



MIDCONTINENT
TESTING LABORATORIES, INC.

Page 1 of 1

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 — www.thechemistrylab.com

Sample Site: **Lead-Deadwood Sanitary District**
Sampled: 06/30/05 at 10:30 AM
by Kevin Espeland
Purpose: Survey
EPA Number: 0190
Lead-Deadwood Sanitary District
Sample Matrix: Water
Lab ID#: 20050630841
Received: 06/30/05 at 02:30 PM
by Kate Shreves
Account: 8591
DENR - Drinking Water Program

KEVIN ESPELAND
DENR
523 E. CAPITOL AVE.
PIERRE, SD 57501

TREATED
WATER

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Physical Properties								
Electrical Conductivity	489	µmhos/cm	1	0.247	1.00	EPA 120.1	JAM	07/01/05
Hardness	246	mg/L	1			SM 2340 B	SCR	07/05/05
Total Dissolved Solids	258	mg/L	100ml	15.5	50.0	EPA 160.1	TMN	07/05/05
pH	8.05	SU	1			EPA 150.1	JAM	07/01/05
Non-Metallics								
Alkalinity	251	mg/L	1	0.337	10.0	SM 2320 B	JAM	07/01/05
Bicarbonate	306	mg/L	1	0.411	10.0	SM 2320 B	JAM	07/01/05
Chloride (Cl ⁻)	5.00	mg/L	1	0.383	0.500	SM 4500-Cl B	NJF	07/01/05
Fluoride	1.39	mg/L	1	0.008	0.050	SM 4110B	NJF	07/05/05
Langelier Scale Index	0.650	LSI	1			Calculation	SCR	07/05/05
Nitrogen, Nitrate (NO ₃)	< 0.500	mg/L	10	0.142	0.500	EPA 353.2	DES	07/01/05
Nitrogen, Nitrite (NO ₂)	< 0.050	mg/L	1	0.005	0.050	EPA 353.2	DES	07/01/05
Sulfate (SO ₄)	13.8	mg/L	1	3.60	10.0	EPA 375.2	DES	07/01/05
Metals - Dissolved								
Calcium (Ca)	50.5	mg/L	1	0.054	1.00	EPA 215.1	BMC	07/01/05
Magnesium (Mg)	29.2	mg/L	1	0.046	0.500	EPA 242.1	BMC	07/01/05
Potassium (K)	< 0.500	mg/L	1	0.020	0.500	EPA 258.1	BMC	07/01/05
Sodium (Na)	1.83	mg/L	1	0.186	0.500	EPA 273.1	BMC	07/01/05
Metals - Total								
Iron (Fe)	< 0.050	mg/L	10	0.004	0.050	EPA 200.8	JEM	07/05/05
Manganese (Mn)	< 0.010	mg/L	10	0.000036	0.001	EPA 200.8	JEM	07/05/05

Notes:

Treated Water

Approved By: _____

Steve Risan

Approved On: 07/07/2005 10:37 AM



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Sample Site: **Lead-Deadwood Sanitary District**
Sampled: 06/30/05 at 10:40 AM
by Kevin Espeland
Purpose: Survey
EPA Number: 0190
Lead-Deadwood Sanitary District
Sample Matrix: Water
Lab ID#: 20050630842
Received: 06/30/05 at 02:30 PM
by Kate Shreves
Account: 8591
DENR - Drinking Water Program

KEVIN ESPELAND
DENR
523 E. CAPITOL AVE.
PIERRE, SD 57501

RAW
WATER

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Physical Properties								
Electrical Conductivity	484	µmhos/cm	1	0.247	1.00	EPA 120.1	JAM	07/01/05
Hardness	247	mg/L	1			SM 2340 B	SCR	07/05/05
Total Dissolved Solids	261	mg/L	100ml	15.5	50.0	EPA 160.1	TMN	07/05/05
pH	8.38	SU	1			EPA 150.1	JAM	07/01/05
Non-Metallics								
Alkalinity	258	mg/L	1	0.337	10.0	SM 2320 B	JAM	07/01/05
Bicarbonate	306	mg/L	1	0.411	10.0	SM 2320 B	JAM	07/01/05
Chloride (Cl-)	3.50	mg/L	1	0.383	0.500	SM 4500-Cl B	NJF	07/01/05
Fluoride	0.099	mg/L	1	0.008	0.050	SM 4110B	NJF	07/05/05
Langelier Scale Index	0.997	LSI	1			Calculation	SCR	07/05/05
Nitrogen, Nitrate (NO3)	0.083	mg/L	1	0.014	0.050	EPA 353.2	DES	07/01/05
Nitrogen, Nitrite (NO2)	< 0.050	mg/L	1	0.005	0.050	EPA 353.2	DES	07/01/05
Sulfate (SO4)	< 10.0	mg/L	1	3.60	10.0	EPA 375.2	DES	07/01/05
Metals - Dissolved								
Calcium (Ca)	51.1	mg/L	1	0.054	1.00	EPA 215.1	BMC	07/01/05
Magnesium (Mg)	28.9	mg/L	5	0.230	2.50	EPA 242.1	BMC	07/01/05
Potassium (K)	< 0.500	mg/L	1	0.020	0.500	EPA 258.1	BMC	07/01/05
Sodium (Na)	1.91	mg/L	1	0.186	0.500	EPA 273.1	BMC	07/01/05
Metals - Total								
Iron (Fe)	< 0.050	mg/L	10	0.004	0.050	EPA 200.8	JEM	07/05/05
Manganese (Mn)	< 0.010	mg/L	10	0.000036	0.001	EPA 200.8	JEM	07/05/05

Notes:

Raw Water

Approved By: Steve Piquet

Approved On: 07/07/2005 10:37 AM