PENNSYLVANIA BULLETIN

Volume 50 Number 7
Saturday, February 15, 2020 • Harrisburg, PA
Pages 895—1098

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Board's Administration of the Land
Recycling Program Proposed Rulemaking

Part I

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Insurance Department
Legislative Reference Bureau
Pennsylvania Public Utility Commission
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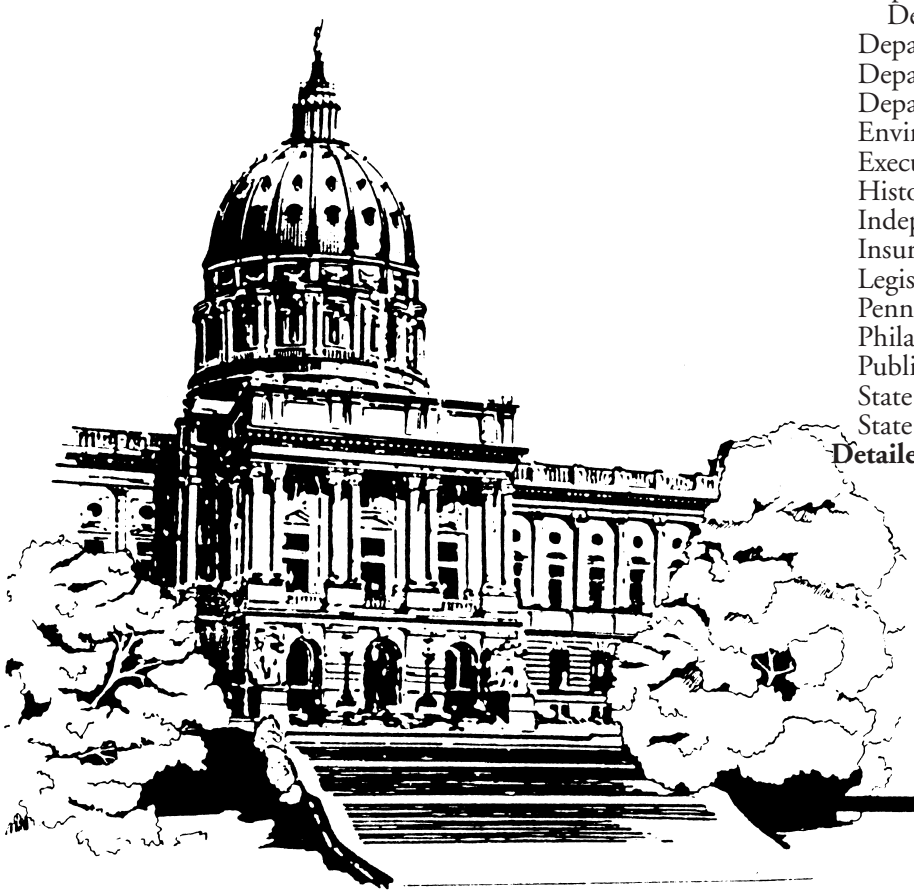

Latest Pennsylvania Code Reporter (Master Transmittal Sheet):

No. 543, February 2020

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PENNSYLVANIA BULLETIN

(ISSN 0162-2137)

The *Pennsylvania Bulletin* is published weekly by Fry Communications, Inc. for the Commonwealth of Pennsylvania, Legislative Reference Bureau, 641 Main Capitol Building, Harrisburg, Pennsylvania 17120, under the policy supervision and direction of the Joint Committee on Documents under 45 Pa.C.S. Part II (relating to publication and effectiveness of Commonwealth documents). The subscription rate is $87.00 per year, postpaid to points in the United States. Individual copies are $2.50. Checks for subscriptions and individual copies should be made payable to "*Fry Communications, Inc.*" Periodicals postage paid at Harrisburg, Pennsylvania.

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Mechanicsburg, Pennsylvania 17055-3198
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Editorial preparation, composition, printing and distribution of the *Pennsylvania Bulletin* is effected on behalf of the Commonwealth of Pennsylvania by FRY COMMUNICATIONS, Inc., 800 West Church Road, Mechanicsburg, Pennsylvania 17055-3198.

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READER'S GUIDE TO THE *PENNSYLVANIA BULLETIN* AND THE *PENNSYLVANIA CODE*

Pennsylvania Bulletin

The *Pennsylvania Bulletin* is the official gazette of the Commonwealth of Pennsylvania. It is published weekly. A cumulative subject matter index is published quarterly.

The *Pennsylvania Bulletin* serves several purposes. It is the temporary supplement to the *Pennsylvania Code*, which is the official codification of agency rules and regulations, Statewide court rules, and other statutorily authorized documents. Changes in the codified text, whether by adoption, amendment, rescission, repeal or emergency action, must be published in the *Pennsylvania Bulletin*.

The following documents are published in the *Pennsylvania Bulletin*: Governor's Executive Orders; Summaries of Enacted Statutes; Statewide and Local Court Rules; Attorney General Opinions; Motor Carrier Applications before the Pennsylvania Public Utility Commission; Applications and Actions before the Department of Environmental Protection; Orders of the Independent Regulatory Review Commission; and other documents authorized by law.

The text of certain documents published in the *Pennsylvania Bulletin* is the only valid and enforceable text. Courts are required to take judicial notice of the *Pennsylvania Bulletin*.

Adoption, Amendment or Repeal of Regulations

Generally an agency wishing to adopt, amend or rescind regulations must first publish in the *Pennsylvania Bulletin* a Proposed Rulemaking. There are limited instances when the agency may omit the proposal step; it still must publish the adopted version.

The Proposed Rulemaking contains the full text of the change, the agency contact person, a fiscal note required by law and background for the action.

The agency then allows sufficient time for public comment before taking final action. A Final Rulemaking must be published in the *Pennsylvania Bulletin* before the changes can take effect. If the agency wishes to adopt changes to the Proposed Rulemaking to enlarge the scope, it must repropose.

Citation to the *Pennsylvania Bulletin*

Cite material in the *Pennsylvania Bulletin* by volume number, a page number and date. Example: Volume 1, *Pennsylvania Bulletin*, page 801, January 9, 1971 (short form: 1 Pa.B. 801 (January 9, 1971)).

Pennsylvania Code

The *Pennsylvania Code* is the official codification of rules and regulations issued by Commonwealth agencies, Statewide court rules and other statutorily authorized documents. The *Pennsylvania Bulletin* is the temporary supplement to the *Pennsylvania Code*, printing changes when they are adopted. These changes are then permanently codified by the *Pennsylvania Code Reporter*, a monthly, loose-leaf supplement.

The *Pennsylvania Code* is cited by title number and section number. Example: Title 10 *Pennsylvania Code* § 1.1 (short form: 10 Pa. Code § 1.1).

Under the *Pennsylvania Code* codification system, each regulation is assigned a unique number by title and section. Titles roughly parallel the organization of Commonwealth government.

How to Find Rules and Regulations

Search for your area of interest in the *Pennsylvania Code*. The *Pennsylvania Code* is available at www.pacode.com.

Source Notes give the history of regulations. To see if there have been recent changes not yet codified, check the List of *Pennsylvania Code* Chapters Affected in the most recent issue of the *Pennsylvania Bulletin*.

A chronological table of the history of *Pennsylvania Code* sections may be found at www.legis.state.pa.us/cfdocs/legis/CH/Public/pcde_index.cfm.

A quarterly List of *Pennsylvania Code* Sections Affected lists the regulations in numerical order, followed by the citation to the *Pennsylvania Bulletin* in which the change occurred.

The *Pennsylvania Bulletin* is available at www.pabulletin.com.

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Printing Format

Rules, Regulations and Statements of Policy in Titles 1—107 of the Pennsylvania Code

Text proposed to be added is printed in **underscored bold face**. Text proposed to be deleted is enclosed in brackets **[ ]** and printed in **bold face**.

Proposed new chapters and sections are printed in regular type to enhance readability. Final rulemakings and statements of policy are printed in regular type.

Ellipses, a series of five asterisks, indicate text that is not amended.

In Proposed Rulemakings and proposed Statements of Policy, existing text corresponds to the official codified text in the *Pennsylvania Code*.

Court Rules in Titles 201—246 of the Pennsylvania Code

Added text in proposed and adopted court rules is printed in **underscored bold face**. Deleted text in proposed and adopted court rules is enclosed in brackets **[ ]** and printed in **bold face**.

Proposed new chapters and rules are printed in regular type to enhance readability.

