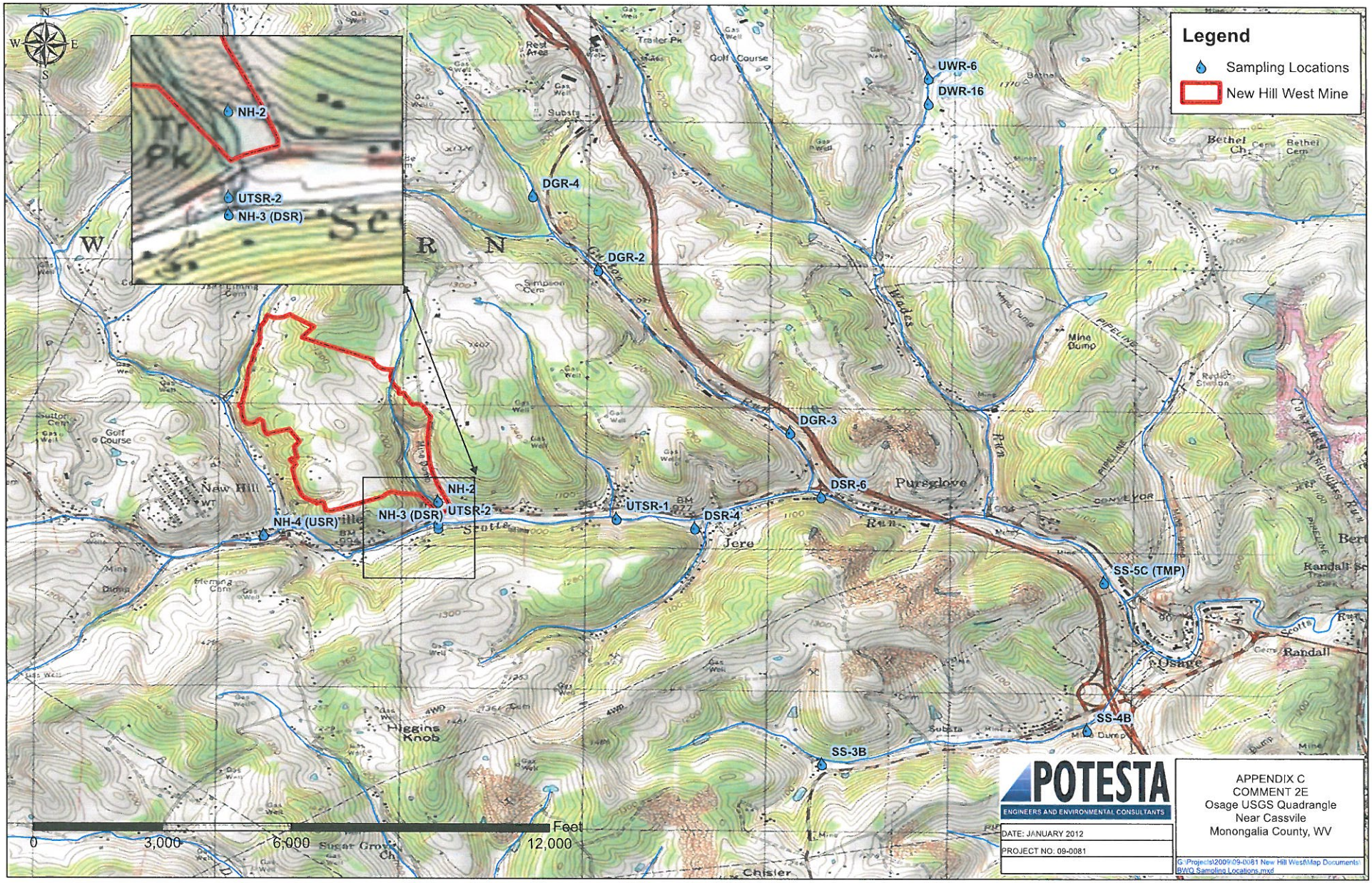
Legend
Sampling Locations
New Hill West Mine
NH-2
UTSR-2
NH-3 (DSR)
NH-4 (USR)
UTSR-1
DSR-4
DSR-6
DGR-2
DGR-3
DGR-4
UWR-6
DWR-16
SS-5C (TMP)
SS-4B
SS-3B
Feet
0
3,000
6,000
12,000
POTESTA
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
DATE: JANUARY 2012
PROJECT NO. 09-0081
APPENDIX C
COMMENT 2E
Osage USGS Quadrangle
Near Cassvile
Monongalia County, WV
G:\Projects\2009\09-0081 New Hill West\Map Documents\BWQ Sampling Locations.mxd

Standard Laboratories, Inc.

Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-4B Art. #3 Surface Water Monitori
Outlet Name: ART #3 (DUTSR-4)
State Permit #: WV0098264
DOE Permit/Article: S-1004-95, S-1005-00
Laboratory #: 000-00102

Elevation (ft): 880.00
Latitude: 39 39'12"
Longitude: 80 00'43"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/05/2011
Date Received: 01/07/2011
Date Completed: 01/18/2011
Time Sampled: 11:30:00
Report Date: 04/22/2011 10:02AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		4.9	Degree C	SM 2550 B			DS	1/05/2011	11:30:00	
58	Flow (Outlet)		1.640	CFS	EPA 170.1			DS	1/05/2011	11:30:00	
95	Conductance, Specific		1909.0	UMHO/CM	SM-2510 B	4.8		KF	1/13/2011	11:35:00	
400	Field pH		8.00	Std. Unit	SM-4500 B	1.00		DS	1/05/2011	11:30:00	
403	pH, Lab		8.11	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/12/2011	14:30:00	
410	Alkalinity, Total (As CACO3		191.00	mg/l	SM-2320 B	2.00		TE	1/12/2011	14:30:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/12/2011	14:55:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/13/2011	09:40:00	None Detected at the reporting level (MDL)
1045	Iron, Total		0.048	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	16:00:00	
1055	Manganese, Total (Mn)		1.141	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.319	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/18/2011	16:00:00	
70296	Solids,Total Dissolved		1488	mg/l	SM-2540C	10		KF	1/13/2011	09:15:00	

MDL: Method Detection Limit is reported in the same unit as result

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Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-4B Art. #3 Surface Water Monitori
Outlet Name: ART #3 (DUTSR-4)
State Permit #: WV0098264
DOE Permit/Article: S-1004-95, S-1005-00
Laboratory #: 000-01007

Elevation (ft): 880.00
Latitude: 39 39'12"
Longitude: 80 00'43"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/02/2011
Date Received: 04/06/2011
Date Completed: 04/15/2011
Time Sampled: 09:04:00
Report Date: 07/22/2011 1:27PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		6.9	Degree C	SM 2550 B			DS	4/02/2011	09:04:00	
58	Flow (Outlet)		3.29	CFS	EPA 170.1			DS	4/02/2011	09:04:00	
95	Conductance, Specific		2160.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/15/2011	12:00:00	
400	Field pH		7.86	Std. Unit	SM-4500 B			DS	4/02/2011	09:04:00	
403	pH, Lab		7.98	Std. Unit	SM 4500-H+ B	0.04		TE	4/14/2011	11:00:00	
410	Alkalinity, Total (As CACO3		153	mg/l	SM-2320 B	2		TE	4/14/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/14/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		5.00	mg/l	SM-2540 D	2.00		KF	4/15/2011	12:00:00	
1045	Iron, Total		0.083	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
1055	Manganese, Total (Mn)		3.131	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
1105	Aluminum, Total (As AL)		0.623	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/15/2011	16:30:00	
70296	Solids,Total Dissolved		1708	mg/l	SM-2540C	13		KF	4/15/2011	11:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-3B Art. #3 Surface Water Monitori
Outlet Name: Art. #3 (SS-3) S-1004-95 (UUTSR-3)
State Permit #: WV0098264
DOE Permit/Article: S-1004-95
Laboratory #: 000-00114

