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October 25, 2012

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

Jeffrey Kukura Business Unit President Emerald Coal Resources, LP P.O. Box 1020, 158 Portal Road Waynesburg, Pennsylvania 15370

Kevin Crutchfield Chairman and Chief Executive Officer Alpha Natural Resources, LLC Alpha Natural Resources, Inc. One Alpha Place P.O. Box 2345 Abingdon, VA 24212

Corporation Service Company Registered Agent for Alpha Natural Resources, LLC 2704 Commerce Drive Harrisburg, PA 17110

Dear Sirs:

This notice letter is written on behalf of the Center for Coalfield Justice and its members (collectively, "CCJ"). The Center for Coalfield Justice is a Pennsylvania-incorporated, not-for-profit organization with federal Internal Revenue Service §501(c)(3)-status recognition located at 184 S. Main Street, Washington, PA 15301. CCJ is a membership organization, with a mission to "improve policy and regulations for the oversight of fossil fuel extraction and use; to educate, empower and organize coalfield citizens; and to protect public and environmental health." CCJ consists of individual members and is governed by a volunteer Board of Directors. The Center for Coalfield Justice has more than five hundred members and supporters.

Clean Water Act 60-Day Notice Letter October 25, 2012 Page 2 of 5

Emerald Coal Resources, LP and Alpha Natural Resources, LLC (collectively, "ANR") own and operate the Emerald Mine #1 coal mine in Waynesburg, Pennsylvania. As a result of ANR's operations at Emerald Mine #1, ANR releases a variety of pollutants into tributaries that feed the Monongahela River. Based on available information, CCJ believes that ANR has violated and will continue to violate the federal Clean Water Act, 33 U.S.C. § 1251, et seq., and ANR's National Pollutant Discharge Elimination System ("NPDES") Permit No. PA0213438 in operating Emerald Mine #1.

Dischargers of industrial wastewater must comply with NPDES permits issued under Section 402 of the Clean Water Act, 33 U.S.C. § 1342. A NPDES wastewater discharge permit contains limits on the amount of allowable pollutants and contains pollutant-monitoring requirements. The discharge of any pollutant in violation of a NPDES permit or the failure to conduct required monitoring for pollutant discharges are prohibited under Section 301(a) of the Clean Water Act. 33 U.S.C. § 1311(a).

During the five years previous to the date of this letter, ANR has discharged various pollutants from its Emerald Mine #1 operations into tributaries that feed the Monongahela River in concentrations and amounts that exceed the discharge limits contained in its NPDES permit. ANR also has failed to conduct monitoring required by its NPDES permit.

More specifically, ANR's violations are as follows:

Table 1, attached, lists the dates, from December 2007, through June 2012 (the most recent month for which discharge information is publicly available), on which ANR has exceeded the parameters in its permit for various outfalls and/or failed to conduct required monitoring. Each exceedance or failure to monitor constitutes a violation of ANR's NPDES permit and the Clean Water Act. At a minimum, the lawsuit will involve violations on the days ANR was required to sample as reflected in the Discharge Monitoring Reports ("DMRs"). We also expect the lawsuit to include violations that occurred on days in between those required quarterly and monthly sampling events.

Table 2, attached, sets forth violations of monitoring frequency requirements from April 2008 through June 2012 (the most recent month for which discharge information is publicly available). We also note ANR's failure to monitor and/or report on all of its DMRs in the last five years the presence or absence of non-trace amounts of floating solids or visible foam as required by Part A for every Outfall covered by the NPDES permit. ("There shall be no discharge of floating solids or visible foam in other than trace amounts.") No reports documenting either visible foam or floating solids observations were found in any of the DMRs.

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Additional information, including information in ANR's possession, may reveal additional violations, including monitoring, reporting and recordkeeping violations of the Clean Water Act at Emerald Mine #1. For example, this letter covers violations expected to have occurred during Quarter 3 of 2012 (July-Sept.), for which DMR data is not currently publicly available. This letter covers all such violations occurring within the five years immediately preceding the service of this notice letter to the full extent contemplated by the standard set forth in *Public Interest Research Group of New Jersey v. Hercules*, 50 F.3d 1239 (3d Cir. 1995).

Upon expiration of the 60-day notice period, CCJ intends to file a citizen suit against ANR in federal court to secure appropriate relief under federal law for these violations, and for any similar violations that occur after the date of this notice letter. In so doing, CCJ seeks to improve the water quality of the Monongahela River and its tributaries by securing long-term compliance with applicable law.