Ellipses, a series of five asterisks, indicate text that is not amended.

Fiscal Notes

Section 612 of The Administrative Code of 1929 (71 P. S. § 232) requires the Governor's Budget Office to prepare a fiscal note for regulatory actions and administrative procedures of the administrative departments, boards, commissions and authorities receiving money from the State Treasury. The fiscal note states whether the action or procedure causes a loss of revenue or an increase in the cost of programs for the Commonwealth or its political subdivisions. The fiscal note is required to be published in the *Pennsylvania Bulletin* at the same time as the change is advertised.

A fiscal note provides the following information: (1) the designation of the fund out of which the appropriation providing for expenditures under the action or procedure shall be made; (2) the probable cost for the fiscal year the program is implemented; (3) projected cost estimate of the program for each of the 5 succeeding fiscal years; (4) fiscal history of the program for which expenditures are to be made; (5) probable loss of revenue for the fiscal year of its implementation; (6) projected loss of revenue from the program for each of the 5 succeeding fiscal years; (7) line item, if any, of the General Appropriation Act or other appropriation act out of which expenditures or losses of Commonwealth funds shall occur as a result of the action or procedures; and (8) recommendation, if any, of the Secretary of the Budget and the reasons therefor.

The omission of an item indicates that the agency text of the fiscal note states that there is no information available with respect thereto. In items (3) and (6) information is set forth for the first through fifth fiscal years, following the year the program is implemented, which is stated. In item (4) information is set forth for the current and two immediately preceding years. In item (8) the recommendation, if any, made by the Secretary of the Budget is published with the fiscal note. "No fiscal impact" means no additional cost or revenue loss to the Commonwealth or its local political subdivision is intended. See 4 Pa. Code Chapter 7, Subchapter R (relating to fiscal notes).

List of Pa. Code Chapters Affected

The following numerical guide is a list of the chapters of each title of the *Pennsylvania Code* affected by documents published in the *Pennsylvania Bulletin* during 2020.

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THE GOVERNOR

Title 4—ADMINISTRATION

PART I. GOVERNOR'S OFFICE

[4 PA. CODE CH. 1]

[EXECUTIVE ORDER NO. 2020-01]

Office of State Inspector General

January 2, 2020

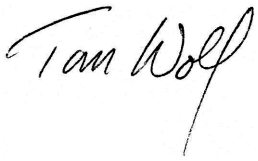
Whereas, the maintenance of public confidence, integrity, and efficiency in the government of this Commonwealth is a primary concern of this administration; and

Whereas, in furtherance of maintaining public confidence, the Office of State Inspector General originally was instituted by executive order in 1987 to detect, prevent, and eradicate fraud, waste, misconduct, and abuse in the programs, operations, and contracting of executive agencies; and

Whereas, the responsibilities of the Office of State Inspector General were codified in the Act of July 20, 2017, P.L. 328, No. 29 (Act 29 of 2017); and

Whereas, ensuring the efficient implementation of Act 29 of 2017 will further the objectives of this administration and the Act.

Now, Therefore, I, Tom Wolf, Governor of the Commonwealth of Pennsylvania, by virtue of the authority vested in me by the Constitution of the Commonwealth of Pennsylvania and other laws, do hereby direct the following with respect to the Office of State Inspector General as follows:



Governor

Fiscal Note: GOV-2020-01. No fiscal impact; (8) recommends adoption.

Annex A

TITLE 4. ADMINISTRATION

PART I. GOVERNOR'S OFFICE

CHAPTER 1. AGENCY OPERATION AND ORGANIZATION

Subchapter X. (Reserved)

§§ 1.291—1.296. (Reserved).

Subchapter LLL. OFFICE OF STATE INSPECTOR GENERAL

Sec.
1.911. Purpose of the Office of State Inspector General.
1.912. Duties and responsibilities.
1.913. General provisions.
1.914. Effective date.
1.915. Rescission.

§ 1.911. Purpose of the Office of State Inspector General.

(a) To deter, detect, prevent and eradicate fraud, waste, misconduct and abuse in the programs, operations and contracting of executive agencies as provided in the Act of July 20, 2017 (P.L. 328, No. 29) (Act 29 of 2017) (71 P.S. §§ 211—219).

(b) To keep the heads of executive agencies and the Governor fully informed about problems and deficiencies relating to the administration of programs, operations and contracting in executive agencies.

(c) To report to, coordinate and cooperate with the General Counsel as provided in Act 29 of 2017 and this subchapter.

§ 1.912. Duties and responsibilities.

It shall be the duty and responsibility of the Office of State Inspector General to:

(a) Inspect, evaluate, investigate and review activities, records and individuals with contracts, procurements, grants, agreements and other financial arrangements undertaken by executive agencies for the purpose of identifying fraud, waste, misconduct or abuse.

(b) Conduct investigative activities concerning alleged abuses, frauds and service deficiencies in programs or operations, including in the operation and maintenance of facilities, of executive agencies.

(c) Report expeditiously to and cooperate fully with the General Counsel. It shall be the General Counsel's duty to direct and appoint the Chief Counsel for the Office of the State Inspector General. The protocol for reporting all matters encompassed in this section to the Office of General Counsel will be established by the General Counsel.

(d) Immediately refer a matter to the General Counsel whenever the Office of State Inspector General has reasonable grounds to believe that there has been a violation of criminal law or that a civil action should be initiated by the Commonwealth, except for those violations of criminal law specifically noted in section 506-A of the Act of July 20, 2017 (P.L. 328, No. 29) (71 P.S. § 216). The General Counsel shall be responsible for referring matters to the appropriate executive agency or agencies for criminal prosecution or civil litigation.

(e) Refer matters to the heads of executive agencies whenever the Office of State Inspector General determines that disciplinary or other administrative action is appropriate.

(f) Consult with executive agencies in the development of terms and conditions of contracts, grants and other agreements; and at the direction of the Governor or General Counsel, inspect all records and information in possession, custody or control of any person, association, corporation or public agency that is a party to a contract, grant or other agreement with an executive agency, or a party to any subcontract, subgrant or other agreement subordinate to an agreement with an executive agency, for the purposes of carrying out the duties and responsibilities of the Office of State Inspector General under this subchapter.

§ 1.913. General provisions.

This subchapter shall be implemented consistent with applicable law. This subchapter is not intended to, and does not create, any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the Commonwealth, its departments, agencies or entities, its officers, employees or agents, or any other person.

§ 1.914. Effective date.

This subchapter shall take effect immediately.

§ 1.915. Rescission.

Effective immediately, Executive Order 1987-7 is hereby rescinded.

[Pa.B. Doc. No. 20-201. Filed for public inspection February 14, 2020, 9:00 a.m.]

THE COURTS

Title 255—LOCAL COURT RULES

BEAVER COUNTY

Local Rules of Civil Procedure 8000 et seq.; Administrative Doc. No. 10050-2020

Administrative Order

January 24, 2020

It is hereby Ordered that existing Beaver County Local Rules of Civil Procedure 8000 and 8001 are rescinded. It is further Ordered that the following Rules 8000 through 8000.12 and accompanying Forms are adopted.

The Beaver County District Court Administrator is Directed to:

1. file one (1) copy of the Local Rules with the Administrative Office of Pennsylvania Courts via email to adminrules@pacourts.us.

2. file two (2) paper copies and one (1) electronic copy of the Local Rules in a Microsoft Word format only to bulletin@palrb.us with the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin*.

3. publish the Local Rules on the Court of Common Pleas of Beaver County website at http://www.beavercountypa.gov/Depts/Courts.

4. incorporate the Local Rules into the Local Rules of this Court within thirty (30) days after publication of the Local Rules in the *Pennsylvania Bulletin*.

5. file one (1) copy of the Local Rules with the Beaver County Prothonotary and the Beaver County Law Library for public inspection and copying.

Said Local Rules of Civil Procedure shall be effective thirty (30) days after publication in the *Pennsylvania Bulletin* and upon publication on the Beaver County website.

By the Court

RICHARD MANCINI,
President Judge

REAL ESTATE ASSESSMENT APPEALS

Rule 8000. Definitions.

The following rules shall apply to all appeals from a real estate tax assessment determined by the Beaver County Board of Assessment Revision or its Auxiliary Board. These rules shall apply to all appeals taken following their effective date, and may be applied as appropriate to any pending appeals ninety (90) days after the effective date.