Elevation (ft): 1,012.00
Latitude: 39 39'04"
Longitude: 80 01'44"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/05/2011
Date Received: 01/07/2011
Date Completed: 01/18/2011
Time Sampled: 12:16:00
Report Date: 04/22/2011 10:02AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		5.5	Degree C	SM 2550 B			DS	1/05/2011	12:16:00	
61	Stream Flow - Instantaneou:		1.427	CFS				FIE	1/05/2011	12:16:00	
95	Conductance, Specific		2210.0	UMHO/CM	SM-2510 B	4.8		KF	1/13/2011	11:35:00	
400	Field pH		7.66	Std. Unit	SM-4500 B	1.00		DS	1/05/2011	12:16:00	
403	pH, Lab		8.15	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/12/2011	14:30:00	
410	Alkalinity, Total (As CACO3		224.00	mg/l	SM-2320 B	2.00		TE	1/12/2011	14:30:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/12/2011	14:55:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/13/2011	09:40:00	None Detected at the reporting level (MDL)
1045	Iron, Total		0.014	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	16:00:00	
1055	Manganese, Total (Mn)		0.909	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	16:00:00	
70296	Solids,Total Dissolved		1748	mg/l	SM-2540C	10		KF	1/13/2011	09:15:00	

MDL: Method Detection Limit is reported in the same unit as result

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Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-3B Art. #3 Surface Water Monitori
Outlet Name: Art. #3 (SS-3) S-1004-95 (UUTSR-3)
State Permit #: WV0098264
DOE Permit/Article: S-1004-95
Laboratory #: 000-01019

Elevation (ft): 1,012.00
Latitude: 39 39'04"
Longitude: 80 01'44"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/02/2011
Date Received: 04/06/2011
Date Completed: 04/15/2011
Time Sampled: 09:26:00
Report Date: 07/22/2011 1:27PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		8.6	Degree C	SM 2550 B			DS	4/02/2011	09:26:00	
61	Stream Flow - Instantaneou:		4.826	CFS				FIE	4/02/2011	09:26:00	
95	Conductance, Specific		2430.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/15/2011	12:00:00	
400	Field pH		7.64	Std. Unit	SM-4500 B			DS	4/02/2011	09:26:00	
403	pH, Lab		7.97	Std. Unit	SM 4500-H+ B	0.04		TE	4/14/2011	11:00:00	
410	Alkalinity, Total (As CACO3		162	mg/l	SM-2320 B	2		TE	4/14/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/14/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		13.00	mg/l	SM-2540 D	2.00		KF	4/15/2011	12:00:00	
1045	Iron, Total		0.286	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
1055	Manganese, Total (Mn)		4.195	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
70296	Solids,Total Dissolved		1284	mg/l	SM-2540C	13		KF	4/15/2011	11:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: SS-5C (TMP) Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00025

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 09:58:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	1/03/2011	09:58:00	
61	Stream Flow - Instantaneou:		19.940	CFS				FIE	1/03/2011	09:58:00	
95	Conductance, Specific		753.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.20	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	09:58:00	
403	pH, Lab		8.31	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		105.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		240	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.222	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.194	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.166	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL		0.046	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		556	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

Standard Laboratories, Inc.

Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-5C Art. #3 Surface Water Monitori
Outlet Name: ART #3 S-1004-95
State Permit #: WV0098264
DOE Permit/Article: S-1004-95
Laboratory #: 000-00117

Elevation (ft):
Latitude: 39 39'46"
Longitude: 80 00'39"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/05/2011
Date Received: 01/07/2011
Date Completed: 01/18/2011
Time Sampled: 11:20:00
Report Date: 04/22/2011 10:02AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		3.2	Degree C	SM 2550 B			DS	1/05/2011	11:20:00	
58	Flow (Outlet)		6.171	CFS	EPA 170.1			DS	1/05/2011	11:20:00	
95	Conductance, Specific		988.0	UMHO/CM	SM-2510 B	4.8		KF	1/13/2011	11:35:00	
400	Field pH		8.15	Std. Unit	SM-4500 B	1.00		DS	1/05/2011	11:20:00	
403	pH, Lab		8.15	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/12/2011	14:30:00	
410	Alkalinity, Total (As CACO3		145.00	mg/l	SM-2320 B	2.00		TE	1/12/2011	14:30:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/12/2011	14:55:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/13/2011	09:40:00	None Detected at the reporting level (MDL)
1045	Iron, Total		0.421	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	16:00:00	
1055	Manganese, Total (Mn)		0.385	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	16:00:00	
70296	Solids,Total Dissolved		680	mg/l	SM-2540C	10		KF	1/13/2011	09:15:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Osage Complex And Scotts Run
Outlet/Site: SS-5C Art. #3 Surface Water Monitori
Outlet Name: ART #3 S-1004-95
State Permit #: WV0098264
DOE Permit/Article: S-1004-95
Laboratory #: 000-01022

Elevation (ft):
Latitude: 39 39'46"
Longitude: 80 00'39"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/02/2011
Date Received: 04/06/2011
Date Completed: 04/15/2011
Time Sampled: 08:46:00
Report Date: 07/22/2011 1:27PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		7.3	Degree C	SM 2550 B			DS	4/02/2011	08:46:00	
58	Flow (Outlet)		31.71	CFS	EPA 170.1			DS	4/02/2011	08:46:00	
95	Conductance, Specific		1240.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/15/2011	12:00:00	
400	Field pH		7.66	Std. Unit	SM-4500 B			DS	4/02/2011	08:46:00	
403	pH, Lab		8.13	Std. Unit	SM 4500-H+ B	0.04		TE	4/14/2011	11:00:00	
410	Alkalinity, Total (As CACO3		122	mg/l	SM-2320 B	2		TE	4/14/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/14/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		20.00	mg/l	SM-2540 D	2.00		KF	4/15/2011	12:00:00	
1045	Iron, Total		1.575	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
1055	Manganese, Total (Mn)		1.455	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/15/2011	16:30:00	
70296	Solids,Total Dissolved		868	mg/l	SM-2540C	13		KF	4/15/2011	11:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: SS-5C (TMP) Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00698

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:37:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name	Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature	8	Degree C	SM 2550 B			FIE	4/04/2011	08:37:00	
61	Stream Flow - Instantaneou:	4.150	CFS				FIE	4/04/2011	08:37:00	
95	Conductance, Specific	965.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH	7.90	Std. Unit	SM-4500 B			DS	4/04/2011	08:37:00	
403	pH, Lab	8.02	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3	112	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	
530	Solids, Suspened Total	7.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)	500	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total	0.759	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)	0.944	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)	0.249	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL	0.101	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved	664	mg/l	SM-2540C	13		KF	4/18/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Rt. 2, Box 88-C Whitman Run Road Belington, WV 26250
(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-4 Art. #3 Surface Water Monitori
Outlet Name: NPDES Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00014

Elevation (ft): 1,080.00
Latitude: 39 41'14"
Longitude: 80 02'50"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 10:29:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	1/03/2011	10:29:00	
61	Stream Flow - Instantaneou:		2.813	CFS				FIE	1/03/2011	10:29:00	
95	Conductance, Specific		538.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.18	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	10:29:00	
403	pH, Lab		7.93	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		72.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		150	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.228	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.280	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.139	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	None Detected at the reporting level (MDL)
70296	Solids,Total Dissolved		456	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-4 Art. #3 Surface Water Monitori
Outlet Name: NPDES Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00686

Elevation (ft): 1,080.00
Latitude: 39 41'14"
Longitude: 80 02'50"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:17:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		9	Degree C	SM 2550 B			FIE	4/04/2011	08:17:00	
61	Stream Flow - Instantaneou		8.235	CFS				FIE	4/04/2011	08:17:00	
95	Conductance, Specific		665.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.80	Std. Unit	SM-4500 B			DS	4/04/2011	08:17:00	
403	pH, Lab		7.85	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		73	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	2.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		290	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.179	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.283	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.092	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.023	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		492	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-3 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00011

