ATTACHMENT II-G

SURFACE WATER HYDROLOGY

All surface runoff from the proposed Warrior 282, LLC. - Warrior Mine drains into two unnamed tributaries to Cane Creek. Cane Creek drains into the Locust Fork of the Black Warrior River and lies in subwatershed 120 of hydrologic unit code 03160111 as defined by the USDA Soil Conservation Service.

Nine sediment basins are proposed at this site. Basins 001P, 001AP, 002P, 003P, 004P, 006P, 008P, and 009P will drain into unnamed tributaries to Cane Creek. These sediment basins are permitted under ADEM NPDES Permit Number AL0079928. All sediment basins are proposed as temporary.

The use of the unnamed tributaries to Cane Creek, if any legitimate use exists, is to support the local wildlife or contribute to the quality and quantity of Cane Creek. The use of the Locust Fork of the Black Warrior River is classified as 'Fish and Wildlife' where Cane Creek intersects Locust Fork as stated in Chapter 335-6-11 of "Water Use Classifications For Interstate and Intrastate Waters" as taken from the Water Quality Program at ADEM. According to Chapter 335-6-10 of the same reference, the best usage of this classification is fishing, the propagation of fish, aquatic life, and wildlife, and any other usage except utilization as a supply for drinking or food processing, or for swimming and

water contact sports.

Baseline surface water quality and quantity for the unnamed tributaries to Cane Creek will be characterized in this report by samples taken at Downstream Surface Water Monitoring Site W282WSW5, and Upstream Surface Water Monitoring Sites W282WSW6 and W282WSW7. The location of Surface Water Monitoring Sites W282WSW5, W282WSW6, and W282WSW7 are shown on the attached Mine Site Location Map. Downstream Surface Water Monitoring Site W282WSW5 was sampled on 13 occasions by the PERC Engineering Laboratory between the dates 01-30-09 and 08-31-10. Upstream Surface Water Monitoring Sites W282WSW6 and W282WSW7 were also sampled on 13 occasions by the PERC Engineering Laboratory between the dates 01-30-09 and 08-31-10. All surface water samples were collected by the PERC Engineering Laboratory and taken by the 'grab' method. Flowrate measurements at the monitoring site were taken according to ASTM D3858 "Standard Practice for Open Channel Flow Measurement of Water by Velocity - Area Method" or other equally valid methods. All samples analyzed by the PERC Engineering Laboratory are according to ASTM standards. Parameters tested on all occasions include pH, total iron, total manganese, total suspended solids, specific conductance, sulfates, acidity, and alkalinity. See attached analysis.

All parameters mentioned above were plotted vs. stream flow (in CFSM) to characterize water quality in Cane Creek at different flowrates prior to mining by Warrior 282, LLC at this proposed facility. Baseline conditions at the 7Q2, Average, and 2 yr. flowrates are given in the Determination of the Probable Hydrologic Consequences (Attachment II-H).

Surface Water Monitoring Site W282WSW5 drains approximately 2.14 square miles. Slope conditions within this watershed is variable but predominantly moderate. Elevations range from approximately 580 feet MSL at the drainage divide to approximately 345 feet MSL at the monitoring site. The pre-mine landuse within the drainage area of Surface Water Monitoring Site W282WSW5 is estimated at approximately 66.34 percent forest, 12.73 percent agricultural area (including field and other cleared areas), 11.81 percent residential areas (from the Town of Warrior), and 9.12 percent previously disturbed as referenced from the 1986 photorevised Warrior, Alabama 7.5 minute quadrangle and updated utilizing ASMC records.

A topsoil variance is proposed for this facility.

Classification of all soils on a specific basis within these watershed areas would be prohibitive, therefore, the "Hydrologic Assessment, Eastern Coal Province Area 23, Alabama" was utilized in obtaining the soil associations for these

watersheds. The dominant group is the Montevallo-Enders-Townley Association.

MONTEVALLO SERIES:

In the Montevallo series are shallow and very shallow, excessively drained soils formed from weathered shale. The soils are on narrow, sloping ridgetops and on moderately steep or steep hillsides of the Southern Appalachian Plateau. The following describes a representative profile:

> 0 to 6 inches, yellowish-brown shaly silt loam.
> 6 to 22 inches, yellowish-brown shaly silty clay loam; 75 to 90 percent is fragments of shale.
> 22 inches +, light olive-brown, highly fractured, level, thin-bedded, fissile shale.

The texture of the underlying material ranges from loam to silty clay loam, and in most places it is yellowish brown. Fragments of shale make up 50 to 90 percent of the profile. These soils are very strongly acid, and their natural fertility and content of organic matter are low. Water enters these soils at a moderate to slow rate; it moves at a moderate to rapid rate through the profile. The root zone is shallow, and the available moisture capacity is very low.

ENDERS SERIES:

Soils of the Enders series are moderately deep and deep, well drained, and gently sloping to moderately steep. They formed in material weathered from

interbedded shale and sandstone. These soils are on ridgetops on the Southern Appalachian Plateau and are also on some of the side slopes. The following describes a representative profile:

0 to 5 inches: brown, very friable loam.
5 to 40 inches: red, firm silty clay; has some yellowish-brown mottles in lower part; blocky structure
40 to 52 inches: mottled red and brown, firm silty clay
52 inches +: level-bedded shale

These soils are very strongly acid. Their content of organic matter and their natural fertility are low. Crops grown on these soils make good response to lime and fertilizer. Water enters the soils readily and moves through the profile at a moderate to slow rate. The available moisture capacity is moderate to low. The root zone is moderately deep.