Definitions:

Appeal—An appeal from the Beaver County Board of Assessment Revision or Auxiliary Board as defined in the Consolidated County Assessment Law, 53 Pa. Con. Stat. § 8854.

Board—The Beaver County Board of Assessment Appeals.

Commercial Property—Any property, whether vacant or occupied, whose purpose is to generate income for its owner, or is otherwise designated in the tax assessment records as commercial, industrial, and/or agricultural in use.

Date of Notification—The date of the Board's decision.

Party—Appellant, the Board, and any other person or entity entitled to notice of the appeal.

Property Owner—The record owner of the property as set forth in the Recorder of Deeds Office, reflecting the most recent deed of record.

Taxing Authority—Any county, city, borough, town, township, school district, or other public corporation having power and authority to levy taxes on the assessment of the real estate in question.

Verified—When used in reference to a written statement of fact by the signer, means supported by oath or affirmation or made subject to the penalties of 18 Pa. Con. Stat. § 4904 relating to unsworn falsification to authorities.

Rule 8000.1. Real Estate Tax Assessment Appeal.

(a) Real Estate Tax Assessment Appeal from a decision of the Board as to the amount of the assessment for real estate tax purposes, or as to exemption of real estate from payment of real estate taxes, shall be captioned "Petition for Real Estate Tax Assessment Appeal" or "Petition for Real Estate Tax Exemption Appeal" and filed with the Prothonotary within the time prescribed by statute. A copy of the appeal shall be provided to the Court Administrator.

(b) The Petition shall contain the following:

(1) Caption designating the named party taking the appeal as Appellant, the Board as Appellee, and if Appellant is a taxing authority it shall join the owner of the real estate involved as a matter of course as a party in the assessment appeal by designating such named owner in the caption as an Appellee. All taxing authorities shall be named as parties in the appeal. The tax parcel identification number for the real estate in question shall appear in the caption.

(2) Identification of the subject real estate, including the street address and tax parcel identification number, and a designation of the municipality and school district wherein the real estate is located. A copy of the property card from the tax records shall be attached as an exhibit to the petition.

(3) Name and address of the taxpayer(s), and any other party to the appeal.

(4) Nature of and reasons for the appeal.

(5) Reference to the decision of Beaver County Board of Assessment Revision or its Auxiliary Board (Board) from which the appeal is taken. The date of notification shall be provided. A copy of the Board's notice of decision shall be attached as an exhibit to the petition.

(6) Reason(s) for the appeal. The petition shall identify whether the challenge is based on fair market value, base year value, and/or a constitutional challenge based on uniformity.

(7) A verification in accordance with Pa.R.Civ.P. 206.3, if the petition contains an allegation of fact which does not appear of record.

(c) Within ten (10) days after filing the appeal, appellant shall serve a copy of the appeal on the Board, on all affected taxing authorities at their business addresses, and any other party, in the manner prescribed by

Pa.R.Civ.P. 440. The property owner shall be served notice at the registered address designated on the tax records of Beaver County.

(d) Within twenty (20) days of service of the appeal, the appellant shall file a verified proof of service of the petition.

(e) There shall be no requirement that the appellee, or any other party, file an answer or responsive pleading to the petition.

(f) All appeals shall be subject to Pa.R.Civ.P. 1012, 1023.1, and 1025 as amended.

(g) Cross-appeals shall not be permitted, and, if a cross-appeal is filed, the Court shall dismiss the cross-appeal, and proceed at the earlier filed appeal.

(h) No appeal may be withdrawn without consent of all other parties, or leave of court.

(1) In the event the matter is settled between the parties, the parties shall within seven (7) days of reaching a settlement execute a Stipulation to Settle in accordance with FORM 8000.1(h)(1) and within seven (7) days of execution of the Stipulation to Settle the appellant shall file a praecipe to settle and discontinue with the Prothonotary and deliver copies of both the Stipulation and the praecipe to the Court. Thereupon the Court will enter an Order in accordance with FORM 8000.1(h)(1). No leave of Court is required if the parties agree to settle.

Note: The Pennsylvania Rules of Civil Procedure do not apply to real estate tax assessment appeals, unless specifically adopted by local rule or order of court. In re Mackey, 687 A.2d 1186 (Pa. Commw. Ct. 1997).

Rule 8000.2. Intervention.

(a) Any taxing authority not named as a party may intervene as a matter of course during pendency of the appeal by filing a Notice of Intervention with the Prothonotary.

(b) Notice of Intervention shall contain the name of the intervening party as an additional party designated as "Intervenor" in the caption, and shall set forth that such identified party is intervening. The notice shall provide an address for the intervenor, unless simultaneously filed with an entry of appearance for counsel.

(c) Intervenor shall serve copies of Notice of Intervention on all parties in accordance with Pa.R.Civ.P. § 440.

(d) within ten (10) days of filing of Notice of Intervention, the intervenor shall file a verified proof of service.

(e) No response is required to be made by any party served with a copy of a Notice of Intervention.

Rule 8000.3. Discovery.

(a) Except as otherwise provided by this Rule, discovery shall be by leave of court only for cause shown. Nothing in these rules shall prohibit an agreement among the parties regarding discovery not otherwise authorized by these rules.

(b) In all cases involving commercial property, the taxing authorities may serve a copy of Tax Assessment Appeal Discovery Requests in accordance with FORM 8000.3 on the taxpayer. The taxpayer shall furnish the information sought in the Discovery Requests as set forth in Local Rule 8000.5.

(c) Any discovery disputes, including, without limitation, any motions for protective order or motions to compel, shall be presented upon proper notice to the judge assigned to the case.

(d) A party may inspect the property at a reasonable time(s) upon the condition that such party provides written notice of the inspection no less than fifteen (15) days prior to the property owner, if unrepresented, or the counsel of record for the property owner. If the property owner objects to the inspection or the time for inspection set forth in the notice, the property owner shall file written objections to such inspection and present such objections to the assigned judge.

Note: In the absence of a statewide rule, local rule, or order of court, it is within the sound discretion of the trial court whether to permit or refuse discovery in tax assessment appeals. *Tanglwood Lakes Community Association v. Pike County Board of Assessment*, 642 A.2d 581 (Pa. Commw. Ct. 1994).

Rule 8000.4. Consolidation.

(a) The Court on its own motion, or on the motion of a party, may consolidate real estate tax assessment appeals involving properties that are similarly situated. The properties must be located within the same municipality and school district.

(1) A motion to consolidate shall be determined in accordance with Pa.R.Civ.P. 213.

(2) If the Court grants a motion to consolidate real estate tax assessment appeals, it shall enter a case management order setting forth all pretrial deadlines.

Rule 8000.5. Pretrial Procedure.

(a) In real estate tax assessment appeals involving residential property, the following case management schedule shall govern the appeal, absent a case management order from the Court:

(1) The Court Administrator shall schedule a first pretrial conference within ninety (90) days of the filing of the appeal. At the time of the conference, all counsel and the parties, or a designated representative, shall be present.

(2) If after the first pretrial conference, the parties have not negotiated in good faith or for other reasons, this Court may, in its discretion, order the parties to exchange appraisal reports (if appropriate) within ninety (90) days. If a party fails to provide an appraisal within the time period provided by this rule, by leave of court, or within such time as agreed to by the parties and approved by the Court, then, upon motion, the Court may preclude that party from presenting any evidence of valuation at trial.

(3) Each party of record shall file a Pretrial Memorandum within one hundred and twenty (120) days of the filing of the appeal. The Pretrial Memorandum shall set forth (1) the contended assessed value of the subject real estate; (2) the names of all witnesses to be called at the hearing; (3) a list of all exhibits intended to be introduced at the hearing; (4) any pre-trial motions, with supporting legal authority; (5) a summary of any legal issues; and (6) a copy of any appraisal to be presented at the hearing.

(4) The Court Administrator shall schedule a conciliation conference within one hundred and eighty (180) days of the filing of the appeal. At the time of conciliation, all counsel and the parties, or a designated representative, shall be present. The property owner, or their designated representative, shall have full authority to settle. The conciliation conference may be the same day as the hearing before the master.

(b) In real estate tax assessment appeals involving property other than residential, the following case man-

agement schedule shall govern the appeal, absent a case management order from the Court:

(1) Discovery requests shall be propounded within forty-five (45) days of the filing of the appeal.

(2) Responses to discovery shall be furnished within forty-five (45) days of the date of the requests.