Elevation (ft): 982.00
Latitude: 39 40'20"
Longitude: 80 01'51"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 10:02:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	1/03/2011	10:02:00	
61	Stream Flow - Instantaneou:		3.000	CFS				FIE	1/03/2011	10:02:00	
95	Conductance, Specific		733.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.34	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	10:02:00	
403	pH, Lab		8.26	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		111.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		230	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.190	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.111	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.139	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL		0.114	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		544	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-3 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Guston Run (Semi-Annual)
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00683

Elevation (ft): 982.00
Latitude: 39 40'20"
Longitude: 80 01'51"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/27/2011
Time Sampled: 08:38:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
900	Hardness, Total (As CACO3		406.00	mg/l	SM-2340 C	0.47		MC	4/21/2011	10:48:00	
940	Chloride (as Cl)		27.00	mg/l	HACH 8225	0.22	2	MC	4/18/2011	16:00:00	
978	Arsenic, Total Recoverable	<	0.46	ug/l	EPA 200.9 2.2 GF	0.46	5	AB	4/21/2011	09:14:00	None Detected at the reporting level (MDL)
981	Selenium, Total Recoverabl	<	0.28	ug/l	EPA 200.9 2.2 GF	0.28	5	AB	4/26/2011	09:53:00	None Detected at the reporting level (MDL)
1022	Boron, Total (As B)		0.046	mg/l	EPA 200.7 Rev. 4.4	0.004	0.5	CP	4/21/2011	10:48:00	
1027	Cadmium, Total (As Cd)		0.03	ug/l	EPA 200.9 2.2 GF	0.01	0.5	AB	4/26/2011	16:55:00	
1042	Copper, Total (As CU)	<	2.00	ug/l	EPA 200.7 Rev. 4.4	2.00	10	CP	4/21/2011	10:48:00	None Detected at the reporting level (MDL)
1051	Lead, Total (Pb)	<	0.19	ug/l	EPA 200.9 2.2 GF	0.19	5	AB	4/21/2011	17:09:00	None Detected at the reporting level (MDL)
1077	Silver, Total (Ag)		0.13	ug/l	EPA 200.9 2.2 GF	0.05	0.5	AB	4/27/2011	14:38:00	
1097	Antimony, Total (As Sb)	<	0.65	ug/l	EPA 200.9 2.2 GF	0.65	5	AB	4/27/2011	09:53:00	None Detected at the reporting level (MDL)
32730	Phenolics, Total Recoverabl		0.020	mg/l	EPA 420.1 & Hach 8	0.003	0.006	MC	4/07/2011	16:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-3 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00682

Elevation (ft): 982.00
Latitude: 39 40'20"
Longitude: 80 01'51"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:38:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		8	Degree C	SM 2550 B			FIE	4/04/2011	08:38:00	
61	Stream Flow - Instantaneou:		4.455	CFS				FIE	4/04/2011	08:38:00	
95	Conductance, Specific		886.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		8.00	Std. Unit	SM-4500 B			DS	4/04/2011	08:38:00	
403	pH, Lab		8.00	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		93	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	2.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		325	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.086	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.266	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.101	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.047	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		584	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00008

Elevation (ft): 1,055.00
Latitude: 39 40'57"
Longitude: 80 02'35"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 10:24:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	1/03/2011	10:24:00	
61	Stream Flow - Instantaneou:		2.813	CFS				FIE	1/03/2011	10:24:00	
95	Conductance, Specific		537.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.18	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	10:24:00	
403	pH, Lab		8.03	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		75.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		170	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.219	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.269	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.133	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	None Detected at the reporting level (MDL)
70296	Solids,Total Dissolved		436	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DGR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Guston Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00679

Elevation (ft): 1,055.00
Latitude: 39 40'57"
Longitude: 80 02'35"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:13:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		9	Degree C	SM 2550 B			FIE	4/04/2011	08:13:00	
61	Stream Flow - Instantaneou:		8.235	CFS				FIE	4/04/2011	08:13:00	
95	Conductance, Specific		666.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.80	Std. Unit	SM-4500 B			DS	4/04/2011	08:13:00	
403	pH, Lab		7.87	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		78	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	2.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		290	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.182	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.284	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.099	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.021	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		448	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DSR-6 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00020

Elevation (ft): 920.00
Latitude: 39 40'05"
Longitude: 80 01'44"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 09:55:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	1/03/2011	09:55:00	
61	Stream Flow - Instantaneou:		20.045	CFS				FIE	1/03/2011	09:55:00	
95	Conductance, Specific		731.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.20	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	09:55:00	
403	pH, Lab		8.06	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		86.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		260	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.199	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.191	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.164	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	None Detected at the reporting level (MDL)
70296	Solids,Total Dissolved		556	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DSR-6 Art. #3 Surface Water Monitori
Outlet Name: Art. 3 Dwnstm Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00692

Elevation (ft): 920.00
Latitude: 39 40'05"
Longitude: 80 01'44"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:34:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		8	Degree C	SM 2550 B			FIE	4/04/2011	08:34:00	
61	Stream Flow - Instantaneou:		34.650	CFS				FIE	4/04/2011	08:34:00	
95	Conductance, Specific		890.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.98	Std. Unit	SM-4500 B			DS	4/04/2011	08:34:00	
403	pH, Lab		7.99	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		100	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		5.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)		400	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.106	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:32:00	
1055	Manganese, Total (Mn)		0.302	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.121	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.050	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		596	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DSR-4 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Downstream Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00017

Elevation (ft): 940.00
Latitude: 39 39'58"
Longitude: 80 02'13"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 10:06:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		1	Degree C	SM 2550 B			FIE	1/03/2011	10:06:00	
61	Stream Flow - Instantaneou:		9.860	CFS				FIE	1/03/2011	10:06:00	
95	Conductance, Specific		783.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.22	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	10:06:00	
403	pH, Lab		8.23	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		100.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		250	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.268	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.467	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.158	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL		0.048	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		576	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: DSR-4 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Downstream Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00689

Elevation (ft): 940.00
Latitude: 39 39'58"
Longitude: 80 02'13"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 08:47:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		8	Degree C	SM 2550 B			FIE	4/04/2011	08:47:00	
61	Stream Flow - Instantaneou:		30.197	CFS				FIE	4/04/2011	08:47:00	
95	Conductance, Specific		942.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.90	Std. Unit	SM-4500 B			DS	4/04/2011	08:47:00	
403	pH, Lab		7.93	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		76	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		9.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)		525	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.607	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		1.516	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.363	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.173	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		648	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-2 Art. #3 Ground Water Monitorin
Outlet Name: Art.#3 Ground Water Monitoring
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01
Laboratory #: 000-00032

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/05/2011
Time Sampled: 11:09:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name	Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		Degree C	SM 2550 B			DS	1/03/2011	11:09:00	
58	Flow (Outlet)		GPM	EPA 170.1			DS	1/03/2011	11:09:00	No Flow
61	Stream Flow - Instantaneou:		CFS				FIE	1/05/2011		No Flow
400	Field pH		Std. Unit	SM-4500 B	1.00		DS	1/03/2011	11:09:00	
403	pH, Lab		Std. Unit	SM 4500-H+ B	1.00	4	TE	1/05/2011		
410	Alkalinity, Total (As CACO3		mg/l	SM-2320 B	2.00		TE	1/05/2011		
435	Acidity, Total (As CACO3)		mg/l	SM-2310 B	2.00		TE	1/05/2011		
530	Solids, Suspened Total		mg/l	SM-2540 D	4.00	4	KF	1/05/2011		
945	Sulfates, Total (As SO4)		mg/l	ASTM D516-90, 03	2	5	KF	1/05/2011		
1045	Iron, Total		mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/05/2011		
1055	Manganese, Total (Mn)		mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/05/2011		
1105	Aluminum, Total (As AL)		mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	KH	1/05/2011		
70296	Solids,Total Dissolved		mg/l	SM-2540C	10		KF	1/05/2011		