During the 60-day notice period, we would be willing to discuss effective remedies for the violations noticed in this letter and actions that might be taken to ensure future compliance with the Clean Water Act at Emerald Mine #1. Moreover, the 60-day notice period would be the appropriate time for ANR to inform CCJ of any steps it has already taken to remedy the violations discussed in this notice. However, if you wish to pursue such negotiations in the absence of litigation, we suggest that you initiate those discussions within the next 15 days so that they may be completed before the end of the 60-day notice period. We do not intend to delay the filing of a complaint in federal court if discussions are continuing when that period ends. If you are interested is such discussions, please contact me at: (781) 659-1696, or cassidy@lclark.edu.

Best regards,

Kevin M. Cassidy Earthrise Law Center

Encl.

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PERSONS GIVING NOTICE AND REPRESENTING ATTORNEYS

Address and telephone number of CCJ

Center for Coalfield Justice Box 1080 Washington, PA 15301 Tel: 724-229-3550

Address and telephone number of Representing Attorney

Kevin M. Cassidy Earthrise Law Center P.O. Box 445 Norwell, MA 02061 Tel: 781-659-1696

copies:

Via certified mail/return receipt requested

Lisa Jackson, Administrator United States Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Ave., NW Mail Code: 1101A Washington, D.C. 20460

Shawn M. Garvin EPA Regional Administrator Mid-Atlantic Region (Region 3) 1650 Arch Street Philadelphia, PA 19103-2029

Michael Krancer, Secretary Pennsylvania Department of Environmental Protection Rachel Carson State Office Building 400 Market Street Harrisburg, PA 17101 Clean Water Act 60-Day Notice Letter October 25, 2012 Page 5 of 5

Susan Malone PA DEP Southwest Regional Director 400 Waterfront Drive Pittsburgh, PA 15222

Bruce Herschlag Acting Regional Counsel PA DEP – Southwest Region 400 Waterfront Drive Pittsburgh, PA 15222

William Plassio
District Mining Manager
DEP California District Office
25 Technology Drive
California Technology Park
Coal Center, PA 15423

Table 1
Clean Water Act Violations by Emerald Mine #1
(Sourced from DMRs for Clean Water Act Permit #PA0213438)

Quarter	DATE	Outfall	l Parameter	Type of Limit	Units	Permit Limit	Reported Discharge	Exceedence to Limit Ratio
	April, 2012	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	183	3.66
	May, 2012	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	189.5	3.79
Q2	June, 2012	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	168.5	3.37
2012	April 5 and 17, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	194	1.94
	May 1 and 15, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	199	1.99
	June 6 and 19, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	170	1.70
	February, 2012	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	201.5	4.03
	March, 2012	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	195.5	3.91
Q1	Jan. 4 and 25, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	181	1.81
2012	Feb. 8 and 15, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	206	2.06
	March 5 and 15, 2012	016	Osmotic Pressure	Max. Daily	mos/kg	100	199	1.99
	October, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	195	3.90
	November, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	181	3.62
Q4	December, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	198.5	3.97
2011	October 2011 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	201	2.01
	November, 2011 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	183	1.83
	December, 2011 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	202	2.02
	July, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	198.5	3.97
	August, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	185.5	3.71
Q3	September, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	196.5	3.93
2011	July 6 and 15, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	211	2.11
	Aug. 2 and 9, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	198	1.98
	Sept. 12, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	199	1.99
	April, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	166	3.32
	May, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	206.5	4.13
Q2	June, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	200.5	4.01
2011	April 7 and 19, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	193	1.93
2011	May 3 and 12, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	214	2.14
	June 1 and 9, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	211	2.11
	January, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	211.5	4.23
	February, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	232	4.64
Q1	March, 2011	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	201	4.02
2011	Jan. 4 and 13, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	227	2.27
2011	Feb. 8 and 15, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	234	2.34
	Mar. 15 and 22, 2011	016	Osmotic Pressure	Max. Daily	mos/kg	100	223	2.23
	October, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	212.5	4.25
	November, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	197	3.94
Q4	December, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	184.5	3.69
2010	October, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	214	2.14
2010	November, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	219	2.19
	December, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	191	1.91
	July, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	168	3.36
Q3	August, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	196	3.92
2010	September, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	201	4.02
	July 7 and 27, 2010	016	Osmotic Pressure	Max. Daily	mos/kg	100	211	2.11
Q3	Aug. 3 and 12, 2010	016	Osmotic Pressure	Max. Daily	mos/kg	100	201	2.11
2010	Sept. 7 and 16, 2010	016	Osmotic Pressure	Max. Daily	mos/kg	100	201	2.01
	April, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	178	3.56
02	May, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	212	4.24
Q2	June, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	206	4.24
2010								

