

**IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
CHARLESTON DIVISION**

UNITED STATES OF AMERICA; the STATE OF WEST)
 VIRGINIA, by and through the WEST VIRGINIA)
 DEPARTMENT OF ENVIRONMENTAL PROTECTION; the)
 COMMONWEALTH OF VIRGINIA, and the)
 PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL)
 PROTECTION,)

Civil Action No. _____

Plaintiffs,)

v.)

COMPLAINT

ARCH COAL, INC.; HAWTHORNE COAL CO., INC.; ICG)
 BECKLEY, LLC; ICG EAST KENTUCKY, LLC; ICG)
 EASTERN, LLC; ICG KNOTT COUNTY, LLC; ICG)
 TYGART VALLEY, LLC; JULIANA MINING COMPANY,)
 INC.; KING KNOB COAL CO., INC.; PATRIOT MINING)
 COMPANY, INC.; POWELL MOUNTAIN ENERGY, LLC;)
 THE SYCAMORE GROUP, LLC; VINDEK ENERGY)
 CORP.; WHITE WOLF ENERGY, INC.; and WOLF RUN)
 MINING CO.,)

Defendants.)

The United States of America (“United States”), by authority of the Attorney General of the United States and on behalf of the Administrator of the United States Environmental Protection Agency (“EPA”), the State of West Virginia, by and through the West Virginia Department of Environmental Protection (“WVDEP”), the Commonwealth of Virginia, and the Pennsylvania Department of Environmental Protection (“PADEP”) (collectively, “Plaintiffs”), file this Complaint and allege as follows:

INTRODUCTION

1. This is a civil action brought pursuant to Section 309(b) and (d) of the Federal

Water Pollution Control Act (“Clean Water Act” or the “CWA”), 33 U.S.C. §§ 1319(b) and (d); Section 22 of the West Virginia Water Pollution Control Act (“WPCA”), W.Va. Code § 22-11-22; the Virginia State Water Control Law (“SWCL”), Va. Code §§ 62.1-44.23 and 62.1-44.32, as incorporated into Va. Code § 45.1-254; and Sections 601 and 605 of the Pennsylvania Clean Streams Law (“PCSL”), 35 P.S. §§ 691.601 and 691.605. Plaintiffs allege that Defendants have violated Section 301 of the CWA, 33 U.S.C. § 1311, W.Va. Code § 22-11-8, Va. Code § 62.1-44.5, and 35 P.S. §§ 691.301, 691.307, 691.315 by discharging pollutants into waters of the United States, and of the State of West Virginia and the Commonwealths of Virginia and Pennsylvania (collectively, the “States”), in violation of the conditions and limitations of National Pollutant Discharge Elimination System (“NPDES”) permits issued pursuant to 33 U.S.C. § 1342, W.Va. Code § 22-11-8, Va. Code § 45.1-254, and 35 P.S. §§ 691.307 and 691.315.

2. Plaintiffs seek permanent injunctive relief and civil penalties against Defendants to address their illegal discharges of pollutants into waters of the United States and of the States, as authorized by Sections 309(b) and (d) of the CWA, 33 U.S.C. §§ 1319(b) and (d); Section 22 of the WPCA, W.Va. Code § 22-11-22; Va. Code §§ 62.1-44.23, 62.1-44.32, and 45.1-254; and 35 P.S. §§ 691.601 and 691.605.

JURISDICTION AND VENUE

3. This Court has jurisdiction over the subject matter of this action under Section 309(b) of the CWA, 33 U.S.C. § 1319(b), and under 28 U.S.C. §§ 1331, 1345, 1355, and 1367.

4. Venue is proper in the Southern District of West Virginia pursuant to 28 U.S.C. §§ 1391(b) and (c) and 1395(a), as well as Section 309(b) of the CWA, 33 U.S.C. § 1319(b),

because it is the judicial district in which Defendants are located, reside, and/or are doing business, and/or in which the majority of the violations alleged in the Complaint occurred.

5. Notice of commencement of this action has been given to West Virginia, Kentucky, Maryland, Pennsylvania, and Virginia in accordance with Section 309(b) of the CWA, 33 U.S.C. § 1319(b).

DEFENDANTS

6. Arch Coal, Inc. (“Arch”) is a Delaware corporation with its principal place of business at Cityplace One, Suite 300, St. Louis, MO 43141.

7. Hawthorne Coal Co., Inc. is a West Virginia corporation with its principal office location at 2708 Cranberry Square, Morgantown, West Virginia 26508.

8. ICG Beckley, LLC is a Delaware corporation with its principal place of business at Cityplace One, Suite 300, St. Louis, Missouri 43141.

9. ICG East Kentucky, LLC is a Delaware corporation with an office location at 13778 River Front Road, Belfry, Kentucky 41514.

10. ICG Eastern, LLC is a Delaware corporation with an office location at Route 82 West, Cowen, West Virginia 26206.

11. ICG Knott County, LLC is a Delaware corporation with an office location at 11100 Highway 7 South, Kite, Kentucky 41828.

12. ICG Tygart Valley, LLC is a Delaware corporation with an office location at 1200 Tygart Drive, Graftown, West Virginia 26354.

13. Juliana Mining Company, Inc. is a West Virginia corporation with its principal office location at 96 Erbacon Road, Cowen, West Virginia 26206.

14. King Knob Coal Company, Inc. is a West Virginia corporation with its principal office location at 2708 Cranberry Square, Morgantown, West Virginia 26508.

15. Patriot Mining Company, Inc. is a West Virginia corporation with an office location at 2708 Cranberry Square, Morgantown, West Virginia 26508.

16. Powell Mountain Energy, LLC is a Delaware corporation with an office location at 1762 Bonny Blue Road, St. Charles, Virginia 24282.

17. The Sycamore Group, LLC is a West Virginia corporation with its principal office address of P.O. Box 549, Dellslow, West Virginia 26531.

18. Vindex Energy Corp. is a West Virginia corporation with an office location at 265A Glass Drive, Mountain Lake Park, Maryland 21550.

19. White Wolf Energy, Inc. is a Virginia corporation with its principal office address at Cityplace One, Suite 300, St. Louis, Missouri 63141.

20. Wolf Run Mining Co. is a West Virginia corporation with its principal office address at 99 Edmiston Way, Suite 211, Buckhannon, West Virginia 26201.

STATUTORY AND REGULATORY REQUIREMENTS

Clean Water Act

21. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the “discharge of any pollutant by any person” to waters of the United States, except, *inter alia*, in compliance with an NPDES permit issued by EPA or an authorized state pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

22. Section 402 of the CWA, 33 U.S.C. § 1342, provides that the permit-issuing authority may issue an NPDES permit that authorizes the discharge of any pollutant to waters of

the United States, upon the condition that such discharge will meet all applicable requirements of the CWA and such other conditions as the permitting authority determines necessary to carry out the provisions of the CWA.

23. Section 402(a)(2) of the CWA directs the Administrator to prescribe conditions and limitations, including effluent limitations, for NPDES permits to ensure compliance with the requirements of the CWA. 33 U.S.C. § 1342(a)(2); *see also* 33 U.S.C. § 1311. Effluent limitations, as defined in Section 502(11) of the CWA, 33 U.S.C. § 1362(11), are restrictions on quantity, rate, and concentration of chemical, physical, biological, and other constituents which are discharged from point sources.

24. Section 301(b) of the CWA, 33 U.S.C. § 1311(b), directs the Administrator to set effluent limitations for categories and classes of point sources based on the best practicable control technology or the best available technology economically achievable for such category or class. In 1985, EPA set effluent limitations guidelines (“ELGs”) for discharges from coal mining point sources. *See* 40 C.F.R. Part 434; 50 Fed. Reg. 41296-01 (Oct. 9, 1985). The ELGs prescribe “maximum for any 1 day” and “average of daily values for 30 consecutive days” numeric effluent limits for, *inter alia*, iron, total suspended solids, pH, and manganese. Discharges with a pH above or below the range set forth in the applicable ELGs (generally within the range of 6.0 to 9.0 at all times) are violations of the daily maximum or daily minimum limits in Defendants’ NPDES permits.

25. Section 303(a) of the CWA, 33 U.S.C. § 1313(a), requires that states adopt ambient water quality standards and establish water quality criteria for particular water bodies that will protect the designated uses of the water. When technology-based ELGs are insufficient

to keep receiving waters within those levels, the NPDES permit must include stricter water quality based effluent limits that reflect water quality standards and criteria. 33 U.S.C. § 1311(b)(1)(C); *see also* 47 C.S.R. § 2-1, *et seq.* (West Virginia water quality standards); 25 Pa. Code Chapter 93 (Pennsylvania water quality standards); 401 Ky. Admin. Regs. § 10:1001, *et seq.* (Kentucky water quality standards); 9 Va. Admin. Code 25-260 & 4 Va. Admin. Code 25-130-816.42 (Virginia water quality standards); Md. Regs. Code tit. 26.08.02 (Maryland water quality standards).

26. Section 309(b) of the CWA, 33 U.S.C. § 1319(b), authorizes the Administrator to commence a civil action for appropriate relief, including a permanent or temporary injunction, against any person who violates Section 301 of the CWA, 33 U.S.C. § 1311, or violates any permit condition or limitation in a permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

27. Section 309(d) of the CWA, 33 U.S.C. § 1319(d), provides that any person who violates Section 301 of the CWA, 33 U.S.C. § 1311, or violates any permit condition or limitation in a permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342, shall be subject to a civil penalty payable to the United States of up to \$25,000 per day for each violation.

28. Pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, 28 U.S.C. § 2461 note, as amended by the Debt Collection Improvement Act of 1996, 31 U.S.C. § 3701 note, 69 Fed. Reg. 7121 (February 13, 2004), 74 Fed. Reg. 626 (January 7, 2009), and 40 C.F.R. § 19, EPA may seek civil penalties of up to \$32,500 per day for each violation occurring between March 15, 2004 and January 12, 2009, and up to \$37,500 per day for each violation occurring after January 12, 2009.

West Virginia Pollution Control Act

29. At all relevant times, the State of West Virginia has been authorized by EPA to administer an NPDES program for regulating the discharges of pollutants to navigable waters within the state's jurisdiction. 47 Fed. Reg. 22363-01 (May 24, 1982). Pursuant to W.Va. Code §§ 22-1-5, 22-1-7, and 22-11-4, WVDEP is the state regulatory agency that administers the NPDES permit program in West Virginia.

30. Section 8 of the WPCA, W.Va. Code § 22-11-8, prohibits the discharge of any pollutant by any person into waters of the State of West Virginia, except, *inter alia*, in compliance with applicable water quality standards and effluent limitations as required by a West Virginia NPDES permit issued pursuant to the WPCA.

31. Section 22 of the WPCA, W.Va. Code § 22-11-22, authorizes WVDEP to commence a civil action for injunctive relief to compel compliance with and enjoin violations of any provision of the WPCA or any term or condition of an NPDES permit issued under the WPCA. Section 22 of the WPCA also provides that any person who violates any provision of an NPDES permit issued pursuant to Section 8 of the WPCA, W.Va. Code § 22-11-8, is subject to a civil penalty of up to \$25,000 per day for each violation.

Virginia State Water Control Law

32. At all relevant times, the Commonwealth of Virginia has been authorized by EPA to administer an NPDES program for regulating the discharges of pollutants to navigable waters within the state's jurisdiction. 40 Fed. Reg. 20129-02 (May 8, 1975).

33. The Virginia Coal Surface Mining Control and Reclamation Act ("VCSMCRA"), Va. Code § 45.1-254, provides that the authority to issue, amend, revoke, and enforce NPDES

permits under the SWCL for the discharge of sewage, industrial wastes, and other wastes from coal surface mining operations is vested in the Virginia Department of Mines, Minerals, and Energy (“VADMME”). *See also* 48 Fed. Reg. 48826-01 (Oct. 21, 1983) (approving transfer of regulatory authority for Virginia’s NPDES program to VADMME).

34. Va. Code § 62.1-44.5, incorporated by reference in Va. Code § 45.1-254, prohibits waste discharges and other degradations in quality of state waters except in compliance with a Virginia NPDES permit.

35. Va. Code § 62.1-44.23, incorporated by reference in Va. Code § 45.1-254, authorizes Virginia to commence a civil action for injunctive relief to compel compliance with the terms or conditions of an NPDES permit.

36. Va. Code § 62.1-44.32, incorporated by reference in Va. Code § 45.1-254, provides that any person who violates any provision of an NPDES permit is subject to a civil penalty of up to \$32,500 per violation per day.

Pennsylvania Clean Streams Law

37. At all relevant times, the Commonwealth of Pennsylvania has been authorized by EPA pursuant to Section 402(b) of the CWA, 33 U.S.C. § 1342(b), to administer an NPDES program for regulating the discharges of pollutants to navigable waters within the jurisdiction of the Commonwealth. Pursuant to 25 Pa. Code Chapter 92a, PADEP is the agency that administers the NPDES permit program in Pennsylvania.

38. Sections 301, 307, and 315 of the PCSL, 35 P.S. §§ 691.301, 691.307, and 691.315, prohibit the discharge by any person of any pollutant from a mine into waters of the Commonwealth of Pennsylvania, except, *inter alia*, in compliance with applicable water quality

standards and effluent limitations as required by a Pennsylvania NPDES permit issued pursuant to the PCSL and its implementing regulations.

39. Section 601 of the PCSL, 35 P.S. § 691.601, authorizes PADEP to commence a civil action for injunctive relief to compel compliance with and enjoin violations of any provision of the PCSL or any term or condition of an NPDES permit issued under the PCSL. Section 605 of the PCSL, 35 P.S. § 691.605, also provides that any person who violates any provision of an NPDES permit issued pursuant to the PCSL or its implementing regulations is subject to a civil penalty of up to \$10,000 per day for each violation.

CORPORATE HISTORY AND PREVIOUS ENFORCEMENT MATTERS

40. Prior to June 15, 2011, International Coal Group, Inc. (“ICG”) owned Hawthorne Coal Co., Inc.; ICG Beckley, LLC; ICG East Kentucky, LLC; ICG Eastern, LLC; ICG Knott County, LLC; ICG Tygart Valley, LLC; Juliana Mining Company, Inc.; King Knob Coal Co., Inc.; Patriot Mining Company, Inc.; Powell Mountain Energy, LLC; The Sycamore Group, LLC; Vindex Energy Corp.; White Wolf Energy, Inc.; and Wolf Run Mining Co. (collectively, the “ICG Subsidiaries”).

