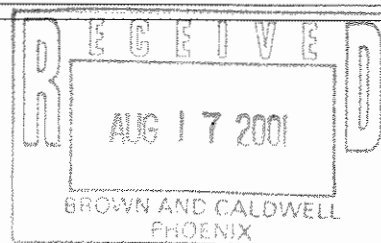


NEL LABORATORIES

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Phoenix • Boise

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, Nevada 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/15942.009
PROJECT NUMBER: 15942.009

NEL ORDER ID: P0107033

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 7/12/01.

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

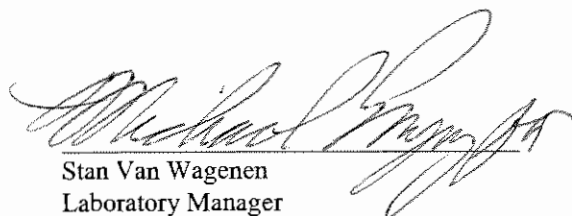
Initial inorganics analyses were completed in Reno, which is not certified in Arizona. Confirmation analyses were performed at the Arizona certified Las Vegas lab. Nitrate, pH, Alkalinity and TDS were confirmed past hold time.

Some results have been flagged as follows:

- H1 - Sample analysis performed past holding time. See case narrative.
- H3 - Sample was received and analyzed past holding time.

Some QA results have been flagged as follows:

- M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.


Stan Van Wagenen
Laboratory Manager

8/13/01
Date

CERTIFICATIONS:

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

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009

CLIENT ID: OWB-2
 DATE SAMPLED: 7/12/01
 NEL SAMPLE ID: P0107033-01

TEST: Metals
 MATRIX: Aqueous

ANALYST: FRM - 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	ND	0.025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Antimony	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Arsenic	0.0029	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Barium	0.061	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Beryllium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Calcium	120	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Iron	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Lead	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Magnesium	30	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Mercury	ND	0.0002 mg/L	1	EPA 245.1	7/16/01	7/16/01
Molybdenum	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Potassium	5.3	1. mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Selenium	0.0027	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Silica	ND	0.05 mg/L	1	EPA 6020	7/20/01	7/20/01
Silver	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Sodium	160	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Thallium	ND	0.0005 mg/L	1	EPA 200.8	7/17/01	7/18/01
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: BHP-1
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-02

TEST: Metals
MATRIX: Aqueous

ANALYST: RAA - 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	0.053	0.025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Antimony	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Arsenic	0.0018	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Barium	0.043	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Beryllium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Calcium	110	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cobalt	0.0065	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Copper	1.0	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Iron	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Lead	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Magnesium	30	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Manganese	0.18	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Mercury	ND	0.0002 mg/L	1	EPA 245.1	7/16/01	7/16/01
Molybdenum	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Nickel	0.027	0.02 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Potassium	5.9	1. mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Selenium	0.0026	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Silica	ND	0.05 mg/L	1	EPA 6020	7/20/01	7/20/01
Silver	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Sodium	100	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Thallium	ND	0.0005 mg/L	1	EPA 200.8	7/17/01	7/18/01
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: M19.3
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-03

TEST: Metals
MATRIX: Aqueous

ANALYST: RAA - 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	0.044	0.025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Antimony	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Arsenic	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Barium	0.041	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Beryllium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Calcium	110	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cobalt	0.0062	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Copper	1.0	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Iron	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Lead	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Magnesium	28	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Manganese	0.17	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Mercury	ND	0.0002 mg/L	1	EPA 245.1	7/16/01	7/16/01
Molybdenum	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Nickel	0.026	0.02 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Potassium	5.4	1. mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Selenium	0.0022	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Silica	ND	0.05 mg/L	1	EPA 6020	7/20/01	7/20/01
Silver	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Sodium	99	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Thallium	ND	0.0005 mg/L	1	EPA 200.8	7/17/01	7/18/01
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010720 SI-BLK

TEST: Metals

<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>
Silica	ND	0.05 mg/L	1	EPA 6020	7/20/01	7/20/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 0716-2.2-BLK

TEST: Metals

<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	7/16/01	7/16/01
Barium	ND	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Beryllium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Calcium	ND	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Iron	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Magnesium	ND	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Molybdenum	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Potassium	ND	1. mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Silver	ND	0.005 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Sodium	ND	0.25 mg/L	0.5	EPA 200.7	7/16/01	7/16/01
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	7/16/01	7/16/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 0716-D245.1AQ-BLK

