

Definitions and Abbreviations

Withdrawal is the removal of water from a source for use, described as a daily quantity in **million gallons per day (mgd)** or as a maximum instantaneous rate in **gallons per minute (gpm)**.

Streamflow is the volume of water moving through a natural channel that passes a given point in a given period of time, commonly in units of **cubic feet per second (cfs)** or gpm.

HUC—Hydrologic Unit Code is a unique numeric identifier representing a specific surface drainage area, used for management purposes.

DA—Drainage area, in **square miles (mi²)**, is the area of surface drainage upstream from the site of interest that is often delineated on a topographic map.

ADF—Average daily flow is the arithmetic average of the daily streamflow measurement over the entire period of record.

Q7-10 Flow—The lowest average, consecutive 7-day flow that would occur with a recurrence interval of 1 in 10 years. A 10-year flow event has a 10 percent chance of occurring in any 1 year.

Passby Flow—A prescribed flow intended to protect aquatic resources and other users that may not be diminished by the withdrawal. The Susquehanna River Basin Commission's (Commission's) policy stipulates that a required passby flow will never be less than the Q7-10 flow.

AMD—Abandoned mine drainage.

Stream Classifications—New York (NY) and Pennsylvania (PA) classify surface waters by resource quality, stream use, and habitat. Classifications for streams are listed below:

Class C (NY) refers to fresh surface waters that are protected as fisheries, for fish survival and reproduction. The water quality also should be suitable for primary and secondary contact recreation, such as swimming and boating.

T—Trout Waters (NY) is a subcategory for streams where trout survival also is a protected use.

CWF—Cold Water Fishes (PA) refers to a stream where the fish population consists of trout and other fish species, such as blacknose dace, sculpins, and some darters, that need cold water to survive and reproduce.

WWF—Warm Water Fishes (PA) refers to a stream where the fish population consists of bass, catfish, and other fish species such as carp and bluegills, which generally live in warm water habitats.

TSF—Trout Stocking (PA) refers to a stream that contains a stocked trout fishery from February 15 to July 31. The fish population also consists of warm water fishes, as described above.

EV—Exceptional Value (PA) waters are considered an outstanding state resource for one or more reasons, such as: (1) a location in a national or state refuge or protected area; (2) an exceptional recreational significance; (3) an exceptional biological community or very high water quality; or (4) designation as a wilderness trout stream by the Pennsylvania Fish and Boat Commission. Withdrawals may not cause greater than a 5 percent loss of habitat.

HQ—High-Quality (PA) waters refer to streams where the biological or water quality consistently exceeds standards set by the Pennsylvania Department of Environmental Protection or that have been designated as a Class A wild trout stream by the Pennsylvania Fish and Boat Commission. Water withdrawals may not cause greater than a 5 percent loss of habitat.

Project Review Application Requirements and Standard Docket Conditions

Notification Requirements—Project sponsors are required to notify the municipality where the project is located, the county planning agency, contiguous property owners, and publish a legal notice in a local newspaper about their project. The Commission values input from the public and considers all comments received during its technical review.

Coordination—The Commission conducts an independent review of project applications and coordinates its actions on projects with agencies of the signatory parties. Where the signatory agency or any political subdivision of the signatory agency (i.e., local government) having jurisdiction over the project denies or otherwise disapproves the project, the Commission will suspend its review for up to three years (pending final resolution) or terminate its review.

Aquifer Test—Project sponsors requesting approval of a groundwater withdrawal are required to conduct a constant-rate aquifer test (commonly 72 hours in duration) and to submit the results with their application. The aquifer test is used to evaluate impacts on the aquifer, on other nearby existing users (including domestic wells), and surface water resources (streams and wetlands). Prior approval of the testing procedures is required.

Metering—Projects approved by the Commission are required to meter withdrawals and consumptive uses.

Monitoring and Reporting—Projects approved by the Commission are required to monitor their withdrawal and consumptive use amounts and routinely report these data (quarterly) to the Commission for the duration of the approval.

Periodic Inspection—The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling; to take photographs; to perform measurements, surveys, and other tests; to inspect the methods of construction, operation, or maintenance; to inspect all measurement equipment; to audit, examine, and copy books papers, and records pertinent to any matter under investigation; and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

Mitigation—If the Commission determines that the operation of the project's groundwater withdrawal adversely affects any existing groundwater or surface water withdrawal, the project sponsor is required to provide, at its expense, an alternate water supply or other mitigating measures.

Water Conservation—Projects approved by the Commission are subject to its water conservation regulations that require use of applicable water conservation devices, recirculation and reuse strategies, properly designed irrigation systems, and metering for sources and customers.

Docket Reopener—The Commission reserves the right, based on new findings, to reopen any project docket and make additional orders to mitigate or avoid adverse impacts or to otherwise protect the public health, safety, welfare, or the environment.

**STANDARD CONDITIONS CONTAINED IN
GAS WELL SURFACE WATER DOCKETS**

1. The project's surface water withdrawal of up to xxxx mgd, when available, from xxxx at the location specified in the application in xxxx Township, xxxx County, xxxx, is approved pursuant to Article 3, Section 3.10, of the Compact.
2. The project sponsor shall submit its intake design/withdrawal device; disinfection plan, if appropriate; a process flow schematic showing the configuration of how the water will be withdrawn and routed to the storage impoundment and drilling pads; and performance specifications for the pump and flow meter or metering plan to measure the quantity of water withdrawn for review and approval by Commission staff prior to any withdrawal. The project sponsor may propose alternative metering and monitoring for Commission staff review and approval. The project sponsor shall not utilize the device until it receives written approval of the design and disinfection plan, if appropriate, from the Commission.
3. Upon approval of the meter specifications or metering plan, and prior to any withdrawal, the project sponsor shall install and maintain metering on the withdrawal from xxxx, in accordance with Commission Regulation §806.30. The project sponsor shall notify the Commission, in writing, and submit digital photographs of the meter when it has been installed and certify the accuracy of the measuring device to within five (5) percent of actual flow.
4. The project sponsor shall keep daily records of the project's surface water withdrawal and shall report the data to the Commission quarterly, and as otherwise required. The project sponsor also shall keep daily records of the well sites receiving the water withdrawn under this approval and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter.
5. The maximum instantaneous rate of withdrawal at the stream intake shall not exceed xxxx gpm.
6. The project sponsor shall cease all withdrawals from xxxx when streamflow, as measured at the U.S. Geological Survey's stream gage xxxx on xxxx at xxxx, xxxx, is less than xxxx cfs, and shall not reinstate withdrawals until the streamflow has remained above xxxx cfs for 48 hours. The project sponsor shall keep daily records of the U.S. Geological Survey stream gage and shall report the data to the Commission, as required. The project sponsor may propose alternative flow monitoring to the Commission for staff review and approval.
7. Prior to any withdrawal of water, the project sponsor shall post at each entry to the property from a public right-of-way a sign that meets Commission specifications and displays a project description. The project description shall identify the project sponsor, project name, docket approval number, and conditions of surface water withdrawal approval including quantity, rate and passby flow requirement, docket expiration date, and Commission contact information. The project sponsor may, at its discretion, include its contact information on the sign. The project sponsor shall submit digital photographs as proof of sign installation prior to the initiation of the withdrawal and maintain the sign during the duration of the approval.

**STANDARD CONDITIONS CONTAINED IN
GAS WELL SURFACE WATER DOCKETS (CONT'D)**

8. The project sponsor shall demonstrate to the satisfaction of the Commission that all water withdrawn from surface water sources is transported, stored, injected into a well, or discharged with appropriate controls and treatment to prevent the spread of aquatic nuisance species.
9. The project sponsor shall certify to the Commission that the property owner has granted access to the proposed withdrawal location and maintain the land use agreement for the duration of the approval. The project sponsor shall notify the Commission within thirty (30) days of termination of the land use agreement.
10. The project sponsor shall maintain the totalizing meter and other measuring devices, accurate to within five (5) percent, so as to provide an accurate record of withdrawals and uses, and certify to the Commission once every two (2) years, or as otherwise requested, the accuracy of all measuring devices and methods to within five (5) percent of actual flow.
11. If the project sponsor fails to comply with the provisions of the Compact or any rule, regulation, or order of the Commission, or any term or condition of this docket, the project is subject to enforcement actions pursuant to Commission Regulation §808.
12. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.
13. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.
14. This approval is effective until xxxx. As specified in Commission Regulation §806.31(e), the project sponsor shall submit a renewal application by xxxx, and obtain Commission approval prior to continuing operation beyond xxxx.
15. The project sponsor has a period of three (3) years from the date of this approval to initiate the project or this approval will automatically expire, unless an extension is requested by the project sponsor and approved by the Commission. Likewise, if the project is discontinued for such a time and under such circumstances that an abandonment of the project may be reasonably inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

Tabled Project Applications

Commission staff is recommending the following six project applications be tabled at this time:

ALTA Operating Company, LLC

DuBois Creek

<i>State:</i>	PA	<i>County:</i>	Susquehanna	<i>Municipality:</i>	Great Bend Township
<i>Requested Withdrawal:</i>	6.9 gpm		0.010 mgd		

Anadarko E&P Company LP

West Branch Susquehanna River-4

<i>State:</i>	PA	<i>County:</i>	Centre	<i>Municipality:</i>	Burnside Township
<i>Requested Withdrawal:</i>	500 gpm		0.720 mgd (daily)		0.720 mgd (30-day average)

EOG Resources, Inc.

Bennett Branch-3, Sinnemahoning Creek

<i>State:</i>	PA	<i>County:</i>	Clearfield	<i>Municipality:</i>	Huston Township
<i>Requested Withdrawal:</i>	201 gpm		0.290 mgd		

Chemung River-1

<i>State:</i>	NY	<i>County:</i>	Chemung	<i>Municipality:</i>	Town of Chemung
<i>Requested Withdrawal:</i>	223 gpm		0.322 mgd (daily)		0.322 mgd (30-day average)

Schuylkill County Municipal Authority

Pottsville Public Water Supply System, Mount Laurel Subsystem

<i>State:</i>	PA	<i>County:</i>	Schuylkill	<i>Municipality:</i>	Butler Township
<i>Requested Withdrawal:</i>	0.362 mgd (30-day average system limit)			<i>From:</i>	Gordon Well
<i>Maximum Instantaneous Rate:</i>	297 gpm				