41. The ICG Subsidiaries have a significant history of non-compliance with the CWA.

42. Pursuant to the WPCA, the WVDEP entered into numerous administrative consent orders and judicial consent decrees with ICG Subsidiaries to address violations of conditions and limitations in their respective NPDES permits, including violations of effluent limits:

- a. On July 11, 2008, WVDEP issued the following orders to address NPDES

permit violations by ICG Subsidiaries: Order No. M-08-012 (Hawthorne Coal Co., Inc.); Order M-08-013 (ICG Eastern, LLC); Order M-08-014 (Juliana Mining Company, Inc.); Order M-08-015 (King Knob Coal Co.); Order M-08-016 (Patriot Mining Company, Inc.); Order M-08-017 (Vindex Energy Corp.); and Order M-08-018 (Wolf Run Mining Co.). Collectively, the orders resolved over 250 effluent limit violations.

b. On April 18, 2011 and November 4, 2011, the Circuit Court of Webster County, West Virginia entered a Consent Decree and Supplemental Consent Decree between WVDEP and ICG Eastern, LLC in Civil Action No. 10-C-20 (the “ICG Eastern Decrees”). The ICG Eastern Decrees resolved over 70 effluent limit violations.

c. On August 5, 2011, the Circuit Court of Upshur County, West Virginia entered a Consent Decree between WVDEP and Hawthorne Coal Company, Inc. in Civil Action No. 10-C-57. The Hawthorne Consent Decree resolved over 30 effluent limit violations.

43. There have also been multiple enforcement actions filed in Kentucky against ICG Knott County, LLC; ICG East Kentucky, LLC; and Powell Mountain, LLC (the “Kentucky ICG Subsidiaries”):

a. On December 3, 2010, the Kentucky Energy and Environment Cabinet filed a complaint in the Franklin Circuit Court, case No. 10-CI-01868 against the Kentucky ICG Subsidiaries, alleging violations of reporting and monitoring requirements in applicable NPDES permits.

b. On August 26, 2011, the Kentucky Energy and Environment Cabinet filed an Administrative Complaint in the Cabinet’s Office of Administrative Hearings, File Number DOW-33598-047 against the Kentucky ICG Subsidiaries alleging additional NPDES permit

violations, including effluent limit violations and failure to monitor and report discharges in accordance with permit terms and conditions.

c. On October 25, 2011, Appalachian Voices filed a citizen suit against the Kentucky ICG Subsidiaries in the United States District Court for the Eastern District of Kentucky, Case No. 7:11-cv-168, also alleging NPDES permit violations.

44. The Kentucky enforcement actions identified in Paragraph 43 were collectively resolved by a Consent Judgment in Civil Action No. 10-CI-01868, entered on October 10, 2012 (the “Kentucky Consent Judgment”). The Kentucky Consent Judgment did not include injunctive relief specifically designed to achieve compliance with effluent limits in applicable NPDES permits.

45. On June 15, 2011, Arch acquired ICG in its entirety, including the ICG Subsidiaries.

46. Prior to acquiring ICG, Arch also had a history of noncompliance with the CWA. On March 1, 2011, the United States, West Virginia, and Kentucky concurrently filed a complaint and lodged a Consent Decree against Arch and its subsidiaries with operations in West Virginia, Virginia, and Kentucky resolving over 800 violations of the CWA and related State statutes. 2:11-CV-00133 (S.D. W.Va.).

GENERAL ALLEGATIONS

47. The Defendants named herein are “persons” within the meaning of Section 502(5) of the CWA, 33 U.S.C. § 1362(5); W.Va. Code § 22-11-3(15); Va. Code § 62.1-44.3; and 35 P.S. § 691.1.

48. Since June 15, 2011, Arch has taken responsibility for the management, direction,

and control of environmental compliance at the facilities owned and/or operated by the ICG Subsidiaries. This includes implementing a company-wide compliance management system, conducting environmental audits of the mining facilities, directly overseeing and managing environmental compliance staff, holding annual company-wide environmental summits, communicating directly with state and federal regulators regarding environmental compliance issues at the mining operations, and providing training for individuals with environmental responsibilities at the mines. As a result, Arch is jointly and several liable with the ICG Subsidiaries for CWA violations at the facilities owned and/or operated by the ICG Subsidiaries.

49. At all relevant times, Defendants did business in West Virginia, Kentucky, Maryland, Pennsylvania, and/or Virginia.

50. Defendants own and/or operate coal mining, processing, and/or shipping operations, and/or facilities. As a result of their coal mining and processing operations, Defendants generate coal slurry, wastewater, and other excess materials that are, or contain, various “pollutants,” as that term is defined in Section 502(6) of the CWA, 33 U.S.C. § 1362(6), and 40 C.F.R. § 122.2, W.Va. Code § 22-11-3(17), and 35 P.S. § 691.1, and “industrial wastes,” as that term is defined in Va. Code § 62.1-44.3, incorporated by reference in Va. Code § 45.1-254(H). These pollutants and industrial wastes include aluminum, iron, manganese, total suspended solids, and pH. *See* Appendix A and Appendix B.

51. The ICG Subsidiaries obtained NPDES permits from West Virginia, Kentucky, Maryland, Pennsylvania, and Virginia. The respective NPDES permits contain effluent limitations prohibiting discharges of specified pollutants in excess of numeric monthly average or daily maximum limits, and prohibiting discharges of specified pollutants below daily

minimum limits. These limitations reflect ELGs and stricter water quality based effluent limits.

52. At all relevant times, Defendants have discharged pollutants from various impoundments and settlement ponds, outlets, ditches, and other conveyances that are “point sources” within the meaning of Section 502(14) of the CWA, 33 U.S.C. § 1362(14), Section 3(16) of the WPCA, W.Va. Code § 22-11-3(16), and 25 Pa. Code § 92a.2, into streams, rivers, and other waters of the United States, within the meaning of Section 502(7) of the CWA, 33 U.S.C. § 1362(7), and the federal regulations implementing the CWA at 40 C.F.R. § 122.2, as well as waters of the states within the meaning of W.Va. Code § 22-11-3(23), Va. Code § 62.1-44.3, incorporated by reference in Va. Code § 45.1-254, and 35 P.S. § 691.1.

53. The receiving waters into which Defendants have discharged pollutants are identified by NPDES permit number and outlet location in Appendices A and B to this Complaint. Each of these receiving waters either (a) directly discharges to a traditionally navigable water, (b) is a perennial tributary to a traditionally navigable water, or (c) flows into a perennial tributary to a traditionally navigable water. *See* Appendix C.

FIRST CLAIM FOR RELIEF

Maryland, Pennsylvania, Virginia, and West Virginia Operations

54. Paragraphs 1-53 are realleged and incorporated by reference.

55. This first claim for relief applies to Defendants Arch, Hawthorne Coal Co., Inc.; ICG Beckley, LLC; ICG Eastern, LLC; ICG Tygart Valley, LLC; Juliana Mining Company, Inc.; King Knob Coal Company, Inc.; Patriot Mining Co., Inc.; Powell Mountain Energy, LLC; The Sycamore Group, LLC; Vindex Energy Corp.; White Wolf Energy, Inc.; and Wolf Run Mining Co. (the “Claim One Defendants”) with respect to their coal mining operations in Maryland, Pennsylvania, Virginia, and West Virginia.

56. During the period relevant to this Complaint, the Claim One Defendants have discharged and likely will continue to discharge pollutants from point sources in excess of effluent limitations into waters of the United States and/or the States.

57. Claim One Defendants have exceeded effluent limitations contained in NPDES permits issued by West Virginia, Maryland, Virginia, or Pennsylvania at least 234 times for daily maximum or minimum effluent limitations and at least 255 times for monthly average effluent limitations between January 2007 and March 31, 2015. *See* Appendix A1 and Appendix A2. Appendix A does not include the violations resolved in the settlements identified by Paragraph 42.

58. For each exceedance of an effluent limitation, Claim One Defendants are in violation of Section 301 of the CWA, 42 U.S.C. § 1311, for discharging in violation of the conditions and limitations of the applicable NPDES permit under Section 402 of the CWA, 42 U.S.C. § 1342.

59. Claim One Defendants' discharges of pollutants in excess of effluent limitations contained in the applicable NPDES permits issued by West Virginia constitute violations of W.Va. Code § 22-11-8.

60. Claim One Defendants' discharges of pollutants in excess of effluent limitations contained in the applicable NPDES permits issued by Virginia constitute violations of Va. Code § 62.1-44.5.

61. Claim One Defendants' discharges of pollutants in excess of effluent limitations contained in applicable NPDES permits issued by Pennsylvania constitute violations of 35 P.S. §§ 691.307 and 691.315.

62. Unless enjoined, Claim One Defendants' violations will continue.

63. Pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b); W.Va. Code § 22-11-22; Va. Code § 62.1-44.23, incorporated by reference into Va. Code § 45.1-254, and 35 P.S. §691.601, Claim One Defendants are liable for permanent injunctive relief.

64. Pursuant to Section 309(d) of the CWA, 33 U.S.C. § 1319(d), Claim One Defendants are liable for civil penalties of up to \$32,500 per day of violation for all violations occurring between March 15, 2004 and January 12, 2009, and up to \$37,500 per day of violation for all violations occurring after January 12, 2009.

65. Under Section 22 of the WPCA, W.Va. Code § 22-11-22, Claim One Defendants are liable for civil penalties of up to \$25,000 per day for each violation.

66. Under Va. Code § 62.1-44.32, incorporated by reference into Va. Code § 45.1-254, Claim One Defendants are liable for civil penalties up to \$32,500 per day for each violation.

67. Under 35 P.S. §691.605, Claim One Defendants are liable for civil penalties of up to \$10,000 per day for each violation.

68. Appendix A2 identifies those violations for which Claim One Defendants have paid stipulated penalties pursuant to the settlements identified in Paragraph 42 of this Complaint. Plaintiffs do not seek additional civil penalties for violations identified in Appendix A2.

SECOND CLAIM FOR RELIEF
Kentucky Operations

69. Paragraphs 1-53 are realleged and incorporated by reference.

70. This second claim for relief applies to Defendants Arch; ICG East Kentucky, LLC; ICG Knott County, LLC; and Powell Mountain Energy, LLC (the "Claim Two Defendants") with respect to their coal mining operations in Kentucky.

71. During the period relevant to this Complaint, the Claim Two Defendants have discharged and likely will continue to discharge pollutants from point sources in excess of effluent limitations into waters of the United States.

72. Claim Two Defendants have exceeded effluent limitations contained in NPDES permits issued by Kentucky at least 41 times for daily maximum or minimum effluent limitations and at least 30 times for monthly average effluent limitations between January 2011 and March 31, 2014. *See* Appendix B1 and Appendix B2.

73. For each exceedance of an effluent limitation, Claim Two Defendants are in violation of Section 301 of the CWA, 42 U.S.C. § 1311, for discharging in violation of the conditions and limitations of the applicable NPDES permit under Section 402 of the CWA, 42 U.S.C. § 1342.

74. The Kentucky Consent Judgment did not include injunctive relief requirements directed at remedying the harm caused by the Appendix B Violations or preventing future effluent limit violations.

75. Unless enjoined, Claim Two Defendants' violations will continue.

76. Pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b), Claim Two Defendants are liable for permanent injunctive relief.

77. Pursuant to Section 309(d) of the CWA, 33 U.S.C. § 1319(d), Claim Two Defendants are liable for civil penalties of up to \$32,500 per day of violation for all violations occurring between March 15, 2004 and January 12, 2009, and up to \$37,500 per day of violation for all violations occurring after January 12, 2009.

78. Under the Kentucky Consent Judgment, Claim Two Defendants have paid civil

penalties or stipulated penalties for the Appendix B2 Violations. The United States does not seek a civil penalty for the Appendix B2 Violations as part of this Complaint.

PRAYER FOR RELIEF

WHEREFORE, Plaintiffs, the United States of America, the State of West Virginia, the Commonwealth of Virginia, and the Pennsylvania Department of Environmental Protection respectfully pray that this Court:

1. Permanently enjoin Defendants from discharging pollutants except as expressly authorized by the CWA and the limitations and conditions of NPDES permits held by the ICG Subsidiaries.
2. Order Defendants to take all necessary steps to comply with the CWA, the WPCA, the SWCL, the PCSL, and the limitations and conditions of the applicable NPDES permits.
3. Assess civil penalties against Claim One Defendants up to \$32,500 per day for each violation of an NPDES permit that occurred between March 15, 2004 and January 12, 2009, and up to \$37,500 per day for each violation of an NPDES permit that occurred after January 12, 2009.
4. Assess civil penalties against Claim One Defendants up to \$25,000 per day for each violation under Section 22 of the WPCA, W.Va. Code § 22-11-22.
5. Assess civil penalties against Claim One Defendants up to \$32,500 per day for each violation under Va. Code § 62.1-44.32, incorporated by reference into Va. Code § 45.1-254.
6. Assess civil penalties against Claim One Defendants up to \$10,000 per day for each violation under 35 P.S. §691.605.

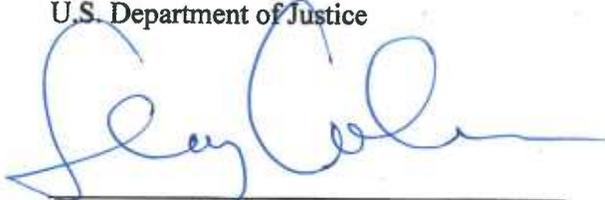
7. Grant such other relief as the Court may deem appropriate.

Respectfully submitted,

FOR THE UNITED STATES OF AMERICA



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Respectfully Submitted,

FOR THE STATE OF WEST VIRGINIA



Harold D. Ward

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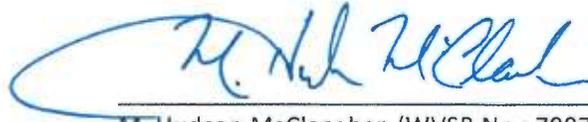
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Respectfully submitted,

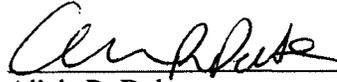
FOR THE COMMONWEALTH OF VIRGINIA



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Respectfully submitted,

FOR THE COMMONWEALTH OF PENNSYLVANIA

A handwritten signature in black ink, appearing to read 'Alicia R. Duke', written over a horizontal line.