TEST: Metals

<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	7/16/01	7/16/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 0717-1.2-BLK

TEST: Metals

<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	7/17/01	7/18/01
Arsenic	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Lead	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Selenium	ND	0.001 mg/L	1	EPA 200.8	7/17/01	7/18/01
Thallium	ND	0.0005 mg/L	1	EPA 200.8	7/17/01	7/18/01

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: OWB-2
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-01

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	250			1	SM 2320 B	mg/L	7/20/01
Alkalinity - Carbonate as CaCO ₃	ND			1	SM 2320 B	mg/L	7/20/01
Alkalinity - Hydroxide as CaCO ₃	ND			1	SM 2320 B	mg/L	7/20/01
Alkalinity, Total as CaCO ₃	250		25.	1	SM 2320 B	mg/L	7/20/01
Cation/Anion Balance	5		0.	1	Standard Methods	% Diff.	8/9/01
Chloride	200		20.	200	EPA 300.0	mg/L	7/18/01
Fluoride	0.47		0.1	1	EPA 300.0	mg/L	7/17/01
Hardness, Total (as CaCO ₃)	420		2.	1	EPA 200.7	mg/L	7/16/01
Nitrate, as N	6.9	H1	1.	10	EPA 300.0	mg/L-N	7/18/01
pH	7.4	H3	2.	1	EPA 150.1	pH Units	7/13/01
pH Temperature	7.1		1.	1	EPA 150.1	°C	7/13/01
Sulfate	260		20.	200	EPA 300.0	mg/L	7/18/01
Total Dissolved Solids	1400		15.	1	SM 2540 C	mg/L	7/17/01

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.

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009

CLIENT ID: BHP-1
 DATE SAMPLED: 7/12/01
 NEL SAMPLE ID: P0107033-02

TEST: Inorganic Non-Metals
 MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	91			1	SM 2320 B	mg/L	7/20/01
Alkalinity - Carbonate as CaCO ₃	ND			1	SM 2320 B	mg/L	7/20/01
Alkalinity - Hydroxide as CaCO ₃	ND			1	SM 2320 B	mg/L	7/20/01
Alkalinity, Total as CaCO ₃	91		25.	1	SM 2320 B	mg/L	7/20/01
Cation/Anion Balance	2		0.	1	Standard Methods	% Diff.	8/9/01
Chloride	150		20.	200	EPA 300.0	mg/L	7/18/01
Fluoride	0.82		0.1	1	EPA 300.0	mg/L	7/17/01
Hardness, Total (as CaCO ₃)	400		2.	1	EPA 200.7	mg/L	7/16/01
Nitrate, as N	0.49	H1	0.1	1	EPA 300.0	mg/L-N	7/17/01
pH	6.5	H3	2.	1	EPA 150.1	pH Units	7/13/01
pH Temperature	6.9		1.	1	EPA 150.1	°C	7/13/01
Sulfate	320		20.	200	EPA 300.0	mg/L	7/18/01
Total Dissolved Solids	760		15.	1	SM 2540 C	mg/L	7/17/01

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.

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009

CLIENT ID: M19.3
 DATE SAMPLED: 7/12/01
 NEL SAMPLE ID: P0107033-03

TEST: Inorganic Non-Metals
 MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	90		1	SM 2320 B	mg/L	7/20/01
Alkalinity - Carbonate as CaCO ₃	ND		1	SM 2320 B	mg/L	7/20/01
Alkalinity - Hydroxide as CaCO ₃	ND		1	SM 2320 B	mg/L	7/20/01
Alkalinity, Total as CaCO ₃	90	25.	1	SM 2320 B	mg/L	7/20/01
Cation/Anion Balance	2	0.	1	Standard Methods	% Diff.	8/9/01
Chloride	150	20.	200	EPA 300.0	mg/L	7/18/01
Fluoride	0.83	0.1	1	EPA 300.0	mg/L	7/17/01
Hardness, Total (as CaCO ₃)	390	2.	1	EPA 200.7	mg/L	7/16/01
Nitrate, as N	0.49	H1 0.1	1	EPA 300.0	mg/L-N	7/17/01
pH	6.5	H3 2.	1	EPA 150.1	pH Units	7/13/01
pH Temperature	7.5	1.	1	EPA 150.1	°C	7/13/01
Sulfate	310	20.	200	EPA 300.0	mg/L	7/18/01
Total Dissolved Solids	760	15.	1	SM 2540 C	mg/L	7/17/01

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.

