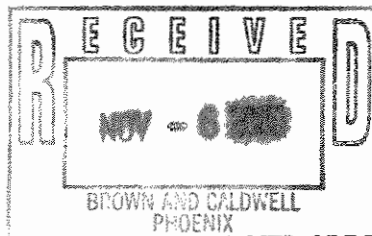


NEL LABORATORIES

Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Brown & Caldwell
3636 N. Central Ave. Suite 200
Phoenix, AZ 85012
ATTN: Barbara Sylvester
PROJECT NAME: BHP Florence
PROJECT NUMBER: 15942.007



NEL ORDER ID: P0010051

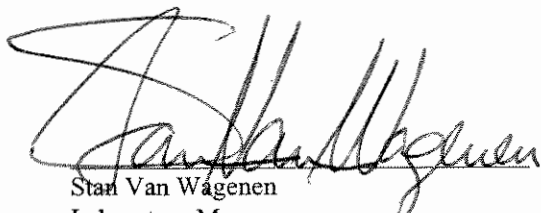
Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/19/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.


Stan Van Wagenen
Laboratory Manager

10/27/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: BHP-12
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-01

TEST: AZ METALS PKG
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	0.085	0.025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Arsenic	0.0029	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Barium	0.050	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Calcium	96	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cobalt	0.023	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Copper	1.7	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Iron	0.14	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Lead	0.0015	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Magnesium	24	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Manganese	0.33	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	10/23/00	10/23/00
Nickel	0.031	0.02 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Potassium	5.1	1. mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Selenium	0.0019	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Silver	0.0067	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Sodium	75	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	10/24/00	10/25/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: BHP-4
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-02

TEST: AZ METALS PKG
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	0.043	0.025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Arsenic	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Barium	0.022	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Calcium	85	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Copper	0.43	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Iron	0.11	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Lead	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Magnesium	19	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Manganese	0.053	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	10/23/00	10/23/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Potassium	6.1	1. mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Selenium	0.0010	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Silver	0.12	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Sodium	87	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	10/24/00	10/25/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P10051-Hg-BLK

TEST: **AZ METALS PKG**

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.0002mg/L	1	EPA 245.1	10/23/00	10/23/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007

CLIENT ID: Method Blank
 DATE SAMPLED: NA
 NEL SAMPLE ID: P100511-BLK

TEST: AZ METALS PKG

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Barium	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Calcium	ND	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Magnesium	ND	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Potassium	ND	1. mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Silver	ND	0.005 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Sodium	ND	0.25 mg/L	0.5	EPA 200.7	10/23/00	10/23/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	10/23/00	10/23/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: P10051M-BLK

TEST: AZ METALS PKG

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Arsenic	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Lead	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Selenium	ND	0.001 mg/L	1	EPA 200.8	10/24/00	10/25/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	10/24/00	10/25/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: BHP-12
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-01

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	110		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity, Total	110	25.	1	SM 2320 B	mg/L	10/26/00
Cation/Anion Balance	8	0.	1	Standard Methods	% Diff.	10/27/00
Chloride	150	10.	100	EPA 300.0	mg/L	10/24/00
Fluoride	1.3	0.4	1	SM 4500-F C	mg/L	10/26/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/20/00
pH	7.48	2.	1	EPA 150.1	pH Units	10/20/00
pH Temperature	9.8	1.	1	EPA 150.1	°C	10/20/00
Sulfate	160	10.	100	EPA 300.0	mg/L	10/24/00
Total Dissolved Solids	558	15.	1	SM 2540 C	mg/L	10/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: BHP-4
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-02