Alicia R. Duke
Assistant Counsel
Office of Chief Counsel
Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

APPENDIX A-1 / A-2

United States et al. v. Arch Coal, Inc. et al.
 Complaint Appendix A1: Maryland Pennsylvania, Virginia, and West Virginia Operations
 Injunctive Relief and Civil Penalty

Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Hawthorne Coal Co., Inc.	Buckhannon Group	WV0039471	D-0184-00	001	12/31/2013	Iron	Daily	2.91	2.46	18.00%	38° 54' 18"	80° 13' 09"	Sawmill Run	Upper Buckhannon River	Hydro Group B-Aquatic Life, Warm Water Fishery, Trout Waters, Wetlands
Hawthorne Coal Co., Inc.	Buckhannon Group	WV0039471	D-0184-00	011	12/31/2013	Iron	Monthly	1.99	1.42	40.00%	38° 54' 18"	80° 13' 09"	Sawmill Run	Upper Buckhannon River	Hydro Group B-Aquatic Life, Warm Water Fishery, Trout Waters, Wetlands
Hawthorne Coal Co., Inc.	Buckhannon Group	WV0039471	D-0184-00	011	12/31/2013	Iron	Daily	3.84	2.46	56.00%	38° 54' 18"	80° 13' 09"	Sawmill Run	Upper Buckhannon River	Hydro Group B-Aquatic Life, Warm Water Fishery, Trout Waters, Wetlands
ICG Beckley, LLC	Beckley Complex	WV1015052	U-301-95	001	12/26/2008	Aluminum	Daily	0.75	0.78	4.00%	37° 46' 43"	81° 16' 10"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Beckley, LLC	Beckley Complex	WV1015052	U-301-95	001	12/26/2008	Aluminum	Monthly	0.43	0.47	9.30%	37° 46' 43"	81° 16' 10"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Beckley, LLC	Beckley Complex	WV1015052	U-301-95	001	12/31/2013	Aluminum	Monthly	0.46	0.43	6.98%	37° 46' 43"	81° 16' 10"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Beckley, LLC	Beckley Complex	WV1015052	U-301-95	001	3/13/2015	Aluminum	Daily	0.75	0.78	4%	37° 46' 43"	81° 16' 10"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Beckley, LLC	Beckley Complex	WV1015052	U-301-95	402	2/28/2014	Chlorine	Daily	40	28	42.86%	37° 46' 43"	81° 16' 10"	Millers Camp Branch	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	002	1/31/2014	Selenium	Monthly	4.92	4.7	4.68%	38-26-11	80-37-47	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	002	2/28/2014	Selenium	Monthly	5.47	4.7	16.38%	38-26-11	80-37-47	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	006	2/28/2014	Aluminum	Monthly	0.67	0.61	9.84%	38° 25' 40"	80° 36' 45"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	006	2/28/2014	Aluminum	Daily	1.18	1.06	11.32%	38° 25' 40"	80° 36' 45"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	035	4/26/2013	Selenium	Daily	8.2	9.1	10.98%	38-26-11	80-38-52	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	035	4/26/2013	Selenium	Monthly	4.7	9.1	93.62%	38-26-11	80-38-52	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV0094889	S-2019-88	035	1/31/2014	Selenium	Monthly	8.11	4.7	72.55%	38-26-11	80-38-52	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-238-76	016	1/31/2010	Manganese	Monthly	2	2.32	16.00%	38° 26' 37.0000"	80° 37' 5.0000"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-238-76	016	5/31/2011	Manganese	Daily	4	4.44	11.00%	38° 26' 37.0000"	80° 37' 5.0000"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-238-76	016	5/31/2011	Manganese	Monthly	2	2.681	34.05%	38° 26' 37.0000"	80° 37' 5.0000"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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ICG Eastern, LLC	Eastern Complex	WV0098868	S-238-76	041	12/31/2010	Manganese	Monthly	2	2.145	7.25%	38° 27' 1.0000"	80° 36' 36.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-2004-98	055	7/31/2008	Aluminum	Monthly	0.43	0.46	6.98%	38° 26' 28.0000"	80° 36' 58.0000"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-2004-98	055	12/31/2010	TSS	Monthly	35	40	14.29%	38° 26' 28.0000"	80° 36' 58.0000"	Oldhe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	063	3/31/2010	Manganese	Daily	4	11.1	177.50%	38° 27' 12.0000"	80° 36' 39.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	063	3/31/2010	Manganese	Monthly	2	5.91	195.50%	38° 27' 12.0000"	80° 36' 39.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	063	6/30/2010	Manganese	Daily	4	4.2	5.00%	38° 27' 12.0000"	80° 36' 39.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	063	6/30/2010	Manganese	Monthly	2	2.4	20.00%	38° 27' 12.0000"	80° 36' 39.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	064	3/31/2010	Aluminum	Monthly	0.73	1.21	65.75%	38° 25' 18.0000"	80° 29' 57.0000"	Back Fk	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	066	8/31/2008	Aluminum	Daily	0.75	0.76	1.33%	38° 27' 45.0000"	80° 35' 39.0000"	Cobb Run	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	066	8/31/2008	Aluminum	Monthly	0.43	0.59	37.21%	38° 27' 45.0000"	80° 35' 39.0000"	Cobb Run	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	066	9/30/2008	Aluminum	Daily	0.75	1.23	64.00%	38° 27' 45.0000"	80° 35' 39.0000"	Cobb Run	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV0098868	S-235-76	066	9/30/2008	Aluminum	Monthly	0.43	0.67	55.81%	38° 27' 45.0000"	80° 35' 39.0000"	Cobb Run	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	001	8/31/2009	Aluminum	Monthly	0.73	0.94	28.77%	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	001	10/31/2010	Manganese	Monthly	2	2.36	18.00%	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	001	7/31/2011	Manganese	Monthly	2	2.595	29.75%	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	001	7/1/2013	TSS	Monthly	120	35	242.86%	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	001	7/1/2013	TSS	Daily	240	70	242.86%	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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ICG Eastern, LLC	Eastern Complex	WV1011162	O-1030-91	002	8/31/2012	TSS	Daily	70	78	11.43%	38° 26' 1"	80° 33' 14"	Laurel Creek	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1058-91	005	6/30/2011	Iron	Daily	2.46	3.41	38.62%	38° 26' 21.0000"	80° 34' 40.0000"	Williams Branch	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1011162	O-1058-91	005	6/30/2011	Iron	Monthly	1.42	1.95	37.32%	38° 26' 21.0000"	80° 34' 40.0000"	Williams Branch	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	002	11/30/2011	Aluminum	Daily	1.29	1.63	26.36%	38° 26' 41.0000"	80° 37' 11.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	002	11/30/2011	TSS	Daily	70	96	37.14%	38° 26' 41.0000"	80° 37' 11.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	002	11/30/2011	Aluminum	Monthly	0.74	0.83	12.16%	38° 26' 41.0000"	80° 37' 11.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	002	11/30/2011	TSS	Monthly	35	49	40.00%	38° 26' 41.0000"	80° 37' 11.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	006	2/28/2011	Manganese	Monthly	2	2.635	31.75%	38° 26' 30.0000"	80° 37' 41.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	007	5/31/2012	TSS	Monthly	35	60	71.43%	38° 26' 27"	80° 37' 52"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	009	10/5/2007	Manganese	Daily	2.13	2.25	5.63%	38° 26' 31.0000"	80° 38' 4.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	009	10/5/2007	Aluminum	Monthly	0.43	0.45	4.65%	38° 26' 31.0000"	80° 38' 4.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	009	10/5/2007	Manganese	Monthly	1.23	1.7	38.21%	38° 26' 31.0000"	80° 38' 4.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	009	2/28/2010	Manganese	Monthly	2	2.53	26.50%	38° 26' 31.0000"	80° 38' 4.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	009	3/31/2010	Manganese	Monthly	2	2.79	39.50%	38° 26' 31.0000"	80° 38' 4.0000"	Oldbe FK	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	10/5/2007	Aluminum	Daily	0.75	0.81	8.00%	38° 26' 55.0000"	80° 37' 59.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	10/5/2007	Aluminum	Monthly	0.43	0.49	13.95%	38° 26' 55.0000"	80° 37' 59.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	7/31/2009	Manganese	Daily	4	6.19	54.75%	38° 26' 55.0000"	80° 37' 59.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	7/31/2009	Manganese	Monthly	2	5.35	167.50%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	10/31/2009	Manganese	Monthly	2	2.66	33.00%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	1/31/2010	Manganese	Daily	4	4.08	2.00%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	1/31/2010	Manganese	Monthly	2	2.49	24.50%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	5/31/2010	Manganese	Monthly	2	2.05	2.50%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	12/31/2010	Iron	Daily	2.46	3	21.95%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	016	12/31/2010	Iron	Monthly	1.42	1.58	11.27%	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/5/2007	Aluminum	Daily	0.75	1.1	46.67%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/5/2007	Aluminum	Monthly	0.43	0.61	41.86%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	2/13/2008	Aluminum	Daily	0.75	1.1	46.67%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	2/13/2008	Aluminum	Monthly	0.43	1.09	153.49%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/31/2008	Aluminum	Daily	1.39	3.46	148.92%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/31/2008	Iron	Daily	2.46	3.69	50.00%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/31/2008	Aluminum	Monthly	0.8	2.08	160.00%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	018	12/31/2008	Iron	Monthly	1.42	2.1	47.89%	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	020	12/31/2010	Manganese	Monthly	2	2.81	40.50%	38° 27' 19.0000"	80° 37' 37.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	023	12/28/2007	Manganese	Monthly	1	1.17	17.00%	38° 26' 19.0000"	80° 37' 12.0000"	O'Brien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	5/31/2009	Aluminum	Daily	1.39	1.66	19.42%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	5/31/2009	Iron	Daily	2.46	2.99	21.54%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	5/31/2009	Aluminum	Monthly	0.8	0.86	7.50%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	5/31/2009	Iron	Monthly	1.42	1.51	6.34%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	8/31/2009	Manganese	Daily	4	5.41	35.25%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	8/31/2009	Manganese	Monthly	2	3.71	85.50%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	12/31/2010	Manganese	Daily	4	4.24	6.00%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	12/31/2010	Manganese	Monthly	2	2.132	6.60%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	2/28/2011	TSS	Daily	70	76	8.57%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	024	2/28/2011	TSS	Monthly	35	40	14.29%	38° 27' 20.0000"	80° 37' 10.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017560	S-2003-02	027	2/13/2008	Aluminum	Monthly	0.43	0.53	23.26%	38° 27' 28.0000"	80° 36' 51.0000"	Obrien Fork	Big Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	005	12/31/2013	Aluminum	Monthly	0.33	0.31	6.45%	38° 27' 40"	80° 37' 29"	Unnamed Tributary of Birch River	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	005	2/28/2014	Aluminum	Monthly	1.25	0.31	303.23%	38° 27' 40"	80° 37' 29"	Unnamed Tributary of Birch River	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	005	2/28/2014	Aluminum	Daily	1.25	0.54	131.48%	38° 27' 40"	80° 37' 29"	Unnamed Tributary of Birch River	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	006	5/1/2012	TSS	Daily	70	106	51.43%	38° 27' 44"	80° 38' 59"	Birch River	Ek River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	006	5/31/2012	Iron	Monthly	1	1.53	53.00%	38° 27' 44"	80° 38' 59"	Birch River	Ek River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	006	5/31/2012	TSS	Monthly	35	106	202.86%	38° 27' 44"	80° 38' 59"	Birch River	Ek River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	015	5/31/2010	Iron	Daily	1.55	1.63	5.16%	38° 27' 8.0000"	80° 38' 22.0000"	Barnet Rn	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	015	5/31/2010	Iron	Monthly	0.9	1.63	81.11%	38° 27' 8.0000"	80° 38' 22.0000"	Barnet Rn	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	017	8/31/2009	Manganese	Monthly	2	2.75	37.50%	38° 27' 28.0000"	80° 38' 16.0000"	Cat Rn	Barnet Run	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	017	1/31/2010	Manganese	Monthly	2	2.22	11.00%	38° 27' 28.0000"	80° 38' 16.0000"	Cat Rn	Barnet Run	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	017	2/28/2013	Manganese	Monthly	2	2.42	21.00%	38° 27' 28.0000"	80° 38' 16.0000"	Cat Rn	Barnet Run	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV1017624	S-2006-03	020	3/30/2015	Aluminum	Daily	0.54	0.87	0.2%	38° 27' 45"	80° 38' 11"	Unnamed Tributary of Birch River	Birch River of Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC		WV1017624	S-2006-03	020	3/30/2015	Aluminum	Monthly	0.31	0.42	12%	38° 27' 45"	80° 38' 11"	Unnamed Tributary of Birch River	Birch River of Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	033	11/30/2011	Iron	Daily	2.46	6.38	159.35%	38° 27' 23.0000"	80° 37' 33.0000"	Obrien Fork	Bie Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	033	11/30/2011	Iron	Monthly	1.42	3.22	126.76%	38° 27' 23.0000"	80° 37' 33.0000"	Obrien Fork	Bie Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1017624	S-2006-03	033	1/31/2012	pH	Daily	9	9.02		38° 27' 23.0000"	80° 37' 33.0000"	Obrien Fork	Bie Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	041	1/31/2014	Aluminum	Monthly	0.64	0.43	48.84%	38-27-13	80-38-22	Barnet Rn	Birch River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	042	12/31/2013	Aluminum	Monthly	0.43	0.54	25.58%	38° 27' 17"	80° 38' 14"	Unnamed Tributary of Cat Run	Cat Run of Barnet Run	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1017624	S-2006-03	042	1/31/2014	Aluminum	Monthly	0.68	0.43	58.14%	38° 27' 17"	80° 38' 14"	Unnamed Tributary of Cat Run	Cat Run of Barnet Run	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek Complex	WV1020145	S-5009-99	001	2/1/2013	Aluminum	Monthly	0.43	0.463	7.67%	37° 54' 56"	82° 19' 26"	Turkey Creek	West Fork Twelvepole Creek	Hydro Group B-Aquatic Life, Warm Water Fishery, Trout Waters, Wetlands
ICG Eastern, LLC	Jennie Creek	WV1020145	S-5009-99	001	11/30/2013	Iron	Monthly	2.25	1.42	58.45%	37° 54' 56"	82° 19' 26"	Turkey Creek	West Fork Twelvepole Creek	Hydrologic Group E - Industrial - Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Jennie Creek	WV1020145	S-5009-99	001	2/28/2014	Aluminum	Monthly	0.48	0.43	11.63%	37° 54' 56"	82° 19' 26"	Turkey Creek	West Fork Twelvepole Creek	Hydrologic Group E - Industrial - Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1022237	S-3005-07	005	6/19/2013	Aluminum	Monthly	0.43	0.65	51.16%	38° 24' 25"	80° 42' 14"	Unnamed Tributary of Muddley Creek	Gaulky River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Eastern, LLC	Eastern Complex	WV1022237	S-3005-07	009	12/31/2012	Manganese	Monthly	2	2.3	15.00%	38° 24' 45.0000"	80° 42' 2.0000"	Bearpen Fk	Beaver Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
ICG Tygart Valley, LLC	Leer-Minna Complex	WV1017764	U-2004-06	002	2/28/2011	TSS	Monthly	35	70	100.00%	39° 20' 2.0000"	79° 57' 32.0000"	Rocky Branch	Three Fork Creek	Life - Warm Water Fisheries, Trout Waters, Wetlands