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-2 Art. #3 Ground Water Monitorin
Outlet Name: Art.#3 Ground Water Monitoring
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01
Laboratory #: 000-00705

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 09:58:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		8.8	Degree C	SM 2550 B			DS	4/04/2011	09:58:00	
61	Stream Flow - Instantaneou:		0.013	CFS				FIE	4/04/2011	09:58:00	
400	Field pH		6.26	Std. Unit	SM-4500 B			DS	4/04/2011	09:58:00	
403	pH, Lab		6.57	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		33	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		6.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)		1550	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		3.170	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		3.525	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.108	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		1896	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-3 (DSR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (DSR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00033

Elevation (ft): 975.00
Latitude: 39`39"58'
Longitude: 80`03"12'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 11:39:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		3.3	Degree C	SM 2550 B			DS	1/03/2011	11:39:00	
58	Flow (Outlet)		8.460	CFS	EPA 170.1			DS	1/03/2011	11:39:00	
95	Conductance, Specific		405.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.11	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	11:39:00	
403	pH, Lab		8.06	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		90.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		10.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	
1045	Iron, Total		0.227	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	15:45:00	
1055	Manganese, Total (Mn)		0.067	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.175	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
1106	Aluminum, Dissolved (As AL		0.063	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		344	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-3 (DSR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (DSR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00372

Elevation (ft): 975.00
Latitude: 39`39"58'
Longitude: 80`03"12'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 02/16/2011
Date Received: 02/18/2011
Date Completed: 03/02/2011
Time Sampled: 11:27:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		6.0	Degree C	SM 2550 B			DS	2/16/2011	11:27:00	
58	Flow (Outlet)		6.480	CFS	EPA 170.1			DS	2/16/2011	11:27:00	
95	Conductance, Specific		514.0	UMHO/CM	SM-2510 B	4.8		KF	2/25/2011	12:00:00	
400	Field pH		7.56	Std. Unit	SM-4500 B	1.00		DS	2/16/2011	11:27:00	
403	pH, Lab		7.81	Std. Unit	SM 4500-H+ B	0.04		TE	2/24/2011	14:50:00	
410	Alkalinity, Total (As CACO3		86.00	mg/l	SM-2320 B			TE	2/24/2011	14:50:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	2/24/2011	14:50:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		6.00	mg/l	SM-2540 D	4.00	4	KF	2/25/2011	09:00:00	
1045	Iron, Total		0.713	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/02/2011	09:45:00	
1055	Manganese, Total (Mn)		0.115	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/02/2011	09:45:00	
1105	Aluminum, Total (As AL)		0.387	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	3/02/2011	09:45:00	
1106	Aluminum, Dissolved (As AL		0.102	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	3/02/2011	09:45:00	
70296	Solids,Total Dissolved		384	mg/l	SM-2540C	10		KF	2/25/2011	08:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-3 (DSR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (DSR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 000-00706

Elevation (ft): 975.00
Latitude: 39`39"58'
Longitude: 80`03"12'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 10:14:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		10.8	Degree C	SM 2550 B			DS	4/04/2011	10:14:00	
58	Flow (Outlet)		16.53	CFS	EPA 170.1			DS	4/04/2011	10:14:00	
95	Conductance, Specific		453.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.60	Std. Unit	SM-4500 B			DS	4/04/2011	10:14:00	
403	pH, Lab		7.83	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		87	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	2.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	None Detected at the reporting level (MDL)
1045	Iron, Total		1.033	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.149	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.366	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.055	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		324	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

Standard Laboratories, Inc.

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-3 (DSR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (DSR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 3000-01237

Elevation (ft): 975.00
Latitude: 39`39"58'
Longitude: 80`03"12'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 05/31/2011
Date Received: 06/01/2011
Date Completed: 06/24/2011
Time Sampled: 07:35:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
	Temp. Of Field Sample		17.4	Degree C	SM 2550 B			DS	5/31/2011	07:35:00	
	Flow (Outlet)		0.72	CFS	EPA 170.1			DS	5/31/2011	07:35:00	
	Conductance, Specific		963.00	UMHO/CM	SM-2510 B	1.53	5	TE	6/07/2011	19:40:00	
	Field pH		7.36	Std. Unit	SM-4500 B			DS	5/31/2011	07:35:00	
	Alkalinity, Total (As CACO3		123	mg/l	SM-2320 B	2		TE	6/07/2011	23:15:00	
	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	6/07/2011	23:45:00	None Detected at the reporting
	Solids, Suspened Total		14.00	mg/l	SM-2540 D	2.00		KF	6/07/2011	17:15:00	
	Iron, Total		3.170	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/09/2011	14:15:00	
	Manganese, Total (Mn)		0.503	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/09/2011	14:15:00	
	Aluminum, Total (As AL)		0.135	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	6/09/2011	14:15:00	
	Solids,Total Dissolved		628	mg/l	SM-2540C	13		KF	6/07/2011	15:40:00	
	pH, Lab		7.54	Std. Unit	SM 4500-H+ B	0.04		TE	6/07/2011	22:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-3 (DSR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (DSR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01, S-2010-04, S-2010-06, S-2006-07, S200909
Laboratory #: 3000-01235

Elevation (ft): 975.00
Latitude: 39`39"58'
Longitude: 80`03"12'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 06/15/2011
Date Received: 06/16/2011
Date Completed: 07/05/2011
Time Sampled: 07:59:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
	Aluminum, Dissolved (As AL		0.003	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	7/05/2011		
	Temp. Of Field Sample		13.1	Degree C	SM 2550 B			DS	6/15/2011	07:59:00	
	Flow (Outlet)		0.22	CFS	EPA 170.1			DS	6/15/2011	07:59:00	
	Conductance, Specific		1094.00	UMHO/CM	SM-2510 B	1.53	5	TE	6/28/2011	11:00:00	
	Field pH		7.37	Std. Unit	SM-4500 B			DS	6/15/2011	07:59:00	
	Alkalinity, Total (As CACO3		119	mg/l	SM-2320 B	2		TE	6/24/2011	23:40:00	
	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	6/24/2011	23:40:00	None Detected at the reporting
	Solids, Suspened Total	<	2.00	mg/l	SM-2540 D	2.00		KF	6/29/2011	07:00:00	None Detected at the reporting
	Iron, Total		4.453	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/30/2011	09:15:00	
	Manganese, Total (Mn)		0.658	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/30/2011	09:15:00	
	Aluminum, Total (As AL)		0.065	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	6/30/2011	09:15:00	
	Solids,Total Dissolved		728	mg/l	SM-2540C	13		KF	6/29/2011	09:30:00	
	pH, Lab		8.08	Std. Unit	SM 4500-H+ B	0.04		TE	6/24/2011	23:40:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-4 (USR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (USR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01
Laboratory #: 000-00036

Elevation (ft): 1,002.00
Latitude: 39`39"57'
Longitude: 80`03"48'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/25/2011
Time Sampled: 11:44:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		2.6	Degree C	SM 2550 B			DS	1/03/2011	11:44:00	
61	Stream Flow - Instantaneou:		114.840	CFS				FIE	1/03/2011	11:44:00	
95	Conductance, Specific		353.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		7.88	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	11:44:00	
403	pH, Lab		7.66	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		45.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
900	Hardness, Total (As CACO3		188.00	mg/l	SM-2340 C	3.36		MC	1/07/2011	16:15:00	
981	Selenium, Total Recoverabl	<	0.80	mg/l	EPA 200.9 2.2 GF	0.80	5	CP	1/13/2011	09:18:00	None Detected at the reporting level (MDL)
1045	Iron, Total		0.855	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.204	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1092	Zinc, Total (Zn)		8.61	ug/l	EPA 200.7 Rev. 4.4	2.40		CP	1/25/2011	13:30:00	
1105	Aluminum, Total (As AL)		0.473	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		264	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: NH-4 (USR) Art. #3 Surface Water Monitori
Outlet Name: Art.#3 Surface Water (USR)
State Permit #: WV1017535 Field Id:
DOE Permit/Article: S-2010-01
Laboratory #: 000-00708

