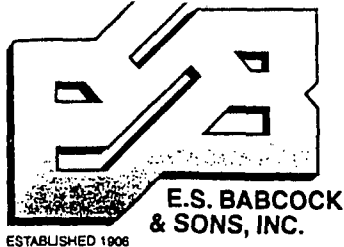


4. Knickerbocker Creek:

- Beneficial Uses: MUN, GWR, REC1, REC2, COLD, WILD (all are intermittent beneficial uses)
- Hydrologic Unit: 801.71
- Total Water Body Size: 2 miles
- Size Impaired: Unknown at this time
- Extent of Impairment: Unknown at this time
- Data Analyses:
 - Big Bear Municipal Water District Data:*
 - 4/4 samples in one location exceeded Basin Plan TIN objective (for Big Bear Lake) of 0.15 mg/l
 - 1/4 exceeded the Basin Plan total phosphorus objective (for Big Bear Lake) of 0.15 mg/L
 - 4/4 exceeded the Basin Plan objective (for Big Bear Lake) of total nitrogen standard of 0.15 mg/L
- Potential Sources: Unknown at this time
- Recommendation: add to 303(d) list for nitrogen; TMDL for Big Bear Lake and tributaries underway
- TMDL Priority: high
- TMDL Start Date: 2002
- TMDL End Date: 2005



Laboratory Results

370

Client:

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

Big Bear Lake, CA 92315

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

Matrix: water

Page: 1 of 1
Lab No.: L71650-004

Date Reported: 07/19/00

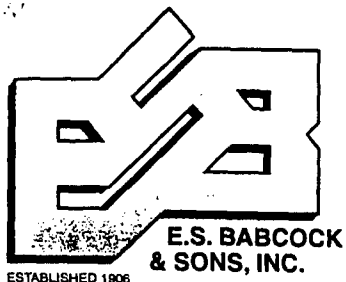
Collected By: MS
Date: 07/10/00
Time: 0904
Submitted By: Client
Date: 07/11/00
Time: 1111

Constituent	Result	Method	RL	Date / Analyst
Nitrate-Nitrogen	0.18 mg/L	EPA 300.0	0.05	000711/KOS
Total Phosphorus	0.08 mg/L	SM 4500-PB4E	0.05	000717/JB
Nitrite-Nitrogen	ND mg/L	SM 4500-NO2B	0.01	000711/AEC
Kjeldahl Nitrogen	0.39 mg/L	EPA 351.2	0.05	000718/BW
Total Nitrogen	0.57 mg/L	Calculation	0.05	000718/BW

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

cc:


ESB Project Reviewer



Environment Santa Ana Region 8
6100 Quail Valley 2001 WQA/303 D List Update
P.O. Box 1 Supporting Data
PH 6 Knickerbocker Creek
Page 3 of 5
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.: KNICKERBOCKER
Site: BIG BEAR, CA.
Description:

Matrix: water

Page: 1 of 1
Lab No.: L70116-005

Date Reported: 06/28/00

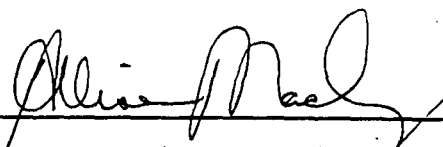
Collected By: MS
Date: 06/05/00
Time: 0953
Submitted By: Client
Date: 06/05/00
Time: 1224

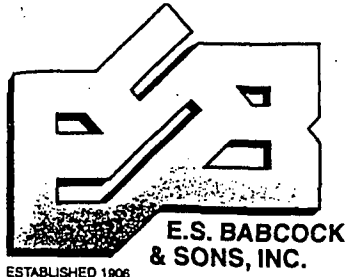
Constituent	Result		Method	RL	Date / Analyst
Ammonia-Nitrogen	ND	mg/L	SM4500-NH3 H	0.05	000609/KS
Nitrate-Nitrogen	0.20	mg/L	EPA 300.0	0.05	000605/KOS
Total Phosphorus	0.05	mg/L	SM 4500-PB4E	0.05	000614/JB
Nitrite-Nitrogen	ND	mg/L	SM 4500-NO2B	0.05	000605/TF
Kjeldahl Nitrogen	0.32	mg/L	EPA 351.2	0.05	000613/BW
Inorganic Nitrogen	0.20	mg/L	Calculation	0.05	000609/KS
Total Nitrogen	0.52	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:


ESB Project Reviewer



Environm Santa Ana Region 8
6100 Quail Vall 2001 WQA/303 D List Update
P.O. Supporting Data
PHI Knickerbocker Creek
Page 4 of 5
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.: KNICKERBOCKER CRK
Site: BIG BEAR, CA.
Description:

Matrix: water

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

Date Reported: 05/25/00

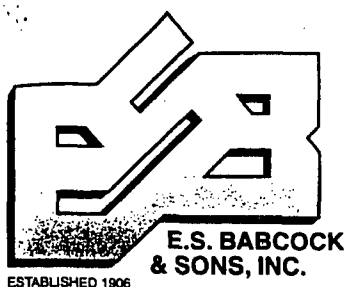
Collected By: MS
Date: 05/08/00
Time: 1205
Submitted By: GM
Date: 05/09/00
Time: 1321

<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:


ESB Project Reviewer



370

Client:

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

Big Bear Lake, Ca 92315

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

Matrix: water

Page: 1 of 1
Lab No.: L67695-005

Date Reported: 04/14/00

Collected By: MS
Date: 04/03/00
Time: 1017
Submitted By: MS
Date: 04/04/00
Time: 1423

Constituent	Result		Method	RL	Date / Analyst
Nitrate-Nitrogen	0.3	mg/L	EPA 300.0	0.2	000404/KOS
Total Phosphorus	0.22	mg/L	SM 4500-PB4E	0.05	000410/RK
Nitrite-Nitrogen	ND	mg/L	SM 4500-NO2B	0.1	000404/TF
Kjeldahl Nitrogen	0.7	mg/L	EPA 351.2	0.1	000412/BW
Total Nitrogen	1.1	mg/L	Calculation	0.2	000412/BW

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

cc:

E. S. Babcock & Sons Inc