(3) The Court Administrator shall schedule a first pretrial conference within ninety (90) days of the filing of the appeal. At the time of the conference, all counsel and the parties, or a designated representative, shall be present.

(4) If after the first pretrial conference, the parties have not negotiated in good faith or for other reasons, this Court may, in its discretion, order the parties to exchange appraisal reports (if appropriate) within ninety (90) days. If a party fails to provide an appraisal within the time period provided by this rule, by leave of court, or within such time as agreed to by the parties and approved by the Court, then, upon motion, the Court may preclude that party from presenting any evidence of valuation at trial.

(5) Each party of record shall file a Pretrial Memorandum within one hundred and eighty (180) days of the filing of the appeal. The Pretrial Memorandum shall set forth (1) the contended assessed value of the subject real estate; (2) the names of all witnesses to be called at the hearing; (3) a list of all exhibits intended to be introduced at the hearing; (4) any pre-trial motions, with supporting legal authority; (5) a summary of any legal issues; and (6) a copy of any appraisal to be presented at the hearing.

(6) The Court Administrator shall schedule a conciliation conference within one hundred eighty days (180) days of the filing of the appeal. At the time of conciliation, all counsel and the parties, or a designated representative, shall be present. The property owner, or their designated representative, shall have full authority to settle. The conciliation conference may be the same day as the hearing before the master.

Rule 8000.6. Appointment of Master.

The court may hear the testimony, or, upon its own motion, may appoint a master with respect to all or any of the matters involved in the real estate tax assessment or tax exemption appeal to issue a report and recommendation. The order of appointment shall specify the matters which are referred to the master. The Master shall be compensated on an hourly basis in a manner to be determined by the Court.

Note: The Court possesses the inherent authority to appoint a master to assist it in performing its various functions, including the production of advisory opinions regarding tax assessment appeals. Appeal of 322 Blvd. Associates, 600 A.2d 630 (Pa. Commw. Ct. 1991).

Rule 8000.7. Hearing by Master. Report.

(a) The Court Administrator shall schedule any proceedings before the master and shall cause notice to be provided to all the parties in accordance with FORM 8000.7.

(b) A record shall be made of all proceedings before the master. Any requests for transcription shall be in accordance with the Pennsylvania Rules of Judicial Administration governing court reporting and transcripts.

(c) In an action which has been referred to a master, the master's report shall include findings of fact, conclusions of law, and a recommended disposition of the case.

(d) The master's report and recommendation shall be filed, and the Prothonotary shall serve a Notice and copy to all counsel of record and any unrepresented party by regular mail in accordance with FORM 8000.7(d).

(e) Any exhibits admitted into evidence before the master are part of the court record, and shall be maintained with the official court record in the appropriate filing office.

Rule 8000.8. Hearing by Master. Report. Objections. Transcript.

(a) Any party may file objections to the report and recommendation of the master within thirty (30) days of the filing of the report and recommendation. Objections must be accompanied by a certification of counsel, or a party if unrepresented, that a transcript of all proceedings before the master, or necessary portions of the transcript, have been requested from the Court Administrator.

(1) Any request for a transcript shall be governed by the applicable Pennsylvania Rules of Judicial Administration pertaining to court reporting and transcripts.

(2) If no trial transcript is filed within sixty (60) days of the date the Objections were filed, the Court Administrator shall send the objecting party a letter, with copies to all counsel and parties not represented by counsel, stating that the transcript must be paid for and filed within thirty (30) days of the date of the letter, and that if no transcript is filed within the time period, then a court order shall be issued overruling the objections with prejudice in accordance with FORM 8000.8(a)(2).

(b) Within twenty (20) days of the date on which the transcript is filed of record, the objecting party shall file a Brief in Support of Objections. The Brief in Support of Objections shall refer to transcript page numbers where possible.

(c) If no brief is filed within twenty (20) days of the date the transcript is filed, the Court Administrator shall send the objecting party a letter, with copies to all counsel or a party if not represented by counsel, stating that if a brief is not filed within twenty (20) days of the date of the letter, then a court order will be entered overruling the objections with prejudice in accordance with FORM 8000.8(c).

Note: If a Brief in Support of Objections has been filed by a taxing authority, other taxing authorities may file a statement joining in that brief, and forego filing their own brief.

(d) Within twenty (20) days after the moving party has filed its Brief in Support of Objections, all responding parties shall file their Briefs in Opposition to Objections.

(e) lf no Brief in Opposition is filed and served within twenty (20) days, the Court Administrator shall send the opposing party a letter, with copies to all counsel and parties not represented by counsel, stating that if an opposing brief is not filed within twenty (20) days of the date of the letter, the decision will be made without reference to any brief that you may file thereafter in accordance with FORM 8000.8(e).

(f) A copy of any brief filed shall be served on all counsel of record, a party if unrepresented, the Court Administrator, and the Court.

Note: If a Brief in Opposition has been filed by a taxing authority, other taxing authorities may file a statement joining in that brief, and forego filing their own brief.

Rule 8000.9. Decision. Final Order. No Post-Trial Motions.

(a) Within five (5) days after the filing date set for the Briefs in Opposition to Objections has passed, the objecting party shall notify the Court that the matter is ripe for decision by filing a notice that the matter is ripe for decision in accordance with FORM 8000.9(a). A copy of the notice shall be served on all counsel of record, a party if unrepresented, and the Court Administrator.

(b) Upon the filing of the notice defined in subsection (a), the Court may schedule oral argument on the objections, or enter a final order based on the briefs and record alone.

(c) In the event that none of the parties file objections as described above, the report and recommendation of the master shall become the final order of court.

(d) There shall be no motions for post-trial relief to a final order of court.

Rule 8000.10. Real Estate Tax Exemption Appeals.

(a) Real estate tax exemption appeals shall be governed by the same rules as real estate tax assessment appeals; provided, however, that Local Rules 8000.3 and 8000.5 shall not be applicable.

(b) Real estate tax exemption appeals from decisions of the Board shall be subject to the provisions pertaining to discovery in the Pennsylvania Rules of Civil Procedure.

Rule 8000.11. Notice of Change of Ownership of Property. Change of Address. Withdrawal or Substitution of Counsel.

(a) If at any time during the course of an appeal filed pursuant to Local Rule 8000, et seq., ownership of the property at issue is transferred, changed, or altered in any way, the new property owner listed of record in the appeal is required to file notice of the transfer/change/alteration with the Prothonotary. The notice shall provide the following information:

(1) The name(s) and addresses(es) of the new record owner(s) of the property;

(2) The type of transfer/change/alteration (e.g., property sold); and

(3) The date of the transfer/change/alteration.

(b) Failure to file notice within thirty (30) days of the transfer or change shall be grounds for termination of the appeal and a discontinuance of the matter.

Note: See Pa.R.Civ.P. 1012 for notice requirements when there is a withdrawal or substitution of counsel. See Pa.R.Civ.P. 440 for the requirements of service of legal papers.

Rule 8000.12. Repealer.

These Rules shall repeal and replace current LR8000 and LR8001 in their entirety.

FORM 8000.1(h)(1)

IN THE COURT OF COMMON PLEAS, BEAVER COUNTY PENNSYLVANIA

IN RE Appeal of:

_____

(NAME OF APPELLANT) Case No.: _____

From the Beaver County Board of

Assessment Appeal

Tax ID No. _____

School District: _____

Municipality: _____

Property of: _____

Property Address: _____

Intervenor _____

STIPULATION TO SETTLE

WHEREAS, the Appellant(s) filed an appeal to this Honorable Court of the assessment set for the above referenced property by the Board of Assessment Appeals of Beaver County.

WHEREAS, based upon the risk and hazards of litigation, the parties have decided that it is in their best interest to settle the above-captioned matter based upon the terms and conditions outlined in this Stipulation to Settle.

NOW, THEREFORE, the undersigned, intending to be legally bound and to bind their respective clients, agree to the following settlement. After further review by all parties, it was agreed the assessment shall be as follows:

1. Commencing on _____ , for the County and Township taxes, and _____ , for the School taxes, the assessment shall be set based on a fair market value of $ _____ and an assessed value of $ _____ for tax year _____ .

2. In determining the assessed value of the property, the County Assessment Office shall use a Common Level Ratio of _____ %.

3. The parties agree that the Court should enter an Order in the form attached setting the assessed value as herein above set forth and ordering that the case be marked settled, discontinued, and ended.

4. The Appellant shall pay the appropriate fee, payable to the Prothonotary of Beaver, for the discontinuance of this action. Payment shall accompany the filing of this stipulation.