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	120		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity, Total	120	25.	1	SM 2320 B	mg/L	10/26/00
Cation/Anion Balance	11	0.	1	Standard Methods	% Diff.	10/27/00
Chloride	150	10.	100	EPA 300.0	mg/L	10/24/00
Fluoride	1.2	0.4	1	SM 4500-F C	mg/L	10/26/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/20/00
pH	7.34	2.	1	EPA 150.1	pH Units	10/20/00
pH Temperature	10.5	1.	1	EPA 150.1	°C	10/20/00
Sulfate	110	10.	100	EPA 300.0	mg/L	10/24/00
Total Dissolved Solids	493	15.	1	SM 2540 C	mg/L	10/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 001020IC-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/20/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 001024IC-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/24/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/24/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 001026ALK-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	10/26/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	10/26/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 001026F-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	10/26/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: **BHP-12**
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD: EPA 8021B

ANALYST: CHG - Las Vegas Division

MATRIX: Aqueous

EXTRACTED: 10/25/00

DILUTION: 1

ANALYZED: 10/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	104	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007

CLIENT ID: **BHP-4**
DATE SAMPLED: 10/19/00
NEL SAMPLE ID: P0010051-02

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**
METHOD: EPA 8021B
MATRIX: Aqueous
DILUTION: 1

ANALYST: CHG - Las Vegas Division
EXTRACTED: 10/25/00
ANALYZED: 10/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	103	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	Method Blank
PROJECT ID:	BHP Florence	DATE SAMPLED:	NA
PROJECT #:	15942.007	NEL SAMPLE ID:	001025BX21_A-BLK

TEST:	BTEX by EPA SW846 Method 8021B, Dec. 1996		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	10/25/00
		ANALYZED:	10/25/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	111	69 - 120

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007
TEST: **Inorganic Non-Metals**
MATRIX: Drinking Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Nitrate, as N	001020IC-LCS	100	94	94	90 - 110	
Nitrate, as N	P0010049-11-MS	25	36.7	87	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007
TEST: **Inorganic Non-Metals**
MATRIX: Waste Water

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
7.00 Buffer	001020PH3-LCS	7	6.99	100	99 - 101	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: Inorganic Non-Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Chloride	001024IC-LCS	100	95	95	90 - 110	
Chloride	001024IC-LCSD	100	96	96	90 - 110	1.
Chloride	P0010049-06-MS	1000	1360	83	80 - 120	
Sulfate	001024IC-LCS	100	98	98	90 - 110	
Sulfate	001024IC-LCSD	100	96	96	90 - 110	2.1
Sulfate	P0010049-06-MS	1000	2570	87	36 - 136	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: BTEX by EPA SW846 Method 8021B, Dec. 1996
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Benzene	001025BX21_A-LCS	50	50.44	101	85 - 115	
Benzene	001025BX21_A-LCSD	50	49.26	99	80 - 120	2.4
Benzene	P0010051-02-MS	50	51	102	70 - 130	
Benzene	P0010051-02-MSD	50	46	92	70 - 130	10.3
Toluene	001025BX21_A-LCS	50	53.74	107	85 - 115	
Toluene	001025BX21_A-LCSD	50	51.39	103	80 - 120	4.5
Toluene	P0010051-02-MS	50	51	102	70 - 130	
Toluene	P0010051-02-MSD	50	50	100	70 - 130	2.
Ethylbenzene	001025BX21_A-LCS	50	53.03	106	85 - 115	
Ethylbenzene	001025BX21_A-LCSD	50	52.92	106	80 - 120	0.2
Ethylbenzene	P0010051-02-MS	50	51	102	70 - 130	
Ethylbenzene	P0010051-02-MSD	50	50	100	70 - 130	2.
Total Xylenes	001025BX21_A-LCS	150	164.64	110	85 - 115	
Total Xylenes	001025BX21_A-LCSD	150	161.14	107	80 - 120	2.1
Total Xylenes	P0010051-02-MS	150	155	103	70 - 130	
Total Xylenes	P0010051-02-MSD	150	152	101	70 - 130	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007
TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Alkalinity, Total	001026ALK-LCS	125	122.9	98	90 - 110	
Alkalinity, Total	001026ALK-LCSD	125	121.94	98	90 - 110	0.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: Inorganic Non-Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Fluoride	001026F-LCS	2	2.02	101	84 - 109	
Fluoride	001026F-LCSD	2	2	100	84 - 109	1.
Fluoride	P0010047-15-MS	1	1.88	97	71 - 126	
Fluoride	P0010047-15-MSD	1	1.9	99	71 - 126	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
PROJECT ID: BHP Florence
PROJECT #: 15942.007
TEST: **Metals**
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Mercury	P10051-Hg-LCS	0.005	0.0047	94	85 - 115	0.
Mercury	P0010051-01-MS	0.005	0.00467	93	70 - 130	0.
Mercury	P0010051-01-MSD	0.005	0.00478	96	70 - 130	2.3

