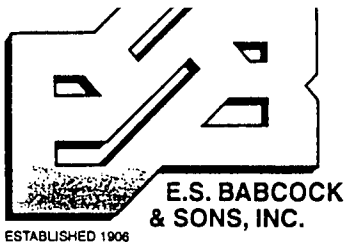


3. Big Bear Lake:

- Beneficial Uses: MUN, AGR, GWR, REC1, REC2, WARM, COLD, WILD, RARE
- Hydrologic Unit: 801.71
- Total Water Body Size: 2970 acres
- Size Impaired: Unknown at this time
- Extent of Impairment: Unknown at this time
- Data Analyses:
 - Big Bear Municipal Water District Data:*
 - Station 1 – 0/8 exceeded the Basin Plan Objective total phosphorus standard of 0.15 mg/L
 - Station 2 – 1/5 exceeded the Basin Plan Objective total phosphorus standard of 0.15 mg/L
 - Station 3 – 0/5 exceeded the Basin Plan Objective total phosphorus standard of 0.15 mg/L
 - Station 4 – 0/5 exceeded the Basin Plan Objective total phosphorus standard of 0.15 mg/L
 - Station 5 – 0/8 exceeded the Basin Plan Objective total phosphorus standard of 0.15 mg/L
 - Station 1 – 8/8 exceeded the Basin Plan Objective total nitrogen standard of 0.15 mg/L
 - Station 2 – 5/5 exceeded the Basin Plan Objective total nitrogen standard of 0.15 mg/L
 - Station 3 – 5/5 exceeded the Basin Plan Objective total nitrogen standard of 0.15 mg/L
 - Station 4 – 5/5 exceeded the Basin Plan Objective total nitrogen standard of 0.15 mg/L
 - Station 5 – 8/8 exceeded the Basin Plan Objective total nitrogen standard of 0.15 mg/L
 - Recommendation: None, TMDL development in progress
 - Potential Sources: Unknown at this time
 - TMDL Priority: High
 - TMDL Start Date: 2002
 - TMDL End Date: 2005

244



Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 3
Site: BIG BEAR LAKE
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L76727-003

Date Reported: 11/10/00

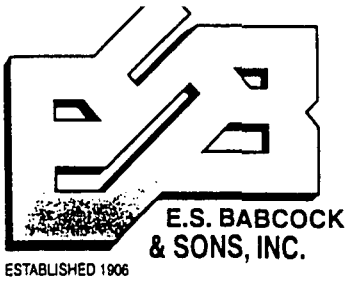
Collected By: MS
Date: 11/03/00
Time: 0909
Submitted By: Gene
Date: 11/03/00
Time: 1303

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001106/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001103/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	001109/HGA
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.01	001103/TF
Kjeldahl Nitrogen	0.9 mg/L	EPA 351.2	0.1	001108/KS
Total Nitrogen	0.9 mg/L	Calculation	0.1	001108/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 4
Site: BIG BEAR LAKE
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L76727-004

Date Reported: 11/10/00

Collected By: MS
Date: 11/03/00
Time: 0913
Submitted By: Gene
Date: 11/03/00
Time: 1303

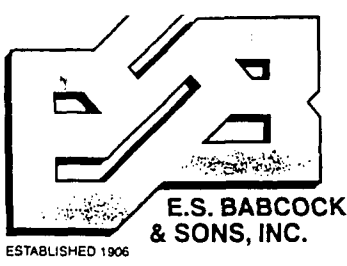
<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	001106/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	001103/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	001109/HGA
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.01	001103/TF
Kjeldahl Nitrogen	0.9	mg/L	EPA 351.2	0.1	001108/KS
Total Nitrogen	0.9	mg/L	Calculation	0.1	001108/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Laboratory Results

Received
KACLE
Page: 1 of 1
Lab No.: L76727-001

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 1
Site: BIG BEAR LAKE
Description:

Matrix: wastewater

Date Reported: 11/10/00

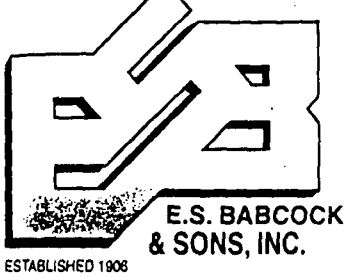
Collected By: MS
Date: 11/03/00
Time: 0903
Submitted By: Gene
Date: 11/03/00
Time: 1303

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	001106/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	001103/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	001106/HGA
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.01	001103/TF
Kjeldahl Nitrogen	0.8	mg/L	EPA 351.2	0.1	001108/KS
Total Nitrogen	0.8	mg/L	Calculation	0.1	001108/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 2
Site: BIG BEAR LAKE
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L76727-002