TOWNLEY SERIES:

In the Townley series are shallow and moderately deep, well-drained soils of the Southern Appalachian Plateau. The soils are gently sloping and are on ridgetops and moderately steep side slopes. The following describes a representative profile:

0 to 5 inches, brown loam.
5 to 20 inches, red silty clay mottled with brown in the lower part.
20 to 26 inches, brown silty clay with red and brown mottles.
26 inches +, level-bedded shale.

These soils are very strongly acid, and their natural fertility and content of

organic matter are low. Infiltration and permeability are moderate to slow. The available moisture capacity is low; plants may be damaged by lack of water during even a short period of drought. The root zone is shallow.

Warrior 282, LLC.
Warrior Mine
Surface Water Analysis for
W282WSW5

	Flow	Cond	Fe	Mn	TSS	pH	SO4	Acidity	Alk
1/30/2009	2.44	386.00	0.34	0.21	2.00	7.34	140.00	6.00	58.00
2/11/2009	1.61	382.00	0.42	0.16	9.00	7.91	120.00	8.00	52.00
2/24/2009	1.11	397.00	0.22	0.19	3.00	7.95	150.00	8.00	56.00
3/12/2009	1.89	375.00	0.23	0.17	2.00	7.53	130.00	8.00	48.00
3/30/2009	8.56	274.00	0.77	0.14	14.00	7.08	140.00	6.00	54.00
4/10/2009	4.28	289.00	0.57	0.16	9.00	7.37	140.00	6.00	54.00
4/23/2009	4.37	283.00	0.38	0.15	3.00	7.31	110.00	6.00	58.00
5/6/2009	2.30	291.00	0.44	0.17	5.00	7.14	140.00	8.00	50.00
5/21/2009	4.65	296.00	0.44	0.17	4.00	7.48	130.00	6.00	54.00
5/27/2010	0.79	376.00	0.25	0.06	5.00	7.70	140.00	6.00	58.00
6/7/2010	0.97	339.00	0.26	0.11	0.50	7.56	130.00	8.00	54.00
7/13/2010	0.14	787.00	0.06	0.02	1.00	7.87	110.00	10.00	106.00
8/31/2010	0.09	420.00	0.14	0.03	1.00	7.70	120.00	6.00	60.00

PERC ENGINEERING CO., INC.
P.O. Box 1712
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(205) 384-5553

Sample Number : 119186
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 01/30/2009
Sampled By : swr
Time Taken : 1520
Depth or Flow : 2.438cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	02/06/2009	0800	305.1 (1)
Alkalinity	58	mg/l	Heath Brown	02/06/2009	1010	310.1 (1)
Conductivity	386	umhos	Steve Riddlesperger	01/30/2009	1520	120.1 (1)
Iron	0.34	mg/l	Ryan H. Clement	02/12/2009	1438	236.1 (1)
Manganese	0.21	mg/l	Ryan H. Clement	02/12/2009	1550	243.1 (1)
pH	7.34	s.u.	Steve Riddlesperger	01/30/2009	1520	150.1 (1)
Report			Sherri Fields	02/11/2009		
Sulfate	140	mg/l	Heath Brown	02/03/2009	0830	8051 (3)
TSS	2	mg/l	Heath Brown	02/02/2009	1640	160.2 (1)

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Sample Number : 119531
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 02/11/2009
Sampled By : dcm
Time Taken : 1315
Depth or Flow : 1.605cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	02/13/2009	0900	305.1 (1)
Alkalinity	52	mg/l	Heath Brown	02/13/2009	1050	310.1 (1)
Conductivity	382	umhos	Heath Brown	02/13/2009	0800	120.1 (1)
Iron	0.42	mg/l	Mark Williams	02/17/2009	1504	236.1 (1)
Manganese	0.16	mg/l	Mark Williams	02/17/2009	1613	243.1 (1)
pH	7.91	s.u.	Danny C. Mays	02/11/2009	1315	150.1 (1)
Report			Sherri Fields	02/17/2009		
Sulfate	120	mg/l	Heath Brown	02/13/2009	1500	8051 (3)
TSS	9	mg/l	Heath Brown	02/12/2009	1040	160.2 (1)

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(205) 384-5553

Sample Number : 119813
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 02/24/2009
Sampled By : dcm
Time Taken : 1105
Depth or Flow : 1.107cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	02/26/2009	1600	305.1 (1)
Alkalinity	56	mg/l	Heath Brown	02/26/2009	1630	310.1 (1)
Conductivity	397	umhos	Heath Brown	02/26/2009	1500	120.1 (1)
Iron	0.22	mg/l	Mark Williams	02/26/2009	1449	236.1 (1)
Manganese	0.19	mg/l	Mark Williams	02/26/2009	1505	243.1 (1)
pH	7.95	s.u.	Danny C. Mays	02/24/2009	1105	150.1 (1)
Report			Sherri Fields	02/26/2009		
Sulfate	150	mg/l	Heath Brown	02/26/2009	1530	8051 (3)
TSS	3	mg/l	Heath Brown	02/25/2009	0925	160.2 (1)

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Sample Number : 120346
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 03/12/2009
Sampled By : dcm
Time Taken : 1235
Depth or Flow : 1.888cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	03/19/2009	1500	305.1 (1)
Alkalinity	48	mg/l	Heath Brown	03/19/2009	1600	310.1 (1)
Conductivity	375	umhos	Danny C. Mays	03/12/2009	1235	120.1 (1)
Iron	0.23	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
Manganese	0.17	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
pH	7.53	s.u.	Danny C. Mays	03/12/2009	1235	150.1 (1)
Report			Sherri Fields	03/27/2009		
Sulfate	130	mg/l	Heath Brown	03/20/2009	0745	8051 (3)
TSS	2	mg/l	Heath Brown	03/16/2009	1405	160.2 (1)

