch: 75397 Date Analyzed: 2010-11-17 Analyzed By: RR

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	Analyzed
Dissolved Calcium		$\mathrm{mg/L}$	51.0	49.6	97	90 - 110	2010-11-17
Dissolved Magnesium		$\mathrm{mg/L}$	51.0	51.3	100	90 - 110	2010 - 11 - 17
Dissolved Potassium		$\mathrm{mg/L}$	55.0	53.9	98	90 - 110	2010 - 11 - 17

 $continued \dots$

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 46 of 49 Mesquite Brine Station (Well)

standara	$l\ continued$		

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	Recovery	Limits	Analyzed
Dissolved Sodium		mg/L	51.0	52.0	102	90 - 110	2010-11-17

Standard (CCV-1)

QC Batch: 75463

Date Analyzed: 2010-11-17

Analyzed By: TP

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Mercury		m mg/L	0.00500	0.00500	100	90 - 110	2010-11-17

Standard (CCV-2)

QC Batch: 75463

Date Analyzed: 2010-11-17

Analyzed By: TP

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Total Mercury		m mg/L	0.00500	0.00504	101	90 - 110	2010-11-17

Standard (CCV-1)

QC Batch: 75469

Date Analyzed: 2010-11-17

Analyzed By: PG

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Chloride		$\mathrm{mg/L}$	25.0	24.6	98	90 - 110	2010-11-17
Sulfate		m mg/L	25.0	25.9	104	90 - 110	2010-11-17

Standard (CCV-2)

QC Batch: 75469

Date Analyzed: 2010-11-17

Analyzed By: PG

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	Percent	$\operatorname{Recovery}$	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Chloride		$\mathrm{mg/L}$	25.0	24.0	96	90 - 110	2010-11-17
$\operatorname{Sulfate}$		$\mathrm{mg/L}$	25.0	26.0	104	90 - 110	2010 - 11 - 17

Work Order: 101111112 New Carlsbad Brine Well (NCBW) Page Number: 47 of 49 Mesquite Brine Station (Well)

Standard (ICV-1)

QC Batch: 75564

 $Date\ Analyzed:\ \ 2010\mbox{-}11\mbox{-}22$

Analyzed By: CB

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		=	2010-11-22
Carbonate Alkalinity		mg/L as $CaCo3$	0.00	220		=	2010 - 11 - 22
Bicarbonate Alkalinity		mg/L as $CaCo3$	0.00	20.0		=	2010 - 11 - 22
Total Alkalinity		mg/L as $CaCo3$	250	240	96	90 - 110	2010-11-22

Standard (CCV-1)

QC Batch: 75564

Date Analyzed: 2010-11-22

Analyzed By: CB

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		=	2010-11-22
Carbonate Alkalinity		mg/L as $CaCo3$	0.00	220		-	2010-11-22
Bicarbonate Alkalinity		mg/L as $CaCo3$	0.00	30.0		-	2010-11-22
Total Alkalinity		mg/L as $CaCo3$	250	250	100	90 - 110	2010-11-22

Standard (ICV-1)

QC Batch: 75594

Date Analyzed: 2010-11-23

Analyzed By: PG

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1450	103	90 - 110	2010-11-23

Standard (CCV-1)

QC Batch: 75594

Date Analyzed: 2010-11-23

Analyzed By: PG

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Specific Conductance		uMHOS/cm	1410	1400	99	90 - 110	2010-11-23

Standard (CCV-1)