Date Reported: 11/10/00

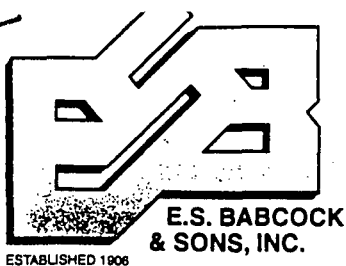
Collected By: MS
Date: 11/03/00
Time: 0906
Submitted By: Gene
Date: 11/03/00
Time: 1303

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L SM4500-NH3 H	0.05	001106/KS
Nitrate-Nitrogen	ND	mg/L EPA 300.0	0.05	001103/KOS
Total Phosphorus	ND	mg/L SM 4500-PB4E	0.05	001109/HGA
Nitrite-Nitrogen	ND	mg/L EPA 354.1	0.01	001103/TF
Kjeldahl Nitrogen	0.8	mg/L EPA 351.2	0.1	001108/KS
Total Nitrogen	0.8	mg/L Calculation	0.1	001108/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

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370

Client:
Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Page: 1 of 1
Lab No.: L67935-001

Date Reported: 04/18/00

Big Bear Lake, Ca 92315

Collected By:
Date: 04/09/00
Time: 1547

Client I.D.: STATION 1
Site:
Description:

Submitted By: MS
Date: 04/10/00
Time: 1030

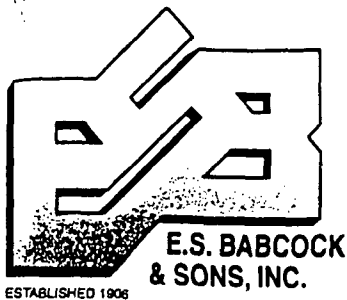
Matrix: wastewater

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.2	000410/RK
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000414/RK
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.1	000411/TF
Kjeldahl Nitrogen	0.8	mg/L	EPA 351.2	0.1	000414/SL
Total Nitrogen	0.8	mg/L	Calculation	0.2	000414/SL

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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Laboratory Results

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Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: KNICKERBOCKER CRK

Site: BIG BEAR, CA.

Description:

Matrix: water

Page: 1 of 1
 Lab No.: L69143-007

Date Reported: 05/25/00

Collected By: MS
 Date: 05/08/00
 Time: 1205
 Submitted By: GM
 Date: 05/09/00
 Time: 1321

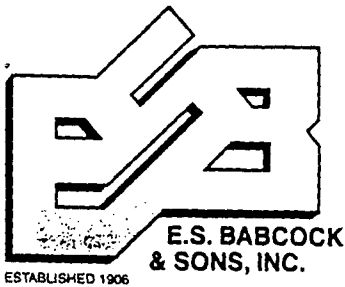
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000517/KS
Nitrate-Nitrogen	0.23 mg/L	EPA 300.0	0.05	000509/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000509/RK
Nitrite-Nitrogen	0.02 mg/L	SM 4500-NO2B	0.01	000509/TF
Kjeldahl Nitrogen	0.4 mg/L	EPA 351.2	0.1	000522/BW
Inorganic Nitrogen	0.28 mg/L	Calculation	0.05	000524/SF
Total Nitrogen	0.7 mg/L	Calculation	0.2	000522/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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 6100 Quail Page 5 of 18
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 1
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L70116-001

Date Reported: 06/28/00

Collected By: MS
 Date: 06/05/00
 Time: 0945
 Submitted By: Client
 Date: 06/05/00
 Time: 1224

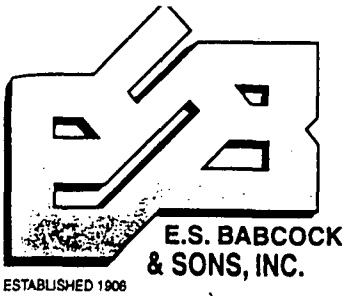
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000609/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000605/KOS
Total Phosphorus	0.12 mg/L	SM 4500-PB4E	0.05	000609/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.05	000605/TF
Kjeldahl Nitrogen	0.85 mg/L	EPA 351.2	0.05	000613/BW
Inorganic Nitrogen	ND mg/L	Calculation	0.05	000609/KS
Total Nitrogen	0.87 mg/L	Calculation	0.05	000613/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

NO2N was analyzed by Ion Chromatography and 0.01 RL for NO2N was not achieved.

cc:

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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: METCALF CREEK
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L71650-005

Date Reported: 07/19/00

Collected By: MS
Date: 07/10/00
Time: 0842
Submitted By: Client
Date: 07/11/00
Time: 1111

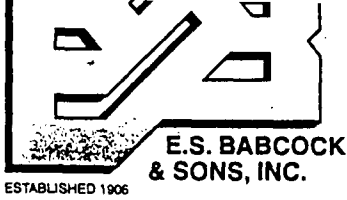
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000711/KOS
Total Phosphorus	0.09 mg/L	SM 4500-PB4E	0.05	000717/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000711/AEC
Kjeldahl Nitrogen	0.35 mg/L	EPA 351.2	0.05	000718/BW
Total Nitrogen	0.35 mg/L	Calculation	0.05	000718/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 5
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L70116-002