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Sample Number : 120780
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 03/30/2009
Sampled By : dcm
Time Taken : 1045
Depth or Flow : 8.561cfs
Tests to be done : pH, TSS, Fe, Mn, Cond, SO4, Acid, Report, Alk,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	54	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	274	umhos	Danny C. Mays	03/30/2009	1045	120.1 (1)
Iron	0.77	mg/l	Ryan H. Clement	04/17/2009	1606	236.1 (1)
Manganese	0.14	mg/l	Mark Williams	04/28/2009	1145	243.1 (1)
pH	7.08	s.u.	Danny C. Mays	03/30/2009	1045	150.1 (1)
Report			Sherri Fields	04/28/2009		
Sulfate	140	mg/l	Heath Brown	04/06/2009	1615	8051 (3)
TSS	14	mg/l	Heath Brown	03/31/2009	1605	160.2 (1)

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Sample Number : 121140
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 04/10/2009
Sampled By : dcm
Time Taken : 1018
Depth or Flow : 4.281cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, TSS, Report,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	54	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	289	umhos	Danny C. Mays	04/10/2009	1018	120.1 (1)
Iron	0.57	mg/l	Ryan H. Clement	04/19/2009	1902	236.1 (1)
Manganese	0.16	mg/l	Ryan H. Clement	04/20/2009	0723	243.1 (1)
pH	7.37	s.u.	Danny C. Mays	04/10/2009	1018	150.1 (1)
Report			Sherri Fields	04/21/2009		
Sulfate	140	mg/l	Heath Brown	04/13/2009	1330	8051 (3)
TSS	9	mg/l	Heath Brown	04/13/2009	1405	160.2 (1)

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PERC ENGINEERING CO., INC.
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Jasper, Alabama 35502
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Sample Number : 121536
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 04/23/2009
Sampled By : dcm
Time Taken : 0910
Depth or Flow : 4.372cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/28/2009	0800	305.1 (1)
Alkalinity	58	mg/l	Heath Brown	04/28/2009	1050	310.1 (1)
Conductivity	283	umhos	Danny C. Mays	04/23/2009	0910	120.1 (1)
Iron	0.38	mg/l	Allen Bailey	05/05/2009	1355	236.1 (1)
Manganese	0.15	mg/l	Allen Bailey	05/05/2009	1556	243.1 (1)
pH	7.31	s.u.	Danny C. Mays	04/23/2009	0910	150.1 (1)
Report			Sherri Fields	05/06/2009		
Sulfate	110	mg/l	Heath Brown	04/24/2009	0815	8051 (3)
TSS	3	mg/l	Heath Brown	04/23/2009	1655	160.2 (1)

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PERC ENGINEERING CO., INC.
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Jasper, Alabama 35502
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Sample Number : 121822
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 05/06/2009
Sampled By : dcm
Time Taken : 0932
Depth or Flow : 2.300cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	05/14/2009	0800	305.1 (1)
Alkalinity	50	mg/l	Heath Brown	05/14/2009	0900	310.1 (1)
Conductivity	291	umhos	Danny C. Mays	05/06/2009	0932	120.1 (1)
Iron	0.44	mg/l	Allen Bailey	05/07/2009	1655	236.1 (1)
Manganese	0.17	mg/l	Allen Bailey	05/08/2009	0820	243.1 (1)
pH	7.14	s.u.	Danny C. Mays	05/06/2009	0932	150.1 (1)
Report			Sherri Fields	05/14/2009		
Sulfate	140	mg/l	Heath Brown	05/11/2009	1515	8051 (3)
TSS	5	mg/l	Heath Brown	05/07/2009	1650	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 122256
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 05/21/2009
Sampled By : dcm
Time Taken : 0940
Depth or Flow : 4.653cfs
Tests to be done : pH, Fe, Mn, SO4, Acid, Alk, Cond, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	05/27/2009	0800	305.1 (1)
Alkalinity	54	mg/l	Heath Brown	05/27/2009	1000	310.1 (1)
Conductivity	296	umhos	Danny C. Mays	05/21/2009	0940	120.1 (1)
Iron	0.44	mg/l	Allen Bailey	05/27/2009	1345	236.1 (1)
Manganese	0.17	mg/l	Allen Bailey	05/27/2009	1415	243.1 (1)
pH	7.48	s.u.	Danny C. Mays	05/21/2009	0940	150.1 (1)
Report			Sherri Fields	05/29/2009		
Sulfate	130	mg/l	Heath Brown	05/28/2209	1500	8051 (3)
TSS	4	mg/l	Heath Brown	05/26/2009	1455	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 132729
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 05/27/2010
Sampled By : dcm
Time Taken : 1220
Depth or Flow : 0.785cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	58	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	376	umhos	Danny C. Mays	05/27/2010	1220	120.1 (1)
Iron	0.25	mg/l	Allen Bailey	06/07/2010	1455	236.1 (1)
Manganese	0.06	mg/l	Allen Bailey	06/07/2010	1600	243.1 (1)
pH	7.70	s.u.	Danny C. Mays	05/27/2010	1220	150.1 (1)
Report			Sherri Fields	07/08/2010		
Sulfate	140	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	5	mg/l	Heath Brown	06/02/2010	1045	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 133007
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 06/07/2010
Sampled By : dcm
Time Taken : 1000
Depth or Flow : 0.973cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	54	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	339	umhos	Danny C. Mays	06/07/2010	1000	120.1 (1)
Iron	0.26	mg/l	Allen Bailey	06/18/2010	1335	236.1 (1)
Manganese	0.11	mg/l	Allen Bailey	06/18/2010	1440	243.1 (1)
pH	7.56	s.u.	Danny C. Mays	06/07/2010	1000	150.1 (1)
Report			Sherri Fields	08/02/2010		
Sulfate	130	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	<1	mg/l	Heath Brown	06/14/2010	1540	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 133994
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 07/13/2010
Sampled By : dcm
Time Taken : 1230
Depth or Flow : 0.135cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	10	mg/l	Heath Brown	07/16/2010	0810	305.1 (1)
Alkalinity	106	mg/l	Heath Brown	07/16/2010	1015	310.1 (1)
Conductivity	787	umhos	Danny C. Mays	07/13/2010	1230	120.1 (1)
Iron	0.06	mg/l	Allen Bailey	07/20/2010	1425	236.1 (1)
Manganese	0.02	mg/l	Allen Bailey	07/20/2010	1515	243.1 (1)
pH	7.87	s.u.	Danny C. Mays	07/13/2010	1230	150.1 (1)
Report			Sherri Fields	08/03/2010		
Sulfate	110	mg/l	Heath Brown	07/16/2010	1440	8051 (3)
TSS	1	mg/l	Heath Brown	07/14/2010	1025	160.2 (1)