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ICG Tygart Valley, LLC	Leer Mining Complex	WV1017764	U-2004-06	002	5/31/2011	pH	Daily	9	10.48		39° 20' 2.0000"	79° 57' 32.0000"	Rocky Branch	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017764	U-2004-06	002	6/30/2011	pH	Daily	9	9.64		39° 20' 2.0000"	79° 57' 32.0000"	Rocky Branch	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017764	U-2004-06, O-2017-06	003	10/31/2013	Chronic Tox-Ceriodaphnia Dubia	Monthly	8	0.82	975%	39 20' 13" N	79 57' 38" W	Three Forks Creek	Tygart Valley River	A, B, C, D
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017764	U-2004-06, O-2017-06	003	10/31/2013	Chronic Tox-Ceriodaphnia Dubia	Daily	8	1.64	488.00%	39 20' 13" N	79 57' 38" W	Three Forks Creek	Tygart Valley River	A, B, C, D
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017764	U-2004-06	003	11/30/2013	Aluminum	Monthly	0.72	0.43	67.44%	39 20' 13" N	79 57' 38" W	Three Forks Creek	Tygart Valley River	A, B, C, D
ICG Tygart Valley, LLC	Leer	WV1017764	O-2017-06	006	3/26/2015	Aluminum	Daily	0.47	0.60	28%	39° 19' 47"	79° 58' 48"	Unimined Tributary of Three Fork Creek	Three Fork Creek of Tygart Valley River	A, B, C, D
ICG Tygart Valley, LLC	Leer	WV1017764	O-2017-06	006	3/26/2015	Aluminum	Monthly	0.27	0.48	78%	39° 19' 47"	79° 58' 48"	Unimined Tributary of Three Fork Creek	Three Fork Creek of Tygart Valley River	A, B, C, D
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	1/16/2012	Aluminum	Daily	0.28	2.32	728.57%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	1/26/2012	Aluminum	Daily	0.28	0.35	25.00%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	1/31/2012	Aluminum	Monthly	0.16	0.953	495.63%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	2/28/2012	Aluminum	Daily	0.28	0.44	57.14%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	2/28/2012	Aluminum	Monthly	0.16	0.28	75.00%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	3/31/2012	Aluminum	Monthly	0.16	0.18	12.50%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
ICG Tygart Valley, LLC	Leer Mining Complex	WV1017861	O-2017-06	001	12/31/2012	Aluminum	Monthly	0.16	0.27	68.75%	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Ck	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	H050500	003	4/28/2008	Aluminum	Daily	0.14	0.65	364.29%	38°35'1"	80°35'14"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	H050500	003	4/28/2008	Aluminum	Monthly	0.08	0.65	712.50%	38°35'1"	80°35'14"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	P058500	101	12/31/2007	Aluminum	Daily	0.14	0.15	7.14%	38°34'55"	80°34'23"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	P058500	101	12/31/2007	Aluminum	Monthly	0.08	0.14	75.00%	38°34'55"	80°34'23"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	P058500	101	1/25/2008	Aluminum	Monthly	0.08	0.09	12.50%	38°34'55"	80°34'23"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	P058500	101	4/28/2008	Aluminum	Monthly	0.08	0.13	62.50%	38°34'55"	80°34'23"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	1/29/2007	Iron	Daily	2.46	3.1	26.02%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	1/29/2007	Iron	Monthly	1.42	2.33	64.08%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	3/20/2007	Iron	Daily	2.46	3.92	59.35%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	3/20/2007	Iron	Monthly	1.42	3.53	148.59%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	12/31/2007	Iron	Daily	2.46	4.36	77.24%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	12/31/2007	Iron	Monthly	1.42	2.98	109.86%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	1/25/2008	Iron	Monthly	1.42	1.81	27.46%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	1/29/2009	Iron	Monthly	1.42	2.38	67.61%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	1/26/2010	Iron	Monthly	1.42	2	40.85%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV0051845	R072800	109	2/28/2011	Iron	Monthly	1.42	1.65	16.20%	38°34'23"	80°35'41"	Unnamed Tributary	Elk River	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	6/22/2007	Aluminum	Monthly	0.43	0.62	44.19%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	6/22/2007	TSS	Monthly	35	70	100.00%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	10/26/2007	Aluminum	Daily	0.75	1.04	38.67%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	10/26/2007	Aluminum	Monthly	0.43	1.04	141.86%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	11/29/2007	Aluminum	Daily	0.75	0.91	21.33%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	11/29/2007	Aluminum	Monthly	0.43	0.53	23.26%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	12/31/2007	Aluminum	Daily	0.75	0.88	17.33%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial

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Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	12/31/2007	Aluminum	Monthly	0.43	0.54	25.58%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2002-94	098	9/30/2011	Manganese	Monthly	2	2.14	7.00%	38°32'05"	80°31'18"	Upper Laurel Fork	Camp Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2008-96	150	1/31/2011	Aluminum	Daily	0.75	1.23	64.00%	38°31'34"	80°30'53"	Upper Laurel Fork	Laurel Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Juliana Mining Company, Inc.	Eastern Complex	WV1014145	S-2008-96	150	1/31/2011	Aluminum	Monthly	0.43	0.65	51.16%	38°31'34"	80°30'53"	Upper Laurel Fork	Laurel Creek	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
King Knob Coal Co., Inc.	Patriot Mining	WV1002856	S-0056-79	013	1/31/2009	TSS	Daily	70	108	54.29%	39° 36' 36"	80° 04' 27"	Little Indian Creek	Monongahela River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
King Knob Coal Co., Inc.	Patriot Mining	WV1002856	S-0056-79	013	1/31/2009	TSS	Monthly	35	57	62.86%	39° 36' 36"	80° 04' 27"	Little Indian Creek	Monongahela River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
King Knob Coal Co., Inc.	Patriot Mining	WV1002856	S-0056-79	013	2/28/2010	TSS	Daily	70	130	85.71%	39° 36' 36"	80° 04' 27"	Little Indian Creek	Monongahela River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	PA0202975	30010101	010	9/30/2010	Manganese	Monthly	2	5.286	164.30%	39° 43' 35"	80° 02' 22"	Dooley Run	Dunkard Creek of Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0202975	30010101	010	9/30/2010	Manganese	Daily	4	5.286	32.15%	39° 43' 35"	80° 02' 22"	Dooley Run	Dunkard Creek of Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	1/8/2008	Manganese	Daily	4	4.277	6.93%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	1/8/2008	Manganese	Monthly	2	4.277	113.85%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	2/5/2008	Manganese	Daily	4	5.006	25.15%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	2/5/2008	Manganese	Monthly	2	5.006	150.30%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	2/5/2008	TSS	Monthly	35	40	14.29%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	4/3/2008	Manganese	Monthly	2	5.409	170.45%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	4/3/2008	Manganese	Daily	4	5.409	35.23%	39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	10/26/2011	pH	Daily	9	9.72		39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	11/1/2011	pH	Daily	9	9.45		39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	12/7/2011	pH	Daily	9	9.46		39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	1/16/2012	pH	Daily	9	9.38		39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	001	2/6/2012	pH	Daily	9	9.34		39° 47' 46"	79° 58' 36"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	1/8/2008	Manganese	Daily	4	27.767	594.18%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	1/8/2008	Manganese	Monthly	2	27.767	1288.35%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	2/5/2008	Manganese	Daily	4	9.071	126.78%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	2/5/2008	Manganese	Monthly	2	9.071	353.55%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	3/4/2008	Manganese	Daily	4	16.44	311.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	3/4/2008	Iron	Monthly	3	3.206	6.87%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	3/4/2008	Manganese	Monthly	2	16.44	722.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	3/4/2008	TSS	Monthly	35	37	8.71%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	4/3/2008	Manganese	Daily	4	36.16	804.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	4/3/2008	Manganese	Monthly	2	36.16	1708.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	5/3/2008	Manganese	Daily	4	42.44	961.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	5/3/2008	Iron	Monthly	3	5.191	73.03%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	5/3/2008	Manganese	Monthly	2	42.44	2022.00%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	6/2/2008	Manganese	Daily	4	23.885	497.13%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	6/2/2008	Manganese	Monthly	2	23.885	1094.25%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	7/2/2008	Manganese	Daily	4	20.79	419.75%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	7/2/2008	Manganese	Monthly	2	20.79	939.50%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	9/30/2008	Manganese	Monthly	2	2.446	22.30%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	12/3/2008	Manganese	Daily	4	46.428	1060.70%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	12/3/2008	Manganese	Monthly	2	46.428	2221.40%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	2/5/2009	Manganese	Monthly	2	2.836	41.80%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0250376	30030101	002	12/7/2010	Manganese	Monthly	2	2.024	1.20%	39° 47' 52"	79° 58' 37"	UT Whately Creek	Monongahela River	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0589765	30850103	001	4/8/2009	Manganese	Daily	4	4.52	13.00%	39° 48' 39"	79° 59' 09"	Unnamed tributary of unannned tributary of Whately Creek	Unnamed tributary of Whately Creek	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0589765	30850103	001	4/8/2009	Manganese	Monthly	2	4.52	126.00%	39° 48' 39"	79° 59' 09"	Unnamed tributary of unannned tributary of Whately Creek	Unnamed tributary of Whately Creek	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0589765	30850103	001	9/30/2009	Manganese	Daily	4	5.2	30.00%	39° 48' 39"	79° 59' 09"	Unnamed tributary of unannned tributary of Whately Creek	Unnamed tributary of Whately Creek	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0589765	30850103	001	9/30/2009	Manganese	Monthly	2	2.616	30.80%	39° 48' 39"	79° 59' 09"	Unnamed tributary of unannned tributary of Whately Creek	Unnamed tributary of Whately Creek	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	PA0589765	30850103	001	9/30/2010	Settleable Solids	Daily	0.5	2	300.00%	39° 48' 39"	79° 59' 09"	Unnamed tributary of unannned tributary of Whately Creek	Unnamed tributary of Whately Creek	Warm Water Fishes
Patriot Mining Co., Inc.	Patriot Mining	WV0066885	S-0112-86	001	12/31/2008	TSS	Monthly	35	52.5	80.00%	39° 28' 54"	79° 46' 37"	Squires Creek	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0066885	S-0119-82	003	11/30/2012	Aluminum	Daily	0.75	0.94	25.33%	39° 28' 28"	79° 47' 12"	Squires Creek	Three Fork Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0067954	S-0015-84	001	1/31/2008	TSS	Daily	70	88	35.71%	39° 31' 31"	79° 57' 03"	Direct Drain to Monongahela River	#/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0067954	S-0015-84	002	3/31/2007	TSS	Monthly	35	39.5	12.86%	39° 31' 42"	79° 56' 45"	Direct Drain to Monongahela River	#/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0067954	S-0015-84	002	1/31/2009	Manganese	Daily	4	5.6	40.00%	39° 31' 42"	79° 56' 45"	Direct Drain to Monongahela River	#/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Patriot Mining Co., Inc.	Patriot Mining	WV0067954	S-0015-84	002	1/31/2009	Manganese	Monthly	2	3.051	52.55%	39° 31' 42"	79° 56' 45"	Direct Drain to Monongahela River	#n/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0098264	S-0058-76	011	7/31/2008	TSS	Monthly	35	35.5	1.43%	39° 38' 06"	80° 02' 56"	Tributary to Demts Run	Monongahela River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV0098264	S-1002-97	062	2/29/2012	Iron	Daily	2.46	2.59	5.28%	39° 39' 35"	80° 02' 38"	Tributary to Scotts Run	Monongahela River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	1/31/2008	TSS	Daily	70	220	214.29%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	1/31/2008	TSS	Monthly	35	112.5	221.43%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	1/6/2009	Aluminum	Daily	0.75	0.989	31.87%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	1/20/2009	Aluminum	Daily	0.75	1.391	85.47%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	1/31/2009	Aluminum	Monthly	0.43	1.19	176.74%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	3/2/2009	Aluminum	Daily	0.75	1.28	70.67%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	3/18/2009	Aluminum	Daily	0.75	0.821	9.47%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	3/31/2009	Aluminum	Monthly	0.43	1.048	143.72%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	4/30/2009	Aluminum	Daily	0.75	1.12	49.33%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	4/30/2009	Aluminum	Monthly	0.43	0.85	97.67%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	6/30/2009	Aluminum	Monthly	0.43	0.455	5.81%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	7/31/2009	Aluminum	Monthly	0.43	0.544	26.51%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	8/31/2009	Aluminum	Daily	0.75	1.59	112.00%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	8/31/2009	Aluminum	Monthly	0.43	0.847	96.98%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	12/31/2009	Aluminum	Daily	0.75	1.61	114.67%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	12/31/2009	Aluminum	Monthly	0.43	1.174	173.02%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	11/30/2010	Aluminum	Daily	0.75	1.07	42.67%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	11/30/2010	Aluminum	Monthly	0.43	0.562	30.70%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	12/31/2010	Aluminum	Daily	0.75	1.036	38.13%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Patriot Mining Co., Inc.	Patriot Mining	WV1007050	E-0041-00	003	12/31/2010	Manganese	Daily	3.47	3.93	13.26%	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Patriot Mining Co., Inc.		WV1007688	S-1003-93	003	1/31/2008	Aluminum	Daily	0.75	0.85	13.33%	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Hydro Group A - Public Water, Human Health
Patriot Mining Co., Inc.		WV1007688	S-1003-93	003	1/31/2008	Aluminum	Monthly	0.43	0.85	97.67%	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Hydro Group A - Public Water, Human Health
Patriot Mining Co., Inc.		WV1007688	S-1003-93	003	2/28/2008	Aluminum	Daily	0.75	0.86	14.67%	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Hydro Group A - Public Water, Human Health
Patriot Mining Co., Inc.		WV1007688	S-1003-93	003	2/28/2008	Aluminum	Monthly	0.43	0.525	22.09%	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Hydro Group A - Public Water, Human Health
Patriot Mining Co., Inc.	Patriot Mining	WV1007688	S-1003-93	003	1/31/2009	Aluminum	Monthly	0.43	0.645	50.00%	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Hydro Group A - Public Water, Human Health
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	001	1/31/2009	Aluminum	Daily	4	4.33	8.25%	39° 34' 23"	80° 06' 24"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	001	1/31/2009	Aluminum	Monthly	2	3	50.00%	39° 34' 23"	80° 06' 24"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	002	1/31/2010	Aluminum	Monthly	0.43	0.47	9.30%	39° 34' 26"	80° 06' 14"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	003	1/31/2007	Aluminum	Monthly	0.43	0.59	37.21%	39° 34' 34"	80° 06' 14"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	003	5/31/2007	Aluminum	Monthly	0.43	0.49	13.95%	39° 34' 34"	80° 06' 14"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	004	1/31/2007	Aluminum	Monthly	0.43	0.54	25.58%	39° 34' 34"	80° 06' 4"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	004	1/31/2009	Aluminum	Daily	0.75	1.401	86.80%	39° 34' 34"	80° 06' 4"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1009826	S-2002-06	004	1/31/2009	Aluminum	Monthly	0.43	0.44	2.33%	39° 34' 34"	80° 06' 4"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	5/31/2008	TSS	Daily	70	92	31.43%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	5/31/2008	Iron	Monthly	3	4.918	63.93%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	5/31/2008	Manganese	Monthly	2	2.057	2.85%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	5/31/2008	TSS	Monthly	35	92	162.86%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	4/30/2009	Iron	Monthly	3	3.07	2.33%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	001	4/30/2009	TSS	Monthly	35	41	17.14%	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1011375	R-1076-86	002	3/31/2011	Manganese	Monthly	2	2.13	6.50%	39° 22' 22.0000"	80° 26' 9.0000"	Isaacs Creek	Tennile Creek	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-01	001	12/31/2007	Aluminum	Monthly	0.43	0.57	32.56%	39° 40' 06"	80° 03' 17"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-01	001	4/30/2011	Aluminum	Monthly	0.21	0.25	19.05%	39° 40' 06"	80° 03' 17"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	002	1/31/2010	Aluminum	Monthly	0.43	0.528	22.79%	39° 40' 07"	80° 03' 04"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	007	12/31/2007	Aluminum	Daily	0.75	0.963	28.40%	39° 40' 07"	80° 02' 56"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	007	12/31/2007	Aluminum	Monthly	0.43	0.963	123.95%	39° 40' 07"	80° 02' 56"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	1/31/2008	Manganese	Daily	3.47	3.89	12.10%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	1/31/2008	Manganese	Monthly	2	3.89	94.50%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	2/28/2008	Aluminum	Daily	0.75	2.66	254.67%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	2/28/2008	Aluminum	Monthly	0.43	2.66	518.60%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	3/31/2008	Aluminum	Daily	0.75	6.46	761.33%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	009	3/31/2008	Aluminum	Monthly	0.43	2.66	518.60%	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	011	1/31/2008	Aluminum	Daily	0.75	1.483	97.73%	39° 40' 08"	80° 02' 38"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	011	1/31/2008	Aluminum	Monthly	0.43	1.312	244.88%	39° 40' 08"	80° 02' 38"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	011	1/31/2008	Iron	Monthly	0.9	1.181	45.78%	39° 40' 08"	80° 02' 38"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	011	1/31/2008	TSS	Monthly	35	55	57.14%	39° 40' 08"	80° 02' 38"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	012	12/31/2007	Aluminum	Daily	0.75	1.258	67.73%	39° 40' 11"	80° 02' 39"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	012	12/31/2007	Aluminum	Monthly	0.43	1.258	192.56%	39° 40' 11"	80° 02' 39"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	012	12/31/2007	Iron	Monthly	1.07	1.752	63.74%	39° 40' 11"	80° 02' 39"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	012	12/31/2007	TSS	Monthly	35	44	25.71%	39° 40' 11"	80° 02' 39"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	012	12/14/2008	Aluminum	Daily	0.58	0.645	11.21%	39° 40' 11"	80° 02' 39"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	12/3/2007	Aluminum	Daily	0.58	1.827	215.00%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	12/3/2007	Aluminum	Monthly	0.33	1.827	453.64%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	12/31/2007	Iron	Daily	1.85	2.825	52.70%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	12/31/2007	Iron	Monthly	1.07	2.825	164.02%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	12/31/2007	TSS	Monthly	35	39	11.43%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	1/31/2008	Aluminum	Daily	0.75	0.992	32.27%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	1/31/2008	Aluminum	Monthly	0.43	0.496	15.35%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	4/30/2008	Manganese	Daily	3.47	4.746	36.77%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-04	013	4/30/2008	Manganese	Monthly	2	3.198	59.90%	39° 40' 15"	80° 02' 42"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	014	4/30/2008	Manganese	Monthly	2	2.099	4.95%	39° 40' 48"	80° 02' 36"	Guston Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	014	5/31/2008	Manganese	Daily	3.47	4.313	24.29%	39° 40' 48"	80° 02' 36"	Guston Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	014	5/31/2008	Manganese	Monthly	2	2.157	7.85%	39° 40' 48"	80° 02' 36"	Guston Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	019	5/31/2009	Manganese	Daily	3.47	12.328	255.27%	39° 40' 22"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	019	5/31/2009	Manganese	Monthly	2	6.164	208.20%	39° 40' 22"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	6/30/2008	Manganese	Daily	3.47	5.026	44.84%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	6/30/2008	Manganese	Monthly	2	2.69	34.50%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	1/31/2009	Manganese	Daily	3.47	12.181	251.04%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	1/31/2009	Iron	Monthly	1.42	1.433	0.92%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	1/31/2009	Manganese	Monthly	2	7.965	298.25%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	1/31/2009	Manganese	Daily	3.47	11.026	217.75%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	2/28/2009	Manganese	Daily	3.47	12.984	274.18%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	2/28/2009	Manganese	Monthly	2	6.547	227.35%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	5/31/2009	Manganese	Daily	4	5.776	44.40%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017535	S-2010-06	020	5/31/2009	Manganese	Monthly	2	2.888	44.40%	39° 40' 25"	80° 02' 45"	Scots Run	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017845	S-2013-06	001	1/31/2010	Manganese	Monthly	2	2.29	14.50%	39° 34' 24"	80° 05' 53"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017845	S-2013-06	002	1/31/2010	Manganese	Monthly	2	2.23	11.50%	39° 34' 22"	80° 05' 43"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife

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Patriot Mining Co., Inc.	Patriot Mining	WV1017845	S-2013-06	002	2/28/2010	Manganese	Monthly	2	2.26	13.00%	39° 34' 22"	80° 05' 43"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Patriot Mining Co., Inc.	Patriot Mining	WV1017845	S-2013-06	002	5/31/2011	Manganese	Monthly	2	2.39	19.50%	39° 34' 22"	80° 05' 43"	Indian Creek	Monongahela River	Hydrologic Group D - Irrigation, Livestock Watering, Wildlife
Powell Mountain Energy, LLC	Powell Mountain Complex	VA0082027	1202027	001	7/27/2011	Iron	Monthly	3	4.31	43.67%	36° 50' 1"	83° 4' 55"	Baileys Trace	Straight Creek	Aquatic Life, Fish Consumption, Recreation, Wildlife
Powell Mountain Energy, LLC	Powell Mountain Complex	VA0082027	1202027	001	7/27/2011	TSS	Daily	70	133	90.00%	36° 50' 1"	83° 4' 55"	Baileys Trace	Straight Creek	Aquatic Life, Fish Consumption, Recreation, Wildlife
Powell Mountain Energy, LLC	Powell Mountain Complex	VA0082027	1202027	001	7/27/2011	TSS	Monthly	35	133	280.00%	36° 50' 1"	83° 4' 55"	Baileys Trace	Straight Creek	Aquatic Life, Fish Consumption, Recreation, Wildlife
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	BOD, 5-Day (bs/day)	Daily	0.8	6.08	660.00%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	Flow (MGD)	Daily	0.0015	0.0869	5693.33%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	TKN (ug/L)	Daily	4	1340	33400.00%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	1/23/2008	Chlorine	Daily	28	30	7.14%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	1/23/2008	TKN (ug/L)	Daily	4	1330	30650.00%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	2/13/2008	TKN (ug/L)	Daily	4	215.341	5283.53%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	Chlorine	Daily	28	30	7.14%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	TKN (bs/day)	Daily	0.06	971.3	1618733.33%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	12/31/2007	TSS	Daily	0.76	6	689.47%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	1/23/2008	Flow (MGD)	Daily	0.0015	0.003	100.00%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	2/13/2008	Flow (MGD)	Daily	0.0015	0.006	300.00%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
The Sycamore Group, LLC	Backhannon Group	WV1011723	U-1007-96	401	5/7/2008	TKN (ug/L)	Daily	4	94.212	2355.30%	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Hydro Group E-Water Transport, Cooling Water, Power Production, Industrial
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	002	4/30/2011	Turbidity	Monthly	50	67.5	35.00%	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	002	5/31/2011	TSS	Daily	45	57	27.00%	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	002	5/31/2011	Turbidity	Daily	100	212	112.00%	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	002	5/31/2011	Turbidity	Monthly	50	212	324.00%	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	002	6/27/2011	Turbidity	Monthly	50	65	30.00%	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	3/31/2010	Iron	Daily	25.7	35.6	38.50%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	4/30/2011	Iron	Daily	25.7	52.9	105.80%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run Creek	Moore's Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife

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Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	4/30/2011	Iron	Monthly	20.6	103	399.51%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	4/30/2011	Manganese	Monthly	157	237	51.00%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	5/31/2011	Iron	Daily	25.7	242.8	844.75%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	5/31/2011	Manganese	Daily	198	583	194.44%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MD0067059	SM-99-432	Clustered	9/30/2011	Iron	Daily	25.7	26.4	2.72%	39° 32' 00" *	78° 59' 25" *	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MDG851737	SM-84-393	011	11/30/2011	pH	Daily	6	5.13		39° 37' 38"	78° 58' 11"	Woodland Creek	Woodland Creek of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	MDG859612	SM-01-439	002	12/31/2011	Turbidity	Monthly	50	61.6	23.20%	39° 36' 51"	78° 55' 22"	Unnamed Tributary of Vale Run	Vale Run of Georges Creek	Georges Creek watershed designated uses are aquatic life and wildlife
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/28/2010	Aluminum	Daily	0.75	3.44	358.67%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/28/2010	Aluminum	Monthly	0.43	3.44	700.00%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/28/2011	TSS	Daily	70	436	522.86%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/28/2011	TSS	Monthly	35	228	551.43%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/31/2011	Aluminum	Daily	0.75	2.48	230.67%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/31/2011	Aluminum	Monthly	0.43	1.409	227.67%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	9/30/2011	Aluminum	Daily	0.75	1.66	121.33%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	9/30/2011	Aluminum	Monthly	0.43	0.902	109.77%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	12/31/2011	Manganese	Daily	4	4.25	6.25%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	1/2/2012	Aluminum	Daily	0.75	1.73	130.67%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	1/11/2012	Aluminum	Daily	0.75	4.26	468.00%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	1/31/2012	Aluminum	Monthly	0.43	2.995	596.51%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/29/2012	Aluminum	Monthly	0.43	0.56	30.23%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/1/2013	TSS	Monthly	35	109	211.43%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	2/1/2013	TSS	Daily	70	218	211.43%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/1/2013	TSS	Daily	70	146	108.57%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/13/2013	Aluminum	Monthly	0.43	0.88	104.65%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/13/2013	Aluminum	Daily	0.75	0.82	9.33%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0051101	S-0088-74	003	3/13/2013	Aluminum	Daily	0.75	0.94	25.33%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	WV Operations	WV0051101	O-2001-98	003	12/31/2013	Aluminum	Monthly	2.68	0.43	523.26%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	WV Operations	WV0051101	O-2001-98	003	12/31/2013	Aluminum	Daily	2.68	0.75	257.33%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	WV Operations	WV0051101	O-2001-98	003	1/31/2014	Aluminum	Monthly	0.45	0.43	4.65%	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation		WV0060372	O-0097-83	002	4/2/2014	Total Nitrogen Ammonia	Daily	8	23.11	188.88%	39° 16' 08"	79° 15' 36"	Unnamed Tributary of Stony River	Stony River of North Branch Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Vindex Energy Corporation		WV0060372	O-0097-83	002	4/15/2014	Total Nitrogen Ammonia	Daily	8	13.09	63.63%	39° 16' 08"	79° 15' 36"	Unnamed Tributary of Stony River	Stony River of North Branch Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation		WV0060372	O-0097-83	002	4/30/2014	Total Nitrogen Ammonia	Monthly	4	38.1	352.50%	39° 16' 08"	79° 15' 36"	Unnamed Tributary of Stony River	Stony River of North Branch Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV0095061	S-2001-96	007	3/31/2011	Iron	Monthly	0.29	0.318	9.66%	39° 15' 58"	79° 10' 45"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	2/5/2007	Aluminum	Daily	0.75	1.145	52.67%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	2/27/2007	Aluminum	Daily	0.75	0.762	1.60%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	2/28/2007	Aluminum	Monthly	0.43	0.954	121.86%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/15/2007	Aluminum	Daily	0.75	0.879	17.20%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/30/2007	Aluminum	Daily	0.75	0.918	22.40%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/31/2007	Aluminum	Monthly	0.43	0.899	109.07%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	3/31/2008	Aluminum	Monthly	0.43	0.557	29.53%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	5/31/2008	Aluminum	Daily	0.75	1.212	61.60%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	5/31/2008	Aluminum	Monthly	0.43	0.927	115.58%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	6/30/2008	Aluminum	Daily	0.75	0.91	21.00%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/31/2008	Aluminum	Daily	0.75	1.144	52.53%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands

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Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/31/2008	Aluminum	Monthly	0.43	0.839	95.12%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/31/2009	Aluminum	Daily	0.75	1.323	76.40%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	001	12/31/2009	Aluminum	Monthly	0.43	0.753	75.12%	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	002	4/30/2008	Aluminum	Monthly	0.43	0.533	23.95%	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	002	7/31/2008	Manganese	Daily	4	4.958	23.95%	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	002	7/31/2008	Manganese	Monthly	2	3.052	52.60%	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	002	11/30/2008	Manganese	Daily	4	4.821	20.53%	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	002	11/30/2008	Manganese	Monthly	2	2.712	35.60%	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	003	3/31/2008	Aluminum	Daily	0.75	0.967	28.93%	39° 13' 16.0000"	79° 17' 46.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-1010-91	003	3/31/2008	Aluminum	Monthly	0.43	0.543	26.28%	39° 13' 16.0000"	79° 17' 46.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	004	4/30/2008	Aluminum	Monthly	0.43	0.481	11.86%	39° 14' 14.0000"	79° 17' 36.0000"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	009	1/31/2011	TSS	Monthly	35	51	45.71%	39° 13' 18"	79° 17' 50"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Aluminum	Daily	0.54	0.817	51.30%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Manganese	Daily	0.54	1.53	183.33%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands

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Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Iron	Daily	0.82	1.35	64.63%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Aluminum	Monthly	0.31	0.653	110.65%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Manganese	Monthly	0.31	0.854	175.48%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	Iron	Monthly	0.47	0.987	110.00%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation	Vindex	WV1010417	S-0125-79	025	1/31/2008	TSS	Monthly	35	45.5	30.00%	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation		WV1023241	U-2001-07	001	5/19/2014	Aluminum	Monthly	0.2	0.26	30.00%	39° 12' 05"	79° 20' 26"	Unnamed Tributary of Beaver Creek	Beaver Creek of Blackwater River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
Vindex Energy Corporation		WV1023241	U-2001-07	001	5/19/2014	Aluminum	Daily	0.34	0.41	20.59%	39° 12' 05"	79° 20' 26"	Unnamed Tributary of Beaver Creek	Beaver Creek of Blackwater River	Hydrologic Group B - North Branch of the Potomac Watershed - Aquatic life, warm water fisheries, trout waters, wetlands
White Wolf Energy, Inc.		VA0081983	1201983	001	8/1/2013	Iron	Monthly	3	3.46	15.33%	37°07'11"	81°48'09"	West Fork Big Creek	Big Creek of Clinch River	Recreation, Aquatic Life
Wolf Run Mining Co.	Philippi	WV0043273	U-0015-83	403	12/31/2008	BOD, 5-Day (mg/L)	Daily	3	8	166.67%	39° 12' 00"	80° 03' 31"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Aluminum	Daily	0.75	19.7	2526.67%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Aluminum	Monthly	0.43	19.7	4481.40%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Iron	Daily	5.26	143.11	2620.72%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Iron	Monthly	3	143.11	4670.33%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Manganese	Daily	3.47	5.63	62.25%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	Manganese	Monthly	2	5.63	181.50%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	11/30/2008	pH	Daily	6	4.5		39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Aluminum	Daily	0.75	26.74	3465.33%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Aluminum	Monthly	0.43	26.74	6118.60%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Iron	Daily	5.26	132.73	2423.38%	39° 12' 13"	80° 04' 10"	Foxsage Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Iron	Monthly	3	132.73	4324.33%	39° 12' 13"	80° 04' 10"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Manganese	Daily	3.47	4.96	42.94%	39° 12' 13"	80° 04' 10"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	Manganese	Monthly	2	4.96	148.00%	39° 12' 13"	80° 04' 10"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Philippi	WV0043273	O-0113-83	004	12/31/2008	pH	Daily	6	4.5		39° 12' 13"	80° 04' 10"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	12/31/2008	Aluminum	Daily	0.75	1.287	71.60%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	12/31/2008	Aluminum	Monthly	0.43	0.776	80.47%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	1/31/2010	Aluminum	Daily	0.75	2.96	294.67%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	1/31/2010	Aluminum	Monthly	0.43	2.955	587.21%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	2/28/2010	Aluminum	Daily	0.75	1.15	53.33%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	010	2/28/2010	Aluminum	Monthly	0.43	0.924	114.88%	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	402	9/22/2010	Ammonia, Total (mg/L)	Daily	6	9.76	62.67%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	402	6/23/2011	Ammonia, Total (mg/L)	Daily	6	6.844	14.07%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-0113-83	402	9/17/2012	Dissolved Oxygen	Daily	6	5.44	-9.33%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-113-83	402	3/1/2013	BOD mg/l	Daily	10	33.6	236.00%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	O-113-83	402	3/1/2013	BOD lbs/day	Daily	0.62	0.84	35.48%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	9/25/2008	Ammonia, Total (mg/L)	Daily	1.2	3.36	180.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	12/29/2008	Ammonia, Total (mg/L)	Daily	1.2	1.904	58.67%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	12/29/2008	Dissolved Oxygen	Daily	6	4.88	-18.67%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	12/29/2008	Flow (MGD)	Daily	0	0.003	50.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	3/17/2010	Ammonia, Total (mg/L)	Daily	1.2	2.21	84.17%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	9/22/2010	Ammonia, Total (mg/L)	Daily	1.2	2.56	113.33%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	11/11/2010	Ammonia, Total (mg/L)	Daily	1.2	3.18	165.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Philippi)	WV0043273	U-0015-83	403	11/11/2010	Dissolved Oxygen	Daily	6	5.27	1200.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	6/23/2011	Ammonia, Total (lbs/day)	Daily	0.02	0.03	50.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	6/23/2011	Ammonia, Total (lbs/day)	Daily	1.2	5.835	386.25%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	9/19/2011	BOD, 5-Day (mg/L)	Daily	3	4.4	46.67%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	9/19/2011	Chlorine	Daily	28	30	7.14%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	11/30/2011	Ammonia, Total (mg/L)	Daily	1.2	1.523	26.92%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-0113-83	403	6/19/2012	BOD, 5-Day (lbs/day)	Daily	3	11.8	393.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-0113-83	403	6/19/2012	TSS	Daily	60	71	118.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	9/17/2012	Nitrogen, Ammonia, Total	Daily	0.02	0.06	200.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	U-0015-83	403	9/17/2012	Nitrogen, Ammonia, Total	Daily	1.2	5.51	359.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Phillippi	WV0043273	U-15-83	403	6/25/2013	BOD	Daily	3	3.8	26.67%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Phillippi	WV0043273	U-15-83	403	6/25/2013	Nitrogen, Ammonia	Daily	1.2	3.03	152.50%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Phillippi	WV0043273	U-15-83	403	6/25/2013	Nitrogen, Ammonia	Daily	0.02	0.03	50.00%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Baybeck	WV0097341	U-19-84	003	3/8/2011	Aluminum	Daily	0.75	0.77	2.67%	37° 45' 42"	81° 18' 2"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Wolf Run Mining Co.	Baybeck	WV0097341	U-19-84	003	12/31/2013	Aluminum	Monthly	0.43	0.446	3.72%	37° 45' 42"	81° 18' 2"	Millers Camp Br.	Marsh Fork	Public Water Supply, Aquatic Life, Water Contact Recreation, Agriculture and Wildlife, Water Supply Industrial
Wolf Run Mining Co.	Buckhannon Group (Spruce Fork)	WV1014188	U-0028-83	001	3/31/2009	Aluminum	Monthly	0.43	0.49	13.95%	38° 57' 07"	80° 14' 05"	Cutright Run	Upper Buckhannon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhannon Group (Spruce Fork)	WV1014188	U-0028-83	001	4/30/2012	Aluminum	Monthly	0.43	0.49	13.95%	38° 57' 07"	80° 14' 05"	Cutright Run	Upper Buckhannon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhannon Group (Spruce Fork)	WV1014188	U-0028-83	002	12/31/2008	Aluminum	Daily	0.75	0.751	1.00%	38° 57' 02"	80° 14' 17"	Cutright Run	Upper Buckhannon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhannon Group (Spruce Fork)	WV1014188	U-0028-83	002	12/31/2008	Aluminum	Monthly	0.43	0.76	76.74%	38° 57' 02"	80° 14' 17"	Cutright Run	Upper Buckhannon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhannon Group (Harrison)	WV1017551	U-2002-02	001	5/31/2007	Iron	Monthly	1.42	1.777	25.14%	39° 14' 38"	80° 29' 09"	Tennile Creek	West Fork River	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Wolf Run Mining Co.	Buckhannon Group (Harrison)	WV1017551	U-2002-02	001	5/31/2007	Iron	Monthly	1.42	1.436	1.13%	39° 14' 38"	80° 29' 09"	Tennile Creek	West Fork River	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Wolf Run Mining Co.	Buckhannon Group (Harrison)	WV1017551	U-2002-02	001	5/31/2007	TSS	Monthly	35	37	5.71%	39° 14' 38"	80° 29' 09"	Tennile Creek	West Fork River	Hydrologic Group E - Water Transport, Cooling Water, Power Provider, Industrial
Wolf Run Mining Co.	Spruce Fork	WV1017985	U-2016-98	401	3/31/2008	Chlorine	Daily	28	40	42.86%	38° 54' 46"	80° 13' 27"	Direct to Buckhannon River	#/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	401	5/28/2008	Flow	Daily	0.002	0.018	800.00%	38° 54' 46"	80° 13' 27"	Direct to Buckhammon River	#n/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Spruce Fork	WV1017985	U-2016-98	401	9/30/2008	Chlorine	Daily	28	30	7.14%	38° 54' 46"	80° 13' 27"	Direct to Buckhammon River	#n/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	401	12/4/2008	Flow	Daily	0.002	0.003	50.00%	38° 54' 46"	80° 13' 27"	Direct to Buckhammon River	#n/a	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	5/31/2007	TSS	Monthly	35	50	42.86%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	7/31/2008	TSS	Monthly	35	45	28.57%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	3/31/2011	Aluminum	Daily	0.75	1.666	122.13%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	3/31/2011	Aluminum	Monthly	0.43	1	132.56%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	4/30/2011	Manganese	Monthly	2	3.2	60.00%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	5/16/2011	Manganese	Monthly	2	2.27	13.50%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1017985	U-2016-98	001	1/31/2012	Aluminum	Monthly	0.43	0.51	18.60%	38° 54' 47"	80° 13' 37"	Direct Buckhammon River	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	401	3/16/2011	Ammonia	Monthly	3	10.72	257.33%	38° 54' 6"	80° 11' 43"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2007	TSS	Daily	70	73	4.29%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2007	TSS	Monthly	35	73	108.57%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	12/31/2009	Iron	Daily	2.46	2.702	9.84%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	12/31/2009	Iron	Monthly	1.42	1.87	31.69%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2011	Iron	Daily	2.46	4.52	83.74%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2011	TSS	Daily	70	98	40.00%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2011	Iron	Monthly	1.42	2.96	108.45%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	001	4/30/2011	TSS	Monthly	35	52	48.57%	38° 54' 46"	80° 11' 43.00000"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	002	6/30/2008	TSS	Daily	70	110	57.14%	38° 54' 02"	80° 11' 36"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhammon Group (Spruce Fork)	WV1018116	U-2002-01	002	6/30/2008	TSS	Monthly	35	55	57.14%	38° 54' 02"	80° 11' 36"	Grassy Run	Upper Buckhammon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Permittee Name	Mine Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate	Secondary	Designated Uses of Receiving Stream
Wolf Run Mining Co.	Buckhamnon Group (Spruce Fork)	WV1018116	U-2002-01	401	9/10/2008	BOD, 5-Day (lbs/day)	Daily	0.1	0.67	570.00%	38° 54' 6"	80° 11' 43"	Grassy Run	Upper Buckhamnon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Spruce Fork	WV1018116	U-2002-01	401	9/10/2008	BOD, mg/l	Daily	10	40.38	303.80%	38° 54' 6"	80° 11' 43"	Grassy Run	Upper Buckhamnon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Buckhamnon Group (Spruce Fork)	WV1018116	U-2002-01	401	5/12/2009	Chlorine, Total Residual	Daily	28	70	150.00%	38° 54' 6"	80° 11' 43"	Grassy Run	Upper Buckhamnon River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-113-83	005	12/31/2012	Iron	Daily	5.26	5.68	7.98%	39° 11' 29"	80° 03' 24"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-113-83	005	12/31/2012	Iron	Monthly	3	3.5	16.67%	39° 11' 29"	80° 03' 24"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-113-83	402	12/19/2012	Chlorine, Total Residual	Daily	28	30	7.14%	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-113-83	403	12/19/2012	Chlorine, Total Residual	Daily	28	30	7.14%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands
Wolf Run Mining Co.	Sentinel Complex (Phillippi)	WV0043273	O-113-83	403	12/19/2012	Nitrogen, Ammonia, Total	Daily	1.2	1.46	21.67%	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Hydrologic Group B - Aquatic Life - Warm Water Fisheries, Trout Waters, Wetlands

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Permittee Name	NPDES Permit	SMCRA Permit	Outfall	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate Receiving Stream	Secondary Receiving Stream	Designated Uses of Receiving Stream
ICG Knott County, LLC	KY0094285	860-8022	003	3/16/2015	Iron	Daily	4	4.39	10%	37°19'11"	82°46'42"	Unnamed Trib of Bates Branch	Bates Branch of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	KYG042589	860-5360	003	3/9/2015	TSS	Daily	70	79	13%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	KYG042589	860-5360	003	3/9/2015	TSS	Monthly	35	39	11%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	KYG045265	860-0526	001	10/17/2014	Manganese	Daily	4.0	6.02	51%	37°23'10"	82°49'25"	Huff Branch of Caney Fork	Caney Fork of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	KYG045265	860-0526	001	10/17/2014	Manganese	Monthly	2.0	2.5	25%	37°23'10"	82°49'25"	Huff Branch of Caney Fork	Caney Fork of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply

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Permittee Name	Mine Names	NPDES Permit	SMCRA Permit	Outfall	Date	Parameter	Sample Type	Permit Limit	Reported Value	Exceedance %	Latitude	Longitude	Immediate Receiving Stream	Secondary Receiving Stream	Designated Uses of Receiving Stream
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045173	898-0735	032	1/31/2011	TSS	Monthly	35	38	9%	37°31'18"	82°13'57"	Unnamed Tributary to Right Fork of Blackberry Creek	Right Fork of Blackberry Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045173	898-0735	032	6/30/2011	TSS	Monthly	35	41	17%	37°31'18"	82°13'57"	Unnamed Tributary to Right Fork of Blackberry Creek	Right Fork of Blackberry Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045173	898-0735	037	4/30/2011	TSS	Monthly	35	50	43%	37°32'29"	82°14'12"	Middle Branch	Right Fork of Blackberry Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045173	898-0735	037	5/31/2011	TSS	Monthly	35	36	3%	37°32'29"	82°14'12"	Middle Branch	Right Fork of Blackberry Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045173	898-0735	046	1/31/2011	TSS	Monthly	35	41.5	19%	37°33'19"	82°14'43"	Ball Fork of May Fork	May Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045336	898-0737	001	3/16/2011	TSS	Daily	70	98	40%	37°30'52"	82°13'48"	Left Fork Blackberry Creek	Blackberry Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	006	1/25/2011	TSS	Monthly	35	65	86%	37°44'23"	82°20'37"	Unnamed Tributary to Big Creek	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	006	1/25/2011	TSS	Daily	70	114	63%	37°44'23"	82°20'37"	Unnamed Tributary to Big Creek	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	007	2/4/2011	Iron	Daily	4	6.08	52%	37°44'40"	82°20'19"	Goff Branch	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	007	2/4/2011	TSS	Daily	70	452	546%	37°44'40"	82°20'19"	Goff Branch	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	007	2/4/2011	TSS	Monthly	35	140	300%	37°44'40"	82°20'19"	Goff Branch	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	007	4/30/2011	TSS	Daily	70	77	10%	37°44'40"	82°20'19"	Goff Branch	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG East Kentucky, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046183	880-0179	007	4/30/2011	TSS	Monthly	35	58.5	67%	37°44'40"	82°20'19"	Goff Branch	Big Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG041041	860-8014	001	3/1/2011	Manganese	Monthly	2	2.22	11%	37°23'16"	82°48'27"	Big Branch	Caney Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply

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ICG Knott County, LLC		KYG041041	860-8023	001	2/18/2014	Iron	Daily	4	5.3	33%	37°23'16"	82°48'27"	Big Branch	Caney Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042589	860-5267	003	1/31/2011	TSS	Monthly	35	119	240%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042589	860-5267	003	1/31/2011	Iron	Daily	4	5.1	28%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042589	860-5267	003	1/31/2011	TSS	Daily	70	228	226%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042589	860-5267	003	4/7/2011	TSS	Daily	70	109	56%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042589	860-5267	003	6/1/2011	TSS	Monthly	35	35.75	2%	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042754	860-5268	003	9/8/2011	TSS	Daily	70	120	71%	37°17'50"	82°52'53"	Mallet Branch	Carr Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG042754	860-5268	004	3/4/2011	TSS	Daily	70	124	77%	37°18'57"	82°52'42"	Trace Fork	Caney Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG043345	860-0414	001	1/31/2011	TSS	Monthly	35	35.5	1%	37°19'06"	82°50'39"	Unnamed Tributary of Left Fork Hollybush Creek	Left Fork Hollybush Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG045000	860-9018	001	8/8/2013	Iron	Daily	4	4.24	6%	37° 18' 44"	82° 48' 00"	Joe King Branch	Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG045000	860-9018	001	8/8/2013	Iron	Monthly	3	3.5	17%	37° 18' 44"	82° 48' 00"	Joe King Branch	Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG045265	860-0526	001	8/27/2014	Manganese	Daily	4.0	6.52	63%	37°23'10"	82°49'25"	Huff Branch of Caney Fork	Caney Fork of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG045265	860-0526	001	8/27/2014	Manganese	Monthly	2.0	6.52	17%	37°23'10"	82°49'25"	Huff Branch of Caney Fork	Caney Fork of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045265	860-0441	002	9/7/2011	TSS	Monthly	35	42	20%	37°23'23"	82°49'39"	Caney Fork	Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply

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ICG Knott County, LLC		KYG045360	860-5279	001	5/31/2013	PH	Daily	9	9.08		37° 17' 35"	82° 54' 53"	Smith Branch	Reynolds Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG045805	860-5271	008	4/30/2012	TSS	Daily	70	84	0.2	37°17'44"	82°49'07"	Bill D Branch	Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG045805	860-5363	008	3/31/2013	Acid=Alk	daily	20	20	N/A	37°17'44"	82°49'07"	Bill D Branch	Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046374	860-5324	001	6/23/2011	Iron	Monthly	3	3.32	11%	37°21'13"	82°51'58"	Unnamed Tributary to Caney Fork	Caney Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC	Kentucky Idle Properties (includes Knott County/Raven Complex and Flint Ridge)	KYG046374	860-5324	002	9/7/2011	TSS	Monthly	35	46	31%	37°21'09"	82°05'55"	Unnamed Tributary to Caney Fork	Caney Fork	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG094285	860-8012	003	2/28/2013	Manganese	daily	4	5.94	49%	37°19'11"	82°46'42"	Unnamed Tributary of Bates Branch	Bates Branch of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC		KYG094285	860-8012	003	5/6/2013	Manganese	Daily	4	7.85	0.96	37°19'11"	82°46'42"	Unnamed Tributary of Bates Branch	Bates Branch of Right Fork Beaver Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	003	1/31/2011	Manganese	Monthly	2	2.14	7%	37°11'01"	83°01'21"	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	003	3/31/2011	Manganese	Monthly	2	2.46	23%	37°11'01"	83°01'21"	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	003	4/30/2011	Manganese	Monthly	2	2.38	19%	37°11'01"	83°01'21"	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	003	12/14/2011	Manganese	Daily	4	4.37	9%	37°11'01"	83°01'21"	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	020	2/28/2011	Manganese	Daily	4	20.92	423%	37°10'36"	83°01'47"	Big Branch	North Fork Kentucky River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	020	2/28/2011	Manganese	Monthly	2	19.10	855%	37°10'36"	83°01'47"	Big Branch	North Fork Kentucky River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	020	2/28/2011	Acidity	Daily	<Alkalinity	45	NA	37°10'36"	83°01'47"	Big Branch	North Fork Kentucky River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply

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ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	020	2/28/2011	Acidity	Daily	<Alkalinity	57	NA	37°10'36"	83°01'47"	Big Branch	North Fork Kentucky River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	023	7/19/2011	Manganese	Daily	4	8.36	109%	37°11'02"	83°01'34"	Unnamed Tributary of Montgomery Creek	Unnamed Tributary to Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	023	7/29/2011	Manganese	Monthly	2	2.79	40%	37°11'02"	83°01'34"	Unnamed Tributary of Montgomery Creek	Unnamed Tributary to Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	023	7/29/2011	Manganese	Daily	4	9.21	130%	37°11'02"	83°01'34"	Unnamed Tributary of Montgomery Creek	Unnamed Tributary to Montgomery Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045377	897-0455	044	7/19/2011	Manganese	Monthly	2	3.40	70%	37°10'24"	83°01'25"	Unnamed Tributary of Upper Lick Fork	Bull Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	001	2/28/2011	Manganese	Monthly	2	2.57	29%	37°04'19"	83°18'38"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	001	5/25/2011	Iron	Monthly	3	6.20	107%	37°04'19"	83°18'38"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	001	5/25/2011	Iron	Daily	4	12.11	203%	37°04'19"	83°18'38"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	002	2/28/2011	TSS	Monthly	35	73.50	110%	37°04'09"	83°18'29"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	002	2/28/2011	Iron	Daily	4	4.51	13%	37°04'09"	83°18'29"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	002	2/28/2011	TSS	Daily	70	147.00	110%	37°04'09"	83°18'29"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	006	2/28/2011	TSS	Monthly	35	91.00	160%	37°04'36"	83°18'36"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	006	2/28/2011	Iron	Daily	4	5.63	41%	37°04'36"	83°18'36"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
ICG Knott County, LLC (transferred from ICG Hazard)	Hazard Complex	KYG045542	866-0295	006	2/28/2011	TSS	Daily	70	170.00	143%	37°04'36"	83°18'36"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply

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ICG Knott County, LLC (transferred from ICG Hazard)		KYG045542	866-0295	020	4/12/2013	pH	Daily	9	9.1	0.01	37°03'51"	83°18'28"	Muncy Branch	Raccoon Creek	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	003	10/13/2011	TSS	Daily	70	131	87%	36°52'28"	83°03'32"	Child's Branch	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	005	12/9/2011	Iron	Daily	4	13.8	245%	36°52'27"	83°03'31"	Child's Branch	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	005	12/9/2011	TSS	Daily	70	259	270%	36°52'27"	83°03'31"	Child's Branch	Clover Fork Cumberland River	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	006	9/1/2011	Iron	Daily	4	5.27	32%	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	006	9/1/2011	TSS	Daily	70	146	109%	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5514	006	9/1/2011	TSS	Monthly	35	43	23%	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5470	006	12/20/2011	TSS	Daily	70	97	39%	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5514	006	5/1/2012	Iron	Daily	4	6.78	70%	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, Domestic Water Supply
Powell Mountain Energy, LLC	Powell Mountain Complex	KYG040167	848-5514	006	12/10/2012	TSS	Daily	0.5	1.2		36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Warm Water Aquatic Habitat, Primary Contact Recreation, Secondary Contact Recreation, and Domestic Water Supply

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Permittee Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Latitude	Longitude	Immediate	Secondary	Flows to	Flows to	Flows to	Flows to	Flows to	Flows to	Flows to
Hawthorne Coal Co., Inc.	WV00139471	D-0184-00	001	38° 54' 18"	80° 13' 09"	Sawmill Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River			
Hawthorne Coal Co., Inc.	WV00139471	D-0184-00	011	38° 54' 18"	80° 13' 09"	Sawmill Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River			
ICG Beckley, LLC	WV015052	U-501-195	001	37° 46' 43"	81° 16' 10"	Millers Camp Branch	Marsh Fork	Big Coal River	Coal River	Kanawha River	Ohio River			
ICG Beckley, LLC	WV015052	U-501-195	402	37° 46' 43"	81° 16' 10"	Millers Camp Branch	Marsh Fork	Big Coal River	Coal River	Kanawha River	Ohio River			
ICG Eastern, LLC	WV0094889	S-2019-88	001	38° 26' 12.0000"	80° 38' 39.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	002	38-26-11	80-37-47	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	006	38° 25' 40"	80° 36' 45"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	014	38° 26' 11"	80° 36' 57"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	021	38° 25' 35.0000"	80° 37' 15.0000"	Board Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	028	38° 25' 59.0000"	80° 37' 55.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	031	38° 26' 16.0000"	80° 38' 4.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0094889	S-2019-88	035	38-26-11	80-38-52	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-238-76	016	38° 26' 37.0000"	80° 37' 5.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-238-76	041	38° 27' 1.0000"	80° 36' 36.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-2004-98	055	38° 26' 28.0000"	80° 36' 58.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-235-76	063	38° 27' 12.0000"	80° 36' 39.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-235-76	064	38° 25' 18.0000"	80° 29' 57.0000"	Back Fork	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV0098868	S-235-76	066	38° 27' 45.0000"	80° 35' 39.0000"	Cobb Run	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV101162	O-1030-91	001	38° 25' 59.0000"	80° 33' 16.0000"	Laurel Creek	Elk River	Kanawha River	Ohio River					
ICG Eastern, LLC	WV101162	O-1030-91	002	38° 26' 1"	80° 33' 14"	Laurel Creek	Elk River	Kanawha River	Ohio River					
ICG Eastern, LLC	WV101162	O-1058-91	005	38° 26' 21.0000"	80° 34' 40.0000"	Williams Branch	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	002	38° 26' 41.0000"	80° 37' 11.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	006	38° 26' 30.0000"	80° 37' 41.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	007	38° 26' 27"	80° 37' 52"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	009	38° 26' 31.0000"	80° 38' 4.0000"	Oldh Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	016	38° 26' 55.0000"	80° 37' 59.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	018	38° 27' 9.0000"	80° 37' 54.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	020	38° 27' 19.0000"	80° 37' 37.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	023	38° 26' 19.0000"	80° 37' 12.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	024	38° 27' 20.0000"	80° 37' 10.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017560	S-2003-02	027	38° 27' 28.0000"	80° 36' 51.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	005	38° 27' 40"	80° 37' 29"	Unnamed Tributary of Birch River	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	006	38° 27' 44"	80° 38' 59"	Birch River	Birch River	Kanawha River	Ohio River					
ICG Eastern, LLC	WV1017624	S-2006-03	015	38° 27' 8.0000"	80° 38' 22.0000"	Barnet Run	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	017	38° 27' 28.0000"	80° 38' 16.0000"	Cat Run	Cat Run	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	020	38° 27' 45"	80° 38' 11"	Unnamed Tributary of Birch River	Birch River of Elk River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	033	38° 27' 23.0000"	80° 37' 33.0000"	O'Brien Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	041	38° 27' 15"	80° 38' 22"	Barnet Run	Birch River	Elk River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1017624	S-2006-03	042	38° 27' 17"	80° 38' 14"	Unnamed Tributary of Cat Run	Cat Run or Barnet Run	Barnet Run	Elk River	Kanawha River	Ohio River			
ICG Eastern, LLC	WV1020145	S-5009-99	001	37° 54' 56"	82° 19' 26"	Turkey Creek	West Fork Twelvepole Creek	Twelvepole Creek	Ohio River					
ICG Eastern, LLC	WV1022237	S-3005-07	005	38° 24' 25"	80° 42' 14"	Muddley Creek	Muddley Creek	Gauler River	Kanawha River	Ohio River				
ICG Eastern, LLC	WV1022237	S-3005-07	009	38° 24' 45.0000"	80° 42' 2.0000"	Bearpen Fork	Big Beaver Creek	Gauler River	Kanawha River	Ohio River				
ICG Tygart Valley, LLC	WV1017764	U-2004-06	002	39° 20' 2.0000"	79° 57' 38" W	Rocks Branch	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
ICG Tygart Valley, LLC	WV1017764	U-2004-06	003	39° 20' 13" N	79° 57' 38" W	Three Fork Creek	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
ICG Tygart Valley, LLC	WV1017764	O-2017-06	006	39° 19' 47"	79° 58' 48"	Unnamed Tributary of Three Fork Creek	Three Fork Creek of Tygart Valley River	Tygart Valley River	Monongahela River	Ohio River				
ICG Tygart Valley, LLC	WV1017861	O-2017-06	001	39° 19' 47.0000"	79° 58' 48.0000"	Three Fork Creek	Tygart Valley River	Tygart Valley River	Monongahela River	Ohio River				
Juliana Mining Company, Inc.	WV0051845	H050500	003	38° 35' 1"	80° 35' 14"	Upper Laurel Fork	Camp Creek	Elk River	Kanawha River	Ohio River				
Juliana Mining Company, Inc.	WV0051845	P058500	101	38° 34' 55"	80° 34' 23"	Upper Laurel Fork	Camp Creek	Elk River	Kanawha River	Ohio River				
Juliana Mining Company, Inc.	WV0051845	R072800	109	38° 34' 23"	80° 35' 41"	Unnamed Tributary	Elk River	Kanawha River	Ohio River					
Juliana Mining Company, Inc.	WV1014145	S-2002-94	098	38° 32' 05"	80° 31' 18"	Upper Laurel Fork	Camp Creek	Laurel Creek	Elk River	Kanawha River	Ohio River			
Juliana Mining Company, Inc.	WV1014145	S-2008-96	150	38° 31' 34"	80° 30' 53"	Upper Laurel Fork	Laurel Creek	Elk River	Kanawha River	Ohio River				
King Knob Coal Co., Inc.	WV1002856	S-0056-79	013	39° 36' 36"	80° 04' 27"	Little Indian Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	PA0202975	30010101	010	39° 43' 35"	80° 02' 22"	Dooley Run	Dunkard Creek of Monongahela River	Ohio River						
Patriot Mining Co., Inc.	PA0250376	30030101	001	39° 47' 46"	79° 58' 36"	Unamed Tributary of Whitely Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	PA0250376	30030101	002	39° 47' 52"	79° 58' 37"	Unamed tributary of unnamed	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	PA0589765	30850103	001	39° 48' 39"	79° 59' 09"	Unamed tributary of unnamed	Unamed tributary of Whitely	Whitely Creek	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV0066885	S-0112-86	001	39° 28' 54"	79° 46' 37"	Squires Creek	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV0066885	S-0119-82	003	39° 28' 28"	79° 47' 12"	Squires Creek	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV0066885	S-1028-88	016	39° 25' 35"	79° 47' 38"	Birds Creek	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV0066885	S-1022-88	018	39° 25' 34"	79° 47' 21"	Birds Creek	Three Fork Creek	Tygart Valley River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV0067954	S-0015-84	001	39° 31' 31"	79° 57' 03"	Direct Drain to Monongahela River	Direct Drain to Monongahela	Ohio River						
Patriot Mining Co., Inc.	WV0067954	S-0015-84	002	39° 31' 42"	79° 56' 45"	Direct Drain to Monongahela	Direct Drain to Monongahela	Ohio River						
Patriot Mining Co., Inc.	WV0098264	S-0058-76	011	39° 38' 06"	80° 02' 56"	Tributary to Denits Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV0098264	S-1002-97	062	39° 39' 35"	80° 02' 38"	Tributary to Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1007050	E-0044-00	003	39° 30' 07"	79° 47' 13"	Kanes Creek	Upper Decker Creek	Decker Creek	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV1007688	S-1003-93	003	39° 30' 10"	79° 38' 42"	Greens Run	Cheat River	Monongahela River	Ohio River					
Patriot Mining Co., Inc.	WV1009826	S-2002-06	001	39° 34' 23"	80° 06' 24"	Indian Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1009826	S-2002-06	002	39° 34' 26"	80° 06' 14"	Indian Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1009826	S-2002-06	003	39° 34' 34"	80° 06' 14"	Indian Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1009826	S-2002-06	004	39° 34' 34"	80° 06' 4"	Indian Creek	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1011375	R-1076-86	001	39° 22' 14"	80° 26' 14"	Isaacs Creek	Tennile Creek	West Fork River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV1011375	R-1076-86	002	39° 22' 22.0000"	80° 26' 9.0000"	Isaacs Creek	Tennile Creek	West Fork River	Monongahela River	Ohio River				
Patriot Mining Co., Inc.	WV1017535	S-2010-01	001	39° 40' 06"	80° 03' 17"	Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1017535	S-2010-04	002	39° 40' 07"	80° 03' 04"	Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1017535	S-2010-04	007	39° 40' 07"	80° 02' 56"	Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1017535	S-2010-04	009	39° 40' 08"	80° 02' 49"	Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1017535	S-2010-04	011	39° 40' 08"	80° 02' 38"	Scotts Run	Monongahela River	Ohio River						
Patriot Mining Co., Inc.	WV1017535	S												