5. If the docket is not settled within ten (10) days of the settlement date set forth in this Stipulation, Appellant shall appear as scheduled by the Court. Settlement of the docket shall cancel this hearing.

6. This Stipulation can be executed in counterparts.

_____
on behalf of the Municipality

_____
on behalf of the County

_____
on behalf of the Taxpayer

_____
on behalf of the School District

FORM 8000.1(h)(1)

IN THE COURT OF COMMON PLEAS, BEAVER COUNTY PENNSYLVANIA

IN RE Appeal of:

_____
(NAME OF APPELLANT) Case No.: _____

From the Beaver County Board of

Assessment Appeal

Tax ID No. _____

School District: _____

Municipality: _____

Property of: _____

Property Address: _____

Intervenor _____

ORDER

AND NOW, this _____ day of _____ , 20 ____ , upon review of the Stipulation of Settlement among the parties, attached hereto, it is hereby ORDERED, ADJUDGED and DECREED that the stipulation to settle the appeal is approved; and

It is further ORDERED that the Beaver County Board of Assessment Appeals shall establish the fair market value for assessment purposes on the Beaver County Tax Parcel Number _____ to be $ _____ and the assessed value from $ _____ to $ _____ as of _____ , for County and Municipal taxes, and _____ , for School District taxes; and

It is further ORDERED that, upon receipt of the appropriate filing fee from the Appellant, the Prothonotary of Beaver County is to mark the above case, settled, discontinued, and ended. If the docket is not settled within ten (10) days of the settlement date set forth the parties' Stipulation, Appellant shall appear before the court on the _____ day of _____ at 9:00 o'clock a.m. in courtroom _____ . Settlement of the docket shall cancel any hearing on the Petition for Appeal.

BY THE COURT:

_____ J.

FORM 8000.3 Tax Assessment Appeal Discovery Requests

(CASE CAPTION, INCLUDING DOCKET NUMBER)

AND NOW, comes (name) and serves the within Tax Assessment Appeal Discovery Requests upon (name). Pursuant to Local Rule 8000.3 and 8000.5, all applicable responses to these Requests must be furnished within forty-five (45) days after the receipt of these Requests.

REQUESTS FOR DOCUMENTS

Please produce a copy of the following:

1. Any and all surveys (land, structural, environmental, etc.), building plans and site plans showing design construction and location of the subject property.

2. Any and all mortgages, promissory notes, deeds, and agreements of sale made or assumed on the subject property within the last three years and the corresponding closing statements.

3. Any and all appraisals or evaluations on the subject property which have been made during the last three years.

4. Any and all loan applications of any kind involving or relating to the subject property which have been signed or submitted within the past three years.

5. Any and all taxes, land leases, agreements, licenses, occupancy schedules, rent schedules (or rolls) relating to the subject property for the last three years.

6. Any and all written listing agreements, offers to purchase or offers to sell the subject property made within the last three years.

7. Any and all soil tests or mineral evaluations, permits or permit requests, requests relative to a zoning variance, or similar applications or requests to any governmental body within the past three years concerning the subject property and the result of any such applications or requests.

8. Any and all federal and state income tax returns and audited financial statements with respect to the subject property within the last three years.

9. Any and all corporate or partnership prospectus or private placement memorandum that contains any reference to the value of the subject property within the last three years.

10. Any and all insurance policies and/or binders covering the subject property, its building contents, any building or any business located thereon from the last three years.

11. Any and all documents which describe in whole or in part any physical improvements to the subject property (whether by the owner or by a tenant) within the last three years.

12. Any and all documents listing or describing capital improvement(s) made to the subject property over the past three years including the costs of the capital improvement(s) and the completion date(s).

13. Any and all documents relating to leasing commissions paid with respect to the subject property over the last three years including the corresponding tenant space, the commission paid, and the date.

FORM 8000.3 Tax Assessment Appeal Discovery Requests

INTERROGATORIES

Please provide the following information:

1. The name, address and telephone number of the person to contact regarding conducting an inspection of the subject property.

Date: _____ _____

Signature

Form 8000.7

IN THE COURT OF COMMON PLEAS, BEAVER COUNTY PENNSYLVANIA

IN RE Appeal of:

_____

(NAME OF APPELLANT) Case No.: _____

From the Beaver County Board of

Assessment Appeal

Tax ID No. _____

School District: _____

Municipality: _____

Property of: _____

Property Address: _____

Intervenor _____

NOTICE

AND NOW, this _____ day of _____ , 20 ____ , upon consideration of the within Real Estate Tax Assessment Appeal Petition, the Court appoints a Master to hear the Assessment Appeal.

IT IS ORDERED THAT the within Real Estate Tax Assessment Appeal Petition will be heard on the _____ day of _____ , 20 ___ , at _____ on the _____ th Floor Hearing Room of the Beaver County Courthouse.

A Real Estate Tax Assessment Appeal status report, in the form set forth as attached hereto, shall be filed with Court Administration no later than 10 days prior to the hearing.

Any continuance of the Real Estate Tax Assessment Appeal hearing must be obtained upon motion presented to the assigned Judge.

A copy of this Order shall be served on all parties and intervenors of record. Should this matter settle before the Real Estate Tax Assessment Appeal date, please notify Court Administration via facsimile at 724 _____ . You will be required to file a Praecipe to Settle and Discontinue within 10 days.

_____
COURT ADMINISTRATOR

Form 8000.7

IN THE COURT OF COMMON PLEAS, BEAVER COUNTY PENNSYLVANIA

IN RE Appeal of:

_____
(NAME OF APPELLANT) Case No.: _____

From the Beaver County Board of

Assessment Appeal

Tax ID No. _____

School District: _____

Municipality: _____

Property of: _____

Property Address: _____

Intervenor _____

REAL ESTATE TAX ASSESSMENT APPEAL STATUS REPORT

Appellant's Counsel Name & Phone No. _____

FAX No. _____

Board of Assessment Appeal/County of Beaver

Counsel Name & Phone No. _____

FAX No. _____

Intervenor(s)' Counsel Name & Phone No.: _____

FAX No. _____

Status of Settlement negotiations: _____

Anticipated total length of Hearing—(counsel should consult with all sides to provide a reliable estimate of time because other hearings may be scheduled to follow the time allotted for your case). _____

Other considerations that the court needs to be aware of concerning the scheduling of a hearing time: _____

_____

NOTICE: Any continuance requested after the scheduling of a hearing time for your Real Estate Tax Assessment Appeal hearing as per Beaver County L.R.C.P. LR8002 will require a motion before the Court.

Date: _____ Signature _____
(legal counsel or party, if unrepresented)

FORM 8000.7(d) Notice

(CAPTION INCLUDING DOCKET NUMBER)

NOTICE

Pursuant to the provisions of 72 P.S. § 502-518.l(c) and Local Rule 8000.7, attached is the Report of the Master.

Any party objecting to the Report shall file Objections with the Beaver County Prothonotary within thirty (30) days of the receipt of this Notice. A copy of the Objections must be accompanied by a certification of counsel or of the objecting party, if unrepresented, that the trial transcript, or necessary portions of the transcript, have been ordered from the Court Administrator's Office. Copies of the Objections and certification shall be served on the Court Administrator and on all counsel of record, or the parties, if unrepresented.

In the event that none of the parties files Objections, the Report and Recommendation of the Master will be adopted as the final Order of Court.

_____
PROTHONOTARY

Dated: _____

FORM 8000.8(a)(2) Letter

Re: [case name and docket number] Dear [Objecting Party]:

It has been sixty (60) days since you filed your Objections to the Masters Report in the subject case and no trial transcript has been filed with the Court Administrator, Civil Division. You must contact this office and order the transcript of the proceedings and the transcript must be paid for and filed within thirty (30) days of the date of this letter. See Local Rule 8000.8.

If the transcript has not been paid for and filed within thirty (30) days of the date of this letter. A COURT ORDER PURSUANT TO LOCAL RULE 8000.8 WILL BE ISSUED OVERRULING THE OBJECTIONS WITH PREJUDICE.

Very truly yours,

Court Administrator

FORM 8000.8(a)(2) Court Order

[CAPTION INCLUDING DOCKET NUMBER]

ORDER OF COURT

On this _____ day of _____ 20 ____ , it appearing that ninety (90) days after the Objections in this case were filed, a letter dated _____ was mailed by the Court Administrator's office to the objecting party; this letter stated that within thirty (30) days from the date of the letter, the trial transcript must be paid for and filed; thirty (30) days have passed since the date of the letter, and the transcript has not been filed.