Date Reported: 06/28/00

Collected By: MS
 Date: 06/05/00
 Time: 0955
 Submitted By: Client
 Date: 06/05/00
 Time: 1224

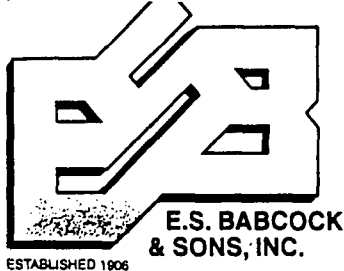
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000609/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000605/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000614/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.05	000605/TF
Kjeldahl Nitrogen	0.91 mg/L	EPA 351.2	0.05	000613/BW
Inorganic Nitrogen	ND mg/L	Calculation	0.05	000609/KS
Total Nitrogen	0.92 mg/L	Calculation	0.05	000613/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

NO2N was analyzed by Ion Chromatography and 0.01 RL for NO2N was not achieved.

cc:


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6100 Quail Valley Court Riverside, CA 92507-0704
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: METCALF CREEK
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L70116-003

Date Reported: 06/28/00

Collected By: MS
Date: 06/05/00
Time: 0915
Submitted By: Client
Date: 06/05/00
Time: 1224

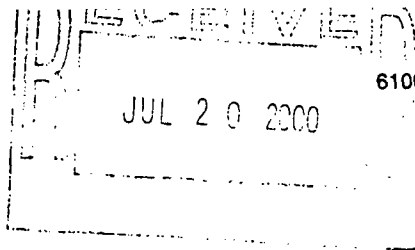
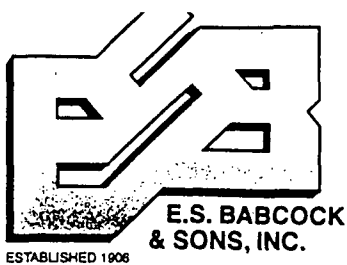
<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	000609/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	000605/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000614/JB
Nitrite-Nitrogen	ND	mg/L	SM 4500-NO2B	0.05	000605/TF
Kjeldahl Nitrogen	0.33	mg/L	EPA 351.2	0.05	000613/BW
Inorganic Nitrogen	ND	mg/L	Calculation	0.05	000609/KS
Total Nitrogen	0.36	mg/L	Calculation	0.05	000613/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

NO2N was analyzed by Ion Chromatography and 0.01 RL for NO2N was not achieved.

cc:

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 6100 Quali .. Supporting Data
 PC Big Bear Lake
 PH Page 7 of 18
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 1
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L71650-001

Date Reported: 07/19/00

Collected By: MS
 Date: 07/10/00
 Time: 1140
 Submitted By: Client
 Date: 07/11/00
 Time: 1111

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000711/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000717/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000711/AEC
Kjeldahl Nitrogen	0.84 mg/L	EPA 351.2	0.05	000718/BW
Total Nitrogen	0.84 mg/L	Calculation	0.05	000718/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 5
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L71650-002

Date Reported: 07/19/00

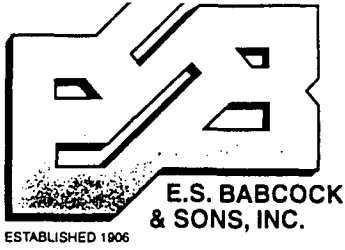
Collected By: MS
Date: 07/10/00
Time: 1151
Submitted By: Client
Date: 07/11/00
Time: 1111

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000711/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000717/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000711/AEC
Kjeldahl Nitrogen	0.69 mg/L	EPA 351.2	0.05	000718/BW
Total Nitrogen	0.69 mg/L	Calculation	0.05	000718/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


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Environment Santa Ana Region 5
6100 Quail V. 2001 WQA/303 D List Update
P.O. Box Supporting Data
PH (909) Big Bear Lake
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AUG 25 2000

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION #4
Site:
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L73029-004

Date Reported: 08/23/00

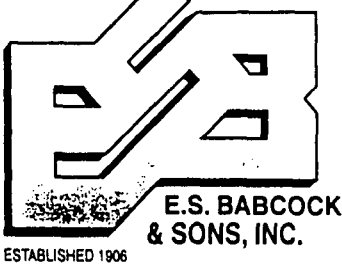
Collected By: MS
Date: 08/09/00
Time: 0950
Submitted By: MS
Date: 08/10/00
Time: 1515

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.1	000815/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000810/MH
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000818/JB
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000811/AEC
Kjeldahl Nitrogen	1.1 mg/L	EPA 351.2	0.1	000815/KS
Total Nitrogen	1.1 mg/L	Calculation	0.2	000815/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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 6100 Quail V. / Court Riverside, CA 92507-0704
 P.O. Box 432 Riverside, CA 92502-0432
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 e-mail: esbsales@aol.com
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION #5

Site:

Description:

Matrix: wastewater

Page: 1 of 1
 Lab No.: L73029-005

Date Reported: 08/23/00

Collected By: MS
 Date: 08/09/00
 Time: 0957
 Submitted By: MS
 Date: 08/10/00
 Time: 1515

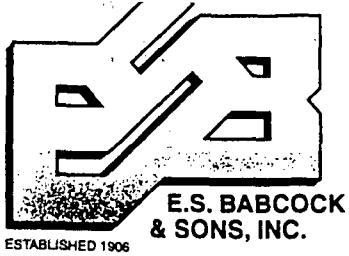
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.1	000815/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000810/MH
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000818/JB
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000811/AEC
Kjeldahl Nitrogen	1.6 mg/L	EPA 351.2	0.1	000815/KS
Total Nitrogen	1.6 mg/L	Calculation	0.2	000815/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Santa Ana Region of
 2001 WQA/303 D List Update
 Supporting Data
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 Page 9 of 18
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 1
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L69143-001

Date Reported: 05/25/00

Collected By: MS
 Date: 05/08/00
 Time: 1025
 Submitted By: GM
 Date: 05/09/00
 Time: 1321

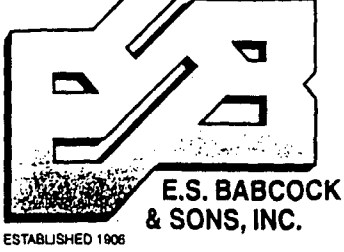
Constituent	Result	Method	RL	Date / Analyst
Ammonia-Nitrogen	0.08 mg/L	SM4500-NH3 H	0.05	000517/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000509/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000509/RK
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000509/TF
Kjeldahl Nitrogen	1.0 mg/L	EPA 351.2	0.1	000522/BW
Inorganic Nitrogen	0.11 mg/L	Calculation	0.05	000524/SF
Total Nitrogen	1.1 mg/L	Calculation	0.2	000522/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Environmental Laboratory Certification # 1100
6100 Quail Valley Court Riverside, CA 92507-0704
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e-mail: esbsales@aol.com
www.babcocklabs.com

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 5
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L69143-002


Date Reported: 05/25/00

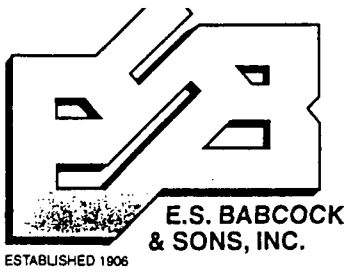
Collected By: MS
Date: 05/08/00
Time: 1100
Submitted By: GM
Date: 05/09/00
Time: 1321

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	000517/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	000509/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000509/RK
Nitrite-Nitrogen	ND	mg/L	SM 4500-NO2B	0.01	000509/TF
Kjeldahl Nitrogen	0.9	mg/L	EPA 351.2	0.1	000522/BW
Inorganic Nitrogen	ND	mg/L	Calculation	0.05	000524/SF
Total Nitrogen	1.	mg/L	Calculation	0.2	000522/BW

ND = None detected at RL (Reporting Limit). RL units same as result.

CC:


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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION #2

Site:

Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L73029-002

Date Reported: 08/23/00

Collected By: MS

Date: 08/09/00

Time: 0926

Submitted By: MS

Date: 08/10/00

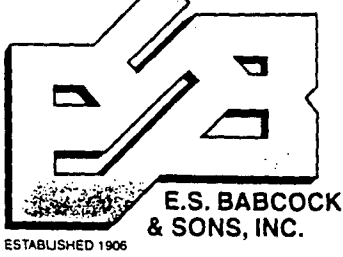
Time: 1515

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.1	000815/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.2	000810/MH
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000818/JB
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.1	000811/AEC
Kjeldahl Nitrogen	1.	mg/L	EPA 351.2	0.1	000815/KS
Total Nitrogen	1.	mg/L	Calculation	0.2	000815/KS

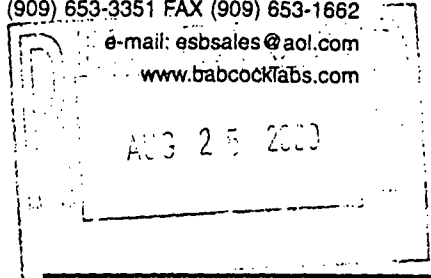
ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


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PH (909) 653-3351 FAX (909) 653-1662
e-mail: esbsales@aol.com
www.babcocklabs.com



Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION #3

Site:

Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L73029-003

Date Reported: 08/23/00

Collected By: MS
Date: 08/09/00
Time: 0933
Submitted By: MS
Date: 08/10/00
Time: 1515

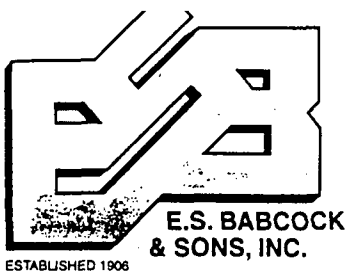
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.1	000815/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000810/MH
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000818/JB
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000811/AEC
Kjeldahl Nitrogen	0.9 mg/L	EPA 351.2	0.1	000815/KS
Total Nitrogen	0.9 mg/L	Calculation	0.2	000815/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 5
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L74275-005