Quarter	DATE	Outfall	Outfall Parameter	Type of Limit	Units	Permit Limit	Reported Discharge	Exceedence to Limit Ratio
Q2	May, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	222	2.22
2010	2010 June, 2010 (2 violations)		Osmotic Pressure	Max. Daily	mos/kg	100	207	2.07
	January, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	213	4.26
	February, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	210.5	4.21
Q1	March, 2010	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	187	3.74
2010	January, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	226	2.26
	February, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	211	2.11
	March, 2010 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	207	2.07
	October, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	153.5	3.07
	November, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	207.5	4.15
Q4	December, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	218	4.36
2009	October, 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	166	1.66
	November, 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	210	2.10
	December, 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	218	2.18
	July, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	214.5	4.29
	August, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	209.5	4.19
Q3	September, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	185.5	3.71
2009	July 8 and 15, 2009	016	Osmotic Pressure	Max. Daily	mos/kg	100	215	2.15
	Aug. 3 and 17, 2009	016	Osmotic Pressure	Max. Daily	mos/kg	100	223	2.23
	Sept. 3 and 11, 2009	016	Osmotic Pressure	Max. Daily	mos/kg	100	190	1.90
	April, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	151	3.02
	May, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	145	2.90
Q2	June, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	209	4.18
2009	April, 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	172	1.72
	May, 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	197	1.97
	June 2009 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	227	2.27
	January, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	225	4.50
Q1	February, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	112.5	2.25
2009	March, 2009	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	70	1.40
	January, 2009	016	Osmotic Pressure	Max. Daily	mos/kg	100	240	2.40
	Feb. 9 and 18, 2009	016	Osmotic Pressure	Max. Daily	mos/kg	100	120	1.20
	October, 2008	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	96	1.92
Q4	November, 2008	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	147.5	2.95
2008	December, 2008	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	170.5	3.41
	November, 2008 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	185	1.85
043007	December, 2008 (2 violations)	016	Osmotic Pressure	Max. Daily	mos/kg	100	220	2.20
Q4 2007	December, 2007	016	Osmotic Pressure	Avg. Monthly	mos/kg	50	51.5	1.03
	April, 2012	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	114	2.28
03	May, 2012	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	129.5	2.59
Q2	June, 2012	013	Osmotic Pressure Osmotic Pressure	Avg. Monthly	mos/kg	50	127.5	2.55
2012	April 5 and 17, 2012	013		Max. Daily	mos/kg	100	114	1.14
	May 1 and 15, 2012	013	Osmotic Pressure	Max. Daily	mos/kg	100	141	1.41
	June 6 and 19, 2012	013	Osmotic Pressure Osmotic Pressure	Max. Daily	mos/kg	100	141	1.41
	January, 2012	013		Avg. Monthly	mos/kg	50	120	2.40
01	February, 2012	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	128	2.56
Q1	March, 2012	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	109.5	2.19
2012	Jan. 4 and 25, 2012	013	Osmotic Pressure	Max. Daily	mos/kg	100	132	1.32
	Feb. 8 and 15, 2012	013	Osmotic Pressure Osmotic Pressure	Max. Daily	mos/kg	100	136	1.36
	March 5 and 15, 2012	013		Max. Daily	mos/kg	100	114	1.14
04	October, 2011	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	95.5	1.91
Q4	November, 2011	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	63	1.26
2011	December, 2011	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	112	2.24
	Dec. 5 and 13, 2011	013	Osmotic Pressure	Max. Daily	mos/kg	100	112	1.12
Q3	July, 2011 August, 2011	013 013	Osmotic Pressure Osmotic Pressure	Avg. Monthly Avg. Monthly	mos/kg mos/kg	50	84 67.5	1.68 1.35
		UI3	OSMONE Pressure	I AVE. IVIONTNIV	i mos/kø	50	ל./מו	しょう