IT IS ORDERED THAT, pursuant to Local Rule 8000.8, the objections in this case are overruled with prejudice.

BY THE COURT:

_____ , J.

FORM 8000.8(c) Letter

Re: [case name and docket number]

Dear [Objecting Party]:

It has been twenty (20) days since the transcript in the referenced case was filed with the Court Administrator, Civil Division. Pursuant to Local Rule 8000.8, your brief is now overdue. If it is not filed and served within twenty (20) days of the date of this letter, A COURT ORDER PURSUANT TO LOCAL RULE 8000.8 WILL BE ISSUED OVERRULING YOUR OBJECTIONS WITH PREJUDICE.

Very truly yours,

Court Administrator

FORM 8000.8(c) Court Order

[CAPTION INCLUDING DOCKET NUMBER]

ORDER OF COURT

On this _____ day of _____ , 20 ____ , it appearing that twenty (20) days after the transcript in this case was filed, a letter dated _____ was mailed by the Court Administrator to the objecting party, this letter stated that if a brief is not filed by the objecting party and served within twenty (20) days of the date of the letter, a court order will be issued overruling the objections with prejudice; twenty (20) days have passed since the date of the letter; and the objecting party has not filed a brief.

IT IS ORDERED THAT, pursuant to Local Rule 8000.8 the objections in this case are overruled with prejudice.

BY THE COURT:

_____ , J.

FORM 8000.8(e) Letter

Re: [case name and docket number]

Dear [Opposing Party]:

It has been twenty (20) days since the Objecting Party filed a Brief in Support of Objections and no brief in opposition has been filed by you. If no Brief in Opposition is filed and served within (20) days of the date of this letter, the decision will be made without reference to any brief that you may file thereafter.

Very truly yours,

Court Administrator

FORM 8000.9(a) Notice That Matter is Ripe for Decision

[CASE CAPTION, INCLUDING DOCKET NUMBER]

NOTICE THAT MATTER IS RIPE FOR DECISION

AND NOW, comes (name) and notifies this Honorable Court, pursuant to Local Rule 8000.9, that this matter is ripe for decision and requests that this Honorable Court schedule oral argument or decide the objections on the briefs at its convenience.

A Brief in Opposition to the Objections _____ has _____ has not been filed (please check appropriate line) been filed.

Date: _____ (Signature) _____

[Pa.B. Doc. No. 20-202. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 255—LOCAL COURT RULES

LUZERNE COUNTY

DUI Enforcement Assessment Fee (DEAF) Pursuant to 75 Pa.C.S.A. § 3802; No. CP-40-MD-00113-2020

Administrative Order

And Now, this 21st day of January, 2020, it is hereby Ordered that, effective thirty (30) days after publication in the *Pennsylvania Bulletin*, for all crimes charged under 75 Pa.C.S.A. § 3802 (DUI), resolved by plea, trial, or diversion program, the defendant shall pay, in addition to costs of prosecution, fines and restitution, and other costs, a DUI Enforcement Assessment Fee (DEAF) of $150.00. DEAF is to be made payable to the Department of Probation Services, and shall be collected by Court Collections.

Monies will be remitted to the County of Luzerne through monthly processing in accordance with the standard financial procedures. Such fees will be forwarded to the Office of District Attorney for operational integrity and continuity by Luzerne County.

The Court Administrator is hereby Directed to file via U.S. Mail one (1) certified copy of this Rule with the Administrative Office of Pennsylvania Courts, two (2) certified copies and an electronic document via e-mail saved in Microsoft Word format to the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin*, one (1) certified copy to the Criminal Procedural Rules Committee, one (1) certified copy to the Judicial Council of Pennsylvania Statewide Rules Committee, and one (1) copy to the *Luzerne Legal Register* for publication in the next issue.

It is further Ordered that these local rules shall be kept continuously available for public inspection and copying in the Office of Judicial Services and Records of Luzerne County.

Compliance Herewith is Directed.

By the Court

MICHAEL T. VOUGH,
President Judge

[Pa.B. Doc. No. 20-203. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 255—LOCAL COURT RULES

LUZERNE COUNTY

Order Amending Local Rule of Civil Procedure 1920.51; No. CP-40-CV-00951-2020; Administration Fee for Appointment of Master in Divorce

Order

And Now, this 21st day of January, 2020, it is hereby Ordered and Decreed as follows:

1. The Court of Common Pleas of Luzerne County, constitutionally the Eleventh Judicial District of the Commonwealth of Pennsylvania amends Luzerne County Local Rule of Civil Procedure (L.R.Civ.P.) 1920.51 which follows hereto and incorporated herein by reference.

2. It is further Ordered and Decreed that the Court Administrator shall file via U.S. Mail one (1) certified copy of this Rule with the Administrative Office of Pennsylvania Courts, two (2) certified copies and an electronic document via e-mail saved in Microsoft Word format to the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin*, one (1) certified copy to the Civil Procedural Rules Committee, one (1) certified copy to the Judicial Council of Pennsylvania Statewide Rules Committee, and one (1) copy to the *Luzerne Legal Register* for publication in the next issue.

3. It is further Ordered that the effective date of this order shall be thirty (30) days after the date of publication in the *Pennsylvania Bulletin*.

4. It is further Ordered that these local rules shall be kept continuously available for public inspection and copying in the Office of Judicial Services and Records of Luzerne County.

Compliance Herewith is Directed.

By the Court

MICHAEL T. VOUGH,
President Judge

L.R.CIV.P. 1920.51. Administrative Fee for Appointment of Master in Divorce.

1. Simultaneously with the filing of a Motion for Appointment of a Master in Divorce, an administrative fee of Four Hundred ($400.00) Dollars shall be paid to the Office of Judicial Services and Records (Prothonotary) by the moving party. Within twenty (20) days of service of the Motion for Appointment of a Master in Divorce, the responding party shall pay an administrative fee of Four Hundred ($400.00) Dollars to the Office of Judicial Services and Records (Prothonotary).

2. The Master in Divorce may allocate the administrative fees charged herein as part of the recommendations of the Master's Report between the parties as may be fair and equitable by giving credit/deduction to the fees as part of the equitable distribution of martial property.

3. In the event a party fails to pay the required fee, that party shall be subject to the contempt powers of the Court and the payment of any additional expenses and costs, including attorney fees of the opposing party necessary for the enforcement of this requirement within the discretion of the Court.

4. In the event one party pays both administrative fees, he or she shall be awarded a Four Hundred ($400.00) Dollar credit as part of the final equitable distribution of marital property.

5. In the event that a party is indigent, and unable to pay the administrative fee, he or she may petition the Court for in forma pauperis (IFP) status to waive the fee pursuant to Pa.R.C.P. 240. If the party is represented by an attorney, that attorney shall file a certification that he or she is providing free legal services to that party as part of the IFP petition. If one party is indigent, the Court may allocate both fees to the non-indigent party. If both parties are indigent, neither party shall be responsible for the fee.

6. No other administrative fees shall be charged due to the appointment of a Master in Divorce.

7. Luzerne County Local Rule of Civil Procedure 1920.51 shall be effective thirty (30) days after the date of publication in the *Pennsylvania Bulletin*.

[Pa.B. Doc. No. 20-204. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 255—LOCAL COURT RULES

LUZERNE COUNTY

Order Amending Local Rule of Criminal Procedure 4010; No. CP-40-MD-00112-2020; Appointment of Luzerne County Bail Agency

Order

And Now, this 21st day of January, 2020, it is hereby Ordered and Decreed as follows:

1. The Court of Common Pleas of Luzerne County, constitutionally the Eleventh Judicial District of the Commonwealth of Pennsylvania rescinds former Rule 4010 (dated March 7, 1996) and replaces it in it's entirely with Luzerne County Local Rule of Criminal Procedure (Luz.Co.L.R.Crim.P.) 4010, as follows hereto and incorporated herein by reference.

2. It is further Ordered and Decreed that the Court Administrator shall file via U.S. Mail one (1) certified copy of this Rule with the Administrative Office of Pennsylvania Courts, two (2) certified copies and an electronic document via e-mail saved in Microsoft Word format to the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin*, one (1) certified copy to the Criminal Procedural Rules Committee, one (1) certified copy to the Judicial Council of Pennsylvania Statewide Rules Committee, and one (1) copy to the *Luzerne Legal Register* for publication in the next issue.