Date Reported: 09/27/00

Collected By: TC
Date: 09/11/00
Time: 0900
Submitted By: MS
Date: 09/11/00
Time: 1518

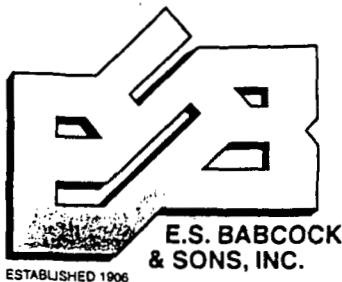
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000918/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000911/KOS
Total Phosphorus	0.06 mg/L	SM 4500-PB4E	0.05	000918/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000922/LA
Kjeldahl Nitrogen	1.4 mg/L	EPA 351.2	0.05	000915/KS
Total Nitrogen	1.4 mg/L	Calculation	0.05	000915/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

Nitrite analyzed past holding time.

cc:

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Aug 25 2000

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION #1

Site:
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L73029-001

Date Reported: 08/23/00

Collected By: MS
Date: 08/09/00
Time: 0919
Submitted By: MS
Date: 08/10/00
Time: 1515

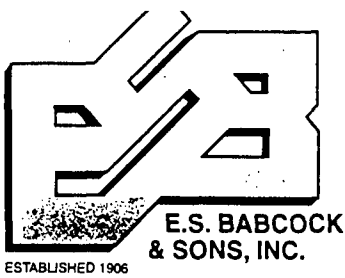
<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.1	000815/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000810/MH
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000818/JB
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000811/AEC
Kjeldahl Nitrogen	1. mg/L	EPA 351.2	0.1	000815/KS
Total Nitrogen	1.0 mg/L	Calculation	0.2	000815/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 3
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L74275-003

Date Reported: 09/27/00

Collected By: TC
 Date: 09/11/00
 Time: 0920
 Submitted By: MS
 Date: 09/11/00
 Time: 1518

Constituent	Result	Method	RL	Date / Analyst
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000918/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000911/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000918/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000922/LA
Kjeldahl Nitrogen	1.2 mg/L	EPA 351.2	0.05	000920/KS
Total Nitrogen	1.3 mg/L	Calculation	0.05	000920/KS

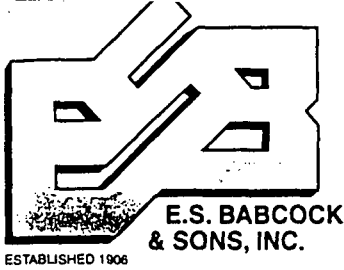
ND = None detected at RL (Reporting Limit). RL units same as result.

Nitrite analyzed past holding time.

cc:



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www.babcocklabs.com

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 4
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L74275-004

Date Reported: 09/27/00

Collected By: TC
Date: 09/11/00
Time: 0910
Submitted By: MS
Date: 09/11/00
Time: 1518

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000918/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	000911/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000918/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000922/LA
Kjeldahl Nitrogen	1.2 mg/L	EPA 351.2	0.05	000915/KS
Total Nitrogen	1.2 mg/L	Calculation	0.05	000915/KS

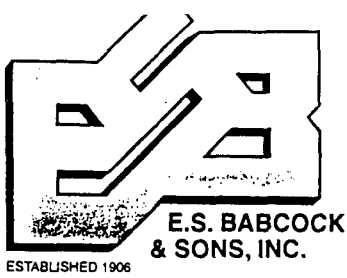
ND = None detected at RL (Reporting Limit). RL units same as result.

Nitrite analyzed past holding time.

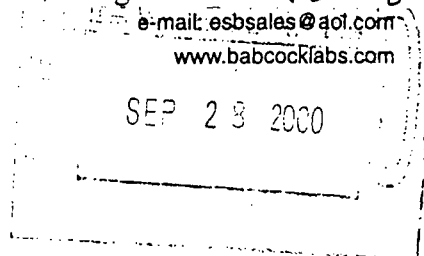
cc:



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Env' ner 2001 WQA/303 D List Update
 6100 Quan valle: Supporting Data
 P.O. E Big Bear Lake
 PH (9) Page 13 of 18
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Laboratory Results

Page: 1 of 1
 Lab No.: L74275-001

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 1
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Date Reported: 09/27/00

Collected By: TC
 Date: 09/11/00
 Time: 0935
 Submitted By: MS
 Date: 09/11/00
 Time: 1518

Constituent	Result	Method	RL	Date / Analyst
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	000918/KS
Nitrate-Nitrogen	0.21 mg/L	EPA 300.0	0.05	000911/KOS
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000918/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000922/LA
Kjeldahl Nitrogen	1.2 mg/L	EPA 351.2	0.05	000915/KS
Total Nitrogen	1.4 mg/L	Calculation	0.05	000915/KS

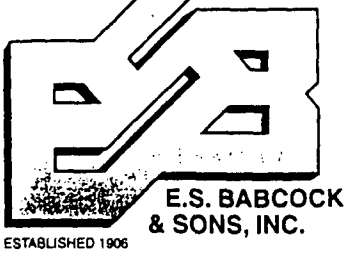
ND = None detected at RL (Reporting Limit). RL units same as result.