Elevation (ft): 1,002.00
Latitude: 39`39"57'
Longitude: 80`03"48'
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/26/2011
Time Sampled: 10:23:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		9.7	Degree C	SM 2550 B			DS	4/04/2011	10:23:00	
61	Stream Flow - Instantaneou		6.240	CFS				FIE	4/04/2011	10:23:00	
95	Conductance, Specific		320.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.45	Std. Unit	SM-4500 B			DS	4/04/2011	10:23:00	
403	pH, Lab		7.36	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		33	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		19.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
900	Hardness, Total (As CACO3		132.00	mg/l	SM-2340 C	0.47		MC	4/21/2011	10:48:00	
981	Selenium, Total Recoverabl	<	0.28	mg/l	EPA 200.9 2.2 GF	0.28	5	AB	4/26/2011	09:53:00	None Detected at the reporting level (MDL)
1045	Iron, Total		2.436	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.247	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1092	Zinc, Total (Zn)		14	ug/l	EPA 200.7 Rev. 4.4	1	10	CP	4/21/2011	10:48:00	
1105	Aluminum, Total (As AL)		1.160	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		192	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: UWR-6 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Surface Water Monitoring
State Permit #: WV0095311
DOE Permit/Article: S-0117-75
Laboratory #: 000-00029

Elevation (ft): 1,075.00
Latitude: 39 41'41"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/18/2011
Time Sampled: 08:34:00
Report Date: 04/22/2011 9:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		1.5	Degree C	SM 2550 B			DS	1/03/2011	08:34:00	
61	Stream Flow - Instantaneou:		0.623	CFS				FIE	1/03/2011	08:34:00	
95	Conductance, Specific		1605.0	UMHO/CM	SM-2510 B	4.8		KF	1/11/2011	11:40:00	
400	Field pH		7.60	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	08:34:00	
403	pH, Lab		7.97	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/11/2011	14:45:00	
410	Alkalinity, Total (As CACO3		100.00	mg/l	SM-2320 B	2.00		TE	1/11/2011	14:45:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/11/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/12/2011	10:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		600	mg/l	ASTM D516-90, 03	2	5	KF	1/11/2011	16:20:00	
1045	Iron, Total		0.094	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	08:00:00	
1055	Manganese, Total (Mn)		4.295	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	08:00:00	
1105	Aluminum, Total (As AL)		0.205	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	KH	1/18/2011	08:00:00	
70296	Solids,Total Dissolved		1216	mg/l	SM-2540C	10		KF	1/12/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: UWR-6. Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Surface Water Monitoring
State Permit #: WV0095311
DOE Permit/Article: S-0055-80
Laboratory #: 000-00032

Elevation (ft): 1,075.00
Latitude: 39 41'41"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/18/2011
Time Sampled: 08:34:00
Report Date: 04/22/2011 9:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		1.5	Degree C	SM 2550 B			DS	1/03/2011	08:34:00	
61	Stream Flow - Instantaneou:		0.623	CFS				FIE	1/03/2011	08:34:00	
95	Conductance, Specific		1605.0	UMHO/CM	SM-2510 B	4.8		KF	1/11/2011	11:40:00	
400	Field pH		7.60	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	08:34:00	
403	pH, Lab		7.97	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/11/2011	14:45:00	
410	Alkalinity, Total (As CACO3		100.00	mg/l	SM-2320 B	2.00		TE	1/11/2011	14:45:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/11/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/12/2011	10:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		600	mg/l	ASTM D516-90, 03	2	5	KF	1/11/2011	16:20:00	
1045	Iron, Total		0.094	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	08:00:00	
1055	Manganese, Total (Mn)		4.295	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	08:00:00	
1105	Aluminum, Total (As AL)		0.205	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	KH	1/18/2011	08:00:00	
70296	Solids,Total Dissolved		1216	mg/l	SM-2540C	10		KF	1/12/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: UWR-6. Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Surface Water Monitoring
State Permit #: WV0095311
DOE Permit/Article: S-0055-80
Laboratory #: 000-00981

Elevation (ft): 1,075.00
Latitude: 39 41'41"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/01/2011
Date Received: 04/02/2011
Date Completed: 04/19/2011
Time Sampled: 10:27:00
Report Date: 07/22/2011 1:18PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		7.2	Degree C	SM 2550 B			DS	4/01/2011	10:27:00	
61	Stream Flow - Instantaneou:		1.069	CFS				FIE	4/01/2011	10:27:00	
95	Conductance, Specific		1870.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:10:00	
400	Field pH		7.65	Std. Unit	SM-4500 B			DS	4/01/2011	10:27:00	
403	pH, Lab		7.83	Std. Unit	SM 4500-H+ B	0.04		TE	4/15/2011	11:00:00	
410	Alkalinity, Total (As CACO3		67	mg/l	SM-2320 B	2		TE	4/15/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/15/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		5.00	mg/l	SM-2540 D	2.00		KF	4/18/2011	10:15:00	
945	Sulfates, Total (As SO4)		1050	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:05:00	
1045	Iron, Total		0.141	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1055	Manganese, Total (Mn)		6.389	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1105	Aluminum, Total (As AL)		0.474	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	11:00:00	
70296	Solids,Total Dissolved		1496	mg/l	SM-2540C	13		KF	4/18/2011	09:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: UWR-6 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Surface Water Monitoring
State Permit #: WV0095311
DOE Permit/Article: S-0117-75
Laboratory #: 000-00980

Elevation (ft): 1,075.00
Latitude: 39 41'41"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/01/2011
Date Received: 04/02/2011
Date Completed: 04/19/2011
Time Sampled: 10:27:00
Report Date: 07/22/2011 1:18PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		7.2	Degree C	SM 2550 B			DS	4/01/2011	10:27:00	
61	Stream Flow - Instantaneou:		1.069	CFS				FIE	4/01/2011	10:27:00	
95	Conductance, Specific		1870.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/15/2011	10:10:00	
400	Field pH		7.65	Std. Unit	SM-4500 B			DS	4/01/2011	10:27:00	
403	pH, Lab		7.83	Std. Unit	SM 4500-H+ B	0.04		TE	4/15/2011	11:00:00	
410	Alkalinity, Total (As CACO3		67	mg/l	SM-2320 B	2		TE	4/15/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/15/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		5.00	mg/l	SM-2540 D	2.00		KF	4/18/2011	10:15:00	
945	Sulfates, Total (As SO4)		1050	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:05:00	
1045	Iron, Total		0.141	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1055	Manganese, Total (Mn)		6.389	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1105	Aluminum, Total (As AL)		0.474	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	11:00:00	
70296	Solids,Total Dissolved		1496	mg/l	SM-2540C	13		KF	4/18/2011	09:30:00	

MDL: Method Detection Limit is reported in the same unit as result

Standard Laboratories, Inc.