Pottsville Public Water Supply System, Mount Laurel Subsystem

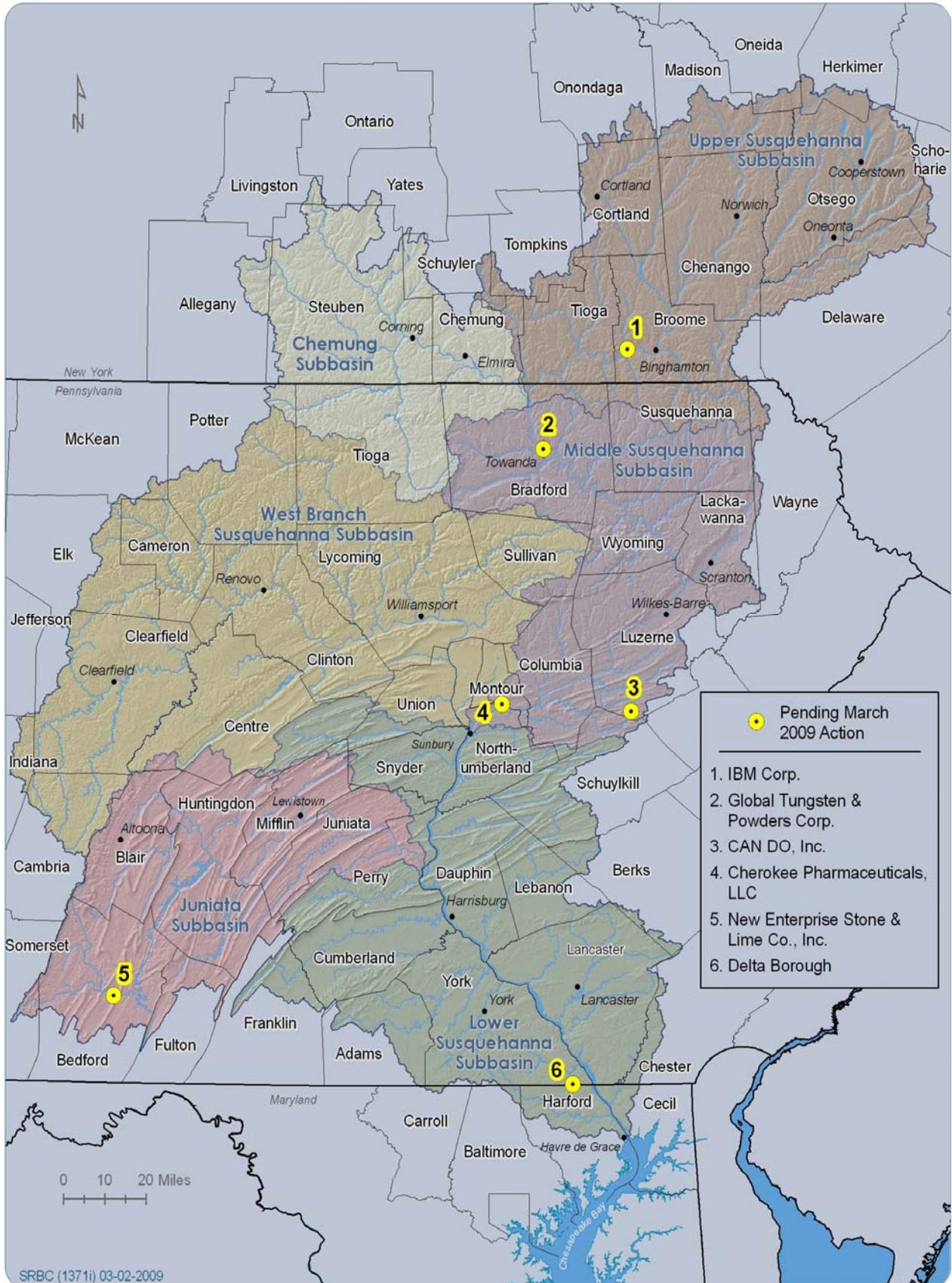
<i>State:</i>	PA	<i>County:</i>	Schuylkill	<i>Municipality:</i>	Butler Township
<i>Requested Out-of-Basin Diversion:</i>	0.362 mgd (peak day)				

The following project application has been withdrawn:

EOG Resources, Inc.

Kersey Run – Application withdrawn by project sponsor.

PROJECT APPLICATIONS



Commission staff is recommending action on the following project applications:

IBM Corporation, Endicott Facility (Map ID 1)

SRBC Docket No. 20090329

<i>State:</i>	NY	<i>County:</i>	Broome	<i>Municipality:</i>	Village of Endicott
<i>Requested Withdrawal:</i>	1.010 mgd (30-day average system limit)			<i>From:</i>	Remediation Wells
Commission staff's recommended action: Approve withdrawal at the requested rate of 1.010 mgd (30-day average system limit) for remediation wells.					

Global Tungsten & Powders Corp. (Map ID 2)

SRBC Docket No. 20090328

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	North Towanda Township and Towanda Borough
<i>Requested Consumptive Water Use:</i>	0.170 mgd (peak day)				
Commission staff's recommended action: Approve consumptive use at the requested rate of 0.170 mgd (peak day).					

CAN DO, Inc., Corporate Center (Map ID 3)

SRBC Docket No. 20090309

<i>State:</i>	PA	<i>County:</i>	Luzerne	<i>Municipality:</i>	Butler Township
<i>Requested Withdrawal:</i>	380 gpm	0.547 mgd (30-day average)		<i>From:</i>	Well 1
Commission staff's recommended action: Approve withdrawal at the requested rate of 0.547 mgd (30-day average) for Well 1.					

**Cherokee Pharmaceuticals, LLC (Map ID 4)
Consumptive Use**

SRBC Docket No. 20090310

<i>State:</i>	PA	<i>County:</i>	Northumberland	<i>Municipality:</i>	Riverside Borough
<i>Requested Consumptive Water Use:</i>	0.999 mgd (peak day)				
Commission staff's recommended action: Approve consumptive use at the requested rate of 0.999 mgd (peak day).					

**Cherokee Pharmaceuticals, LLC (Map ID 4)
Surface Water Withdrawal**

SRBC Docket No. 20090311

<i>State:</i>	PA	<i>County:</i>	Northumberland	<i>Municipality:</i>	Riverside Borough
<i>Requested Withdrawal:</i>	23,883 gpm	34.392 mgd (daily)		<i>From:</i>	North Branch Susquehanna River
<i>HUC:</i>	02050107	<i>Drainage Area:</i>	11,272 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	657.4 mgd	<i>Passby Required:</i>	No, requested rate of withdrawal is 5.2% of the calculated Q7-10 flow		
Commission staff's recommended action: Maximum instantaneous rate of withdrawal is limited to 23,883 gpm; peak day is limited to the requested 34.392 mgd.					

Cherokee Pharmaceuticals, LLC (Map ID 4)
Groundwater Withdrawal

SRBC Docket No. 20090312

<i>State:</i>	PA	<i>County:</i>	Northumberland	<i>Municipality:</i>	Riverside Borough
<i>Requested Withdrawal:</i>	0.600 mgd (30-day average system limit)			<i>From:</i>	Recovery Wells
Commission staff's recommended action: Approve withdrawal at the requested rate of 0.600 mgd (30-day average system limit) for the recovery wells.					

New Enterprise Stone & Lime Co., Inc. (Map ID 5)
Ashcom Quarry

SRBC Docket No. 20031204-2

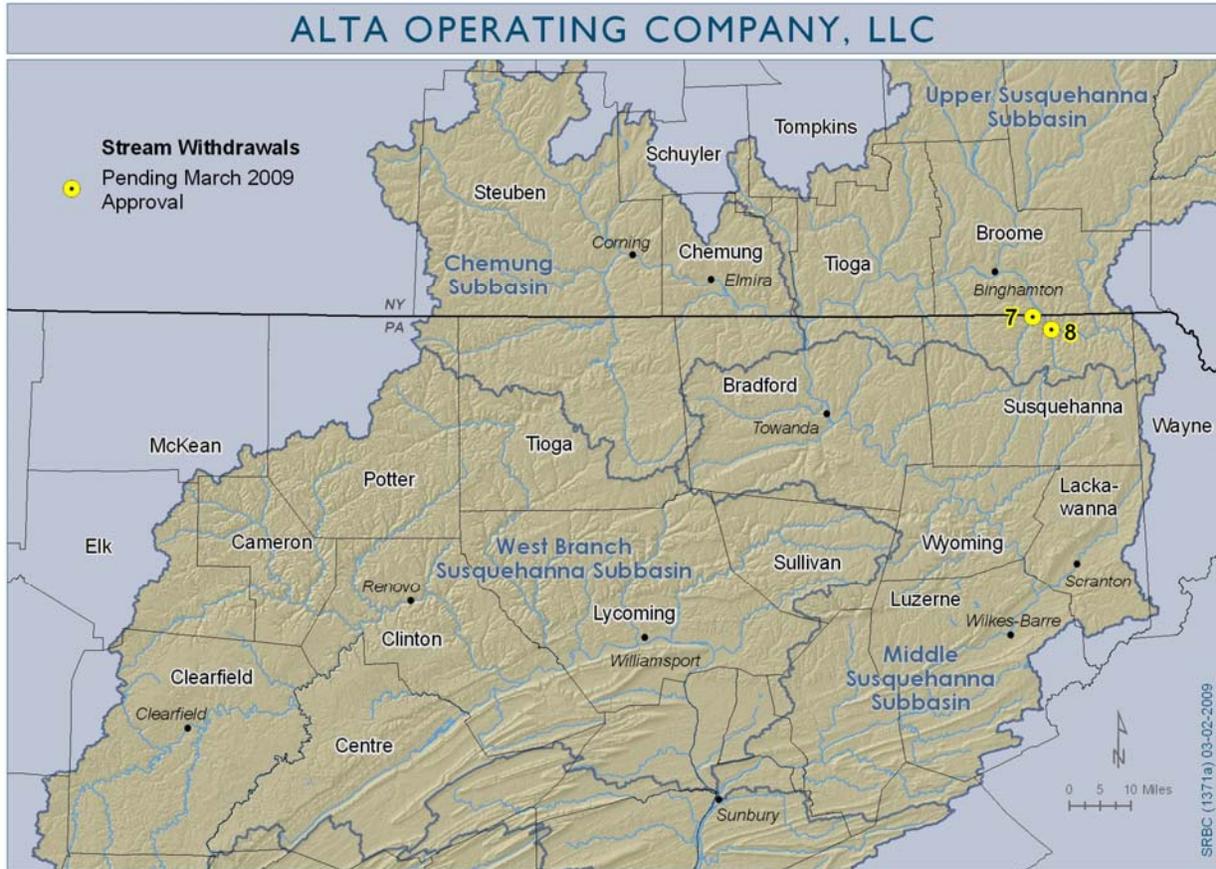
<i>State:</i>	PA	<i>County:</i>	Bedford	<i>Municipality:</i>	Snake Spring Valley Township
<i>Requested Withdrawal:</i>	20 gpm	0.025 mgd (30-day average))		<i>From:</i>	Well 2
Commission staff's recommended action: Approve the requested maximum instantaneous withdrawal rate increase of 20 gpm in Well 2; the 30-day average will continue at 0.025 mgd.					

Delta Borough (Map ID 6)

SRBC Docket No. 20090315

<i>State:</i>	PA	<i>County:</i>	York	<i>Municipality:</i>	Peach Bottom Township
<i>Requested Withdrawal:</i>	22.5 gpm	0.019 mgd (daily)		<i>From:</i>	Well DR-2
Commission staff's recommended action: Approve the requested maximum instantaneous withdrawal rate of 22.5 gpm in Well DR-2; approve a reduced 30-day average withdrawal rate of 0.019 mgd, based on groundwater availability.					