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: OWB-2 (LV)
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-04

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	220			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Carbonate as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Hydroxide as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity, Total as CaCO ₃	220	H1	25.	1	SM 2320 B	mg/L	8/3/01
Cation/Anion Balance	11		0.	1	Standard Methods	% Diff.	8/9/01
Chloride	190		20.	200	EPA 300.0	mg/L	8/1/01
Fluoride	0.69		0.4	1	SM 4500-F C	mg/L	7/30/01
Nitrate, as N	7.3	H1	1.	10	EPA 300.0	mg/L-N	8/1/01
pH	7.71	H3	2.	1	EPA 150.1	pH Units	7/27/01
pH Temperature	22.2		1.	1	EPA 150.1	°C	7/27/01
Sulfate	210		20.	200	EPA 300.0	mg/L	8/1/01
Total Dissolved Solids	1010	H1	15.	1	SM 2540 C	mg/L	8/1/01

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.

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009

CLIENT ID: BHP-1 (LV)
 DATE SAMPLED: 7/12/01
 NEL SAMPLE ID: P0107033-05

TEST: Inorganic Non-Metals
 MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	80			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Carbonate as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Hydroxide as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity, Total as CaCO ₃	80	H1	25.	1	SM 2320 B	mg/L	8/3/01
Cation/Anion Balance	12		0.	1	Standard Methods	% Diff.	8/9/01
Chloride	140		20.	200	EPA 300.0	mg/L	8/1/01
Fluoride	0.78		0.4	1	SM 4500-F C	mg/L	7/30/01
Nitrate, as N	0.54	H1	0.1	1	EPA 300.0	mg/L-N	8/2/01
pH	7.11	H3	2.	1	EPA 150.1	pH Units	7/27/01
pH Temperature	22.4		1.	1	EPA 150.1	°C	7/27/01
Sulfate	240		20.	200	EPA 300.0	mg/L	8/1/01
Total Dissolved Solids	763	H1	15.	1	SM 2540 C	mg/L	8/1/01

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.

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: M19.3 (LV)
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-06

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO ₃	80			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Carbonate as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity - Hydroxide as CaCO ₃	ND			1	SM 2320 B	mg/L	8/3/01
Alkalinity, Total as CaCO ₃	80	H1	25.	1	SM 2320 B	mg/L	8/3/01
Cation/Anion Balance	9		0.	1	Standard Methods	% Diff.	8/9/01
Chloride	140		20.	200	EPA 300.0	mg/L	8/1/01
Fluoride	0.78		0.4	1	SM 4500-F C	mg/L	7/30/01
Nitrate, as N	0.53	H1	0.1	1	EPA 300.0	mg/L-N	8/2/01
pH	6.91	H3	2.	1	EPA 150.1	pH Units	7/27/01
pH Temperature	21.9		1.	1	EPA 150.1	°C	7/27/01
Sulfate	260		20.	200	EPA 300.0	mg/L	8/1/01
Total Dissolved Solids	767	H1	15.	1	SM 2540 C	mg/L	8/1/01

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.

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010717F2A-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	0.1	1	EPA 300.0	mg/L	7/17/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010717NO3A-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	7/17/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010717TDS-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>
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	7/17/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010718CL-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	7/18/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010718NO3-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	7/18/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010718SO4-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>
Sulfate	ND	0.1	1	EPA 300.0	mg/L	7/18/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010801CL-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	8/1/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010801NO3-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	8/1/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010801SO4-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>
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/1/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010801TDS-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>
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/1/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010802ALK3-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 as CaC	ND		1	SM 2320 B	mg/L	8/3/01
Alkalinity - Carbonate as CaCO	ND		1	SM 2320 B	mg/L	8/3/01
Alkalinity - Hydroxide as CaCO	ND		1	SM 2320 B	mg/L	8/3/01
Alkalinity, Total as CaCO ₃	ND	25	1	SM 2320 B	mg/L	8/3/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010802NO3A-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	8/2/01

D.F. - Dilution Factor

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: **OWB-2**
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-01

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

METHOD: EPA 8021B
MATRIX: Aqueous
DILUTION: 1

ANALYST: CCS - Las Vegas Division
EXTRACTED: NA
ANALYZED: 7/17/01

<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	96	60 - 120

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: BHP-1
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-02

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

ANALYST: CCS - Las Vegas Division
EXTRACTED: NA
ANALYZED: 7/17/01

<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	96	60 - 120

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: M19.3
DATE SAMPLED: 7/12/01
NEL SAMPLE ID: P0107033-03