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: DWR-16 Art. #3 Surface Water Monitori
Outlet Name: NPDES DWR-16 (Previously WV1014048)
State Permit #: WV0095311
DOE Permit/Article: S-0117-75
Laboratory #: 000-00025

Elevation (ft): 1,060.00
Latitude: 39 41'35"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/18/2011
Time Sampled: 08:26:00
Report Date: 04/22/2011 9:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		1.1	Degree C	SM 2550 B			DS	1/03/2011	08:26:00	
61	Stream Flow - Instantaneou:		0.266	CFS				FIE	1/03/2011	08:26:00	
95	Conductance, Specific		1377.0	UMHO/CM	SM-2510 B	4.8		KF	1/11/2011	11:40:00	
400	Field pH		7.92	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	08:26:00	
403	pH, Lab		7.55	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/11/2011	14:45:00	
410	Alkalinity, Total (As CACO3		67.00	mg/l	SM-2320 B	2.00		TE	1/11/2011	14:45:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/11/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		6.00	mg/l	SM-2540 D	4.00	4	KF	1/12/2011	10:00:00	
945	Sulfates, Total (As SO4)		650	mg/l	ASTM D516-90, 03	2	5	KF	1/11/2011	16:20:00	
1045	Iron, Total		0.597	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	08:00:00	
1055	Manganese, Total (Mn)		2.457	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	08:00:00	
1105	Aluminum, Total (As AL)		0.163	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	KH	1/18/2011	08:00:00	
70296	Solids,Total Dissolved		1056	mg/l	SM-2540C	10		KF	1/12/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

Standard Laboratories, Inc.

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: DWR-16. Art. #3 Surface Water Monitori
Outlet Name: NPDES DWR-16 (Previously WV1014048)
State Permit #: WV0095311
DOE Permit/Article: S-0055-80
Laboratory #: 000-00026

Elevation (ft): 1,060.00
Latitude: 39 41'35"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/18/2011
Time Sampled: 08:26:00
Report Date: 04/22/2011 9:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		1.1	Degree C	SM 2550 B			DS	1/03/2011	08:26:00	
61	Stream Flow - Instantaneou:		0.266	CFS				FIE	1/03/2011	08:26:00	
95	Conductance, Specific		1377.0	UMHO/CM	SM-2510 B	4.8		KF	1/11/2011	11:40:00	
400	Field pH		7.92	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	08:26:00	
403	pH, Lab		7.55	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/11/2011	14:45:00	
410	Alkalinity, Total (As CACO3		67.00	mg/l	SM-2320 B	2.00		TE	1/11/2011	14:45:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/11/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		6.00	mg/l	SM-2540 D	4.00	4	KF	1/12/2011	10:00:00	
945	Sulfates, Total (As SO4)		650	mg/l	ASTM D516-90, 03	2	5	KF	1/11/2011	16:20:00	
1045	Iron, Total		0.597	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/18/2011	08:00:00	
1055	Manganese, Total (Mn)		2.457	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/18/2011	08:00:00	
1105	Aluminum, Total (As AL)		0.163	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	KH	1/18/2011	08:00:00	
70296	Solids,Total Dissolved		1056	mg/l	SM-2540C	10		KF	1/12/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: DWR-16. Art. #3 Surface Water Monitori
Outlet Name: NPDES DWR-16 (Previously WV1014048)
State Permit #: WV0095311
DOE Permit/Article: S-0055-80
Laboratory #: 000-00975

Elevation (ft): 1,060.00
Latitude: 39 41'35"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/01/2011
Date Received: 04/02/2011
Date Completed: 04/19/2011
Time Sampled: 10:31:00
Report Date: 07/22/2011 1:18PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		6.4	Degree C	SM 2550 B			DS	4/01/2011	10:31:00	
61	Stream Flow - Instantaneou:		0.998	CFS				FIE	4/01/2011	10:31:00	
95	Conductance, Specific		2120.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:10:00	
400	Field pH		7.52	Std. Unit	SM-4500 B			DS	4/01/2011	10:31:00	
403	pH, Lab		7.71	Std. Unit	SM 4500-H+ B	0.04		TE	4/15/2011	11:00:00	
410	Alkalinity, Total (As CACO3		46	mg/l	SM-2320 B	2		TE	4/15/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/15/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		8.00	mg/l	SM-2540 D	2.00		KF	4/18/2011	10:15:00	
945	Sulfates, Total (As SO4)		1450	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:05:00	
1045	Iron, Total		0.468	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1055	Manganese, Total (Mn)		6.596	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1105	Aluminum, Total (As AL)		0.321	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	11:00:00	
70296	Solids,Total Dissolved		1654	mg/l	SM-2540C	13		KF	4/18/2011	09:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
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Environmental Analysis

Company: **Patriot Mining Company/NonOperational Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: Wades Run
Outlet/Site: DWR-16 Art. #3 Surface Water Monitori
Outlet Name: NPDES DWR-16 (Previously WV1014048)
State Permit #: WV0095311
DOE Permit/Article: S-0117-75
Laboratory #: 000-00974

Elevation (ft): 1,060.00
Latitude: 39 41'35"
Longitude: 80 01'19"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/01/2011
Date Received: 04/02/2011
Date Completed: 04/19/2011
Time Sampled: 10:31:00
Report Date: 07/22/2011 1:18PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		6.4	Degree C	SM 2550 B			DS	4/01/2011	10:31:00	
61	Stream Flow - Instantaneou:		0.998	CFS				FIE	4/01/2011	10:31:00	
95	Conductance, Specific		2120.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:10:00	
400	Field pH		7.52	Std. Unit	SM-4500 B			DS	4/01/2011	10:31:00	
403	pH, Lab		7.71	Std. Unit	SM 4500-H+ B	0.04		TE	4/15/2011	11:00:00	
410	Alkalinity, Total (As CACO3		46	mg/l	SM-2320 B	2		TE	4/15/2011	11:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/15/2011	11:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		8.00	mg/l	SM-2540 D	2.00		KF	4/18/2011	10:15:00	
945	Sulfates, Total (As SO4)		1450	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:05:00	
1045	Iron, Total		0.468	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1055	Manganese, Total (Mn)		6.596	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	11:00:00	
1105	Aluminum, Total (As AL)		0.321	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	11:00:00	
70296	Solids,Total Dissolved		1654	mg/l	SM-2540C	13		KF	4/18/2011	09:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00029

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 10:43:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		6	Degree C	SM 2550 B			FIE	1/03/2011	10:43:00	
61	Stream Flow - Instantaneou:		0.290	CFS				FIE	1/03/2011	10:43:00	
95	Conductance, Specific		2160.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		8.17	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	10:43:00	
403	pH, Lab		8.37	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		200.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		1050	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		0.031	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		0.024	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	None Detected at the reporting level (MDL)
1106	Aluminum, Dissolved (As AL	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	None Detected at the reporting level (MDL)
70296	Solids,Total Dissolved		1684	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00294

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 02/01/2011
Date Received: 02/02/2011
Date Completed: 02/07/2011
Time Sampled: 08:53:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		2	Degree C	SM 2550 B			FIE	2/01/2011	08:53:00	
61	Stream Flow - Instantaneou:		0.330	CFS				FIE	2/01/2011	08:53:00	
95	Conductance, Specific		2310.0	UMHO/CM	SM-2510 B	4.8		KF	2/07/2011	10:15:00	
400	Field pH		8.13	Std. Unit	SM-4500 B	1.00		DS	2/01/2011	08:53:00	
403	pH, Lab		7.95	Std. Unit	SM 4500-H+ B	1.00	4	TE	2/04/2011	09:00:00	
410	Alkalinity, Total (As CACO3		220.00	mg/l	SM-2320 B	2.00		TE	2/04/2011	09:00:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	2/04/2011	09:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	2/07/2011	10:00:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		1250	mg/l	ASTM D516-90, 03	2	5	KF	2/07/2011	15:35:00	
1045	Iron, Total		0.043	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	2/04/2011	07:45:00	
1055	Manganese, Total (Mn)		0.022	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	2/04/2011	07:45:00	
1105	Aluminum, Total (As AL)	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	2/04/2011	07:45:00	None Detected at the reporting level (MDL)
1106	Aluminum, Dissolved (As AL	<	0.040	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	2/04/2011	07:45:00	None Detected at the reporting level (MDL)
70296	Solids,Total Dissolved		1796	mg/l	SM-2540C	10		KF	2/07/2011	15:35:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00479