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Jasper, Alabama 35502
(205) 384-5553

Sample Number : 135460
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW5
Code : s
Date Taken : 08/31/2010
Sampled By : dcm
Time Taken : 1035
Depth or Flow : 0.088cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	09/10/2010	0800	305.1 (1)
Alkalinity	60	mg/l	Heath Brown	09/10/2010	0950	310.1 (1)
Conductivity	420	umhos	Danny C. Mays	08/31/2010	1035	120.1 (1)
Iron	0.14	mg/l	Allen Bailey	09/09/2010	0830	236.1 (1)
Manganese	0.03	mg/l	Allen Bailey	09/09/2010	0935	243.1 (1)
pH	7.70	s.u.	Danny C. Mays	08/31/2010	1035	150.1 (1)
Report			Sherri Fields	09/16/2010		
Sulfate	120	mg/l	Heath Brown	09/13/2010	0915	8051 (3)
TSS	1	mg/l	Heath Brown	09/07/2010	1540	160.2 (1)

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Warrior 282, LLC.
Warrior Mine
Surface Water Analysis for
W282WSW6

	Flow	Cond	Fe	Mn	TSS	pH	SO4	Acidity	Alk
1/30/2009	0.82	285.00	0.20	0.08	2.00	7.17	43.00	8.00	102.00
2/11/2009	0.18	334.00	0.21	0.07	1.00	8.00	38.00	8.00	110.00
2/24/2009	0.09	303.00	0.13	0.05	1.00	8.01	41.00	6.00	104.00
3/12/2009	0.14	269.00	0.18	0.06	1.00	7.65	44.00	6.00	102.00
3/30/2009	0.65	205.00	0.32	0.04	1.00	7.30	34.00	6.00	116.00
4/10/2009	0.33	232.00	0.35	0.05	8.00	7.40	43.00	6.00	108.00
4/23/2009	0.23	223.00	0.22	0.07	3.00	7.30	31.00	6.00	112.00
5/6/2009	0.19	262.00	0.25	0.06	0.50	7.43	37.00	8.00	104.00
5/21/2009	0.26	248.00	0.27	0.05	2.00	7.61	32.00	8.00	110.00
5/27/2010	0.05	307.00	0.25	0.04	2.00	7.46	37.00	8.00	108.00
6/4/2010	0.07	295.00	0.35	0.06	1.00	7.82	33.00	10.00	112.00
7/13/2010	dry								
8/31/2010	0.02	467.00	0.23	0.05	6.00	7.75	34.00	6.00	114.00

PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 119187
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 01/30/2009
Sampled By : swr
Time Taken : 1605
Depth or Flow : 0.823cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	02/06/2009	0800	305.1 (1)
Alkalinity	102	mg/l	Heath Brown	02/06/2009	1010	310.1 (1)
Conductivity	285	umhos	Steve Riddlesperger	01/30/2009	1605	120.1 (1)
Iron	0.20	mg/l	Ryan H. Clement	02/12/2009	1438	236.1 (1)
Manganese	0.08	mg/l	Ryan H. Clement	02/12/2009	1550	243.1 (1)
pH	7.17	s.u.	Steve Riddlesperger	01/30/2009	1605	150.1 (1)
Report			Sherri Fields	02/11/2009		
Sulfate	43	mg/l	Heath Brown	02/03/2009	0830	8051 (3)
TSS	2	mg/l	Heath Brown	02/02/2009	1640	160.2 (1)

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(205) 384-5553

Sample Number : 119532
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 02/11/2009
Sampled By : dcm
Time Taken : 1210
Depth or Flow : 0.181cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	02/13/2009	0900	305.1 (1)
Alkalinity	110	mg/l	Heath Brown	02/13/2009	1050	310.1 (1)
Conductivity	334	umhos	Heath Brown	02/13/2009	0800	120.1 (1)
Iron	0.21	mg/l	Mark Williams	02/17/2009	1504	236.1 (1)
Manganese	0.07	mg/l	Mark Williams	02/17/2009	1613	243.1 (1)
pH	8.00	s.u.	Danny C. Mays	02/11/2009	1210	150.1 (1)
Report			Sherri Fields	02/17/2009		
Sulfate	38	mg/l	Heath Brown	02/13/2009	1500	8051 (3)
TSS	1	mg/l	Heath Brown	02/12/2009	1040	160.2 (1)