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

ANALYST: CCS - Las Vegas Division
EXTRACTED: NA
ANALYZED: 7/17/01

<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	88	60 - 120

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 010717BTEX-BLK

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

ANALYST: CCS - Las Vegas Division
EXTRACTED: NA
ANALYZED: 7/17/01

<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	102	60 - 120

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996
 METHOD: EPA 8015M
 ORDER ID: P0107033

MATRIX: Aqueous

ANALYST: CCS - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/L	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
OWB-2	7/12/01	P0107033-01	ND	ND	0.5mg/L	113 %	7/16/01	7/16/01
BHP-1	7/12/01	P0107033-02	ND	ND	0.5mg/L	94 %	7/16/01	7/16/01
M19.3	7/12/01	P0107033-03	ND	ND	0.5mg/L	120 %	7/16/01	7/16/01

C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 010716TPH-BLK	ND	< 0.5 mg/L	108 %	NA
LCS, 010716TPHW-LCS	68 %	53.3 - 91 %	91 %	NA
LCSD, 010716TPHW-LCSD	59 %	53.3 - 91 %	92 %	NA
MS, 010716TPHW-MS	74 %	63 - 102 %	105 %	P0107032-02
MSD, 010716TPHW-MSD	78 %	63 - 102 %	115 %	P0107032-02

* Surrogate used was Octacosane, acceptance limits 58-120%.

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Antimony	0717-1.2-LCS	0.005	0.00504	101	85 - 115	
Antimony	P0107033-01-MS	0.005	0.00764	153 M1	75 - 125	
Antimony	P0107033-01-MSD	0.005	0.0065	130 M1	75 - 125	16.1
Arsenic	0717-1.2-LCS	0.01	0.00987	99	85 - 115	
Arsenic	P0107033-01-MS	0.01	0.0158	129 M1	75 - 125	
Arsenic	P0107033-01-MSD	0.01	0.0152	123	75 - 125	4.8
Lead	0717-1.2-LCS	0.005	0.0054	108	85 - 115	
Lead	P0107033-01-MS	0.005	0.0049	98	75 - 125	
Lead	P0107033-01-MSD	0.005	0.00527	105	75 - 125	7.3
Selenium	0717-1.2-LCS	0.01	0.0112	112	85 - 115	
Selenium	P0107033-01-MS	0.01	0.017	143 M1	75 - 125	
Selenium	P0107033-01-MSD	0.01	0.0175	148 M1	75 - 125	3.4
Thallium	0717-1.2-LCS	0.005	0.00511	102	85 - 115	
Thallium	P0107033-01-MS	0.005	0.00468	94	75 - 125	
Thallium	P0107033-01-MSD	0.005	0.0049	98	75 - 125	4.6

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
7.00 Buffer	010713PH-LCS	7	7	100	99 - 101	
7.00 Buffer	010713PH-LCSD	7	6.99	100	99 - 101	0.1

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
7.00 Buffer	010713PH-LCS	7	7	100	99 - 101	
7.00 Buffer	010713PH-LCSD	7	6.99	100	99 - 101	0.1

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	010717BTEX-LCS	50	50.956	102	85 - 115	
Benzene	010717BTEX-LCSD	50	48.012	96	80 - 120	5.9
Benzene	P0107032-02-MS	50	46.571	93	70 - 130	
Benzene	P0107032-02-MSD	50	47.99	96	70 - 130	3.
Toluene	010717BTEX-LCS	50	50.273	101	85 - 115	
Toluene	010717BTEX-LCSD	50	51.536	103	80 - 120	2.5
Toluene	P0107032-02-MS	50	52.961	106	70 - 130	
Toluene	P0107032-02-MSD	50	50.673	101	70 - 130	4.4
Ethylbenzene	010717BTEX-LCS	50	52.574	105	85 - 115	
Ethylbenzene	010717BTEX-LCSD	50	51.24	102	80 - 120	2.6
Ethylbenzene	P0107032-02-MS	50	53.83	108	70 - 130	
Ethylbenzene	P0107032-02-MSD	50	50.899	102	70 - 130	5.6
Total Xylenes	010717BTEX-LCS	150	156.065	104	85 - 115	
Total Xylenes	010717BTEX-LCSD	150	154.893	103	80 - 120	0.8
Total Xylenes	P0107032-02-MS	150	160.956	107	70 - 130	
Total Xylenes	P0107032-02-MSD	150	153.76	103	70 - 130	4.6