Natural Gas Development Project Applications



ALTA Operating Company, LLC

Map ID	Source	Approved Quantity (mgd)
7	Snake Creek	0.099
8	Susquehanna River	3.000

Snake Creek (Map ID 7)

SRBC Docket No. 20090302

<i>State:</i>	PA	<i>County:</i>	Susquehanna	<i>Municipality:</i>	Liberty Township
<i>Requested Withdrawal:</i>	68 gpm	0.099 mgd (daily)	0.099 mgd (30-day average)		
<i>HUC:</i>	02050101	<i>Drainage Area:</i>	73.4 mi ²	<i>Stream Class:</i>	CWF
<i>Q7-10:</i>	712 gpm	<i>ADF:</i>	112 cfs	<i>Passby Required:</i>	Yes, 20% ADF

Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 22.4 cfs (10,036 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 68 gpm; peak day is limited to the requested 0.099 mgd, when available.

Susquehanna River (Map ID 8)

SRBC Docket No. 20090303

<i>State:</i>	PA	<i>County:</i>	Susquehanna	<i>Municipality:</i>	Great Bend Township
<i>Requested Withdrawal:</i>	2,080 gpm	3,000 mgd (daily)	3,000 mgd (30-day average)		
<i>HUC:</i>	02050101	<i>Drainage Area:</i>	2,044 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	77,841 gpm	<i>ADF:</i>	3,281.2 cfs	<i>Passby Required:</i>	No
<p>Commission staff's recommended action: Maximum instantaneous rate of withdrawal is limited to the requested 2,080 gpm; peak day is limited to the requested 3,000 mgd.</p>					



Anadarko E&P Company LP

Map ID	Source	Approved Quantity (mgd)
9	Pine Creek	0.720
10	West Branch Susquehanna River-1	0.720
11	West Branch Susquehanna River-2	0.720
12	West Branch Susquehanna River-3	0.720

Pine Creek (Map ID 9)

SRBC Docket No. 20090304

<i>State:</i>	PA	<i>County:</i>	Lycoming	<i>Municipality:</i>	Cummings Township
<i>Requested Withdrawal:</i>	500 gpm	0.720 mgd (daily)	0.720 mgd (30-day average)		
<i>HUC:</i>	02050205	<i>Drainage Area:</i>	944 mi ²	<i>Stream Class:</i>	HQ-TSF
<i>Q7-10:</i>	16,697 gpm	<i>ADF:</i>	1,390 cfs	<i>Passby Required:</i>	No, requested rate of withdrawal plus cumulative uses is 6.2% of the calculated Q7-10 flow

Commission staff's recommended action: Maximum instantaneous rate of withdrawal is limited to 500 gpm; peak day is limited to the requested 0.720 mgd.

West Branch Susquehanna River–1 (Map ID 10)**SRBC Docket No. 20090305**

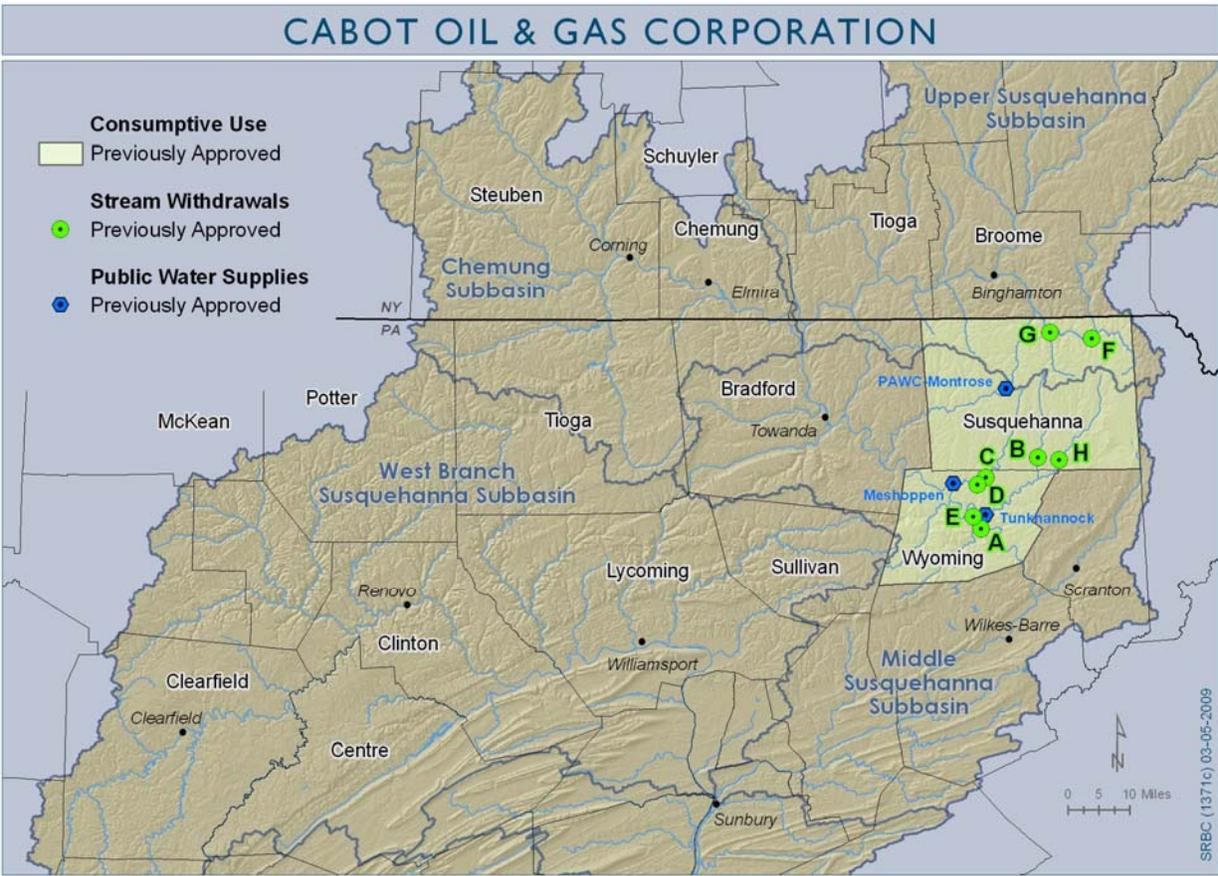
<i>State:</i>	PA	<i>County:</i>	Clinton	<i>Municipality:</i>	Chapman Township
<i>Requested Withdrawal:</i>	500 gpm	0.720 mgd (daily)	0.720 mgd (30-day average)		
<i>HUC:</i>	02050203	<i>Drainage Area:</i>	3,140 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	77,217 gpm	<i>ADF:</i>	5,087.3 cfs	<i>Passby Required:</i>	Yes, 20% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 1,017.5 cfs (455,856 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 500 gpm; peak day is limited to the requested 0.720 mgd, when available.					

West Branch Susquehanna River–2 (Map ID 11)**SRBC Docket No. 20090306**

<i>State:</i>	PA	<i>County:</i>	Clinton	<i>Municipality:</i>	Renovo Borough
<i>Requested Withdrawal:</i>	500 gpm	0.720 mgd (daily)	0.720 mgd (30-day average)		
<i>HUC:</i>	02050203	<i>Drainage Area:</i>	2,980 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	73,282 gpm	<i>ADF:</i>	4,828.1 cfs	<i>Passby Required:</i>	Yes, 20% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 965.6 cfs (432,625 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 500 gpm; peak day is limited to the requested 0.720 mgd, when available.					

West Branch Susquehanna River–3 (Map ID 12)**SRBC Docket No. 20090307**

<i>State:</i>	PA	<i>County:</i>	Lycoming	<i>Municipality:</i>	Nippenose Township
<i>Requested Withdrawal:</i>	500 gpm	0.720 mgd (daily)	0.720 mgd (30-day average)		
<i>HUC:</i>	02050206	<i>Drainage Area:</i>	5,229.9 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	198,711 gpm	<i>ADF:</i>	8,063 cfs	<i>Passby Required:</i>	Yes, 20% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 1,612.6 cfs (723,882 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 500 gpm; peak day is limited to the requested 0.720 mgd, when available.					



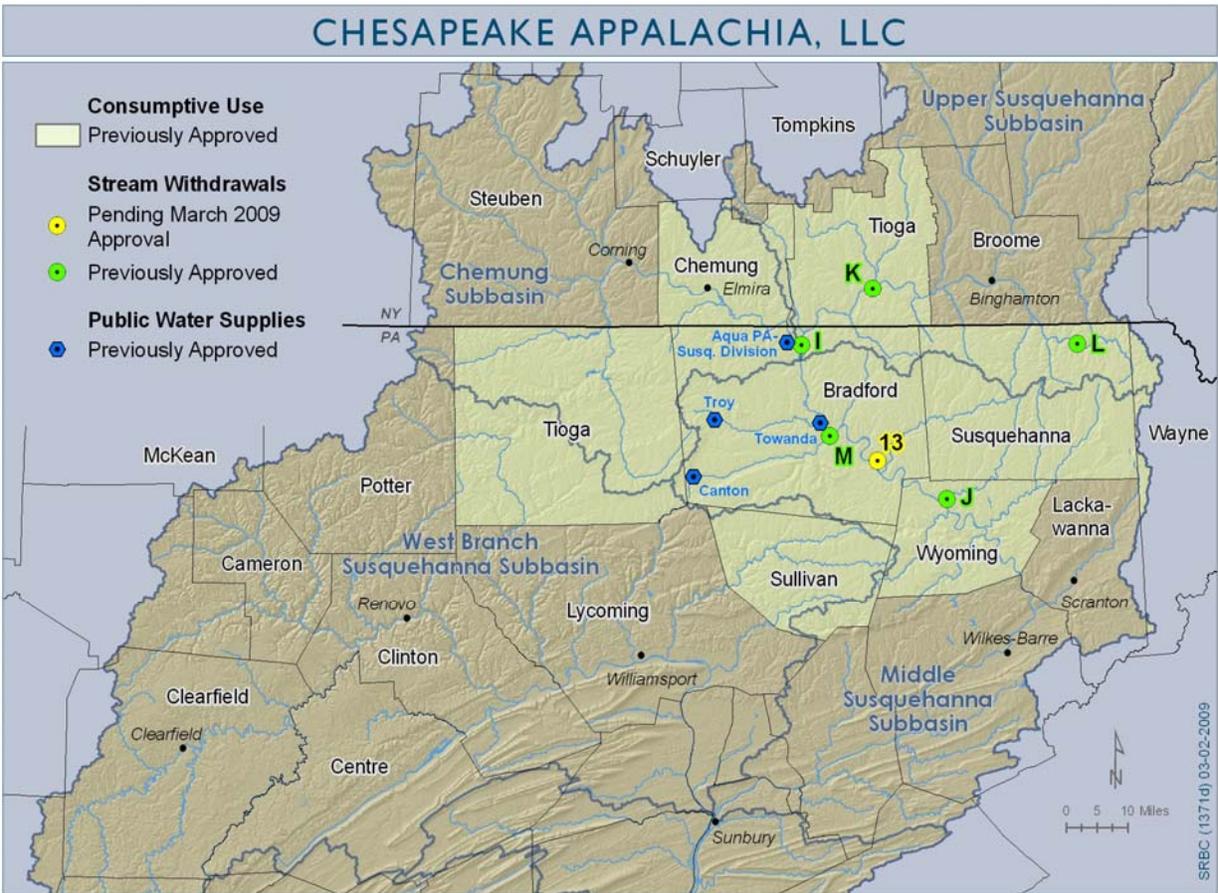
Cabot Oil & Gas Corporation

Modification of Consumptive Use

SRBC Docket No. 20080904-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
A	Bowmans Creek – Docket No. 20080929	0.290
B	Martins Creek – Docket No. 20080917	0.074
C	Meshoppen Creek-1 – Docket No. 20080920	0.054
D	Meshoppen Creek-2 – Docket No. 20080919	0.054
E	Susquehanna River-1 – Docket No. 20080927	0.720
F	Susquehanna River-2 – Docket No. 20080908	0.720
G	Susquehanna River-3 – Docket No. 20080905	0.720
H	Tunkhannock Creek – Docket No. 20080918	0.250