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Jasper, Alabama 35502
(205) 384-5553

Sample Number : 119814
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 02/24/2009
Sampled By : dcm
Time Taken : 1236
Depth or Flow : 0.091cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	02/26/2009	1600	305.1 (1)
Alkalinity	104	mg/l	Heath Brown	02/26/2009	1630	310.1 (1)
Conductivity	303	umhos	Heath Brown	02/26/2009	1500	120.1 (1)
Iron	0.13	mg/l	Mark Williams	02/26/2009	1449	236.1 (1)
Manganese	0.05	mg/l	Mark Williams	02/26/2009	1505	243.1 (1)
pH	8.01	s.u.	Danny C. Mays	02/24/2009	1236	150.1 (1)
Report			Sherri Fields	02/26/2009		
Sulfate	41	mg/l	Heath Brown	02/26/2009	1530	8051 (3)
TSS	1	mg/l	Heath Brown	02/25/2009	0925	160.2 (1)

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(205) 384-5553

Sample Number : 120347
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 03/12/2009
Sampled By : dcm
Time Taken : 1350
Depth or Flow : 0.142cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	03/19/2009	1500	305.1 (1)
Alkalinity	102	mg/l	Heath Brown	03/19/2009	1600	310.1 (1)
Conductivity	269	umhos	Danny C. Mays	03/12/2009	1350	120.1 (1)
Iron	0.18	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
Manganese	0.06	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
pH	7.65	s.u.	Danny C. Mays	03/12/2009	1350	150.1 (1)
Report			Sherri Fields	03/27/2009		
Sulfate	44	mg/l	Heath Brown	03/20/2009	0745	8051 (3)
TSS	1	mg/l	Heath Brown	03/16/2009	1405	160.2 (1)

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Jasper, Alabama 35502
(205) 384-5553

Sample Number : 120781
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 03/30/2009
Sampled By : dcm
Time Taken : 1248
Depth or Flow : 0.652cfs
Tests to be done : pH, TSS, Fe, Mn, Cond, SO4, Acid, Report, Alk,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	116	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	205	umhos	Danny C. Mays	03/30/2009	1248	120.1 (1)
Iron	0.32	mg/l	Ryan H. Clement	04/17/2009	1606	236.1 (1)
Manganese	0.04	mg/l	Mark Williams	04/28/2009	1145	243.1 (1)
pH	7.30	s.u.	Danny C. Mays	03/30/2009	1248	150.1 (1)
Report			Sherri Fields	04/28/2009		
Sulfate	34	mg/l	Heath Brown	04/06/2009	1615	8051 (3)
TSS	1	mg/l	Heath Brown	03/31/2009	1605	160.2 (1)

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PERC ENGINEERING CO., INC.
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Jasper, Alabama 35502
(205) 384-5553

Sample Number : 121141
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 04/10/2009
Sampled By : dcm
Time Taken : 1100
Depth or Flow : 0.327cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, TSS, Report,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	108	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	232	umhos	Danny C. Mays	04/10/2009	1100	120.1 (1)
Iron	0.35	mg/l	Ryan H. Clement	04/19/2009	1902	236.1 (1)
Manganese	0.05	mg/l	Ryan H. Clement	04/20/2009	0723	243.1 (1)
pH	7.40	s.u.	Danny C. Mays	04/10/2009	1100	150.1 (1)
Report			Sherri Fields	04/21/2009		
Sulfate	43	mg/l	Heath Brown	04/13/2009	1330	8051 (3)
TSS	8	mg/l	Heath Brown	04/13/2009	1405	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 121537
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 04/23/2009
Sampled By : dcm
Time Taken : 1330
Depth or Flow : 0.234cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	04/28/2009	0800	305.1 (1)
Alkalinity	112	mg/l	Heath Brown	04/28/2009	1050	310.1 (1)
Conductivity	223	umhos	Danny C. Mays	04/23/2009	1330	120.1 (1)
Iron	0.22	mg/l	Allen Bailey	05/05/2009	1355	236.1 (1)
Manganese	0.07	mg/l	Allen Bailey	05/05/2009	1556	243.1 (1)
pH	7.30	s.u.	Danny C. Mays	04/23/2009	1330	150.1 (1)
Report			Sherri Fields	05/06/2009		
Sulfate	31	mg/l	Heath Brown	04/24/2009	0815	8051 (3)
TSS	3	mg/l	Heath Brown	04/23/2009	1655	160.2 (1)