3. It is further Ordered that the effective date of this order shall be thirty (30) days after the date of publication in the *Pennsylvania Bulletin*.

4. It is further Ordered that these local rules shall be kept continuously available for public inspection and copying in the Office of Judicial Services and Records of Luzerne County.

Compliance Herewith is Directed.

By the Court

MICHAEL T. VOUGH,
President Judge

Luz.Co.L.R.Crim.P. 4010. Bail Agency.

In accordance with and pursuant to the Pennsylvania Rules of Criminal Procedure, the Luzerne County Court designates the Luzerne County Office of Probation Services as the County Bail Agency with all the duties and powers now or hereafter provided for by said Rules including the following:

a. To interview every person detained in lieu of or in default of bail as soon as possible after the commitment to determine whether such person qualifies for release on some supervised or unsupervised form of bail.

b. To secure such information as may be necessary and relevant to any bail decisions.

c. To make recommendations as to the bail risks of any defendant a well as concerning the types of release and the conditions of release on bail for individual defendants.

d. To investigate and evaluate the reliability and solvency of any surety and report the same to the Court and/or issuing authority.

e. Supervising defendants when so designated by the bail authority.

f. To be surety on any bail permitted by law.

g. Administering percentage cash bail when authorized by a bail authority pursuant to the Rules of Criminal Procedure.

h. To keep account of the whereabouts of defendants released on bail for whom it is surety or defendants who are released under their supervisory powers and authority or any bail authorized by the agency and to inform the Court or issuing authority of any violation by such defendant of terms or conditions of their release.

i. To make reasonable rules and regulations necessary to implement the Bail Agency's functions and to make the same known to each person placed under the supervision of the Agency.

j. With the approval of the Court to set, collect and retain as a fee an amount reasonably related to the cost of administering the particular bail program.

k. Nothing in this rule shall prohibit the designation of other private surety in appropriate bail cases without the designation of the County Bail Agency of supervisory surety,

l. Nothing in this rule shall prohibit the posting of any appropriate type of bail allowed under the Rules of Criminal Procedure by other private or licensed sureties.

m. Any representative of the Bail Agency who seeks and obtains information from a defendant shall both orally and in writing advise a defendant that anything said to a Bail Agency representative may be used against said defendant.

n. Information obtained from or concerning any defendant shall be disclosed only to persons authorized by law

to receive such information and use of the same shall be as now or hereafter restricted or limited by the Rules of Criminal Procedure.

[Pa.B. Doc. No. 20-205. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 255—LOCAL COURT RULES

WARREN AND FOREST COUNTIES

Local Rule of Criminal Procedure 576.1 Electronic Filing and Service of Legal Papers; No. 8 of 2020

Order

And Now, this 27th day of January, 2020, it is hereby Ordered effective 30 days after publication in the *PA Bulletin*, the 37th Judicial District of the Court of Common Pleas adopts the following Local Rule 576.1 governing Electronic Filing and Service of Legal Papers.

The 37th Judicial District Court Administrator is hereby Ordered to do the following:

1. File one (1) copy to the Administrative Office of Pennsylvania Courts via email to adminrules@pacourts.us.

2. File two (2) copies and one (1) electronic copy in a Microsoft Word format only to bulletin@palrb.us with the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin*.

3. Publish these rules on the Warren-Forest County Court website, www.warrenforestcourt.org.

4. File one (1) copy of the Local Rule in the appropriate filing office for public inspection and copying.

By the Court

MAUREEN A. SKERDA,
President Judge

Rule Crim.P. L576.1. Electronic Filing and Service of Legal Papers.

A. Pursuant to Pennsylvania Rule of Criminal Procedure 576.1 Electronic Filing and Service of Legal Papers, electronic filing of legal papers through the PACFile electronic filing system shall be permitted for Forest and Warren County with the retroactive effective date of July 20, 2016 and Warren County effective January 13, 2020. The 37th Judicial District and AOPC have agreed to an implementation plan for use of the PACfile electronic filing system.

B. The electronic filing of motions and other legal papers is authorized as specifically provided in this rule. Parties shall electronically file documents using the PACFile electronic filing system developed by the Administrative Office of the Pennsylvania Courts and located on the Pennsylvania Unified Judicial System Web Portal at https://ujsportal.pacourts.us/. The application of general rules of court and court policies that implement the rules shall continue to apply regardless of the method of filing.

C. *Legal Papers Defined*. The "legal papers" which shall be filed electronically shall encompass all written motions, written answers and any notices or documents for which filing is required or permitted, including orders, exhibits and attachments, except for the following:

1. Applications for a search warrant,

2. Application for an arrest warrant,

3. Grand jury materials, except the indicting grand jury indictment or the investigating grand jury presentment,

4. Submissions filed ex parte as authorized by law and,

5. Submissions filed or authorized to be filed under seal.

D. Attorneys or self-represented parties who file legal papers electronically must establish a PACFile account using the Unified Judicial System of the Pennsylvania Web Portal. Pursuant to Pennsylvania Rules of Criminal Procedure 576.1(D)(2), the establishment of a PACFile account constitutes consent to participate in electronic filing, including acceptance of service electronically of any document filed using PACFile.

E. Applicable filing fees shall be paid through procedures established by the Clerk of Courts and at the same time and in the same amount required by statute, court rule or order, or established by a published fee schedule unless a party is granted In Forma Pauperis status.

F. All filings shall comply with the Case Records Public Access Policy of the Unified Judicial System of Pennsylvania.

G. *Service of Legal Papers*.

a. Attorneys or self-represented parties who are unable or unwilling to participate in electronic filing of documents are permitted to file and serve the legal papers in a physical paper format.

b. Service of legal papers on any attorney or party who has not established a UJS portal account or who is unable to file or receive legal papers electronically or otherwise to access the system shall be made by the procedures provided under Rule 114(B) and 576(B).

[Pa.B. Doc. No. 20-206. Filed for public inspection February 14, 2020, 9:00 a.m.]

DISCIPLINARY BOARD OF THE SUPREME COURT

Notice of Disbarment

Notice is hereby given that Kenneth Haley (# 308478), having been disbarred in Maryland, the Supreme Court of Pennsylvania issued an Order on January 30, 2020, disbarring Kenneth Haley from the Bar of this Commonwealth, effective February 29, 2020. In accordance with Rule 217(f), Pa.R.D.E., since this formerly admitted attorney resides outside of the Commonwealth of Pennsylvania, this notice is published in the *Pennsylvania Bulletin*.

MARCEE D. SLOAN,
Board Prothonotary

[Pa.B. Doc. No. 20-207. Filed for public inspection February 14, 2020, 9:00 a.m.]

STATEMENTS OF POLICY

Title 4—ADMINISTRATION

PART II. EXECUTIVE BOARD

[4 PA. CODE CH. 9]

Reorganization of the Department of Health

The Executive Board approved a reorganization of the Department of Health effective January 28, 2020.

The organization chart at 50 Pa.B. 916 (February 15, 2020) is published at the request of the Joint Committee on Documents under 1 Pa. Code § 3.1(a)(9) (relating to contents of *Code*).

(*Editor's Note*: The Joint Committee on Documents has found organization charts to be general and permanent in nature. This document meets the criteria of 45 Pa.C.S. § 702(7) (relating to contents of *Pennsylvania Code*) as a document general and permanent in nature which shall be codified in the *Pennsylvania Code*.)

[Pa.B. Doc. No. 20-208. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 4—ADMINISTRATION

PART II. EXECUTIVE BOARD

[4 PA. CODE CH. 9]

Reorganization of the Department of Human Services

The Executive Board approved a reorganization of the Department of Human Services effective January 28, 2020.

The organization chart at 50 Pa.B. 917 (February 15, 2020) is published at the request of the Joint Committee on Documents under 1 Pa. Code § 3.1(a)(9) (relating to contents of *Code*).

(*Editor's Note*: The Joint Committee on Documents has found organization charts to be general and permanent in nature. This document meets the criteria of 45 Pa.C.S. § 702(7) (relating to contents of *Pennsylvania Code*) as a document general and permanent in nature which shall be codified in the *Pennsylvania Code*.)

[Pa.B. Doc. No. 20-209. Filed for public inspection February 14, 2020, 9:00 a.m.]