Chesapeake Appalachia, LLC

Modification of Consumptive Use

SRBC Docket No. 20080902-2

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

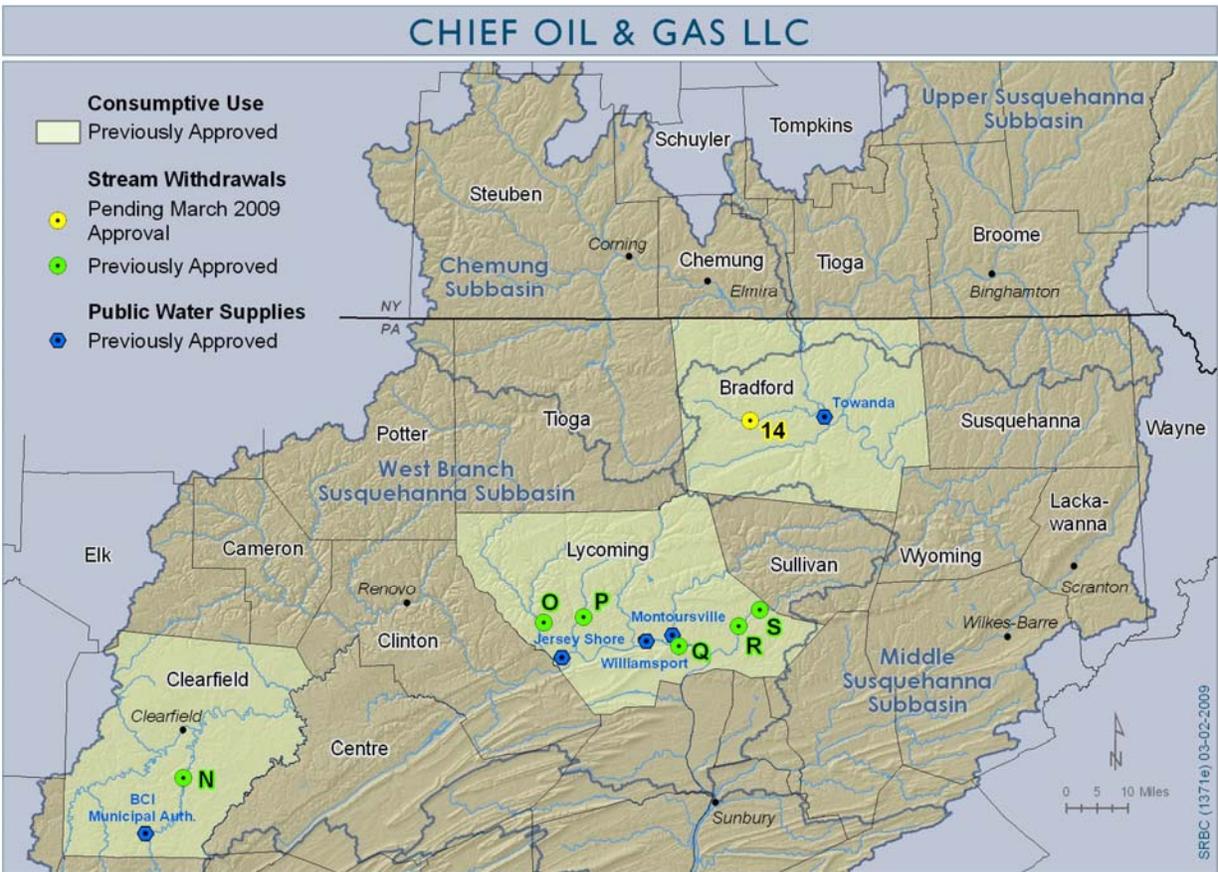
Map ID	Source	Approved Quantity (mgd)
13	Susquehanna River (Terry Township)*	0.999
I	Susquehanna River-1 – Docket No. 20080906	0.999
J	Susquehanna River-2 – Docket No. 20080923	0.999
K	Susquehanna River-3 – Docket No. 20080903	0.999
L	Susquehanna River-4 – Docket No. 20080907	0.999
M	Susquehanna River-5 – Docket No. 20080914	0.999

***Project sponsor requested this application be tabled at the March 12, 2009 meeting.**

Susquehanna River (Map ID 13)

SRBC Docket No. 20090313

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	Terry Township
<i>Requested Withdrawal:</i>	1,000 gpm	0.999 mgd (daily)	0.850 mgd (30-day average)		
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	8,250 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	275,922 gpm	<i>ADF:</i>	11,215.9 cfs	<i>Passby Required:</i>	Yes, 20% ADF
<p>Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 2,243 cfs (1,006,934 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 1,000 gpm; peak day is limited to the requested 0.999 mgd, when available.</p>					



Chief Oil & Gas LLC

- Modification of Consumptive Use SRBC Docket No. 20080911-1
- Modification of Consumptive Use SRBC Docket No. 20080934-1
- Modification of Consumptive Use SRBC Docket No. 20081201-1

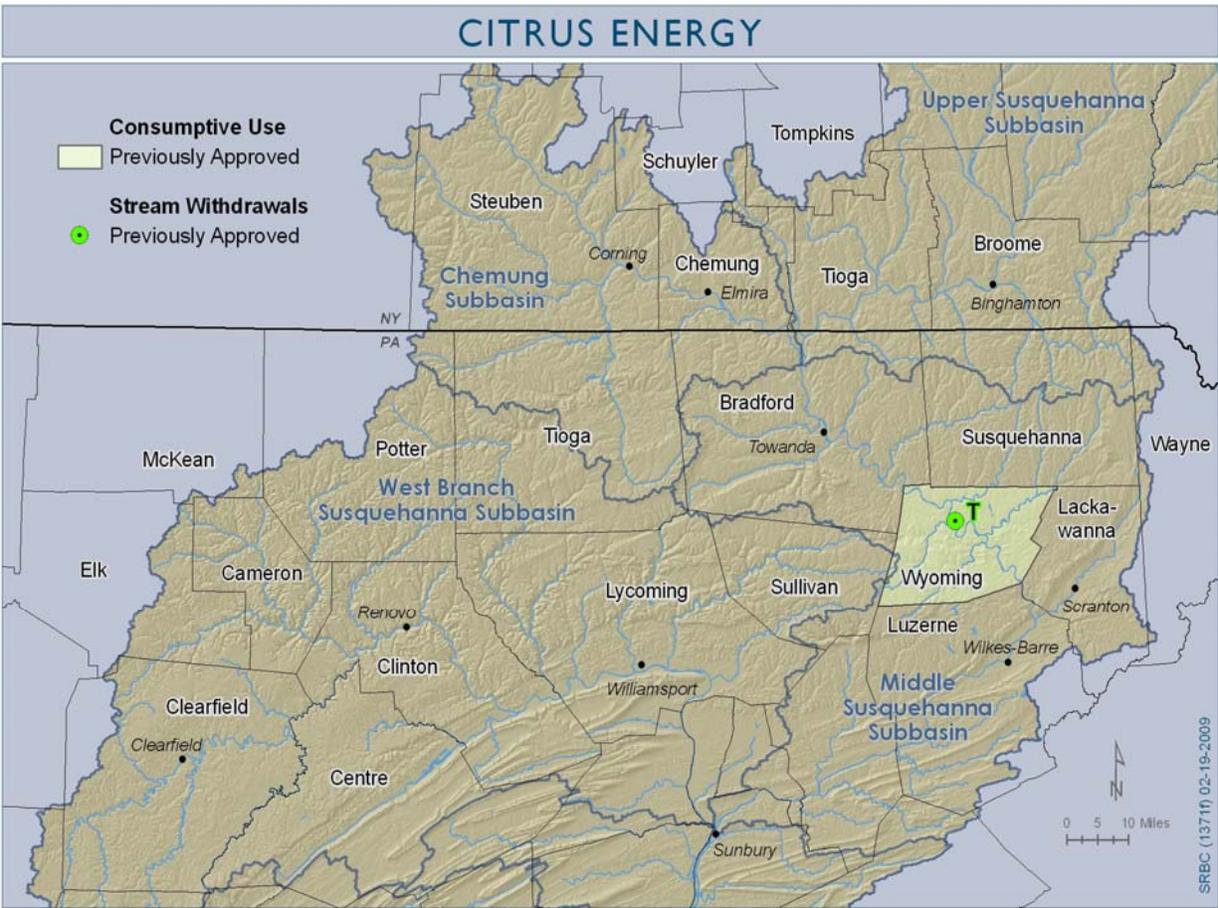
Consumptive use modifications for transition from a regional approval to approval of individual drilling pads, and changes the term of the approvals to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
14	Sugar Creek	0.053
N	Clearfield Creek – Docket No. 20081202	0.547
O	Pine Creek – Docket No. 20081203	0.099
P	Larrys Creek – Docket No. 20080936	0.086
Q	Loyalsock Creek – Docket No. 20080939	0.099
R	Muncy Creek-1 – Docket No. 20080938	0.099
S	Muncy Creek-2 – Docket No. 20080935	0.099

Sugar Creek (Map ID 14)

SRBC Docket No. 20090314

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	West Burlington Township	
<i>Requested Withdrawal:</i>	36 gpm		0.053 mgd (daily)	0.053 mgd (30-day average)		
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	94 mi ²	<i>Stream Class:</i>	TSF	
<i>Q7-10:</i>	239 gpm	<i>ADF:</i>	100.1 cfs	<i>Passby Required:</i>	Yes, 20% ADF	
<p>Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 20 cfs (8,984 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 36 gpm; peak day is limited to the requested 0.053 mgd, when available.</p>						