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P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 121823
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 05/06/2009
Sampled By : dcm
Time Taken : 1105
Depth or Flow : 0.190cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	05/14/2009	0800	305.1 (1)
Alkalinity	104	mg/l	Heath Brown	05/14/2009	0900	310.1 (1)
Conductivity	262	umhos	Danny C. Mays	05/06/2009	1105	120.1 (1)
Iron	0.25	mg/l	Allen Bailey	05/07/2009	1655	236.1 (1)
Manganese	0.06	mg/l	Allen Bailey	05/08/2009	0820	243.1 (1)
pH	7.43	s.u.	Danny C. Mays	05/06/2009	1105	150.1 (1)
Report			Sherri Fields	05/14/2009		
Sulfate	37	mg/l	Heath Brown	05/11/2009	1515	8051 (3)
TSS	<1	mg/l	Heath Brown	05/07/2009	1650	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 122257
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 05/21/2009
Sampled By : dcm
Time Taken : 1244
Depth or Flow : 0.255cfs
Tests to be done : pH, Fe, Mn, SO4, Acid, Alk, Cond, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	05/27/2009	0800	305.1 (1)
Alkalinity	110	mg/l	Heath Brown	05/27/2009	1000	310.1 (1)
Conductivity	248	umhos	Danny C. Mays	05/21/2009	1244	120.1 (1)
Iron	0.27	mg/l	Allen Bailey	05/27/2009	1345	236.1 (1)
Manganese	0.05	mg/l	Allen Bailey	05/27/2009	1415	243.1 (1)
pH	7.61	s.u.	Danny C. Mays	05/21/2009	1244	150.1 (1)
Report			Sherri Fields	05/29/2009		
Sulfate	32	mg/l	Heath Brown	05/28/2209	1500	8051 (3)
TSS	2	mg/l	Heath Brown	05/26/2009	1455	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 132730
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 05/27/2010
Sampled By : dcm
Time Taken : 1510
Depth or Flow : 0.045cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	108	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	307	umhos	Danny C. Mays	05/27/2010	1510	120.1 (1)
Iron	0.25	mg/l	Allen Bailey	06/07/2010	1455	236.1 (1)
Manganese	0.04	mg/l	Allen Bailey	06/07/2010	1600	243.1 (1)
pH	7.46	s.u.	Danny C. Mays	05/27/2010	1510	150.1 (1)
Report			Sherri Fields	07/08/2010		
Sulfate	37	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	2	mg/l	Heath Brown	06/02/2010	1045	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 132930
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 06/04/2010
Sampled By : dcm
Time Taken : 1013
Depth or Flow : 0.071cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	10	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	112	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	295	umhos	Danny C. Mays	06/04/2010	1013	120.1 (1)
Iron	0.35	mg/l	Allen Bailey	06/07/2010	1455	236.1 (1)
Manganese	0.06	mg/l	Allen Bailey	06/07/2010	1600	243.1 (1)
pH	7.82	s.u.	Danny C. Mays	06/04/2010	1013	150.1 (1)
Report			Sherri Fields	08/02/2010		
Sulfate	33	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	1	mg/l	Mark Williams	06/08/2010	0933	160.2 (1)

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 133997
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 07/13/2010
Sampled By : dcm
Time Taken :
Depth or Flow : Dry
Tests to be done : Report,

Parameter	Result	Units	Analyst	Date	Time	Method
Report			Sherri Fields	08/03/2010		

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PERC ENGINEERING CO., INC.
P.O. Box 1712
Jasper, Alabama 35502
(205) 384-5553

Sample Number : 135461
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW6
Code : s
Date Taken : 08/31/2010
Sampled By : dcm
Time Taken : 1330
Depth or Flow : 0.022cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	09/10/2010	0800	305.1 (1)
Alkalinity	114	mg/l	Heath Brown	09/10/2010	0950	310.1 (1)
Conductivity	467	umhos	Danny C. Mays	08/31/2010	1330	120.1 (1)
Iron	0.23	mg/l	Allen Bailey	09/09/2010	0830	236.1 (1)
Manganese	0.05	mg/l	Allen Bailey	09/09/2010	0935	243.1 (1)
pH	7.75	s.u.	Danny C. Mays	08/31/2010	1330	150.1 (1)
Report			Sherri Fields	09/16/2010		
Sulfate	34	mg/l	Heath Brown	09/13/2010	0915	8051 (3)
TSS	6	mg/l	Heath Brown	09/07/2010	1540	160.2 (1)

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Warrior 282, LLC.
Warrior Mine
Surface Water Analysis for
W282WSW7

	Flow	Cond	Fe	Mn	TSS	pH	SO4	Acidity	Alk
1/30/2009	0.69	198.00	0.27	0.04	1.00	7.52	74.00	6.00	24.00
2/10/2009	0.24	186.00	0.26	0.06	2.00	7.34	81.00	6.00	32.00
2/24/2009	0.14	191.00	0.18	0.04	4.00	7.30	70.00	8.00	38.00
3/12/2009	0.29	209.00	0.15	0.06	1.00	7.34	75.00	6.00	28.00
3/30/2009	1.87	199.00	0.37	0.07	2.00	6.96	77.00	8.00	42.00
4/10/2009	0.73	179.00	5.34	0.11	97.00	7.04	76.00	8.00	36.00
4/23/2009	1.19	169.00	0.28	0.11	0.50	6.41	67.00	8.00	44.00
5/6/2009	0.71	163.00	0.43	0.12	4.00	6.71	80.00	6.00	30.00
5/21/2009	1.25	214.00	0.27	0.21	5.00	7.37	79.00	6.00	34.00
5/27/2010	0.27	322.00	0.12	0.11	3.00	6.88	74.00	10.00	38.00
6/7/2010	0.13	206.00	0.28	0.14	3.00	6.87	71.00	10.00	34.00
7/13/2010	dry								
8/31/2010	0.00	256.00	0.18	0.35	1.00	7.27	79.00	14.00	46.00

PERC ENGINEERING CO., INC.
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Sample Number : 119185
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 01/30/2009
Sampled By : swr
Time Taken : 1435
Depth or Flow : 0.694cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	02/06/2009	0800	305.1 (1)
Alkalinity	24	mg/l	Heath Brown	02/06/2009	1010	310.1 (1)
Conductivity	198	umhos	Steve Riddlesperger	01/30/2009	1435	120.1 (1)
Iron	0.27	mg/l	Ryan H. Clement	02/12/2009	1438	236.1 (1)
Manganese	0.04	mg/l	Ryan H. Clement	02/12/2009	1550	243.1 (1)
pH	7.52	s.u.	Steve Riddlesperger	01/30/2009	1435	150.1 (1)
Report			Sherri Fields	02/11/2009		
Sulfate	74	mg/l	Heath Brown	02/03/2009	0830	8051 (3)
TSS	1	mg/l	Heath Brown	02/02/2009	1640	160.2 (1)