ND - Not Detected

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

CLIENT: Brown & Caldwell
PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009
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>
Nitrate, as N	010717NO3A-LCS	0.5	0.5102	102	85 - 115	

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Total Dissolved Solids	010717TDS-LCS	1000	964	96	80 - 120	

ND - Not Detected

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	010718CL-LCS	100	102	102	90 - 110	
Chloride	010718CL-LCSD	100	101	101	90 - 110	1.
Chloride	L0107163-01-MS	10	35.1	101	80 - 120	

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Nitrate, as N	010718NO3-LCS	100	101	101	90 - 110	
Nitrate, as N	010718NO3-LCSD	100	97	97	90 - 110	4.
Nitrate, as N	L0107163-01-MS	100	105	105	80 - 120	

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 TEST: **Inorganic Non-Metals**
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike</u> <u>Amonnt</u>	<u>Spike</u> <u>Result</u>	<u>Percent</u> <u>Recovery</u>	<u>Acceptable</u> <u>Range</u>	<u>RPD</u>
Sulfate	010718SO4-LCS	100	101	101	90 - 110	
Sulfate	010718SO4-LCSD	100	101	101	90 - 110	0.
Sulfate	L0107152-07-MS	5	19.7	94	80 - 120	

ND - Not Detected

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

CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
7.00 Buffer	010727PH2-LCS	7	7	100	99 - 101	
7.00 Buffer	010727PH2-LCSD	7	7.01	100	99 - 101	0.1

ND - Not Detected

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	010730F-LCS	1	0.97	97	84 - 109	
Fluoride	010730F-LCSD	1	1	100	84 - 109	3.
Fluoride	L0107277-01-MS	1	1.5	96	71 - 126	
Fluoride	L0107277-01-MSD	1	1.5	96	71 - 126	0.

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	010801CL-LCS	100	97	97	90 - 110	
Chloride	010801CL-LCSD	100	97	97	90 - 110	0.
Chloride	L0107272-02-MS	5000	16700	114	80 - 120	

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PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009
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>
Nitrate, as N	010801NO3-LCS	100	97	97	90 - 110	
Nitrate, as N	010801NO3-LCSD	100	97	97	90 - 110	0.

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Sulfate	010801SO4-LCS	100	102	102	90 - 110	
Sulfate	010801SO4-LCSD	100	106	106	90 - 110	3.8

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 TEST: **Inorganic Non-Metals**
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Resnlt</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Total Dissolved Solids	010801TDS-LCS	1000	975	98	80 - 120	

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PROJECT ID: BHP-Florence/15942.009
PROJECT #: 15942.009
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	010802ALK3-LCS	125	122	98	90 - 110	
Alkalinity, Total	010802ALK3-LCSD	125	123	98	90 - 110	0.8

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Nitrate, as N	010802NO3A-LCS	0.5	0.489	98	85 - 115	
Nitrate, as N	P0107032-15-MS	10	14	98	80 - 120	