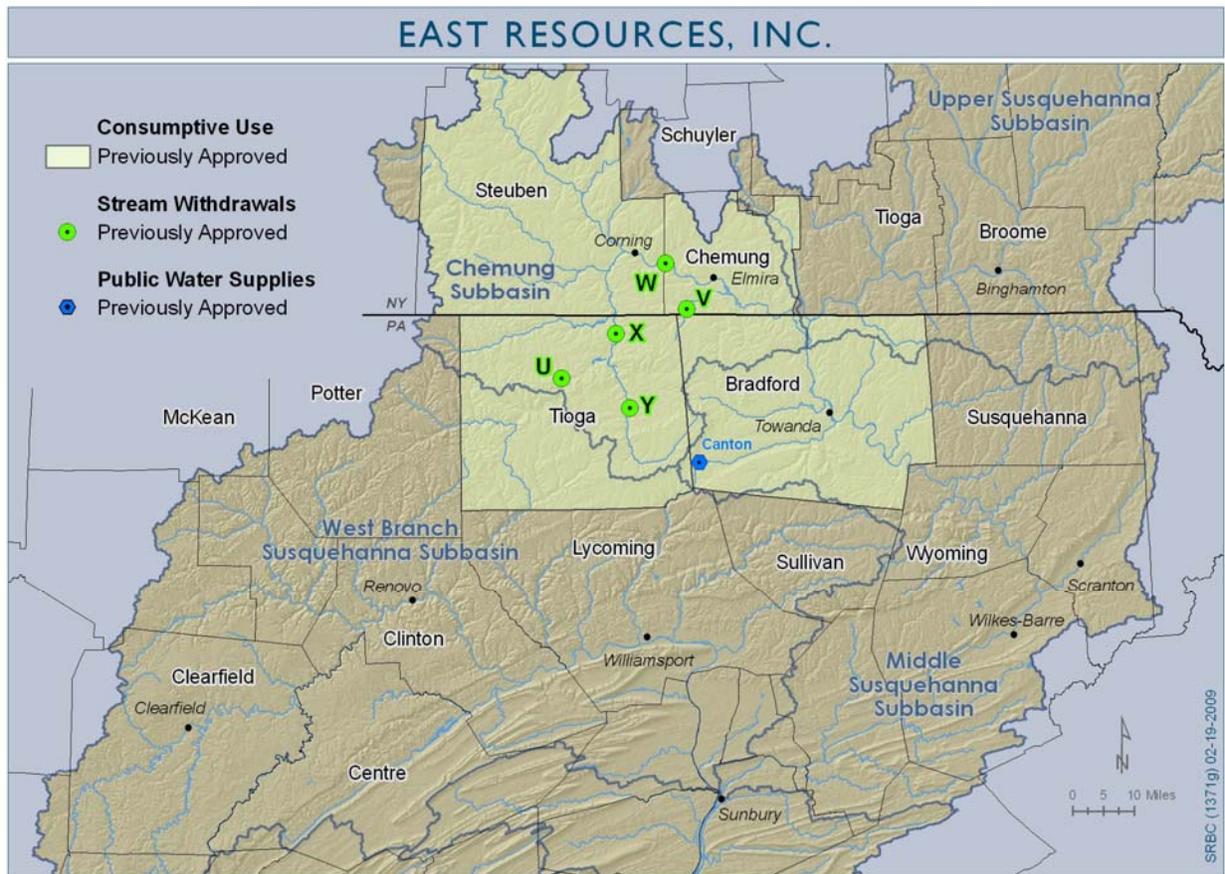
Citrus Energy

Modification of Consumptive Use

SRBC Docket No. 20081204-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
T	North Branch Susquehanna River – Docket No. 20081205	0.499



East Resources, Inc.

Modification of Consumptive Use

SRBC Docket No. 20080603-1

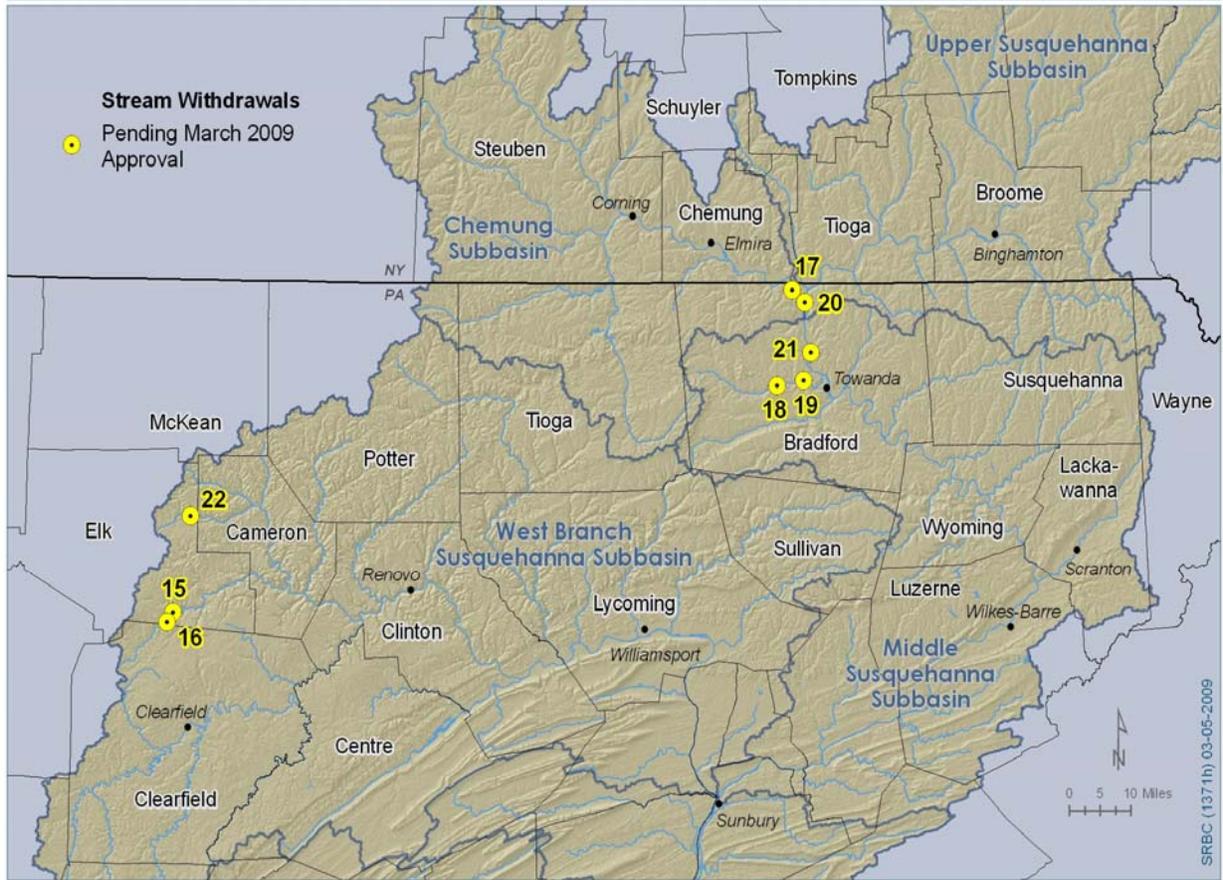
Modification of Consumptive Use

SRBC Docket No. 20080608-1

Consumptive use modifications for transition from a regional approval to approval of individual drilling pads, and changes the term of the approvals to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
U	Crooked Creek – Docket No. 20080910	0.036
V	Seeley Creek – Docket No. 20080901	0.036
W	Chemung River at Big Flats – Docket No. 20080604	0.107
X	Tioga River at Tioga Junction – Docket No. 20080606	0.107
Y	Tioga River at Mansfield – Docket No. 20080609	0.107

EOG RESOURCES, INC.



EOG Resources, Inc.

Map ID	Source	Approved Quantity (mgd)
15	Bennett Branch-1, Sinnemahoning Creek	0.171
16	Bennett Branch-2, Sinnemahoning Creek	0.152
17	Chemung River-2	0.322
18	Sugar Creek-1	0.099
19	Sugar Creek-2	0.099
20	Susquehanna River-1	0.322
21	Susquehanna River-2	0.322
22	West Creek	0.096

Bennett Branch–1, Sinnemahoning Creek (Map ID 15) SRBC Docket No. 20090316

<i>State:</i>	PA	<i>County:</i>	Elk	<i>Municipality:</i>	Jay Township
<i>Requested Withdrawal:</i>	118 gpm	0.171 mgd (daily)	0.171 mgd (30-day average)		
<i>HUC:</i>	02050202	<i>Drainage Area:</i>	63.3 mi ²	<i>Stream Class:</i>	WWF (AMD impaired)
<i>Q7-10:</i>	874 gpm	<i>ADF:</i>	103.3 cfs	<i>Passby Required:</i>	Yes, 15% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 15% ADF passby flow of 15.50 cfs (6,956 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 118 gpm; peak day is limited to the requested 0.171 mgd, when available.					

Bennett Branch–2, Sinnemahoning Creek (Map ID 16) SRBC Docket No. 20090317

<i>State:</i>	PA	<i>County:</i>	Elk	<i>Municipality:</i>	Jay Township
<i>Requested Withdrawal:</i>	105 gpm	0.152 mgd (daily)	0.152 mgd (30-day average)		
<i>HUC:</i>	02050202	<i>Drainage Area:</i>	57.4 mi ²	<i>Stream Class:</i>	WWF (AMD impaired)
<i>Q7-10:</i>	793 gpm	<i>ADF:</i>	93.7 cfs	<i>Passby Required:</i>	Yes, 15% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 15% ADF passby flow of 14.06 cfs (6,311 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 105 gpm; peak day is limited to the requested 0.152 mgd, when available.					

Chemung River–2 (Map ID 17) SRBC Docket No. 20090320

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	Athens Township
<i>Requested Withdrawal:</i>	223 gpm	0.322 mgd (daily)	0.322 mgd (30-day average)		
<i>HUC:</i>	02050105	<i>Drainage Area:</i>	2,580 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	47,451 gpm	<i>ADF:</i>	2,657.5 cfs	<i>Passby Required:</i>	No
Commission staff's recommended action: Maximum instantaneous rate of withdrawal is limited to the requested 223 gpm; peak day is limited to the requested 0.322 mgd.					

Sugar Creek–1 (Map ID 18) SRBC Docket No. 20090322

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	Burlington Borough
<i>Requested Withdrawal:</i>	68 gpm	0.099 mgd (daily)	0.099 mgd (30-day average)		
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	117 mi ²	<i>Stream Class:</i>	TSF
<i>Q7-10:</i>	297 gpm	<i>ADF:</i>	124 cfs	<i>Passby Required:</i>	Yes, 20% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 24.8 cfs (11,134 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 68 gpm; peak day is limited to the requested 0.099 mgd, when available.					