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 03/03/2011
Date Received: 03/04/2011
Date Completed: 03/24/2011
Time Sampled:
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
95	Conductance, Specific		2000.00	UMHO/CM	SM-2510 B	1.53	5	TE	3/14/2011	11:45:00	
403	pH, Lab		7.85	Std. Unit	SM 4500-H+ B	0.04		TE	3/14/2011	13:40:00	
410	Alkalinity, Total (As CACO3		189	mg/l	SM-2320 B	2		TE	3/14/2011	13:40:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	3/14/2011	14:15:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total	<	4.00	mg/l	SM-2540 D	4.00	4	KF	3/15/2011	10:10:00	None Detected at the reporting level (MDL)
945	Sulfates, Total (As SO4)		1,150	mg/l	ASTM D516-90, 03	1	5	KF	3/14/2011	17:10:00	
1045	Iron, Total		0.061	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/24/2011	10:45:00	
1055	Manganese, Total (Mn)		0.011	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/24/2011	10:45:00	
1105	Aluminum, Total (As AL)		0.020	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	3/24/2011	10:45:00	
1106	Aluminum, Dissolved (As AL		0.022	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	3/24/2011	10:45:00	
70296	Solids,Total Dissolved		1516	mg/l	SM-2540C	10		KF	3/15/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00702

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 09:22:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		10	Degree C	SM 2550 B			FIE	4/04/2011	09:22:00	
61	Stream Flow - Instantaneou:		1.436	CFS				FIE	4/04/2011	09:22:00	
95	Conductance, Specific		2350.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		7.90	Std. Unit	SM-4500 B			DS	4/04/2011	09:22:00	
403	pH, Lab		8.13	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		209	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		4.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)		1450	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		0.134	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		0.023	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.085	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
1106	Aluminum, Dissolved (As AL		0.039	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		1784	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

Standard Laboratories, Inc.

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00878

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 05/02/2011
Date Received: 05/04/2011
Date Completed: 05/17/2011
Time Sampled:
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
95	Conductance, Specific		2400.00	UMHO/CM	SM-2510 B	1.53	5	TE	5/13/2011	12:00:00	
403	pH, Lab		8.00	Std. Unit	SM 4500-H+ B	0.04		TE	5/12/2011	12:30:00	
410	Alkalinity, Total (As CACO3		194	mg/l	SM-2320 B	2		TE	5/12/2011	12:30:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	5/12/2011	13:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		4.00	mg/l	SM-2540 D	2.00		KF	5/13/2011	11:00:00	
945	Sulfates, Total (As SO4)		1600	mg/l	ASTM D516-90, 03	1	5	KF	5/13/2011	10:30:00	
1045	Iron, Total		0.068	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	5/17/2011	12:32:00	
1055	Manganese, Total (Mn)		0.043	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	5/17/2011	12:32:00	
1105	Aluminum, Total (As AL)		0.069	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	5/17/2011	12:32:00	
1106	Aluminum, Dissolved (As AL		0.035	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	5/17/2011	12:32:00	
70296	Solids,Total Dissolved		1948	mg/l	SM-2540C	13		KF	5/13/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-2 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-01071

Elevation (ft):
Latitude:
Longitude:
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 06/01/2011
Date Received: 06/03/2011
Date Completed: 06/28/2011
Time Sampled: 09:57:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
9	Field Temperature		16	Degree C	SM 2550 B			FIE	6/01/2011	09:57:00	
61	Stream Flow - Instantaneou:		1.412	CFS				FIE	6/01/2011	09:57:00	
95	Conductance, Specific		2500.00	UMHO/CM	SM-2510 B	1.53	5	TE	6/21/2011	11:45:00	
400	Field pH		7.91	Std. Unit	SM-4500 B			DS	6/01/2011	09:57:00	
403	pH, Lab		7.97	Std. Unit	SM 4500-H+ B	0.04		TE	6/17/2011	21:30:00	
410	Alkalinity, Total (As CACO3		234	mg/l	SM-2320 B	2		TE	6/17/2011	21:30:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	6/17/2011	21:30:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		14.00	mg/l	SM-2540 D	2.00		KF	6/21/2011	11:00:00	
945	Sulfates, Total		1431.66	mg/l	EPA 300.0	0.10	2	AB	6/28/2011	11:43:00	
1045	Iron, Total		0.216	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/15/2011	13:27:00	
1055	Manganese, Total (Mn)		0.046	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/15/2011	13:27:00	
1105	Aluminum, Total (As AL)		0.085	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	6/15/2011	13:27:00	
1106	Aluminum, Dissolved (As AL		0.009	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	6/15/2011	13:27:00	
70296	Solids,Total Dissolved		1620	mg/l	SM-2540C	13		KF	6/21/2011	09:20:00	

MDL: Method Detection Limit is reported in the same unit as result

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mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnammed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00027

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 01/03/2011
Date Received: 01/05/2011
Date Completed: 01/14/2011
Time Sampled: 11:25:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		4.8	Degree C	SM 2550 B			DS	1/03/2011	11:25:00	
58	Flow (Outlet)		138.016	GPM	EPA 170.1			DS	1/03/2011	11:25:00	
95	Conductance, Specific		1569.0	UMHO/CM	SM-2510 B	4.8		KF	1/10/2011	11:45:00	
400	Field pH		7.13	Std. Unit	SM-4500 B	1.00		DS	1/03/2011	11:25:00	
403	pH, Lab		7.16	Std. Unit	SM 4500-H+ B	1.00	4	TE	1/07/2011	14:15:00	
410	Alkalinity, Total (As CACO3		64.00	mg/l	SM-2320 B	2.00		TE	1/07/2011	14:15:00	
435	Acidity, Total (As CACO3)	<	2.00	mg/l	SM-2310 B	2.00		TE	1/07/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		39.00	mg/l	SM-2540 D	4.00	4	KF	1/10/2011	09:40:00	
945	Sulfates, Total (As SO4)		750	mg/l	ASTM D516-90, 03	2	5	KF	1/10/2011	15:45:00	
1045	Iron, Total		10.535	mg/l	EPA 200.7 Rev. 4.4	0.004	0.05	CP	1/14/2011	16:00:00	
1055	Manganese, Total (Mn)		1.389	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	1/14/2011	16:00:00	
1105	Aluminum, Total (As AL)		0.366	mg/l	EPA 200.7 Rev. 4.4	0.040	0.05	CP	1/14/2011	16:00:00	
70296	Solids,Total Dissolved		1208	mg/l	SM-2540C	10		KF	1/10/2011	16:10:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnammed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00369

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 02/16/2011
Date Received: 02/18/2011
Date Completed: 03/02/2011
Time Sampled: 11:23:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name	Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample	7.5	Degree C	SM 2550 B			DS	2/16/2011	11:23:00	
58	Flow (Outlet)	134.784	GPM	EPA 170.1			DS	2/16/2011	11:23:00	
95	Conductance, Specific	2390.0	UMHO/CM	SM-2510 B	4.8		KF	2/25/2011	12:00:00	
400	Field pH	5.85	Std. Unit	SM-4500 B	1.00		DS	2/16/2011	11:23:00	
403	pH, Lab	5.58	Std. Unit	SM 4500-H+ B	0.04		TE	2/24/2011	14:50:00	
410	Alkalinity, Total (As CACO3	10.00	mg/l	SM-2320 B			TE	2/24/2011	14:50:00	
435	Acidity, Total (As CACO3)	50.00	mg/l	SM-2310 B	2.00		TE	2/24/2011	14:50:00	
530	Solids, Suspened Total	15.00	mg/l	SM-2540 D	4.00	4	KF	2/25/2011	09:00:00	
945	Sulfates, Total (As SO4)	1600	mg/l	ASTM D516-90, 03			KF	2/25/2011	16:20:00	
1045	Iron, Total	28.340	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/02/2011	09:45:00	
1055	Manganese, Total (Mn)	4.280	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	3/02/2011	09:45:00	
1105	Aluminum, Total (As AL)	0.745	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	3/02/2011	09:45:00	
70296	Solids,Total Dissolved	1988	mg/l	SM-2540C	10		KF	2/25/2011	08:00:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnammed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00784