Quarter DATE									Exceedence
Q. 2011 June, 2011	Quarter	DATE	Outfall	Parameter	Type of Limit	Units		-	
Q2 2011 June, 2011					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Limit	Discharge	
January, 2011 0.13 Osmotic Pressure Avg. Monthly mos/kg 50 87.5 1.75	Q2 2011	June, 2011	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	83.5	
Company		,	013				50		2.01
Description	Q1				,				
Feb. 8, 2011		Jan. 13, 2011	013				100	101	1.01
October, 2010			013		'				
November, 2010		,			•				
Dect. 7 and 26, 2010	Q4		013				50		
Nov. 8 and 16, 2010		· ·	013	Osmotic Pressure				113	1.13
July, 2010		,	013		•			112	
August, 2010 0.13 Osmotic Pressure Avg. Monthly mos/kg 50 134 2.68		, , , , , , , , , , , , , , , , , , ,	013		•			160	
Q3			013	Osmotic Pressure	,		50	134	2.68
Duly 7 and 27, 2010	Q3		013				50	124	2.48
Aug. 3 and 12, 2010 013 Osmotic Pressure Max. Daily mos/kg 100 128 1.28 1.28 April, 2010 013 Osmotic Pressure Avg. Monthly mos/kg 50 114 2.28 May, 2010 013 Osmotic Pressure Avg. Monthly mos/kg 50 114 2.28 April, 2010 013 Osmotic Pressure Avg. Monthly mos/kg 50 114 2.28 May, 2010 013 Osmotic Pressure Avg. Monthly mos/kg 50 116.5 2.33 April, 2010 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 127 1.27 May, 2010 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 121 1.21			013					197	1.97
Sept. 7 and 16, 2010					•				
April, 2010		·	013				100	128	1.28
May, 2010		April. 2010	013		Avg. Monthly		50		
Q2					Ŭ,	, 0			
April, 2010 (2 violations)	Q2								
May, 2010 (2 violations)		•							
June, 2010 (2 violations)					•				
January, 2010		, , ,			'	, ,			
February, 2010		, , ,			•				
March, 2010 March, 2010 Osmotic Pressure Arg. Monthly mos/kg 50 133 2.66									
Danuary, 2010 (2 violations) O13	Q1								
February, 2010 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18		*	013		,				
March, 2010 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 164 1.64			013		•		100	118	1.18
October, 2009			013	Osmotic Pressure	Max. Daily		100	164	1.64
November, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 116 2.32				Osmotic Pressure			50	107	2.14
Q4 December, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 110 2.20 2009 October, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 108 1.08 November, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 111 1.17 July, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 128.5 2.57 August, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 112.5 2.25 August, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 112.5 2.25 July 8 and 15, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 113 1.33 Aug. 3 and 17, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 Sept. 3 and 11, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 <			013	Osmotic Pressure			50	116	2.32
October, 2009 (2 violations) O13 Osmotic Pressure Max. Daily mos/kg 100 108 1.08	Q4	December, 2009	013	Osmotic Pressure	Avg. Monthly		50	110	2.20
November, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 117 1.17 1.17	2009			Osmotic Pressure					1.08
December, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 111 1.11		November, 2009 (2 violations)	013	Osmotic Pressure	Max. Daily		100	117	1.17
Duly, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 128.5 2.57		December, 2009 (2 violations)	013	Osmotic Pressure	Max. Daily		100	111	1.11
Q3 August, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 114 2.28 2009 July 8 and 15, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 112.5 2.25 Aug. 3 and 17, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 Sept. 3 and 11, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 119 1.19 April, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 119 1.19 Q2 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 79.5 1.59 April, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 125 2.50 Q2 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2019 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg </td <td></td> <td>July, 2009</td> <td>013</td> <td>Osmotic Pressure</td> <td></td> <td></td> <td>50</td> <td>128.5</td> <td>2.57</td>		July, 2009	013	Osmotic Pressure			50	128.5	2.57