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Sample Number : 119533
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 02/10/2009
Sampled By : dcm
Time Taken : 1230
Depth or Flow : 0.241cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	02/13/2009	0900	305.1 (1)
Alkalinity	32	mg/l	Heath Brown	02/13/2009	1050	310.1 (1)
Conductivity	186	umhos	Heath Brown	02/13/2009	0800	120.1 (1)
Iron	0.26	mg/l	Mark Williams	02/17/2009	1504	236.1 (1)
Manganese	0.06	mg/l	Mark Williams	02/17/2009	1613	243.1 (1)
pH	7.34	s.u.	Danny C. Mays	02/10/2009	1230	150.1 (1)
Report			Sherri Fields	02/17/2009		
Sulfate	81	mg/l	Heath Brown	02/13/2009	1500	8051 (3)
TSS	2	mg/l	Heath Brown	02/12/2009	1040	160.2 (1)

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Sample Number : 119815
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 02/24/2009
Sampled By : dcm
Time Taken : 1155
Depth or Flow : 0.137cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	02/26/2009	1600	305.1 (1)
Alkalinity	38	mg/l	Heath Brown	02/26/2009	1630	310.1 (1)
Conductivity	191	umhos	Heath Brown	02/26/2009	1500	120.1 (1)
Iron	0.18	mg/l	Mark Williams	02/26/2009	1449	236.1 (1)
Manganese	0.04	mg/l	Mark Williams	02/26/2009	1505	243.1 (1)
pH	7.30	s.u.	Danny C. Mays	02/24/2009	1155	150.1 (1)
Report			Sherri Fields	02/26/2009		
Sulfate	70	mg/l	Heath Brown	02/26/2009	1530	8051 (3)
TSS	4	mg/l	Heath Brown	02/25/2009	0925	160.2 (1)

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Sample Number : 120348
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 03/12/2009
Sampled By : dcm
Time Taken : 1500
Depth or Flow : 0.288cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	03/19/2009	1500	305.1 (1)
Alkalinity	28	mg/l	Heath Brown	03/19/2009	1600	310.1 (1)
Conductivity	209	umhos	Danny C. Mays	03/12/2009	1500	120.1 (1)
Iron	0.15	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
Manganese	0.06	mg/l	Guardian Systems	03/26/2009	1000	200.7 (1)
pH	7.34	s.u.	Danny C. Mays	03/12/2009	1500	150.1 (1)
Report			Sherri Fields	03/27/2009		
Sulfate	75	mg/l	Heath Brown	03/20/2009	0745	8051 (3)
TSS	1	mg/l	Heath Brown	03/16/2009	1405	160.2 (1)

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Sample Number : 120782
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 03/30/2009
Sampled By : dcm
Time Taken : 1143
Depth or Flow : 1.870cfs
Tests to be done : pH, TSS, Fe, Mn, Cond, SO4, Acid, Report, Alk,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	42	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	199	umhos	Danny C. Mays	03/30/2009	1143	120.1 (1)
Iron	0.37	mg/l	Ryan H. Clement	04/17/2009	1606	236.1 (1)
Manganese	0.07	mg/l	Mark Williams	04/28/2009	1145	243.1 (1)
pH	6.96	s.u.	Danny C. Mays	03/30/2009	1143	150.1 (1)
Report			Sherri Fields	04/28/2009		
Sulfate	77	mg/l	Heath Brown	04/06/2009	1615	8051 (3)
TSS	2	mg/l	Heath Brown	03/31/2009	1605	160.2 (1)

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Sample Number : 121142
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 04/10/2009
Sampled By : dcm
Time Taken : 1148
Depth or Flow : 0.725cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, TSS, Report,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	04/13/2009	0800	305.1 (1)
Alkalinity	36	mg/l	Heath Brown	04/13/2009	1045	310.1 (1)
Conductivity	179	umhos	Danny C. Mays	04/10/2009	1148	120.1 (1)
Iron	5.34	mg/l	Ryan H. Clement	04/19/2009	1902	236.1 (1)
Manganese	0.11	mg/l	Ryan H. Clement	04/20/2009	0723	243.1 (1)
pH	7.04	s.u.	Danny C. Mays	04/10/2009	1148	150.1 (1)
Report			Sherri Fields	04/21/2009		
Sulfate	76	mg/l	Heath Brown	04/13/2009	1330	8051 (3)
TSS	97	mg/l	Heath Brown	04/13/2009	1405	160.2 (1)

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Sample Number : 121538
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 04/23/2009
Sampled By : dcm
Time Taken : 0955
Depth or Flow : 1.187cfs
Tests to be done : pH, Fe, Mn, SO4, Cond, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	8	mg/l	Heath Brown	04/28/2009	0800	305.1 (1)
Alkalinity	44	mg/l	Heath Brown	04/28/2009	1050	310.1 (1)
Conductivity	169	umhos	Danny C. Mays	04/23/2009	0955	120.1 (1)
Iron	0.28	mg/l	Allen Bailey	05/05/2009	1355	236.1 (1)
Manganese	0.11	mg/l	Allen Bailey	05/05/2009	1556	243.1 (1)
pH	6.41	s.u.	Danny C. Mays	04/23/2009	0955	150.1 (1)
Report			Sherri Fields	05/06/2009		
Sulfate	67	mg/l	Heath Brown	04/24/2009	0815	8051 (3)
TSS	<1	mg/l	Heath Brown	04/23/2009	1655	160.2 (1)

