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CONSOL ENERGY™

Consolidation Coal Company
P.O. Box 566
Sesser, IL 62884
Phone: (618) 625-2041
Fax: (618) 625-6844

OK

December 6, 2002

Utah Coal Regulatory Program
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

*Incoming ✓
1/15/05
Copy Dave*

RE: Ivie Creek, Hidden Valley Mine
2002 Stream Monitoring Report

Enclosed are the results of the September 2002, stream monitoring for Ivie Creek at Consolidation Coal Company's, Hidden Valley Mine in Emery County, Utah.

Sample and field measurements were taken September 30, 2002. Hidden Valley #1 is the upstream sampling site, located on the west side of the property. Hidden Valley #2 sample is the downstream site, located just east of the property line.

If you have any questions concerning the stream monitoring, please contact me at (618)625-6847.

Sincerely,

Timothy D. Kirschbaum
Environmental Engineer

cc: S. McCourt, Emery Mine

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DIV. OF OIL, GAS & MINING



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306

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HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

October 22, 2002

CONSOLIDATION COAL COMPANY
EMERY MINE
P.O. BOX 527
EMERY, UTAH 84522
STEVE BEHLING

Sample identification by
Consolidation Coal Company

ID:Hidden Valley Creek #1 Upper

Kind of sample Water
reported to us

RECEIVED 1630
SAMPLED 1130

Sample taken at Consolidation Coal Co.

FIELD MEASUREMENTS
FLOW .15 TEMP 13.4
COND 3850 pH 8.4

Sample taken by S.Behling

Date sampled September 30, 2002

NOTES:
DIS.METALS
FILTERED @ LAB

Date received September 30, 2002

Page 1 of 2

Analysis report no. 59-24573

Parameter	Result	MDL	Units	Method	Analyzed		
					Date/Time/Analyst		
Acidity	<5	0.63	mg/l	as CaCO ₃ D1067-92	10-14-2002	1230	BLP
Alkalinity, Bicarbonate	329	1.28	mg/l	as HCO ₃ EPA 310.1	10-08-2002	1300	BLP
Alkalinity, Carbonate	<5	1.28	mg/l	as CO ₃ EPA 310.1	10-08-2002	1300	BLP
Alkalinity, Total	272	1.28	mg/l	as CaCO ₃ EPA 310.1	10-08-2002	1300	BLP
Anions	45.7	----	meq/l	-----	10-15-2002	1530	SJ
Calcium, Total	172	0.15	mg/l	EPA 215.1	10-09-2002	1417	MK
Calcium, Dissolved	167	0.20	mg/l	EPA 215.1	10-09-2002	1423	MK
Cations	41.4	----	meq/l	-----	10-15-2002	1530	SJ
Chloride	130	0.20	mg/l	EPA 300.0	10-01-2002	1405	DI
Hardness, Total	1129	----	mg/l	as CaCO ₃ SM2340-B	10-15-2002	1330	SJ
Iron, Total	2.4	0.03	mg/l	EPA 236.1	10-09-2002	1109	MK
Iron, Dissolved	<0.1	0.02	mg/l	EPA 236.1	10-09-2002	1143	MK
Magnesium, Total	173	0.27	mg/l	EPA 242.1	10-09-2002	1443	MK
Magnesium, Dissolved	173	0.41	mg/l	EPA 242.1	10-09-2002	1456	MK
Manganese, Total	0.10	0.007	mg/l	EPA 243.1	10-09-2002	1156	MK
Manganese, Dissolved	<0.05	0.007	mg/l	EPA 243.1	10-09-2002	1205	MK
Oil & Grease	<2	1.3	mg/l	EPA 413.1	10-14-2002	0900	DI
Potassium, Total	8	0.38	mg/l	EPA 258.1	10-09-2002	1223	MK
Potassium, Dissolved	7	0.19	mg/l	EPA 258.1	10-09-2002	1240	MK
Sodium, Total	448	0.2	mg/l	EPA 273.1	10-09-2002	1300	MK
Sodium, Dissolved	428	0.2	mg/l	EPA 273.1	10-09-2002	1313	MK
Solids, Settleable	<0.1	0.4	ml/l	EPA 160.5	10-01-2002	0800	BLP
Solids, Total Dissolved	3125	6.2	mg/l	EPA 160.1	10-03-2002	0900	BLP
Solids, Total Suspended	72	3.8	mg/l	EPA 160.2	10-03-2002	0900	BLP