Description		August, 2009	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	114	2.28
Aug. 3 and 17, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 Sept. 3 and 11, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 119 1.19 April, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 79.5 1.59 May, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 125 2.50 Q2 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Avg. Monthly mos/kg 100 <	Q3	September, 2009	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	112.5	2.25
Sept. 3 and 11, 2009 013 Osmotic Pressure Max. Daily mos/kg 100 119 1.19 April, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 79.5 1.59 May, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 125 2.50 Q2 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Avg. Monthly mos/kg 100 124 1.24 Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg 70	2009	July 8 and 15, 2009	013	Osmotic Pressure	Max. Daily	mos/kg	100	133	1.33
April, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 79.5 1.59 Q2 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 125 2.50 209 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Avg. Monthly mos/kg 100 124 1.24 Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg		Aug. 3 and 17, 2009	013	Osmotic Pressure	Max. Daily	mos/kg	100	118	1.18
Q2 May, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 125 2.50 2009 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 124 1.24 Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg 70 98 1.40 Q3 2011 September, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg		Sept. 3 and 11, 2009	013	Osmotic Pressure	Max. Daily	mos/kg	100	119	1.19
Q2 2009 June, 2009 013 Osmotic Pressure Avg. Monthly mos/kg 50 121 2.42 2009 April, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 118 1.18 May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 124 1.24 Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg 70 98 1.40 Q3 2011 September, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg		April, 2009	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	79.5	1.59
April, 2009 (2 violations) O13 Osmotic Pressure Max. Daily mos/kg 100 118 1.18		May, 2009	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	125	2.50
May, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 170 1.70 June, 2009 (2 violations) 013 Osmotic Pressure Max. Daily mos/kg 100 124 1.24 Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg 70 98 1.40 Q3 2011 September, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 101 1.59 Q4 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76	Q2	June, 2009	013	Osmotic Pressure	Avg. Monthly	mos/kg	50	121	2.42
June, 2009 (2 violations) O13 Osmotic Pressure Max. Daily mos/kg 100 124 1.24	2009	April, 2009 (2 violations)	013	Osmotic Pressure	Max. Daily	mos/kg	100	118	1.18
Q2 2012 April, 2012 002 Osmotic Pressure Avg. Monthly mos/kg 70 98 1.40 Q3 2011 September, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 2011 February, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 May, 2009 002 Osmoti		May, 2009 (2 violations)	013	Osmotic Pressure	Max. Daily	mos/kg	100	170	1.70
Q3 2011 September, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 2011 February, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmot		June, 2009 (2 violations)	013	Osmotic Pressure	Max. Daily	mos/kg	100	124	1.24
Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 2011 February, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03	Q2 2012	April, 2012	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	98	1.40
Q1 January, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 90.5 1.29 2011 February, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03			002	Osmotic Pressure	Avg. Monthly		70	76	1.09
2011 February, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 111 1.59 Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03			002				70		1.29
Q4 2010 November, 2011 002 Osmotic Pressure Avg. Monthly mos/kg 70 102 1.46 Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03			002	Osmotic Pressure	Avg. Monthly		70	111	1.59