Permittee Name	NPDES Permit	SMCRA Permit	Outfall or Outlet #	Latitude	Longitude	Immediate	Secondary	Flows to	Flows to	Flows to	Flows to	Flows to	Flows to
Patriot Mining Co., Inc.	WV1017535	S-2014-06	020	39° 40' 25"	80° 02' 45"	Scotts Run	Monongahela River	Ohio River					
Patriot Mining Co., Inc.	WV1017845	S-2013-06	001	39° 34' 24"	80° 05' 53"	Indian Creek	Monongahela River	Ohio River					
Patriot Mining Co., Inc.	WV1017845	S-2013-06	002	39° 34' 22"	80° 05' 43"	Indian Creek	Monongahela River	Ohio River					
Powell Mountain Energy, LLC	VA0082027	L202027	001	36° 50' 1"	83° 4' 55"	Baileys Trace	Straight Creek	North Fork Powell River	Powell River	Clinch River	Tennessee River	Ohio River	
The Sycamore Group,	WV1011723	U-1007-96	401	39° 15' 43"	80° 27' 22"	Sycamore Creek	West Fork River	Monongahela River	Ohio River				
Vindex Energy Corporation	MD0067059	SM-99-432	002	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek	North Branch Potomac River	Potomac River	Chesapeake Bay		
Vindex Energy Corporation	MD0067059	SM-99-432	Clustered	39° 32' 00"	78° 59' 25"	Unnamed Tributary of Moores Run	Moores Run of Georges Creek	Georges Creek	North Branch Potomac River	Potomac River	Chesapeake Bay		
Vindex Energy Corporation	MDG851737	SM-84-393	011	39° 37' 38"	78° 58' 11"	Staub Run Woodland Creek	Woodland Creek of Georges Creek	Georges Creek	North Branch Potomac River	Potomac River	Chesapeake Bay		
Vindex Energy	MDG859612	SM-01-439	002	39° 36' 51"	78° 55' 22"	Unnamed Tributary of Vale	Vale Run of Georges Creek	Georges Creek	North Branch Potomac River	Potomac River	Chesapeake Bay		
Vindex Energy	WV0051101	S-0088-74	003	39° 16' 49"	79° 11' 25"	Abram Creek	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV0060372	O-0096-83	001	39° 12' 55"	79° 19' 21"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy Corporation	WV0060372		002	39° 16' 08"	79° 15' 36"	Unnamed Tributary of Stony River	Stony River of North Branch Potomac River	North Potomac River	Potomac River	Chesapeake Bay			
Vindex Energy	WV0095061	S-2001-96	007	39° 15' 58"	79° 10' 45"	Abram Creek	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-0125-79	001	39° 14' 10"	79° 17' 54"	Abram Creek	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-1010-91	002	39° 13' 38.0000"	79° 18' 7.0000"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-1010-91	003	39° 13' 16.0000"	79° 17' 46.0000"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-0125-79	004	39° 14' 14.0000"	79° 17' 36.0000"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-0125-79	009	39° 13' 18"	79° 17' 50"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy	WV1010417	S-0125-79	025	39° 08' 01"	79° 17' 36"	Stony River	North Potomac River	Potomac River	Chesapeake Bay				
Vindex Energy Corporation	WV1023241		001	39° 12' 05"	79° 20' 26"	Unnamed Tributary of Beaver Creek	Beaver Creek of Blackwater River	Blackwater River	Black Fork	Cheat River	Monongahela River		
White Wolf Energy, Inc.	VA0081983	L201983	001	37° 07' 11"	81° 48' 09"	West Fork Big Creek	Big Creek of Clinch River	Clinch River	Norris Lake	Clinch River	Melton Hill Lake	Clinch River	Watts Bar Lake
Wolf Run Mining Co.	WV0043273	O-0113-83	004	39° 12' 13"	80° 04' 10"	Foxgrape Run	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV0043273	O-0113-83	010	39° 12' 20"	80° 04' 05"	Foxgrape Run	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV0043273	O-0113-83	402	39° 11' 40"	80° 03' 15"	Foxgrape Run	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV0043273	U-0015-83	403	39° 12' 00"	80° 03' 31"	Foxgrape Run	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV0097341	U-19-84	003	37° 45' 42"	81° 18' 2"	Millers Camp Branch	Marsh Fork	Big Coal River	Kanawha River	Ohio River			
Wolf Run Mining Co.	WV1014188	U-0028-83	001	38° 57' 07"	80° 14' 05"	Cutright Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River		
Wolf Run Mining Co.	WV1014188	U-0028-83	002	38° 57' 02"	80° 14' 17"	Cutright Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River		
Wolf Run Mining Co.	WV1017951	U-2002-02	001	39° 14' 38"	80° 29' 09"	Tennille Creek	West Fork River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV1017985	U-2016-98	401	38° 54' 46"	80° 13' 27"	Direct to Buckhannon River	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV1017985	U-2016-98	001	38° 54' 47"	80° 13' 37"	Direct Buckhannon River	Tygart Valley River	Monongahela River	Ohio River				
Wolf Run Mining Co.	WV1018116	U-2002-01	001	38° 54' 46"	80° 11' 43.0000"	Grassy Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River		
Wolf Run Mining Co.	WV1018116	U-2002-01	002	38° 54' 02"	80° 11' 36"	Grassy Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River		
Wolf Run Mining Co.	WV1018116	U-2002-01	401	38° 54' 6"	80° 11' 43"	Grassy Run	Upper Buckhannon River	Buckhannon River	Tygart Valley River	Monongahela River	Ohio River		
Wolf Run Mining Co.	WV0043273	O-113-83	005	39° 11' 29"	80° 03' 24"	Foxgrape Run	Tygart Valley River	Monongahela River	Ohio River				

Complaint Appendix C2: Flow Pathways for Kentucky Operations

Permittee Name	NPDES Permit	SMCRA Permit	Outfall #	Latitude	Longitude	Immediate	Secondary	Flows to	Flows to	Flows to	Flows to	Flows to	Flows To
ICG East Kentucky, LLC	KYG045173	898-0735	032	37°31'18"	82°13'57"	Unnamed Tributary to Right Fork of Blackberry Creek	Right Fork of Blackberry Creek	Blackberry Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River			
ICG East Kentucky, LLC	KYG045173	898-0735	037	37°32'29"	82°14'12"	Middle Branch	Right Fork of Blackberry Creek	Blackberry Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River			
ICG East Kentucky, LLC	KYG045173	898-0735	046	37°33'19"	82°14'43"	Ball Fork of May Fork	May Fork	Pond Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River			
ICG East Kentucky, LLC	KYG045336	898-0737	001	37°30'52"	82°13'48"	Left Fork Blackberry Creek	Blackberry Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River				
ICG East Kentucky, LLC	KYG046183	880-0179	006	37°44'23"	82°20'37"	Unnamed Tributary to Big Creek (lat/long is not in stream)	Big Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River				
ICG East Kentucky, LLC	KYG046183	880-0179	007	37°44'40"	82°20'19"	Goff Branch	Big Creek	Tug Fork (navigable 58 miles above confluence with Big Sandy River)	Big Sandy River				
ICG Knott County, LLC	KY0094285	860-8022	003	37°19'11"	82°46'42"	Unnamed Trib of Bates Branch	Bates Branch of Right Fork Beaver Creek	Right Fork Beaver Creek	Beaver Creek	Levisa Fork			
ICG Knott County, LLC	KYG041041	860-8014	001	37°23'16"	82°48'27"	Big Branch	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River		
ICG Knott County, LLC	KYG042589	860-5267	003	37°19'03"	82°50'37"	Unnamed Tributary to Left Fork	Left Fork Hollybush Creek	Hollybush Creek	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River
ICG Knott County, LLC	KYG042754	860-5268	003	37°17'50"	82°52'53"	Mallet Branch	Carr Fork	North Fork Kentucky River (navigable 6.4 miles above confluence with Kentucky River)	Kentucky River				
ICG Knott County, LLC	KYG042754	860-5268	004	37°18'57"	82°52'42"	Trace Fork	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River		
ICG Knott County, LLC	KYG043345	860-0414	001	37°19'06"	82°50'39"	Unnamed Tributary of Left Fork Hollybush Creek	Left Fork Hollybush Creek	Hollybush Creek	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River
ICG Knott County, LLC	KYG045000	860-9018	001	37° 18' 44"	82° 48' 00"	Joe King Branch	Right Fork Beaver Creek	Beaver Creek	Levisa Fork				
ICG Knott County, LLC	KYG045265	860-0526	001	37°23'10"	82°49'25"	Huff Branch of Caney Fork	Caney Fork of Right Fork Beaver Creek	Right Fork Beaver Creek	Beaver Creek	Levisa Fork			
ICG Knott County, LLC	KYG045265	860-0441	002	37°23'23"	82°49'39"	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River			
ICG Knott County, LLC	KYG045360	860-5279	001	37° 17' 35"	82° 54' 53"	Smith Branch	Reynolds Fork	North Fork Kentucky River (TNW)					
ICG Knott County, LLC	KYG045805	860-5271	008	37°17'44"	82°49'07"	Bill D Branch	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 above confluence with Big Sandy River)	Big Sandy River			
ICG Knott County, LLC	KYG046374	860-5324	001	37°21'13"	82°51'58"	Unnamed Tributary to Caney Fork	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 miles above confluence with Big Sandy River)	Big Sandy River		
ICG Knott County, LLC	KYG046374	860-5324	002	37°21'09"	82°05'55"	Unnamed Tributary to Caney Fork	Caney Fork	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 miles above confluence with Big Sandy River)	Big Sandy River		
ICG Knott County, LLC	KYG094285	860-8012	003	37°19'9"	82°47'22"	Unnamed Tributary of Bates Branch	Bates Branch of Right Fork Beaver Creek	Right Fork Beaver Creek	Beaver Creek	Levisa Fork (navigable 130 miles above confluence with Big Sandy River)	Big Sandy River		
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045377	897-0455	003	37°11'01"	83°01'21"	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Carr Fork	North Fork Kentucky River (navigable 6.4 miles above confluence with Kentucky River)	Kentucky River			
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045377	897-0455	020	37° 10' 36"	83° 01' 47"	Big Branch	North Fork Kentucky River (navigable 6.4 miles above confluence with Kentucky River)	Kentucky River					

Complaint Appendix C2: Flow Pathways for Kentucky Operations

Permittee Name	NPDES Permit	SMCRA Permit	Outfall #	Latitude	Longitude	Immediate	Secondary	Flows to	Flows to	Flows to	Flows to	Flows to	Flows To
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045377	897-0455	023	37°1'102"	83°01'34"	Unnamed Tributary of Unnamed Tributary of Montgomery Creek	Unnamed Tributary to Montgomery Creek	Montgomery Creek	Carr Fork	North Fork Kentucky River (navigable 6.4 miles above confluence with Kentucky River)	Kentucky River		
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045377	897-0455	044	37°10'24"	83°01'25"	Unnamed Tributary of Upper Lick Fork	Bull Creek	North Fork Kentucky River (navigable 6.4 miles above confluence with Kentucky River)	Kentucky River				
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045542	866-0295	001	37°04'19"	83°18'38"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Cutshin Creek	Middle Fork Kentucky River (navigable 4.7 miles above confluence with Kentucky River)	North Fork Kentucky River	Kentucky River		
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045542	866-0295	002	37°04'09"	83°18'29"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Cutshin Creek	Middle Fork Kentucky River (navigable 4.7 miles above confluence with Kentucky River)	North Fork Kentucky River	Kentucky River		
ICG Knott County, LLC (formerly held by ICG Hazard, LLC)	KYG045542	866-0295	006	37°04'36"	83°18'36"	Unnamed Tributary of Raccoon Creek	Raccoon Creek	Cutshin Creek	Middle Fork Kentucky River (navigable 4.7 miles above confluence with Kentucky River)	North Fork Kentucky River	Kentucky River		
ICG Knott County, LLC	KYG045542	866-0295	020	37°03'51"	83°18'28"	Muncy Branch	Raccoon Creek	Cutshin Creek	Middle Fork Kentucky	North Fork Kentucky	Kentucky River		
Powell Mountain Energy, LLC	KYG040167	848-5470	003	36°52'28"	83°03'32"	Child's Branch	Clover Fork Cumberland River (navigable 11 miles above confluence with Cumberland River)	Cumberland River					
Powell Mountain Energy, LLC	KYG040167	848-5470	005	36°52'27"	83°03'31"	Child's Branch	Clover Fork Cumberland River (navigable 11 miles above confluence with Cumberland River)	Cumberland River					
Powell Mountain Energy, LLC	KYG040167	848-5514	006	36°52'30"	83°03'32"	Unnamed Tributary of Child's Branch	Child's Branch	Clover Fork Cumberland River (navigable 11 miles above confluence with Cumberland River)	Cumberland River				