QC Batch: 75612

Date Analyzed: 2010-11-17

Analyzed By: PG

Report Dat NCBW-2	e: November 2	3, 2010		k Order: 10111 bad Brine Well		Page Number: 48 of 49 Mesquite Brine Station (Well)		
Param Nitrite-N	Flag	Units mg/L	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits 90 - 110	Date Analyzed 2010-11-17	
Standard (ŕ							
QC Batch:	75612		Date Ana	lyzed: 2010-11	L-17	Anal	yzed By: PG	
Param Nitrate-N	Flag	Units mg/L	CCVs True Conc. 5.00	CCVs Found Conc. 5.36	CCVs Percent Recovery 107	Percent Recovery Limits 90 - 110	Date Analyzed 2010-11-17	
Standard (CCV-1)							
QC Batch:	75612		Date Ana	lyzed: 2010-11	-17	${ m Anal}$	yzed By: PG	
			$rac{ ext{CCVs}}{ ext{True}}$	${ m CCVs} \ { m Found}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date	
Param Fluoride	Flag	$\frac{\rm Units}{\rm mg/L}$	Conc. 5.00	Conc. 5.08	Recovery 102	Limits 90 - 110	Analyzed 2010-11-17	
Standard (CCV-2)							
QC Batch:	75612		Date Ana	lyzed: 2010-11	L-17	Anal	yzed By: PG	
Param Nitrite-N	Flag	$\frac{\rm Units}{\rm mg/L}$	CCVs True Conc.	CCVs Found Conc. 5.35	CCVs Percent Recovery	Percent Recovery Limits 90 - 110	Date Analyzed 2010-11-17	
Standard (CCV-2)							
QC Batch:	75612		Date Ana	lyzed: 2010-11	L-17	Anal	yzed By: PG	
Param	Flag	$_{ m Units}$	CCVs True Conc.	CCVs Found Conc.	$egin{array}{c} ext{CCVs} \ ext{Percent} \ ext{Recovery} \end{array}$	Percent Recovery Limits	$egin{aligned} ext{Date} \ ext{Analyzed} \end{aligned}$	
Nitrate-N		$\mathrm{mg/L}$	5.00	5.08	102	90 - 110	2010-11-17	

Date Analyzed: 2010-11-17

QC Batch: 75612

Analyzed By: PG

Work Order: 10111112 New Carlsbad Brine Well (NCBW) Page Number: 49 of 49 Mesquite Brine Station (Well)

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${\bf Analyzed}$
Fluoride		m mg/L	5.00	4.94	99	90 - 110	2010-11-17

LAB Order ID #

MORNIN H () <

of

Tace Analysis, Inc.

email: lab@traceanalysis.com

Suite 9 6701 Aberdeen Avenue, Suite Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 1-825-1-15-1-18

Phone #:

FINESSY - OPRISEND

Fax #:

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08858B

(Street, City, Zip)

Address:

ブツン

Company Name:

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WAY!

Contact Person:

E-mail: <u>シチン/// アスドラフプシ</u>

PAPTICALLY.

5002 Basin Street, Suite A1

Midland, Texas 79703

Tel (432) 689-6301

Fax (432) 689-6313

200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-3443 1 (888) 588-3443

BioAquatic Testing 2501 Mayes Rd., Ste 100 Carrollton, Texas 75006 Tel (972) 242-7750 2 Circle of Specify Method ANALYSIS REQUEST Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7

PIOH

822/1922 HJ Na, Ca, Mg, K, TDS, EC

Moisture Content

LCB.2 8085 \ 608

TCLP Pesticides TCLP Semi Volatiles

TCLP Volatiles

PAH 8270 / 625

BTEX

BATM

TIME

BTAG

NONE

HOBN

DOS²H [€]ONH

HCI

AIR

ROIF **MATER**

SCUDGE

Volume / Amount

CONTAINERS

FIELD CODE

ICE

% %

-480 94000 uned Vitales

15pp -

,,,ale -0124,5

افير موناده

X

386

1900 Wede 1000°

*

WATER

MESCALL

250172

AB USE

Z

LAB #

Pesticides 8081 / 608

GC/W2 A91: 8560 / 624

BOD, TSS, pH

BCI

Turn Around Time if different from standard

STHFFW

Cl, Fl, S04, NO3, NO2, Alkalinity

GC/MS Semi. Vol. 8270 / 625

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TPH 8015 GRO / DRO / TVHC TPH 418.1 / TX1005 / TX1005 Ext(C35)

8021 / 602 / 8260 / 624

SAMPLING

PRESERVATIVE

METHOD

MATRIX

Project Name:

17.08.01.V

(If different from above)

Project #:

nvoice to:

Sampler Signature:

77317)

(3)

Project Location (including state):

8021 / 602 / 8260 / 624

Dry Weight Basis Required Check If Special Reporting Limits Are Needed TRRP Report Required なもだけ REMARKS: Headspace Y/N (NA LAB USE ONIC Log-in-Review_ ntact O N O 088 | 0 COR | 3 NS1

NST. OBS COR LSN. OBS

Time:

Date:

Company:

Received by:

Date:

Company:

Relinquished by:

アルグ

PRICE

Time:

Date:

Company:

Received by:

Time:

Company:

Relinquished by:

Time: 0:15 6

01-11-11

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Date:

Company:

Received by:

OLVON 0/0%

Date:

Company:

Relinquished by:

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Carrier # COR ರ Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O.

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7940 8942

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