Q1 2010 January, 2010 002 Osmotic Pressure Avg. Monthly mos/kg 70 106 1.51 Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03									
Q4 2009 October, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 76 1.09 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03									
Q4 2009 November, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 113 1.61 Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03					,				
Q3 2009 August, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 78 1.11 Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03	Q4 2009								
Q2 2009 May, 2009 002 Osmotic Pressure Avg. Monthly mos/kg 70 72 1.03	Q3 2009								
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Quarter	DATE	Outfall	Parameter	Type of Limit	Units	Permit Limit	Reported Discharge	Exceedence to Limit Ratio
Q1 2009	February, 2009	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	92	1.31
Q4	October, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	91.5	1.31
2008	November, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	97	1.39
Q3	August, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	79.5	1.14
2008	September, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	84.5	1.21
Q2	April, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	73.5	1.05
2008	May, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	73.5	1.05
Q1 2008	February, 2008	002	Osmotic Pressure	Avg. Monthly	mos/kg	70	114	1.63
	March, 2009	017	Iron	Avg. Monthly	mg/l	1.5	1.8	1.20
Q1	January, 2009	017	Iron	Max. Daily	mg/l	7	8.4	1.20
2009	Feb. 9, 2009	017	Iron	Max. Daily	mg/l	7	18.6	2.66
	March, 2009 (2 violations)	017	Iron	Max. Daily	mg/l	3	3.3	1.10
	October, 2011	016	Iron	Avg. Monthly	mg/l	1.5	2.2	1.47
0.4	November, 2011	016	Iron	Avg. Monthly	mg/l	1.5	2.8	1.87
Q4	December, 2011	016	Iron	Avg. Monthly	mg/l	1.5	5	3.33
2011	November, 2011	016	Iron	Max. Daily	mg/l	3	5.2	1.73
	December, 2011	016	Iron	Max. Daily	mg/l	3	6.6	2.20
	April, 2011	016	Iron	Avg. Monthly	mg/l	1.5	2.8	1.87
Q2	May, 2011	016	Iron	Avg. Monthly	mg/l	1.5	2.8	1.87
2011	April 7, 2011	016	Iron	Max. Daily	mg/l	3	3.7	1.23
2011	May 3, 2011	016	Iron	Max. Daily	mg/l	3	3.2	1.07
	January, 2011	016	Iron	Avg. Monthly	mg/l	1.5	4.6	3.07
Q1	February, 2011	016	Iron	Avg. Monthly	mg/l	1.5	1.8	1.20
2011	Jan. 13, 2011	016	Iron	Max. Daily	mg/l	3	6.4	2.13
2011		016	Iron	Max. Daily		3	3.2	1.07
	Feb. 15, 2011 October, 2010	016		Avg. Monthly	mg/l	1.5	2.8	1.87
04	· · · · · · · · · · · · · · · · · · ·	016	Iron		mg/l			
Q4 2010	December, 2010 October, 2010 (2 violations)	016	Iron	Avg. Monthly Max. Daily	mg/l	1.5 3	10.2 4.8	6.80 1.60
2010	· · · · · · · · · · · · · · · · · · ·		Iron		mg/l			
	Deember, 2010 (2 violations)	016	Iron	Max. Daily	mg/l	3	13.2	4.40
Q1	January, 2010	016	Iron	Avg. Monthly	mg/l	1.5	4.9	3.27
2010	March, 2010	016	Iron	Avg. Monthly	mg/l	1.5	1.8	1.20
	January, 2010 (2 violations)	016	Iron	Max. Daily	mg/l	3	7.3	2.43
	October, 2009	016	Iron	Avg. Monthly	mg/l	1.5	3.3	2.20
Q4	December, 2009	016	Iron	Avg. Monthly	mg/l	1.5	4.7	3.13
2009	October, 2009 (2 violations)	016	Iron	Max. Daily	mg/l	3	3.7	1.23
	December, 2009 (2 violations)	016	Iron	Max. Daily	mg/l	3	4.9	1.63
	August, 2009	016	Iron	Avg. Monthly	mg/l	1.5	1.7	1.13
	January, 2009	016	Iron	Avg. Monthly	mg/l	1.5	1.8	1.20
Q2	June, 2012	015	Iron	Avg. Monthly	mg/l	1.5	2.8	1.87
2012	June 6, 2012	015	Iron	Max. Daily	mg/l	3	3.7	1.23
Q1	March, 2012	015	Iron	Avg. Monthly	mg/l	1.5	4.3	2.87
2012	March 5 and 15, 2012	015	Iron	Max. Daily	mg/l	3	7.1	2.37
Q2	May, 2012	006	Iron	Avg. Monthly	mg/l	2.1	3.2	1.52
2012	June, 2012	006	Iron	Avg. Monthly	mg/l	2.1	6.5	3.10
2012	June 6, 2012	006	Iron	Max. Daily	mg/l	4.2	6.5	1.55
Q2 2012	May 15, 2012	004	Iron	Max. Daily	mg/l	7	10.2	1.46
	January, 2010	002	Iron	Avg. Monthly	mg/l	2	2.3	1.15
Q4 2009	October, 2009	002	Iron	Avg. Monthly	mg/l	2	2.4	1.20
Q1	January, 2008	002	Iron	Avg. Monthly	mg/l	2	2.53	1.27
2008	January, 2008	002	Iron	Max. Daily	mg/l	4	4.73	1.18
Q3	August, 2010	001	Iron	Avg. Monthly	mg/l	3	6.6	2.20
2010	Aug. 3, 2010	001	Iron	Max. Daily	mg/l	6	13.1	2.18
Q2	June, 2008	001	Iron	Avg. Monthly	mg/l	3	10.6	3.53
2008	June, 2008 (2 violations)	001	Iron	Max. Daily	mg/l	6	20.6	3.43
	, ,,		***	,	6,	-	3.5	- 12