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 03/21/2011
Date Received: 03/23/2011
Date Completed: 04/01/2011
Time Sampled: 09:22:00
Report Date: 04/22/2011 8:52AM

Id	Parameter Name	Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
	Aluminum, Total (As AL)	0.193	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/01/2011	09:06:00	
	Solids,Total Dissolved	1644	mg/l	SM-2540C	10		KF	4/01/2011		
	pH, Lab	6.69	Std. Unit	SM 4500-H+ B	0.04		TE	3/31/2011	14:10:00	
	Temp. Of Field Sample	12.9	Degree C	SM 2550 B			DS	3/21/2011	09:22:00	
	Flow (Outlet)	24.686	GPM	EPA 170.1			DS	3/21/2011	09:22:00	
	Conductance, Specific	2020.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/01/2011		
	Field pH	6.74	Std. Unit	SM-4500 B	1.00		DS	3/21/2011	09:22:00	
	Alkalinity, Total (As CACO3	134	mg/l	SM-2320 B	2		TE	4/01/2011		
	Acidity, Total (As CACO3)	39.60	mg/l	SM-2310 B	3.00		TE	4/01/2011		
	Solids, Suspened Total	8.00	mg/l	SM-2540 D	4.00	4	KF	4/01/2011		
	Sulfates, Total (As SO4)	1,400	mg/l	ASTM D516-90, 03	1	5	KF	4/01/2011		
	Iron, Total	7.716	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/01/2011	09:06:00	
	Manganese, Total (Mn)	1.451	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/01/2011	09:06:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-00700

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 04/04/2011
Date Received: 04/06/2011
Date Completed: 04/19/2011
Time Sampled: 10:09:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		11.7	Degree C	SM 2550 B			DS	4/04/2011	10:09:00	
58	Flow (Outlet)		196.99	GPM	EPA 170.1			DS	4/04/2011	10:09:00	
95	Conductance, Specific		2040.00	UMHO/CM	SM-2510 B	1.53	5	TE	4/18/2011	10:20:00	
400	Field pH		6.55	Std. Unit	SM-4500 B			DS	4/04/2011	10:09:00	
403	pH, Lab		6.62	Std. Unit	SM 4500-H+ B	0.04		TE	4/18/2011	15:15:00	
410	Alkalinity, Total (As CACO3		36	mg/l	SM-2320 B	2		TE	4/18/2011	15:15:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	4/18/2011	16:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		13.00	mg/l	SM-2540 D	2.00		KF	4/19/2011	11:00:00	
945	Sulfates, Total (As SO4)		1400	mg/l	ASTM D516-90, 03	1	5	KF	4/18/2011	17:00:00	
1045	Iron, Total		9.259	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1055	Manganese, Total (Mn)		1.161	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	4/19/2011	13:20:00	
1105	Aluminum, Total (As AL)		0.113	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	4/19/2011	13:20:00	
70296	Solids,Total Dissolved		1492	mg/l	SM-2540C	13		KF	4/19/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-01147

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 05/16/2011
Date Received: 05/18/2011
Date Completed: 06/03/2011
Time Sampled: 11:13:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name		Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample		17.3	Degree C	SM 2550 B			DS	5/16/2011	11:13:00	
58	Flow (Outlet)		298.47	GPM	EPA 170.1			DS	5/16/2011	11:13:00	
95	Conductance, Specific		2020.00	UMHO/CM	SM-2510 B	1.53	5	TE	5/26/2011	10:00:00	
400	Field pH		6.58	Std. Unit	SM-4500 B			DS	5/16/2011	11:13:00	
403	pH, Lab		6.38	Std. Unit	SM 4500-H+ B	0.04		TE	5/26/2011	13:00:00	
410	Alkalinity, Total (As CACO3		38	mg/l	SM-2320 B	2		TE	5/26/2011	13:00:00	
435	Acidity, Total (As CACO3)	<	3.00	mg/l	SM-2310 B	3.00		TE	5/26/2011	15:00:00	None Detected at the reporting level (MDL)
530	Solids, Suspened Total		24.00	mg/l	SM-2540 D	2.00		KF	5/25/2011	11:00:00	
945	Sulfates, Total (As SO4)		1400	mg/l	ASTM D516-90, 03	1	5	KF	6/03/2011	12:11:00	
1045	Iron, Total		12.200	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	5/25/2011	09:33:00	
1055	Manganese, Total (Mn)		1.740	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	5/25/2011	09:33:00	
1105	Aluminum, Total (As AL)		0.141	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	5/25/2011	09:33:00	
70296	Solids,Total Dissolved		1524	mg/l	SM-2540C	13		KF	5/25/2011	08:30:00	

MDL: Method Detection Limit is reported in the same unit as result

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(304)-457-5609 Fax (304)-457-1562
mdcrites@standardlabs.com

Environmental Analysis

Company: **Patriot Mining Company/Active Permits**
2708 CRANBERRY SQUARE MORGANTOWN, WV 26508
Location: New Hill Surface Mine
Outlet/Site: UTSR-1 Art. #3 Surface Water Monitori
Outlet Name: Art. #3 Upstrm Unnamed Trib Scotts Run
State Permit #: WV1017535
DOE Permit/Article: S-2010-04
Laboratory #: 000-01143

Elevation (ft): 958.00
Latitude: 36 40'00"
Longitude: 80 02'31"
Rain Fall 24Hr Prior:
Rain Fall 72Hr Prior:

Field Sampler: DS
Sampled By: ICG
Date Sampled: 06/13/2011
Date Received: 06/15/2011
Date Completed: 06/29/2011
Time Sampled: 10:42:00
Report Date: 07/22/2011 1:05PM

Id	Parameter Name	Result	Unit	Method	MDL	QL	Analyst	Date Analyzed	Time Analyzed	Analysis Comment
10	Temp. Of Field Sample	18.3	Degree C	SM 2550 B			DS	6/13/2011	10:42:00	
58	Flow (Outlet)	179.53	GPM	EPA 170.1			DS	6/13/2011	10:42:00	
95	Conductance, Specific	2360.00	UMHO/CM	SM-2510 B	1.53	5	TE	6/27/2011	12:00:00	
400	Field pH	6.00	Std. Unit	SM-4500 B			DS	6/13/2011	10:42:00	
403	pH, Lab	6.02	Std. Unit	SM 4500-H+ B	0.04		EM	6/24/2011	16:30:00	
410	Alkalinity, Total (As CACO3	22	mg/l	SM-2320 B	2		EM	6/24/2011	16:30:00	
435	Acidity, Total (As CACO3)	40.00	mg/l	SM-2310 B	3.00		EM	6/24/2011	16:30:00	
530	Solids, Suspened Total	13.00	mg/l	SM-2540 D	2.00		KF	6/28/2011	07:00:00	
945	Sulfates, Total (As SO4)	1250	mg/l	ASTM D516-90, 03	1	5	KF	6/29/2011	23:00:00	
1045	Iron, Total	32.640	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/29/2011	09:28:00	
1055	Manganese, Total (Mn)	2.730	mg/l	EPA 200.7 Rev. 4.4	0.002	0.05	CP	6/29/2011	09:28:00	
1105	Aluminum, Total (As AL)	0.170	mg/l	EPA 200.7 Rev. 4.4	0.003	0.05	CP	6/29/2011	09:28:00	
70296	Solids,Total Dissolved	2052	mg/l	SM-2540C	13		KF	6/28/2011	07:45:00	

MDL: Method Detection Limit is reported in the same unit as result