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: Metals
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aluminum	P10051I-LCS	1	1.02	102	85 - 115	0.
Aluminum	P0010051-01-MS	1	1.09	101	75 - 125	0.
Aluminum	P0010051-01-MSD	1	1.11	103	75 - 125	2.
Barium	P10051I-LCS	1	0.98	98	85 - 115	0.
Barium	P0010051-01-MS	1	1.04	99	75 - 125	0.
Barium	P0010051-01-MSD	1	1.03	98	75 - 125	1.
Beryllium	P10051I-LCS	0.1	0.104	104	85 - 115	0.
Beryllium	P0010051-01-MS	0.1	0.101	101	75 - 125	0.
Beryllium	P0010051-01-MSD	0.1	0.102	102	75 - 125	1.
Cadmium	P10051I-LCS	0.2	0.205	103	85 - 115	0.
Cadmium	P0010051-01-MS	0.2	0.204	102	75 - 125	0.
Cadmium	P0010051-01-MSD	0.2	0.21	105	75 - 125	2.9
Calcium	P10051I-LCS	20	20.9	105	85 - 115	0.
Calcium	P0010051-01-MS	20	113	85	75 - 125	0.
Calcium	P0010051-01-MSD	20	120	120	75 - 125	34.1
Chromium	P10051I-LCS	0.5	0.521	104	85 - 115	0.
Chromium	P0010051-01-MS	0.5	0.506	101	75 - 125	0.
Chromium	P0010051-01-MSD	0.5	0.515	103	75 - 125	1.8
Cobalt	P10051I-LCS	0.5	0.51	102	85 - 115	0.
Cobalt	P0010051-01-MS	0.5	0.508	97	75 - 125	0.
Cobalt	P0010051-01-MSD	0.5	0.52	99	75 - 125	2.4
Copper	P10051I-LCS	0.5	0.481	96	85 - 115	0.
Copper	P0010051-01-MS	0.5	2.16	92	75 - 125	0.
Copper	P0010051-01-MSD	0.5	2.21	102	75 - 125	10.3
Iron	P10051I-LCS	1	1.06	106	85 - 115	0.
Iron	P0010051-01-MS	1	1.12	98	75 - 125	0.
Iron	P0010051-01-MSD	1	1.05	91	75 - 125	7.4
Magnesium	P10051I-LCS	20	20.4	102	85 - 115	0.
Magnesium	P0010051-01-MS	20	40.7	84	75 - 125	0.
Magnesium	P0010051-01-MSD	20	42.6	93	75 - 125	10.8
Manganese	P10051I-LCS	0.5	0.513	103	85 - 115	0.
Manganese	P0010051-01-MS	0.5	0.792	92	75 - 125	0.
Manganese	P0010051-01-MSD	0.5	0.811	96	75 - 125	4.
Nickel	P10051I-LCS	1	1.04	104	85 - 115	0.
Nickel	P0010051-01-MS	1	1.02	99	75 - 125	0.
Nickel	P0010051-01-MSD	1	1.04	101	75 - 125	2.
Potassium	P10051I-LCS	20	19.4	97	85 - 115	0.
Potassium	P0010051-01-MS	20	24.9	99	75 - 125	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: **Metals**
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Potassium	P0010051-01-MSD	20	25.2	101	75 - 125	1.5
Silver	P10051I-LCS	0.5	0.464	93	85 - 115	0.
Silver	P0010051-01-MS	0.5	0.472	94	75 - 125	0.
Silver	P0010051-01-MSD	0.5	0.478	96	75 - 125	1.3
Sodium	P10051I-LCS	20	19	95	85 - 115	0.
Sodium	P0010051-01-MS	20	94.9	100	75 - 125	0.
Sodium	P0010051-01-MSD	20	96.7	109	75 - 125	8.7
Zinc	P10051I-LCS	0.5	0.512	102	85 - 115	0.
Zinc	P0010051-01-MS	0.5	0.546	109	75 - 125	0.
Zinc	P0010051-01-MSD	0.5	0.557	111	75 - 125	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: Brown & Caldwell
 PROJECT ID: BHP Florence
 PROJECT #: 15942.007
 TEST: **Metals**
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike</u>	<u>Spike</u>	<u>Percent</u>	<u>Acceptable</u>	<u>RPD</u>
		<u>Amount</u>	<u>Result</u>	<u>Recovery</u>	<u>Range</u>	
Antimony	P10051M-LCS	0.005	0.00483	97	85 - 115	0.
Antimony	P0010051-01-MS	0.005	0.00592	118	75 - 125	0.
Antimony	P0010051-01-MSD	0.005	0.00531	106	75 - 125	10.9
Arsenic	P10051M-LCS	0.01	0.0111	111	85 - 115	0.
Arsenic	P0010051-01-MS	0.01	0.0148	119	75 - 125	0.
Arsenic	P0010051-01-MSD	0.01	0.0133	104	75 - 125	13.5
Lead	P10051M-LCS	0.005	0.0056	112	85 - 115	0.
Lead	P0010051-01-MS	0.005	0.00485	67	75 - 125	0.
Lead	P0010051-01-MSD	0.005	0.00696	109	75 - 125	47.9
Selenium	P10051M-LCS	0.01	0.0113	113	85 - 115	0.
Selenium	P0010051-01-MS	0.01	0.0133	114	75 - 125	0.
Selenium	P0010051-01-MSD	0.01	0.0139	120	75 - 125	5.1
Thallium	P10051M-LCS	0.005	0.00548	110	85 - 115	0.
Thallium	P0010051-01-MS	0.005	0.00598	120	75 - 125	0.
Thallium	P0010051-01-MSD	0.005	0.00476	95	75 - 125	22.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Phoenix Division • 3021 S. 35th St., Bldg. B, Suite 6 • Phoenix, AZ 85034
(602) 437-0099 • Fax: (602) 437-2225 • 1-888-238-2514