Quarter	DATE	Outfall	Parameter	Type of Limit	Units	Permit Limit	Reported Discharge	Exceedence to Limit Ratio
	January, 2012	016	Manganese	Avg. Monthly	mg/l	1	1.8	1.80
Q1	February, 2012	016	Manganese	Avg. Monthly	mg/l	1	2	2.00
2012	Jan. 4, 2012	016	Manganese	Max. Daily	mg/l	2	3.1	1.55
	Feb. 15, 2012	016	Manganese	Max. Daily	mg/l	2	2.6	1.30
	October, 2011	016	Manganese	Avg. Monthly	mg/l	1	3.2	3.20
	November, 2011	016	Manganese	Avg. Monthly	mg/l	1	2.2	2.20
Q4	December, 2011	016	Manganese	Avg. Monthly	mg/l	1	3.2	3.20
2011	October, 2011 (2 violations)	016	Manganese	Max. Daily	mg/l	2	3.9	1.95
	November, 2011	016	Manganese	Max. Daily	mg/l	2	4.2	2.10
	December, 2011 (2 violations)	016	Manganese	Max. Daily	mg/l	2	3.6	1.80
	July, 2011	016	Manganese	Avg. Monthly	mg/l	1	1.8	1.80
	August, 2011	016	Manganese	Avg. Monthly	mg/l	1	1.3	1.30
Q3	September, 2011	016	Manganese	Avg. Monthly	mg/l	1	1.9	1.90
2011	July 15, 2011	016	Manganese	Max. Daily	mg/l	2	3	1.50
	Aug. 2, 2011	016	Manganese	Max. Daily	mg/l	2	2.3	1.15
	Sept. 12, 2011	016	Manganese	Max. Daily	mg/l	2	2.5	1.25
	May, 2011	016	Manganese	Avg. Monthly	mg/l	1	2.5	2.50
Q2	June, 2011	016	Manganese	Avg. Monthly	mg/l	1	1.4	1.40
2011	May 3 and 12, 2011	016	Manganese	Max. Daily	mg/l	2	2.9	1.45
Q1	January, 2011	016	Manganese	Avg. Monthly	mg/l	1	2.6	2.60
2011	Jan. 4 and 13, 2011	016	Manganese	Max. Daily	mg/l	2	3	1.50
2011	October, 2010	016	Manganese	Avg. Monthly	mg/l	1	2.2	2.20
Q4	December, 2010	016	Manganese	Avg. Monthly	mg/l	1	2.2	2.20
2010	October, 2010	016	Manganese	Max. Daily	mg/l	2	2.7	1.35
2010	December, 2010 (2 violations)	016	Manganese	Max. Daily	mg/l	2	2.7	1.15
Q3	August, 2010 (2 violations)	016	Manganese	Avg. Monthly	mg/l	1	1.8	1.13
2010	Aug. 3, 2010	016	Manganese	Max. Daily	mg/l	2	2.4	1.20
	January, 2010	016	Manganese	Avg. Monthly	mg/l	1	1.1	1.10
	October, 2008	016	Manganese	Avg. Monthly	mg/l	1	1.1	1.10
Q4 2008 Q2	June, 2012	015		Avg. Monthly	-	1	2.6	2.60
2012	June 6 and 19, 2012	015	Manganese	Max. Daily	mg/l	2	2.0	1.35
Q4	November, 2010	015	Manganese	Avg. Monthly	mg/l	1		3.00
2010	Nov. 16, 2010	015	Manganese	<u> </u>	mg/l	2	3	1.50
			Manganese	Max. Daily	mg/l	1	1.4	
Q2	April, 2012	009	Manganese	Avg. Monthly	mg/l	1		1.40
2012	May, 2012	009	Manganese	Avg. Monthly Avg. Monthly	mg/l	_	1.4	1.40
Q2	June, 2012	006	Manganese	,	mg/l	1.5	6.3	4.20
2012	June 6, 2012	006	Manganese	Max. Daily	mg/l	3	6.3	2.10
Q4 2010	December, 2010	001	Manganese	Avg. Monthly	mg/l	2	2.2	1.10
Q2 2008	June, 2008	001	Manganese	Avg. Monthly	mg/l	2	2.3	1.15
	June, 2008 (2 violations)	001	Manganese	Max. Daily	mg/l	4	4.6	1.15
	December 2011	04.5	A1	A . A4 .11	/1	0.5	0.0	4.22
Q4 2011	December, 2011	016	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
	December, 2011 (2 violations)	016	Aluminum	Max. Daily	mg/l	1	1.1	1.10
	April, 2011	016	Aluminum	Avg. Monthly	mg/l	0.5	0.7	1.40
	December, 2010	016	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
	July, 2010	016	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
Q4	December, 2009	016	Aluminum	Avg. Monthly	mg/l	0.5	1.7	3.40
2009	December, 2009 (2 violations)	016	Aluminum	Max. Daily	mg/l	1	3.3	3.30