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Sample Number : 121824
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 05/06/2009
Sampled By : dcm
Time Taken : 1220
Depth or Flow : 0.705cfs
Tests to be done : pH, Cond, Fe, Mn, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	05/14/2009	0800	305.1 (1)
Alkalinity	30	mg/l	Heath Brown	05/14/2009	0900	310.1 (1)
Conductivity	163	umhos	Danny C. Mays	05/06/2009	1220	120.1 (1)
Iron	0.43	mg/l	Allen Bailey	05/07/2009	1655	236.1 (1)
Manganese	0.12	mg/l	Allen Bailey	05/08/2009	0820	243.1 (1)
pH	6.71	s.u.	Danny C. Mays	05/06/2009	1220	150.1 (1)
Report			Sherri Fields	05/14/2009		
Sulfate	80	mg/l	Heath Brown	05/11/2009	1515	8051 (3)
TSS	4	mg/l	Heath Brown	05/07/2009	1650	160.2 (1)

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(205) 384-5553

Sample Number : 122258
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 05/21/2009
Sampled By : dcm
Time Taken : 1045
Depth or Flow : 1.245cfs
Tests to be done : pH, Fe, Mn, SO4, Acid, Alk, Cond, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	6	mg/l	Heath Brown	05/27/2009	0800	305.1 (1)
Alkalinity	34	mg/l	Heath Brown	05/27/2009	1000	310.1 (1)
Conductivity	214	umhos	Danny C. Mays	05/21/2009	1045	120.1 (1)
Iron	0.27	mg/l	Allen Bailey	06/01/2009	1215	236.1 (1)
Manganese	0.21	mg/l	Allen Bailey	06/01/2009	1240	243.1 (1)
pH	7.37	s.u.	Danny C. Mays	05/21/2009	1045	150.1 (1)
Report			Sherri Fields	06/02/2009		
Sulfate	79	mg/l	Heath Brown	05/28/2209	1500	8051 (3)
TSS	5	mg/l	Heath Brown	05/26/2009	1600	160.2 (1)

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Sample Number : 132731
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 05/27/2010
Sampled By : dcm
Time Taken : 1315
Depth or Flow : 0.273cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	10	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	38	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	322	umhos	Danny C. Mays	05/27/2010	1315	120.1 (1)
Iron	0.12	mg/l	Allen Bailey	06/07/2010	1455	236.1 (1)
Manganese	0.11	mg/l	Allen Bailey	06/07/2010	1600	243.1 (1)
pH	6.88	s.u.	Danny C. Mays	05/27/2010	1315	150.1 (1)
Report			Sherri Fields	07/08/2010		
Sulfate	74	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	3	mg/l	Heath Brown	06/02/2010	1045	160.2 (1)

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Sample Number : 133008
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 06/07/2010
Sampled By : dcm
Time Taken : 1200
Depth or Flow : 0.129cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	10	mg/l	Heath Brown	06/15/2010	0800	305.1 (1)
Alkalinity	34	mg/l	Heath Brown	06/15/2010	1010	310.1 (1)
Conductivity	206	umhos	Danny C. Mays	06/07/2010	1200	120.1 (1)
Iron	0.28	mg/l	Allen Bailey	06/18/2010	1335	236.1 (1)
Manganese	0.14	mg/l	Allen Bailey	06/18/2010	1440	243.1 (1)
pH	6.87	s.u.	Danny C. Mays	06/07/2010	1200	150.1 (1)
Report			Sherri Fields	08/02/2010		
Sulfate	71	mg/l	Heath Brown	06/15/2010	1350	8051 (3)
TSS	3	mg/l	Heath Brown	06/14/2010	1540	160.2 (1)

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Sample Number : 133998
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 07/13/2010
Sampled By : dcm
Time Taken :
Depth or Flow : Dry
Tests to be done : Report,

Parameter	Result	Units	Analyst	Date	Time	Method
Report			Sherri Fields	08/03/2010		

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Sample Number : 135462
Client : Warrior 282 LLC
Facility : Warrior Mine
Job Number :
NPDES Permit # :
Basin,Stream,Well ID: W282WSW7
Code : s
Date Taken : 08/31/2010
Sampled By : dcm
Time Taken : 1155
Depth or Flow : 0.003cfs
Tests to be done : pH, Fe, Mn, Cond, SO4, Acid, Alk, Report, TSS,

Parameter	Result	Units	Analyst	Date	Time	Method
Acidity	14	mg/l	Heath Brown	09/10/2010	0800	305.1 (1)
Alkalinity	46	mg/l	Heath Brown	09/10/2010	0950	310.1 (1)
Conductivity	256	umhos	Danny C. Mays	08/31/2010	1155	120.1 (1)
Iron	0.18	mg/l	Allen Bailey	09/09/2010	0830	236.1 (1)
Manganese	0.35	mg/l	Allen Bailey	09/09/2010	0935	243.1 (1)
pH	7.27	s.u.	Danny C. Mays	08/31/2010	1155	150.1 (1)
Report			Sherri Fields	09/16/2010		
Sulfate	79	mg/l	Heath Brown	09/13/2010	0915	8051 (3)
TSS	1	mg/l	Heath Brown	09/07/2010	1540	160.2 (1)

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