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10/22/02

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

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Page 2 of 2

Analysis report no. 59-24573

Parameter	Result	MDL	Units	Method	Analyzed	
					Date/Time	Analyst
Sulfate	1762	0.16	mg/l	EPA 300.0	10-01-2002 1405	DI
Cation/Anion Balance	-5.0	----	%		10-15-2002 1530	SJ

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P.O. BOX 527
EMERY, UTAH 84522
STEVE BEHLING

Sample identification by
Consolidation Coal Company

ID:Hidden Valley Creek #2 Lower

Kind of sample reported to us Water

RECEIVED 1630
SAMPLED 1150

Sample taken at Consolidation Coal Co.

FIELD MEASUREMENTS
FLOW .19 TEMP 13.7
COND 3740 pH 8.5

Sample taken by S.Behling

Date sampled September 30, 2002

NOTES:
DIS.METALS
FILTERED @ LAB

Date received September 30, 2002

Page 1 of 2

Analysis report no. 59-24574

Parameter	Result	MDL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	0.63	mg/l	as CaCO ₃ D1067-92	10-14-2002 1230 BLP
Alkalinity, Bicarbonate	315	1.28	mg/l	as HCO ₃ EPA 310.1	10-08-2002 1300 BLP
Alkalinity, Carbonate	<5	1.28	mg/l	as CO ₃ EPA 310.1	10-08-2002 1300 BLP
Alkalinity, Total	262	1.28	mg/l	as CaCO ₃ EPA 310.1	10-08-2002 1300 BLP
Anions	7.6	----	meq/l	-----	10-15-2002 1530 SJ
Calcium, Total	168	0.15	mg/l	EPA 215.1	10-09-2002 1417 MK
Calcium, Dissolved	164	0.20	mg/l	EPA 215.1	10-09-2002 1423 MK
Cations	41.6	----	meq/l	-----	10-15-2002 1530 SJ
Chloride	129	0.20	mg/l	EPA 300.0	10-01-2002 1405 DI
Hardness, Total	1126	----	mg/l	as CaCO ₃ SM2340-B	10-15-2002 1330 SJ
Iron, Total	2.4	0.03	mg/l	EPA 236.1	10-09-2002 1109 MK
Iron, Dissolved	<0.1	0.02	mg/l	EPA 236.1	10-09-2002 1143 MK
Magnesium, Total	176	0.27	mg/l	EPA 242.1	10-09-2002 1443 MK
Magnesium, Dissolved	174	0.41	mg/l	EPA 242.1	10-09-2002 1456 MK
Manganese, Total	0.09	0.007	mg/l	EPA 243.1	10-09-2002 1156 MK
Manganese, Dissolved	<0.05	0.007	mg/l	EPA 243.1	10-09-2002 1205 MK
Oil & Grease	<2	1.3	mg/l	EPA 413.1	10-14-2002 0900 DI
Potassium, Total	8	0.38	mg/l	EPA 258.1	10-09-2002 1223 MK
Potassium, Dissolved	7	0.19	mg/l	EPA 258.1	10-09-2002 1240 MK
Sodium, Total	454	0.2	mg/l	EPA 273.1	10-09-2002 1300 MK
Sodium, Dissolved	436	0.2	mg/l	EPA 273.1	10-09-2002 1313 MK
Solids, Settleable	<0.1	0.4	ml/l	EPA 160.5	10-01-2002 0800 BLP
Solids, Total Dissolved	3051	6.2	mg/l	EPA 160.1	10-03-2002 0900 BLP
Solids, Total Suspended	87	3.8	mg/l	EPA 160.2	10-03-2002 0900 BLP

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Parameter	Result	MDL	Units	Method	Analyzed	
					Date/Time	Analyst
Sulfate	1741	0.16	mg/l	EPA 300.0	10-01-2002 1405	DI
Cation/Anion Balance	-3.9	----	%		10-15-2002 1530	SJ

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