Sugar Creek–2 (Map ID 19)

SRBC Docket No. 20090323

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	North Towanda Township
<i>Requested Withdrawal:</i>	68 gpm		0.099 mgd (daily)	0.099 mgd (30-day average)	
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	182 mi ²	<i>Stream Class:</i>	TSF
<i>Q7-10:</i>	463 gpm	<i>ADF:</i>	194.2 cfs	<i>Passby Required:</i>	Yes, 20% ADF
<p>Commission staff’s recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 38.8 cfs (17,431 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 68 gpm; peak day is limited to the requested 0.099 mgd, when available.</p>					

Susquehanna River–1 (Map ID 20)

SRBC Docket No. 20090324

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	Athens Borough
<i>Requested Withdrawal:</i>	223 gpm		0.322 mgd (daily)	0.322 mgd (30-day average)	
<i>HUC:</i>	02050103	<i>Drainage Area:</i>	4,930 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	177,383 gpm	<i>ADF:</i>	7,880.2 cfs	<i>Passby Required:</i>	No
<p>Commission staff’s recommended action: Maximum instantaneous rate of withdrawal is limited to the requested 223 gpm; peak day is limited to the requested 0.322 mgd.</p>					

Susquehanna River–2 (Map ID 21)

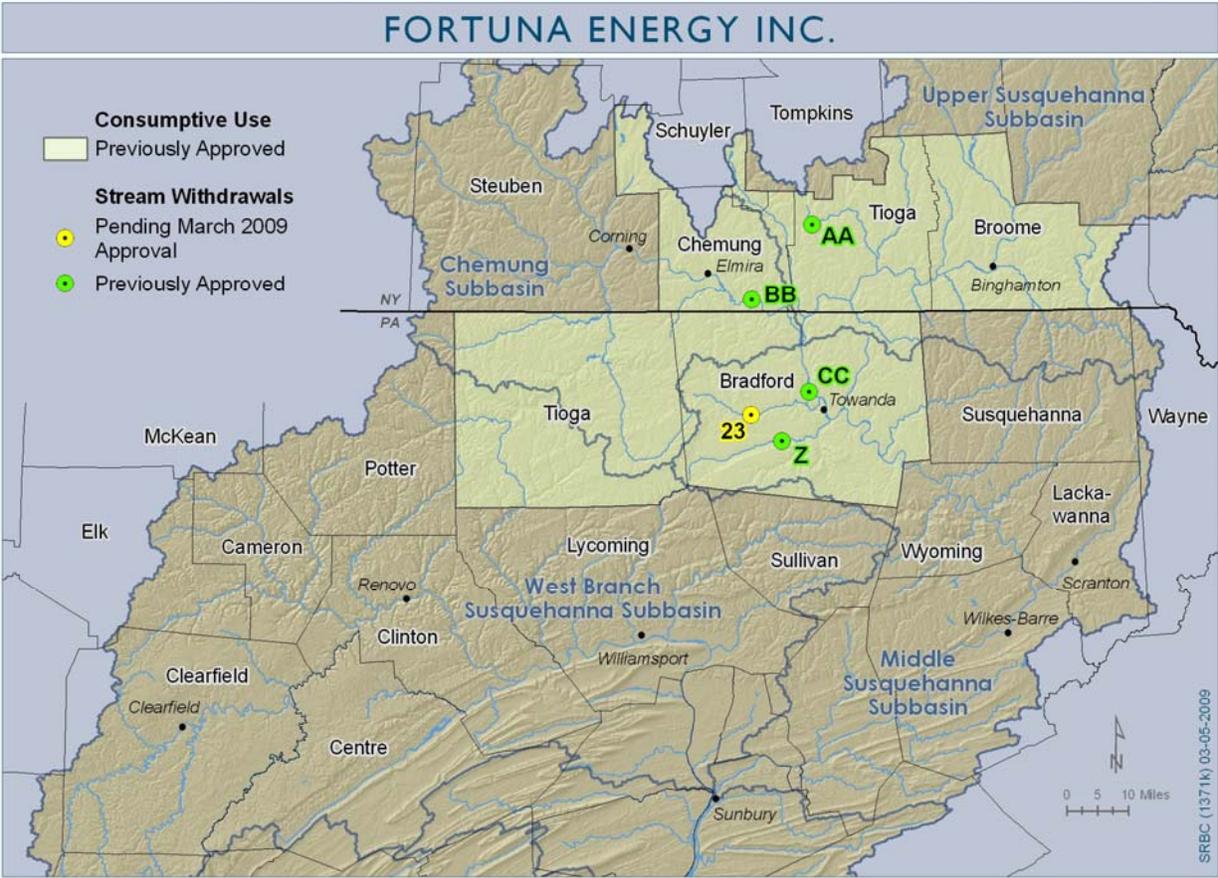
SRBC Docket No. 20090325

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	Ulster Township
<i>Requested Withdrawal:</i>	223 gpm		0.322 mgd (daily)	0.322 mgd (30-day average)	
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	7,580 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	253,513 gpm	<i>ADF:</i>	10,305 cfs	<i>Passby Required:</i>	No
<p>Commission staff’s recommended action: Maximum instantaneous rate of withdrawal is limited to the requested 223 gpm; peak day is limited to the requested 0.322 mgd.</p>					

West Creek (Map ID 22)

SRBC Docket No. 20090326

<i>State:</i>	PA	<i>County:</i>	Elk	<i>Municipality:</i>	City of Saint Marys
<i>Requested Withdrawal:</i>	67 gpm		0.096 mgd (daily)	0.096 mgd (30-day average)	
<i>HUC:</i>	02050202	<i>Drainage Area:</i>	33.7 mi ²	<i>Stream Class:</i>	HQ-CWF (Class D)
<i>Q7-10:</i>	328 gpm	<i>ADF:</i>	63.6 cfs	<i>Passby Required:</i>	Yes, Q7-10
<p>Commission staff’s recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a Q7-10 passby flow of 0.73 cfs (328 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 67 gpm; peak day is limited to the requested 0.096 mgd, when available.</p>					



Fortuna Energy Inc.

Modification of Consumptive Use

SRBC Docket No. 20080601-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
23	Sugar Creek	0.250
Z	Towanda Creek – Docket No. 20081210	0.250
AA	Catatonk Creek – Docket No. 20080602	0.101
BB	Chemung River at Chemung – Docket No. 20080605	0.250
CC	Susquehanna River – Docket No. 20080909	0.250

Sugar Creek (Map ID 23)

SRBC Docket No. 20090327

<i>State:</i>	PA	<i>County:</i>	Bradford	<i>Municipality:</i>	West Burlington Township	
<i>Requested Withdrawal:</i>	173 gpm	0.250 mgd (daily)				
<i>HUC:</i>	02050106	<i>Drainage Area:</i>	94 mi ²	<i>Stream Class:</i>	TSF	
<i>Q7-10:</i>	239 gpm	<i>ADF:</i>	100.1 cfs	<i>Passby Required:</i>	Yes, 20% ADF	
<p>Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 20 cfs (8,965 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 173 gpm; peak day is limited to the requested 0.250 mgd, when available.</p>						



J-W Operating Company

Modification of Consumptive Use

SRBC Docket No. 20081211-1

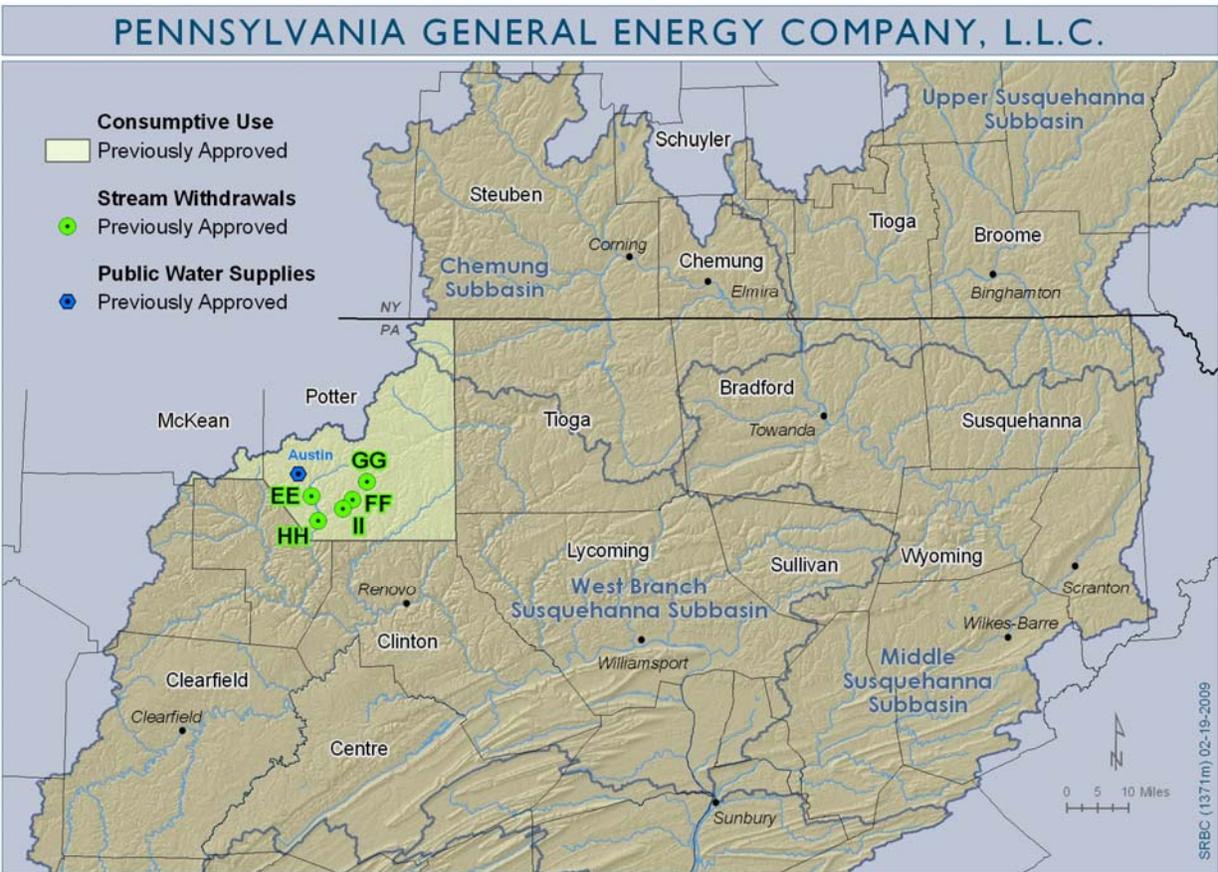
Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
24	Sterling Run	0.499
DD	Driftwood Branch Sinnemahoning Creek – Docket No. 20081213	0.245

Sterling Run (Map ID 24)

SRBC Docket No. 20090330

<i>State:</i>	PA	<i>County:</i>	Cameron	<i>Municipality:</i>	Lumber Township
<i>Requested Withdrawal:</i>	800 gpm	0.499 mgd (daily)	0.499 mgd (30-day average)		
<i>HUC:</i>	02050202	<i>Drainage Area:</i>	22.8 mi ²	<i>Stream Class:</i>	CWF (Class D)
<i>Q7-10:</i>	195 gpm	<i>ADF:</i>	37.4 cfs	<i>Passby Required:</i>	Yes, 10% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 10% ADF passby flow of 3.74 cfs (1,680 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 800 gpm; peak day is limited to the requested 0.499 mgd, when available.					