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	0716-2.2-LCS	1	0.951	95	85 - 115	
Aluminum	P0107033-01-MS	1	0.964	96	75 - 125	
Aluminum	P0107033-01-MSD	1	0.985	99	75 - 125	2.2
Barium	0716-2.2-LCS	1	0.959	96	85 - 115	
Barium	P0107033-01-MS	1	1.02	96	75 - 125	
Barium	P0107033-01-MSD	1	1.02	96	75 - 125	0.
Beryllium	0716-2.2-LCS	0.1	0.0974	97	85 - 115	
Beryllium	P0107033-01-MS	0.1	0.0972	97	75 - 125	
Beryllium	P0107033-01-MSD	0.1	0.097	97	75 - 125	0.2
Cadmium	0716-2.2-LCS	0.5	0.482	96	85 - 115	
Cadmium	P0107033-01-MS	0.5	0.477	95	75 - 125	
Cadmium	P0107033-01-MSD	0.5	0.48	96	75 - 125	0.6
Calcium	0716-2.2-LCS	20	19.6	98	85 - 115	
Calcium	P0107033-01-MS	20	141	105	75 - 125	
Calcium	P0107033-01-MSD	20	142	110	75 - 125	4.7
Chromium	0716-2.2-LCS	0.5	0.483	97	85 - 115	
Chromium	P0107033-01-MS	0.5	0.479	96	75 - 125	
Chromium	P0107033-01-MSD	0.5	0.48	96	75 - 125	0.2
Cobalt	0716-2.2-LCS	0.5	0.491	98	85 - 115	
Cobalt	P0107033-01-MS	0.5	0.48	96	75 - 125	
Cobalt	P0107033-01-MSD	0.5	0.482	96	75 - 125	0.4
Copper	0716-2.2-LCS	0.5	0.487	97	85 - 115	
Copper	P0107033-01-MS	0.5	0.482	96	75 - 125	
Copper	P0107033-01-MSD	0.5	0.486	97	75 - 125	0.8
Iron	0716-2.2-LCS	1	1.02	102	85 - 115	
Iron	P0107033-01-MS	1	1.04	104	75 - 125	
Iron	P0107033-01-MSD	1	1.02	102	75 - 125	1.9
Magnesium	0716-2.2-LCS	20	20	100	85 - 115	
Magnesium	P0107033-01-MS	20	49.2	96	75 - 125	
Magnesium	P0107033-01-MSD	20	49.6	98	75 - 125	2.1
Manganese	0716-2.2-LCS	0.5	0.483	97	85 - 115	
Manganese	P0107033-01-MS	0.5	0.477	95	75 - 125	
Manganese	P0107033-01-MSD	0.5	0.477	95	75 - 125	0.
Molybdenum	0716-2.2-LCS	0.1	0.0985	99	85 - 115	
Molybdenum	P0107033-01-MS	0.1	0.0999	100	75 - 125	
Molybdenum	P0107033-01-MSD	0.1	0.102	102	75 - 125	2.1
Nickel	0716-2.2-LCS	1	0.991	99	85 - 115	
Nickel	P0107033-01-MS	1	0.956	96	75 - 125	

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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>
Nickel	P0107033-01-MSD	1	0.956	96	75 - 125	0.
Potassium	0716-2.2-LCS	20	19.2	96	85 - 115	
Potassium	P0107033-01-MS	20	24.6	97	75 - 125	
Potassium	P0107033-01-MSD	20	25.2	100	75 - 125	3.1
Silver	0716-2.2-LCS	0.5	0.479	96	85 - 115	
Silver	P0107033-01-MS	0.5	0.476	95	75 - 125	
Silver	P0107033-01-MSD	0.5	0.479	96	75 - 125	0.6
Sodium	0716-2.2-LCS	20	19.6	98	85 - 115	
Sodium	P0107033-01-MS	20	180	100	75 - 125	
Sodium	P0107033-01-MSD	20	180	100	75 - 125	0.
Zinc	0716-2.2-LCS	0.5	0.489	98	85 - 115	
Zinc	P0107033-01-MS	0.5	0.483	97	75 - 125	
Zinc	P0107033-01-MSD	0.5	0.487	97	75 - 125	0.8

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CLIENT: Brown & Caldwell
 PROJECT ID: BHP-Florence/15942.009
 PROJECT #: 15942.009
 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	0716-D245.1AQ-LCS	0.005	0.00489	98	85 - 115	
Mercury	P0107017-01-MS	0.005	0.00479	96	70 - 130	
Mercury	P0107017-01-MSD	0.005	0.00473	95	70 - 130	1.3

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NEL LABORATORIES

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Phoenix • Sacramento

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

Company: Brown and Cabell Attention: Barb Sylvester
Address: 3636 N Central Ave #200
Phoenix AZ 85012
Phone Number: 602 222 4476 Fax Number: 602 222 4466
Billing Address: BHP Accounts Payable Expected Due Date: 7-20-01
P.O. Box M San Manuel AZ 85631
Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

CHAIN OF CUSTODY

NEL Work Order: P0107033

Project Name: BHP - Florence Project Number: 15942.009
Purchase Order Number: 34016742 Sampled By: Barb Sylvester

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
7-12-01 0840	OWB-2	01	1	AO	B	Metals (Field Filtered)	
0840	OWB-2	01	3	E		✓ ✓	
0840	OWB-2	01	3	A		✓	
0910	BHP-1	02	1	B		✓	
0910	BHP-1	02	3	E		✓ ✓	
0910	BHP-1	02	3	A		✓	
0910	M19.3	03	1	B		✓	
0910	M19.3	03	3	E		✓ ✓	
2-12-01 0910	M19.3	03	3	AO	A	✓	

Custody Seal intact? Y N None Temp. 17
Condition when received good

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

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

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester	<i>[Signature]</i>	7-12-01 1445	E. Morris	<i>[Signature]</i>	7-12-01 1445
2 E. Morris	<i>[Signature]</i>	7-12-01 1445			
3					

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ORIGINAL