Nitrite analyzed past holding time.

cc:



 ESB Project Reviewer



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 e-mail: esbsales@aol.com
 www.babcocklabs.com

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 2
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L74275-002

Date Reported: 09/27/00

Collected By: TC
 Date: 09/11/00
 Time: 0930
 Submitted By: MS
 Date: 09/11/00
 Time: 1518

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	000918/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	000911/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000918/HGA
Nitrite-Nitrogen	ND	mg/L	SM 4500-NO2B	0.01	000922/LA
Kjeldahl Nitrogen	1.1	mg/L	EPA 351.2	0.05	000915/KS
Total Nitrogen	1.1	mg/L	Calculation	0.05	000915/KS

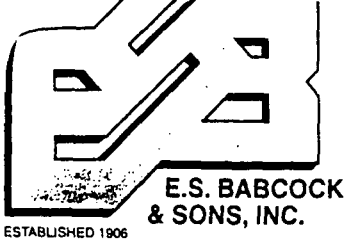
ND = None detected at RL (Reporting Limit). RL units same as result.

Nitrite analyzed past holding time.

cc:



 ESB Project Reviewer



Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 4
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L75365-004


Date Reported: 10/17/00

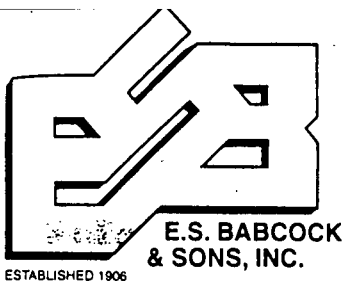
Collected By:
Date: 10/04/00
Time: 0935
Submitted By: CM
Date: 10/04/00
Time: 1356

Constituent	Result	Method	RL	Date / Analyst
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001009/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001004/SF
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	001016/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	001005/LA
Kjeldahl Nitrogen	1.0 mg/L	EPA 351.2	0.1	001011/KS
Total Nitrogen	1.0 mg/L	Calculation	0.2	001011/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

CC:


ESB Project Reviewer



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 6100 Quail Valley Court Riverside, CA 92507-0704
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 e-mail: esbsales@aol.com
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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 5
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L75365-005

Date Reported: 10/17/00

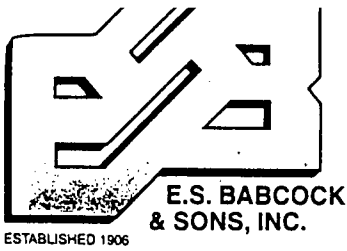
Collected By:
 Date: 10/04/00
 Time: 0940
 Submitted By: CM
 Date: 10/04/00
 Time: 1356

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001009/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001004/SF
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	001016/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	001005/LA
Kjeldahl Nitrogen	0.9 mg/L	EPA 351.2	0.1	001011/KS
Total Nitrogen	0.9 mg/L	Calculation	0.2	001011/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

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Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 2
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L75365-002

Date Reported: 10/17/00

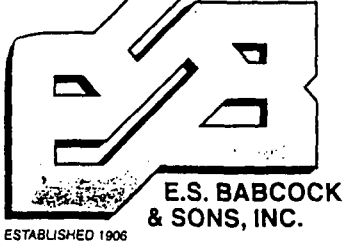
Collected By:
Date: 10/04/00
Time: 0920
Submitted By: CM
Date: 10/04/00
Time: 1356

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001009/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001004/SF
Total Phosphorus	0.75 mg/L	SM 4500-PB4E	0.05	001016/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	001005/LA
Kjeldahl Nitrogen	1. mg/L	EPA 351.2	0.1	001011/KS
Total Nitrogen	1.0 mg/L	Calculation	0.2	001011/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

ESB Project Reviewer



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 6100 Quail Valley Court Riverside, CA 92507-0704
 P.O. Box 432 Riverside, CA 92502-0432
 PH (909) 653-3351 FAX (909) 653-1662
 e-mail: esbsales@aol.com
 www.babcocklabs.com

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 3
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L75365-003

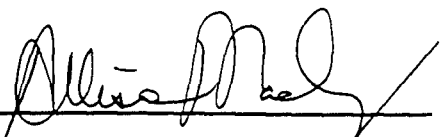
Date Reported: 10/17/00

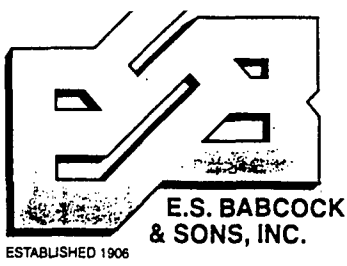
Collected By:
 Date: 10/04/00
 Time: 0925
 Submitted By: CM
 Date: 10/04/00
 Time: 1356