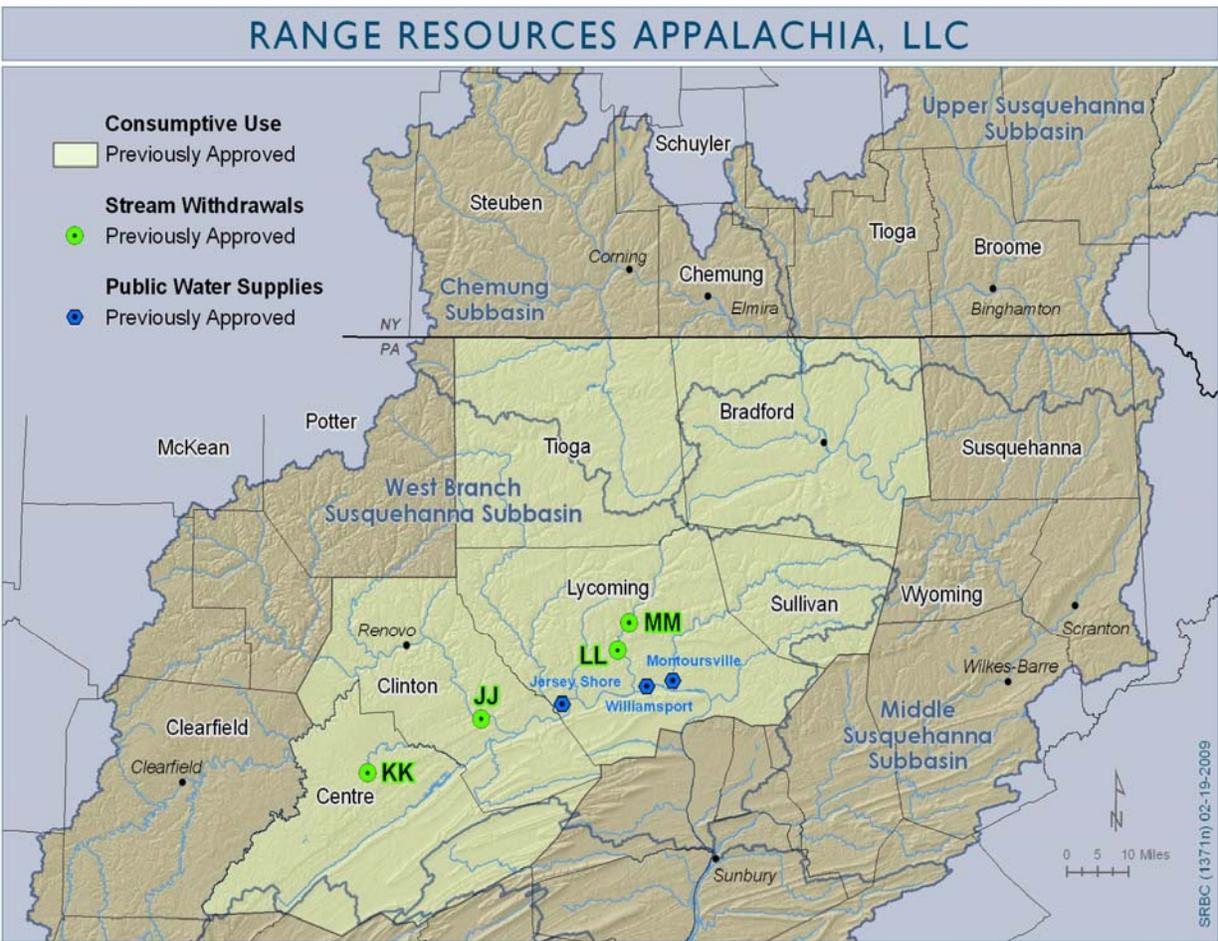
Pennsylvania General Energy Company, L.L.C.

Modification of Consumptive Use

SRBC Docket No. 20080921-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
EE	First Fork Sinnemahoning Creek-1 – Docket No. 20080924	0.107
FF	East Fork Sinnemahoning Creek-1 – Docket No. 20080925	0.025
GG	East Fork Sinnemahoning Creek-2 – Docket No. 20080922	0.008
HH	First Fork Sinnemahoning Creek-2 – Docket No. 20080928	0.231
II	East Fork Sinnemahoning Creek-3 – Docket No. 20080926	0.027



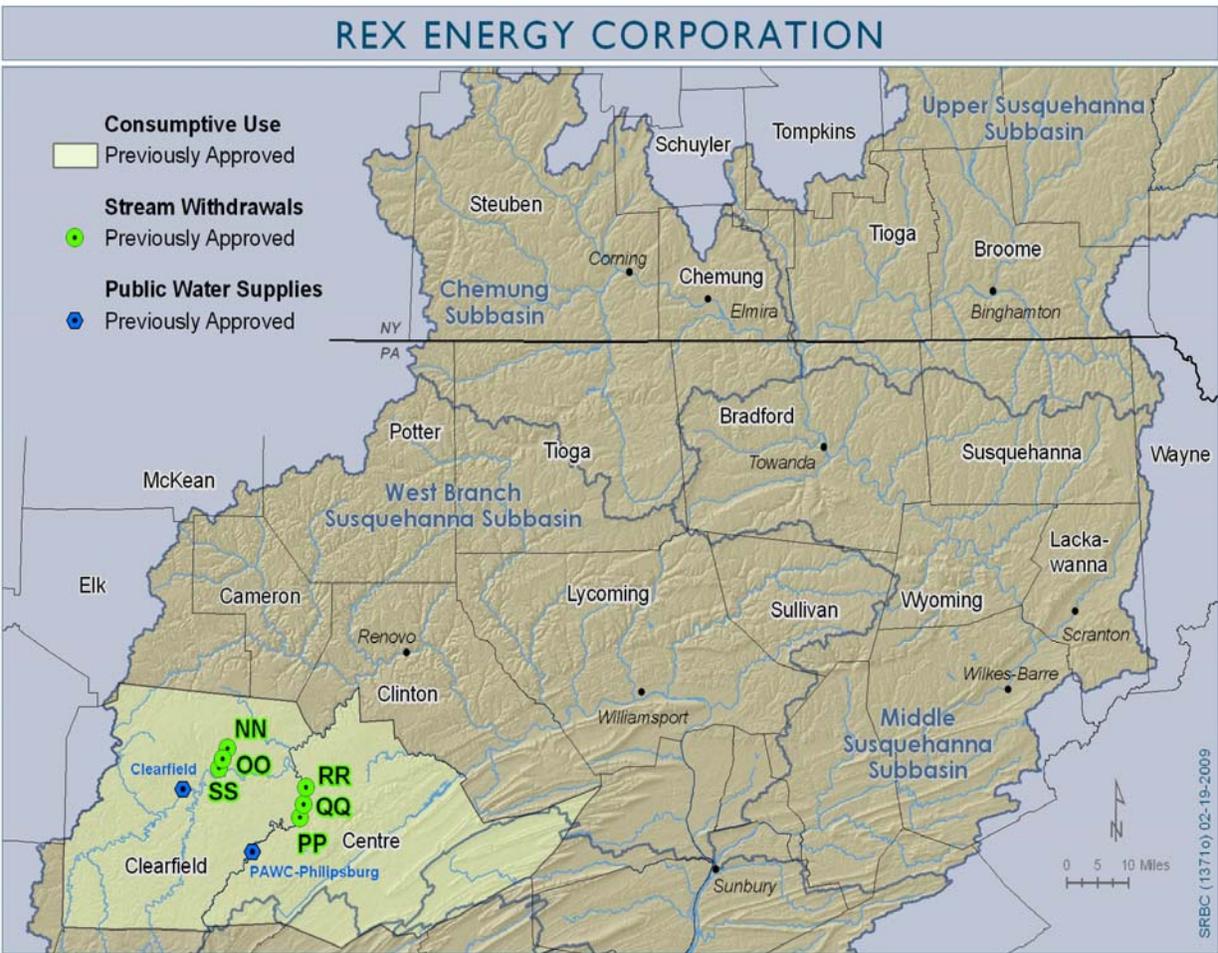
Range Resources Appalachia, LLC

Modification of Consumptive Use

SRBC Docket No. 20080931-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
JJ	West Branch Susquehanna River – Docket No. 20080940	0.200
KK	Beech Creek – Docket No. 20080945	0.200
LL	Lycoming Creek-1 – Docket No. 20080933	0.200
MM	Lycoming Creek-2 – Docket No. 20080932	0.200



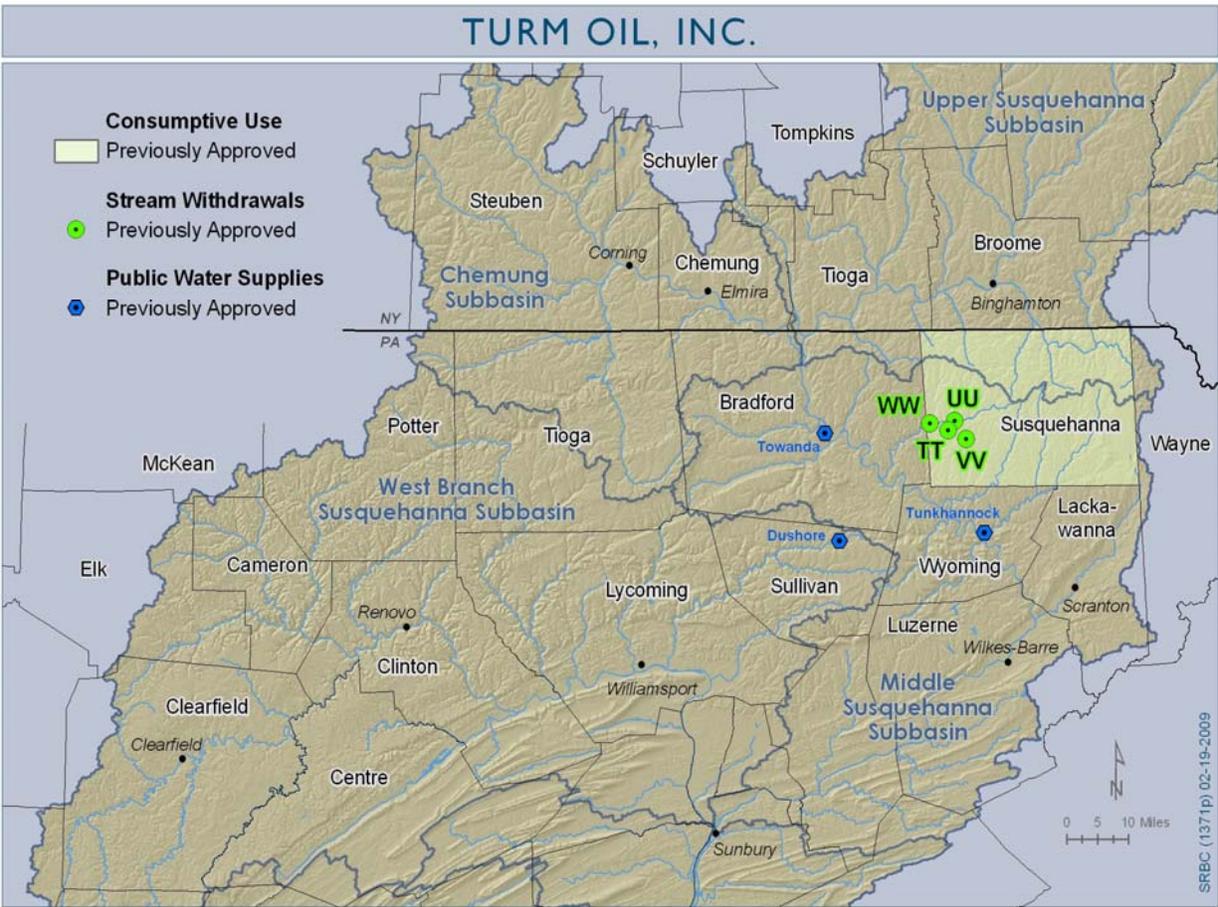
Rex Energy Corporation

Modification of Consumptive Use

SRBC Docket No. 20080941-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
NN	Upper Little Surveyor Run – Docket No. 20081220	0.400
OO	Lower Little Surveyor Run – Docket No. 20081221	0.400
PP	Moshannon Creek-1 – Docket No. 20080948	1.440
QQ	Moshannon Creek-2 – Docket No. 20080947	1.584
RR	Moshannon Creek-3 – Docket No. 20080946	2.000
SS	West Branch Susquehanna River – Docket No. 20080944	2.160