Company: Brown + Caldwell Attention: Barb Sylvestre
Address: 3636 N Central Ave Suite 200
Phoenix AZ 85024
Phone Number: 602-222-4776 Fax Number: 602-222-4466
Billing Address: BHP Accounts Payable 7400 N Oracle Expected Due Date:
RD Suite 200, Tucson, AZ 85704 10/26/00
Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

CHAIN OF CUSTODY LAS VEGAS LEAD

NEL Work Order: P0010051

Project Name: <u>BHP Florence</u>	Project Number: <u>15442.007</u>
Purchase Order Number: <u>34015543</u>	Sampled By: <u>B. Sylvestre</u>

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
10-19-00 1200	BHP-12	01	1	B AQ	✓		
1200	↓	↓	1	E	✓		
1200	↓	↓	2	A	✓		
1200	BHP-12	✓	3	A	✓		
1220	BHP-4	02	1	B	✓		
1220	↓	↓	1	E	✓		
1220	↓	↓	2	A	✓		
10-19-00 1220	BHP-4	✓	3	A AQ	✓		

Custody Seal intact? Y N None Temp. 6°C
Condition when received good

Box #1
DW - Drinking Water
WW - Waste Water
OL - Oil/Organic Liquid
SD - Solid
AQ - Aqueous
A - Air

Box #2
A. HCl
B. HNO₃
C. H₂SO₄
D. NaOH
E. Ice Only
F. Other
G. Not Preserved

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1	Barbara Sylvestre	10-19-00 1442	NEL PHX	Director	10-19-00 1442
2					
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.