Quarter	DATE	Outfall	Parameter	Type of Limit	Units	Permit Limit	Reported Discharge	Exceedence to Limit Ratio
	January, 2012	015	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
Q1	February, 2012	015	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
2012	March, 2012	015	Aluminum	Avg. Monthly	mg/l	0.5	3.4	6.80
	March 5 and 15, 2012	015	Aluminum	Max. Daily	mg/l	1	5.7	5.70
Q4	November, 2011	015	Aluminum	Avg. Monthly	mg/l	0.5	0.8	1.60
2011	December, 2011	015	Aluminum	Avg. Monthly	mg/l	0.5	0.7	1.40
	January, 2008	014	Aluminum	Avg. Monthly	mg/l	1.7	1.91	1.12
	December, 2010	013	Aluminum	Avg. Monthly	mg/l	0.5	0.7	1.40
Q3 2010	August, 2010	013	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
	June, 2010	013	Aluminum	Avg. Monthly	mg/l	0.5	0.6	1.20
	December, 2007	007	Aluminum	Avg. Monthly	mg/l	0.5	0.57	1.14
	May, 2012	006	Aluminum	Avg. Monthly	mg/l	0.8	1.1	1.38
	December, 2010	002	Aluminum	Avg. Monthly	mg/l	0.7	1.1	1.57
	January, 2010	002	Aluminum	Avg. Monthly	mg/l	0.7	0.8	1.14
Q4	October, 2009	002	Aluminum	Avg. Monthly	mg/l	0.7	1.9	2.71
2009	Oct. 5, 2009	002	Aluminum	Max. Daily	mg/l	1.4	1.9	1.36
Q1	January, 2008	002	Aluminum	Avg. Monthly	mg/l	0.7	1.17	1.67
2008	January, 2008	002	Aluminum	Max. Daily	mg/l	1.4	2.16	1.54
2000	3411441 y, 2000	002	7 (Idillillidill	Wax. Bany	1118/1	211	2.10	1.5 1
02 2012	April, 2012	016	Total Suspended Solids	Avg. Monthly	mg/l	35	36	1.03
Q1 2011	February, 2011	016	Total Suspended Solids	Avg. Monthly	mg/l	35	50	1.43
Q1 2011 Q4	December, 2010	016	Total Suspended Solids	Avg. Monthly	mg/l	35	50	1.43
2010	November, 2010	016	Total Suspended Solids	Max. Daily	mg/l	35	40	1.14
2010	January, 2010	016	Total Suspended Solids	Avg. Monthly	mg/l	35	72	2.06
Q1	February, 2010	016	Total Suspended Solids	Avg. Monthly	mg/l	35	40	1.14
2010	January, 2010 (2 violations)	016	Total Suspended Solids	Max. Daily	mg/l	70	102	1.46
2010	February, 2010 (2 violations)	016	Total Suspended Solids	Max. Daily	mg/l	70	78	1.11
04 2009	December, 2009	016	Total Suspended Solids	Avg. Monthly	mg/l	35	46	1.31
Q4 2003	March, 2012	015	Total Suspended Solids	Avg. Monthly	mg/l	35	82	2.34
2012	March 5 and 15, 2012	015	Total Suspended Solids	Max. Daily	mg/l	70	119	1.70
Q1	January, 2008	013	Total Suspended Solids	Avg. Monthly	mg/l	35	41	1.17
2008	January, 2008	014	Total Suspended Solids	Max. Daily	mg/l	70	81	1.17
2008		006	Total Suspended Solids			35	110	3.14
02	May, 2012	006	Total Suspended Solids	Avg. Monthly Avg. Monthly	mg/l	35	213	6.09
Q2 2012	June, 2012	006	•		mg/l	70	189	2.70
2012	May 1, 2012	006	Total Suspended Solids	Max. Daily Max. Daily	mg/l	70	213	3.04
02 2011	June 6, 2012 April, 2011	006	Total Suspended Solids Total Suspended Solids	•	mg/l	35	52	
	October, 2011		Total Suspended Solids	Avg. Monthly	mg/l	35	37	1.49
		002	'	Avg. Monthly	mg/l	1		1.06
Q2	April, 2011	002	Total Suspended Solids	Avg. Monthly	mg/l	35	58	1.66
2011	Apr. 19, 2011	002	Total Suspended Solids	Max. Daily	mg/l	70	76 76	1.09
01	January, 2011	002	Total Suspended Solids	Avg. Monthly	mg/l	35	76	2.17
Q1	February, 2011	002	Total Suspended Solids	Avg. Monthly	mg/l	35	76	2.17
2011	Jan. 13, 2011	002	Total Suspended Solids	Max. Daily	mg/l	70	84	1.20
040040	Feb. 8, 2011	002	Total Suspended Solids	Max. Daily	mg/l	70	76	1.09
	December, 2010	002	Total Suspended Solids	Avg. Monthly	mg/l	35	52	1.49
	January, 2010	002	Total Suspended Solids	Avg. Monthly	mg/l	35	44 62.5	1.26
Q1	January, 2008	002	Total Suspended Solids	Avg. Monthly	mg/l	35	63.5	1.81
2008	February, 2008	002	Total Suspended Solids	Avg. Monthly	mg/l	35	56	1.60
Q4 2007	December, 2007	002	Total Suspended Solids	Avg. Monthly	mg/l	35	44	1.26
Q3	August, 2010	001	Total Suspended Solids	Avg. Monthly	mg/l	35	77	2.20
2010	Aug. 3, 2010	001	Total Suspended Solids	Max. Daily	mg/l	70	152	2.17
Q1	January, 2009	001	Total Suspended Solids	Avg. Monthly	mg/l	35	57	1.63
2009	January, 2009 (2 violations)	001	Total Suspended Solids	Max. Daily	mg/l	70	90	1.29

 Table 2

 Monitoring Frequency Violations by Emerald Mine #1

 (Sourced from DMRs for Clean Water Act Permit #PA0213438)

Quarter	DATE	Outfall	Parameter	Type of Limit	Req'd #	Permit Violation
Q2	April, 2012	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2012	May, 2012	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2012	June, 2012	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2	April, 2009	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2009	April, 2009	017	Monitoring Freq., Alkalinity	Req'd # Measurements	at least 1x/mo.	Failed to monitor and/or report
Q1	January, 2009	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2009	February, 2009	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q4 2008	December, 2008	017	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2 2012	May, 2012	012	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2	April, 2012	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2012	May, 2012	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q3 2011	September, 2011	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2 2009	April, 2009	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
01	January, 2009	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2009	February, 2009	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
2009	March, 2009	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2 2008	April, 2008	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report
Q2 2008	June, 2008	004	Monitoring Freq., SS	Req'd # Measurements	1x/mo.	Failed to monitor and/or report