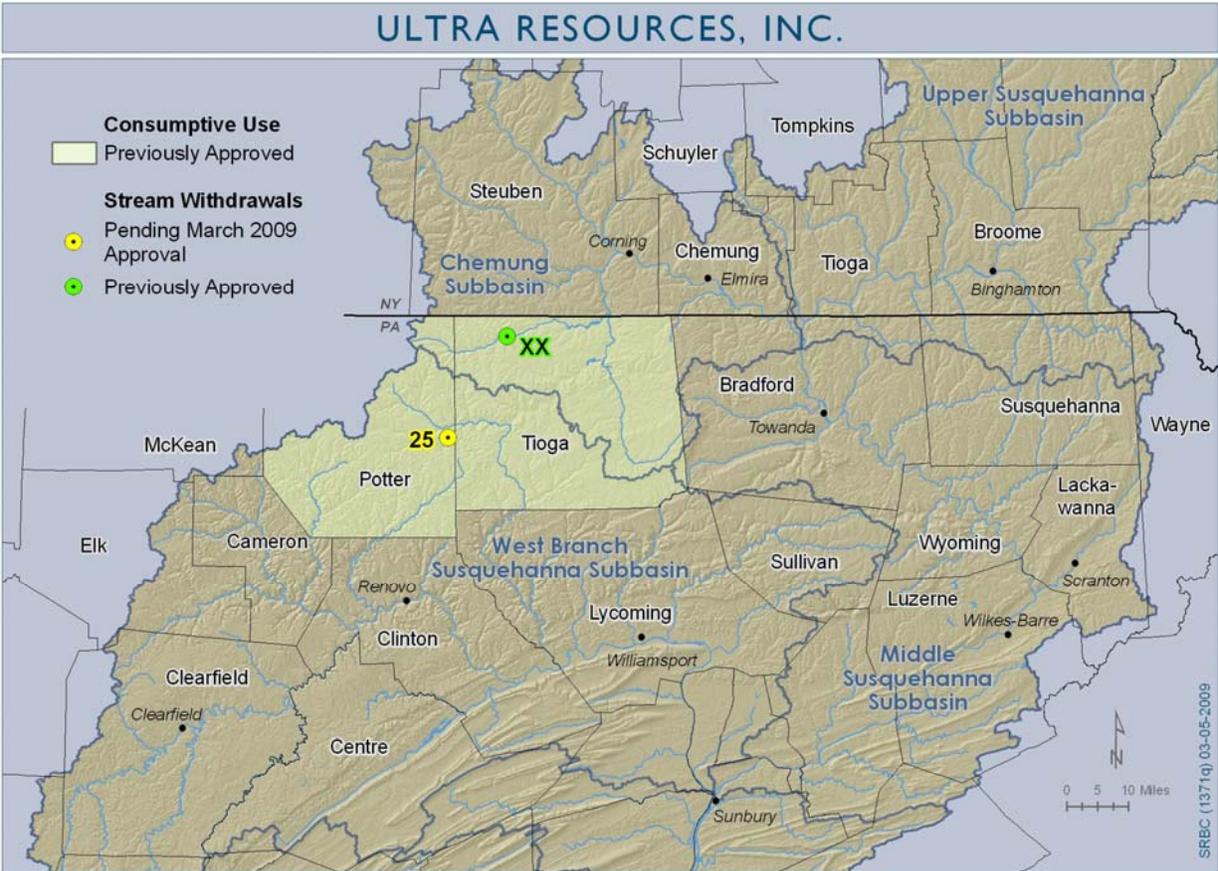
Turm Oil, Inc.

Modification of Consumptive Use

SRBC Docket No. 20081223-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
TT	Deer Lick Creek – Docket No. 20081224	0.216
UU	East Branch Wyalusing Creek – Docket No. 20081225	0.216
VV	Elk Lake Stream – Docket No. 20081226	0.216
WW	Main Branch Wyalusing Creek – Docket No. 20081227	0.216



Ultra Resources, Inc.

Modification of Consumptive Use

SRBC Docket No. 20081228-1

Consumptive use modification for transition from a regional approval to approval of individual drilling pads, and changes the term of the approval to December 31, 2009.

Map ID	Source	Approved Quantity (mgd)
25	Pine Creek	0.430
XX	Cowanesque River – Docket No. 20081229	0.217

Pine Creek (Map ID 25)

SRBC Docket No. 20090332

<i>State:</i>	PA	<i>County:</i>	Potter	<i>Municipality:</i>	Pike Township
<i>Requested Withdrawal:</i>	298 gpm	0.430 mgd (daily)			
<i>HUC:</i>	02050205	<i>Drainage Area:</i>	178 mi ²	<i>Stream Class:</i>	EV (Class D)
<i>Q7-10:</i>	3,188 gpm	<i>ADF:</i>	246.7 cfs	<i>Passby Required:</i>	Yes, 25% ADF
Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 25% ADF passby flow of 61.67 cfs (27,681 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 298 gpm; peak day is limited to the requested 0.430 mgd, when available.					



Water Treatment Solutions, LLC

Water Treatment Solutions, LLC (Map ID 26)

SRBC Docket No. 20090333

<i>State:</i>	PA	<i>County:</i>	Lycoming	<i>Municipality:</i>	Williamsport
<i>Requested Withdrawal:</i>	346 gpm		0.100 mgd (daily)	<i>From:</i>	West Branch Susquehanna River
<i>HUC:</i>	02050206	<i>Drainage Area:</i>	5,380 mi ²	<i>Stream Class:</i>	WWF
<i>Q7-10:</i>	204,413 gpm	<i>ADF:</i>	8,294.4 cfs	<i>Passby Required:</i>	Yes, 20% ADF
<p>Commission staff's recommended action: Considering SRBC Policy No. 2003-01 and the aquatic resources survey, allow a 20% ADF passby flow of 1,658.9 cfs (744,653 gpm). Maximum instantaneous rate of withdrawal is limited to the requested 346 gpm; peak day is limited to the requested 0.100 mgd, when available.</p>					

NATURAL GAS WELL DEVELOPMENT PROJECTS

TRANSITION OF EXISTING (REGIONAL) CONSUMPTIVE USE DOCKETS AND APPROVALS BY RULE ISSUED UNDER §806.22(e) TO THE NEW §806.22(f) APPROVAL BY RULE PROCESS

1. Effective January 15, 2009, the Susquehanna River Basin Commission (Commission) has finalized a new industry-specific regulation related to consumptive use associated with natural gas well development projects. Under the new rule, all consumptive use will be regulated on a drilling pad basis. For purposes of consistency and uniformity moving forward, the Commission has developed a transition strategy to convert all existing consumptive use dockets and all existing Approvals By Rule issued under §806.22(e) to the new §806.22(f) Approval By Rule [22(f) ABR] process during calendar year 2009.
2. Consumptive use dockets issued prior to the effective date of the new regulation are being modified to establish a process whereby the Commission will issue a new 22(f) ABR for each drilling pad constructed under the docket on or before December 31, 2009. The new 22(f) ABRs would be issued at no cost to the project sponsor and would include as approved sources any surface water approvals or other sources previously approved for the project sponsor. Each such 22(f) ABR would be issued for the quantity of consumptive use approved in the docket and would supersede the docket as the controlling approval for the subject drilling pad upon issuance.
3. For purposes of the transition strategy, all drilling pads upon which a well conductor pipe has been installed will be considered constructed and eligible for a new 22(f) ABR. For all such drilling pads constructed prior to the date of modification of the docket, the project sponsor must submit a request for a new 22(f) ABR within 30 days of any continuing consumptive water use on the site. For completed drilling pads with no continuing consumptive use, the project sponsor would have the option of requesting a new 22(f) ABR. Project sponsors would likely choose this option if they contemplated any consumptive water use in the future on such drilling pad(s).
4. For drilling pads developed after the docket is modified, project sponsors would be required to submit a request for a new 22(f) ABR within 10 days of installation of a well conductor pipe.
5. All such consumptive use dockets would terminate on December 31, 2009, and thereafter, project sponsors would need to first apply and pay the appropriate fee in order to receive a 22(f) ABR for each new drilling pad.
6. All existing Approvals by Rule issued under §806.22(e) will be reissued by the Commission as new 22(f) ABRs during calendar year 2009, superseding the earlier approvals. Each new approval will be issued without cost to the project sponsor and be issued to authorize consumptive use at the quantity and from the source(s) previously approved. Each will be issued for a new 5-year term. Under the new 22(f) ABR, the project sponsor will be able to seek authorization to utilize additional sources, including withdrawals approved by the Commission, wastewater discharges, or other lesser quality reclaimed waters. [The existing 22(e) ABRs were limited to public water supply systems only.]

NATURAL GAS CONSUMPTIVE USE AREAS

in the Susquehanna River Basin, March 12, 2009



NATURAL GAS CONSUMPTIVE USE MODIFICATIONS

Cabot Oil & Gas Corporation – Consumptive water use of up to 3.575 mgd for operations in Susquehanna and Wyoming Counties, Pennsylvania

Chesapeake Appalachia, LLC – Consumptive water use of up to 7.500 mgd for operations in Chemung and Tioga Counties, New York, and Bradford, Sullivan, Susquehanna, Tioga, Wayne, and Wyoming Counties, Pennsylvania

Chief Oil & Gas LLC – Consumptive water use of up to 5.000 mgd for operations in Clearfield County, Pennsylvania

Chief Oil & Gas LLC – Consumptive water use of up to 5.000 mgd for operations in Lycoming County, Pennsylvania

Chief Oil & Gas LLC – Consumptive water use of up to 5.000 mgd for operations in Bradford County, Pennsylvania

Citrus Energy – Consumptive water use of up to 5.000 mgd for operations in Wyoming County, Pennsylvania

East Resources, Inc. – Consumptive water use of up to 4.000 mgd for operations in Chemung and Steuben Counties, New York, and Tioga County, Pennsylvania

East Resources, Inc. – Consumptive water use of up to 4.000 mgd for operations in Tioga and Bradford Counties, Pennsylvania

Fortuna Energy Inc. – Consumptive water use of up to 3.000 mgd for operations in Chemung, Schuylers, Tioga, and Broome Counties, New York, and Tioga and Bradford Counties, Pennsylvania

J-W Operating Company – Consumptive water use of up to 4.500 mgd for operations in Cameron, Clearfield, and Elk Counties, Pennsylvania

Pennsylvania General Energy Company, L.L.C. – Consumptive water use of up to 4.900 mgd for operations in Potter and McKean Counties, Pennsylvania

Range Resources Appalachia, LLC – Consumptive water use of up to 5.000 mgd for operations in Bradford, Centre, Clinton, Lycoming, Sullivan, and Tioga Counties, Pennsylvania

Rex Energy Corporation – Consumptive water use of up to 5.000 mgd for operations in Centre and Clearfield Counties, Pennsylvania

Turn Oil, Inc. – Consumptive water use of up to 5.000 mgd for operations in Susquehanna County, Pennsylvania

Ultra Resources, Inc. – Consumptive water use of up to 4.990 mgd for operations in Tioga and Potter Counties, Pennsylvania



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