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001009/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001004/SF
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	001016/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	001005/LA
Kjeldahl Nitrogen	1.1 mg/L	EPA 351.2	0.1	001011/KS
Total Nitrogen	1.1 mg/L	Calculation	0.2	001011/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


 ESB Project Reviewer



Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 5
Site: BIG BEAR LAKE
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L76727-005

Date Reported: 11/10/00

Collected By: MS
Date: 11/03/00
Time: 0918
Submitted By: Gene
Date: 11/03/00
Time: 1303

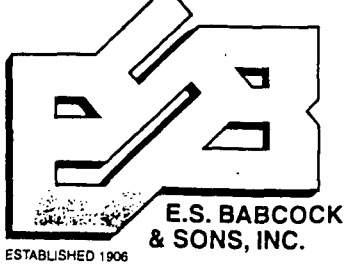
<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	001106/KS
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.05	001103/KOS
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	001109/HGA
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.01	001103/TF
Kjeldahl Nitrogen	0.9	mg/L	EPA 351.2	0.1	001108/KS
Total Nitrogen	0.9	mg/L	Calculation	0.1	001108/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:



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 P.O. Box 432 Riverside, CA 92502-0432
 PH (909) 653-3351 FAX (909) 653-1662
 e-mail: esbsales@aol.com
 www.babcocklabs.com

Laboratory Results

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, CA 92315

Client I.D.: STATION 1
 Site: BIG BEAR, CA.
 Description:

Matrix: water

Page: 1 of 1
 Lab No.: L75365-001

Date Reported: 10/17/00

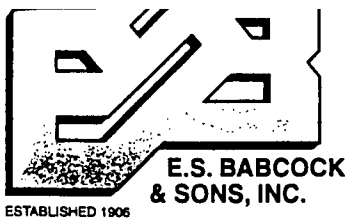
Collected By:
 Date: 10/04/00
 Time: 0900
 Submitted By: CM
 Date: 10/04/00
 Time: 1356

Constituent	Result	Method	RL	Date / Analyst
Ammonia-Nitrogen	ND mg/L	SM4500-NH3 H	0.05	001009/KS
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.05	001004/SF
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	001016/HGA
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	001005/LA
Kjeldahl Nitrogen	1.0 mg/L	EPA 351.2	0.1	001011/KS
Total Nitrogen	1.0 mg/L	Calculation	0.2	001011/KS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:


 ESB Project Reviewer



370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 2

Site:

Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L67935-002

Date Reported: 04/18/00

Collected By:

Date: 04/09/00

Time: 1537

Submitted By: MS

Date: 04/10/00

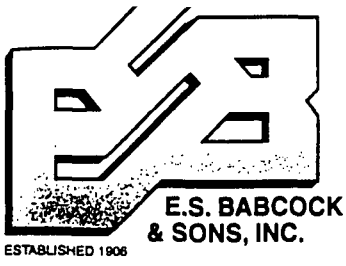
Time: 1030

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.2	000410/RK
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000414/RK
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.1	000411/TF
Kjeldahl Nitrogen	0.8	mg/L	EPA 351.2	0.1	000414/SL
Total Nitrogen	0.8	mg/L	Calculation	0.2	000414/SL

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



Environmental Laboratory Certification #1156
 6100 Quayley Court Riverside, CA 92507-0704
 P.O. Box 432 Riverside, CA 92502-0432
 PH (909) 653-3351 FAX (909) 653-1662
 e-mail: esbsales@aol.com
 www.babcocklabs.com

370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 3

Site:
 Description:

Matrix: wastewater

Page: 1 of 1
 Lab No.: L67935-003

Date Reported: 04/18/00

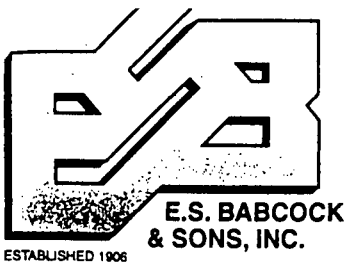
Collected By:
 Date: 04/09/00
 Time: 1530
 Submitted By: MS
 Date: 04/10/00
 Time: 1030

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000410/RK
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000414/RK
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000411/TF
Kjeldahl Nitrogen	0.8 mg/L	EPA 351.2	0.1	000414/SL
Total Nitrogen	0.8 mg/L	Calculation	0.2	000414/SL

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



370

Client:

Big Bear Municipal Water Dist.
 Gene Martin
 P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 4

Site:

Description:

Matrix: wastewater

Page: 1 of 1
 Lab No.: L67935-004

Date Reported: 04/18/00

Collected By:

Date: 04/09/00

Time: 1522

Submitted By: MS

Date: 04/10/00

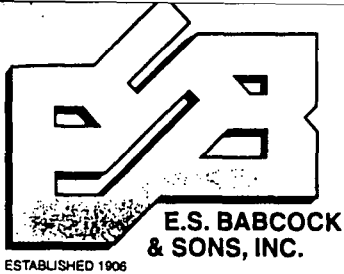
Time: 1030

<u>Constituent</u>	<u>Result</u>	<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND mg/L	EPA 300.0	0.2	000410/RK
Total Phosphorus	ND mg/L	SM 4500-PB4E	0.05	000414/RK
Nitrite-Nitrogen	ND mg/L	EPA 354.1	0.1	000411/TF
Kjeldahl Nitrogen	0.8 mg/L	EPA 351.2	0.1	000414/SL
Total Nitrogen	0.8 mg/L	Calculation	0.2	000414/SL

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.



Environmental Laboratory Certification #1156
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370

Client:

Big Bear Municipal Water Dist.
Gene Martin
P.O. Box 2863

Big Bear Lake, Ca 92315

Client I.D.: STATION 5

Site:

Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L67935-005

Date Reported: 04/18/00

Collected By:

Date: 04/09/00

Time: 1515

Submitted By: MS

Date: 04/10/00

Time: 1030

<u>Constituent</u>	<u>Result</u>		<u>Method</u>	<u>RL</u>	<u>Date / Analyst</u>
Nitrate-Nitrogen	ND	mg/L	EPA 300.0	0.2	000410/RK
Total Phosphorus	ND	mg/L	SM 4500-PB4E	0.05	000414/RK
Nitrite-Nitrogen	ND	mg/L	EPA 354.1	0.1	000411/TF
Kjeldahl Nitrogen	0.9	mg/L	EPA 351.2	0.1	000414/SL
Total Nitrogen	0.9	mg/L	Calculation	0.2	000414/SL

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc



Summary of 8-15-14 WTR reports

Receiving Water Body	Parameter Name	Number of times above std.	Standard	Source of Standard
Big Bear Lake-Station 1	Total Nitrogen	8/8 = 100%	0.15 mg/L	1995 Santa Ana
Big Bear Lake- Station 2	Total Nitrogen	5/5 = 100%	0.15 mg/L	1995 SAR River Basin Plan.
Big Bear Lake - Station 3	Total Nitrogen	5/5 = 100%	0.15 mg/L	1995 SAR Basin Plan
Big Bear Lake - Station 4	Total Nitrogen	5/5 = 100%	0.15 mg/L	1995 SAR Basin Plan.
Big Bear Lake - Station 5	Total Nitrogen	8/8 = 100%	0.15 mg/L	1995 SAR Basin Plan.
Boulder Creek	Total Nitrogen	4/4 = 100%	0.15 mg/L	1995 SAR Basin Plan.
Krickboxer Creek	Total Nitrogen	4/4 = 100%	0.15 mg/L	1995 SAR Basin Plan.
Metcalf Creek	Total Nitrogen	4/4 = 100%	0.15 mg/L	1995 SAR Basin Plan.
Grout Creek	Total Nitrogen	1/2 = 50%	0.15 mg/L	"
Rathburn Creek	Total Nitrogen	2/2 = 100%	0.15 mg/L	"

Big Bear Lake Basin Plan
 1995 Santa Ana River Basin Plan
 1995 SAR River Basin Plan.
 1995 SAR Basin Plan
 1995 SAR Basin Plan.
 1995 SAR Basin Plan.
 1995 SAR Basin Plan.
 1995 SAR Basin Plan.
 1995 SAR Basin Plan.
 1995 SAR Basin Plan.

Big Bear Lake 8-15-14

summary of 8-11 lab reports

Receiving Water Body	Parameter Name	Number of times above std.	Standard	Source of Standard
Big Bear Lake - Station 1	Total Phosphorus	0/8 = 0	0.15 mg/L	1995 SAR Basin
Station 2	Total Phosphorus	1/5 = 20%	0.15 mg/L	1995 SAR Basin
Station 3	Total Phosphorus	0/5 = 0%	0.15 mg/L	1995 SAR Basin
Station 4	Total Phosphorus	0/5 = 0%	0.15 mg/L	1995 SAR Basin
Station 5	Total Phosphorus	0/8 = 0%	0.15 mg/L	1995 SAR Basin
Boulder Creek	Total Phosphorus	0/4 = 0%	0.15 mg/L	1995 SAR Basin
Knickerbocker Creek	Total Phosphorus	1/4 = 25%	0.15 mg/L	1995 SAR Basin
Metcalf Creek	Total Phosphorus	0/4 = 0%	0.15 mg/L	1995 SAR Basin
Grout Creek	Total Phosphorus	0/2 = 0%	0.15 mg/L	1995 SAR Basin
Rathbun Creek	Total Phosphorus	0/2 = 0%	0.15 mg/L	1995 SAR Basin

Plan
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Plan

Big Bear
Lake
8-11