Title 4—ADMINISTRATION

PART II. EXECUTIVE BOARD

[4 PA. CODE CH. 9]

Reorganization of the Governor's Office of the Budget

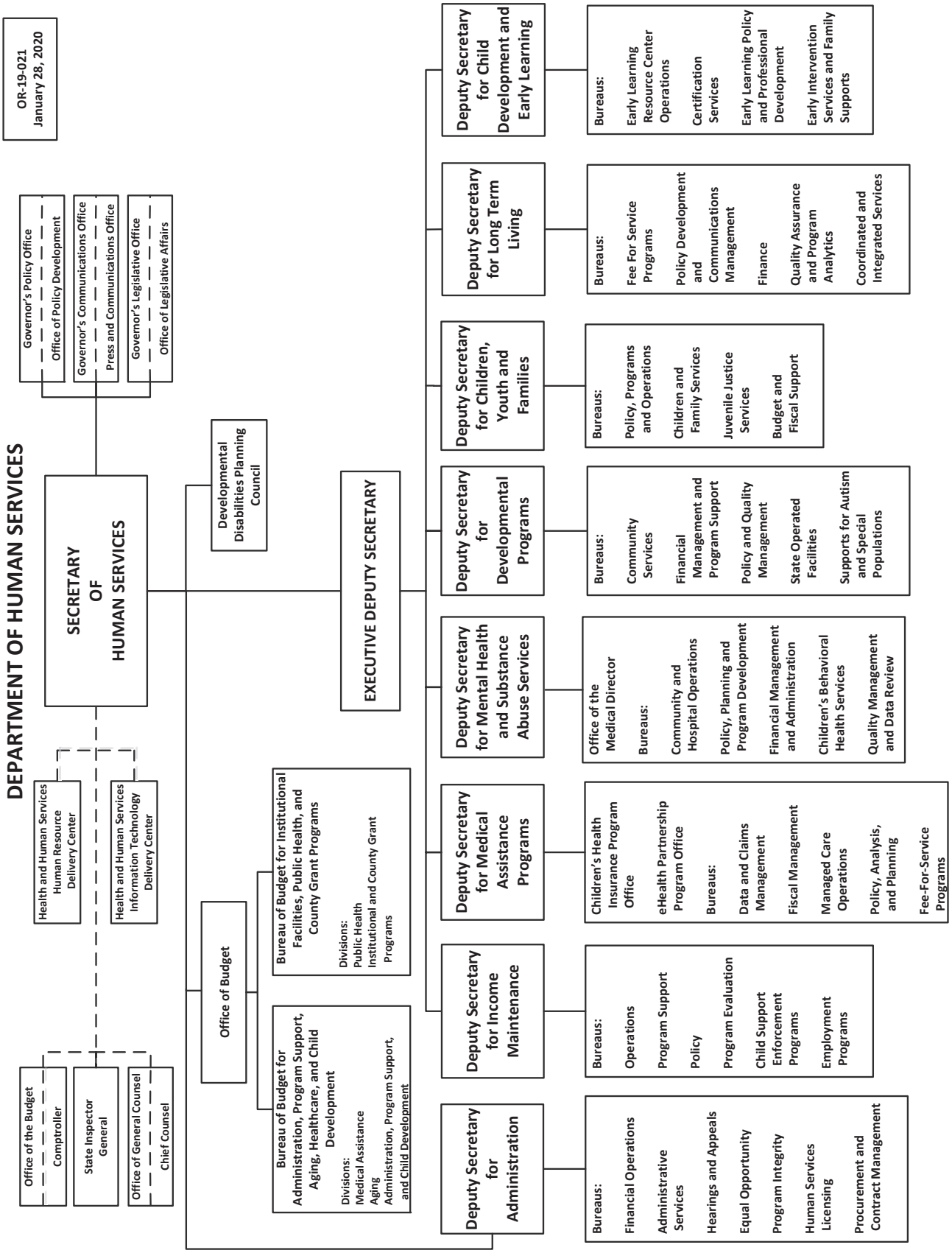
The Executive Board approved a reorganization of the Governor's Office of the Budget effective January 28, 2020.

The organization chart at 50 Pa.B. 919 (February 15, 2020) is published at the request of the Joint Committee on Documents under 1 Pa. Code § 3.1(a)(9) (relating to contents of *Code*).

(*Editor's Note*: The Joint Committee on Documents has found organization charts to be general and permanent in nature. This document meets the criteria of 45 Pa.C.S. § 702(7) (relating to contents of *Pennsylvania Code*) as a document general and permanent in nature which shall be codified in the *Pennsylvania Code*.)

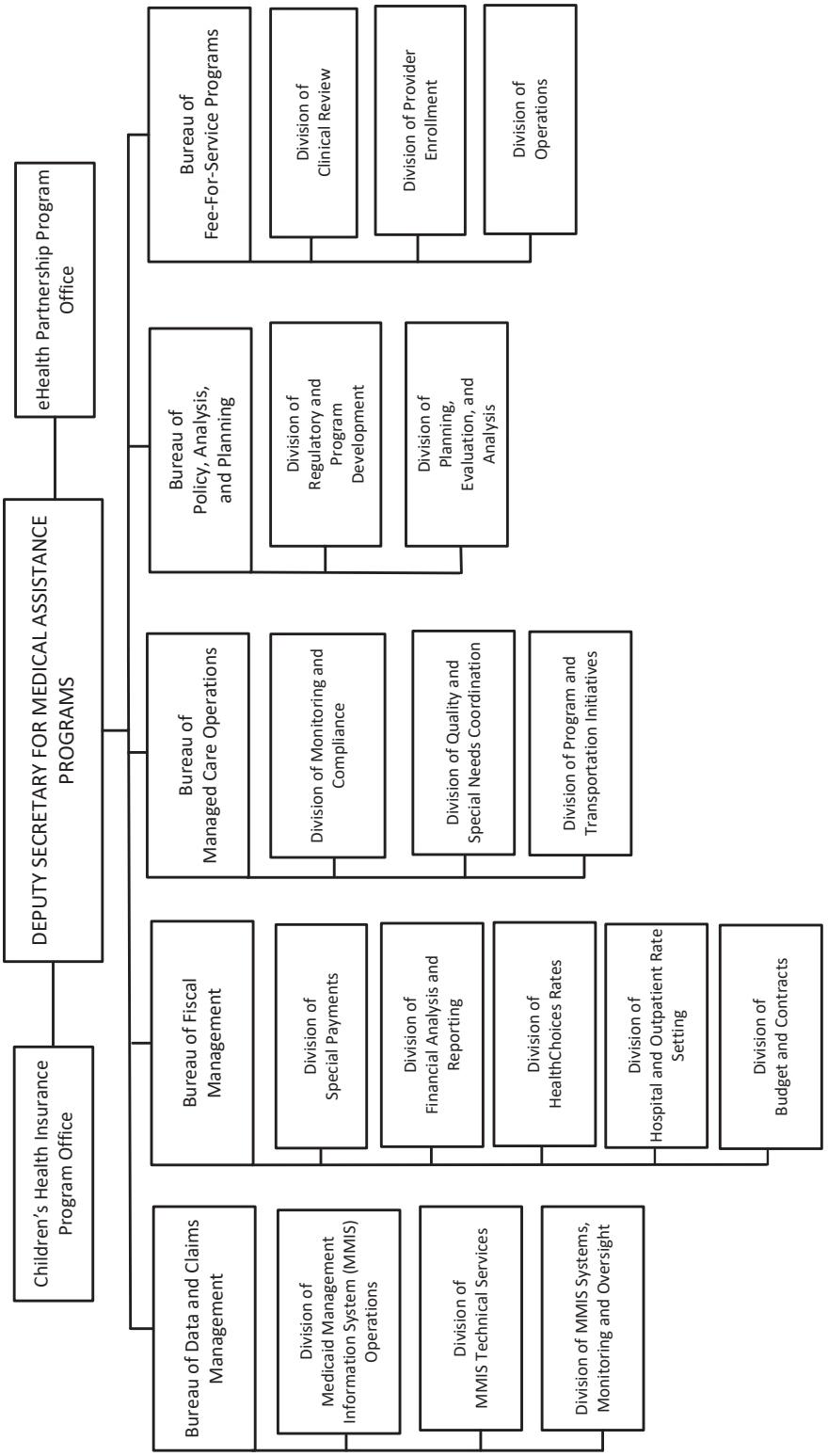
[Pa.B. Doc. No. 20-210. Filed for public inspection February 14, 2020, 9:00 a.m.]

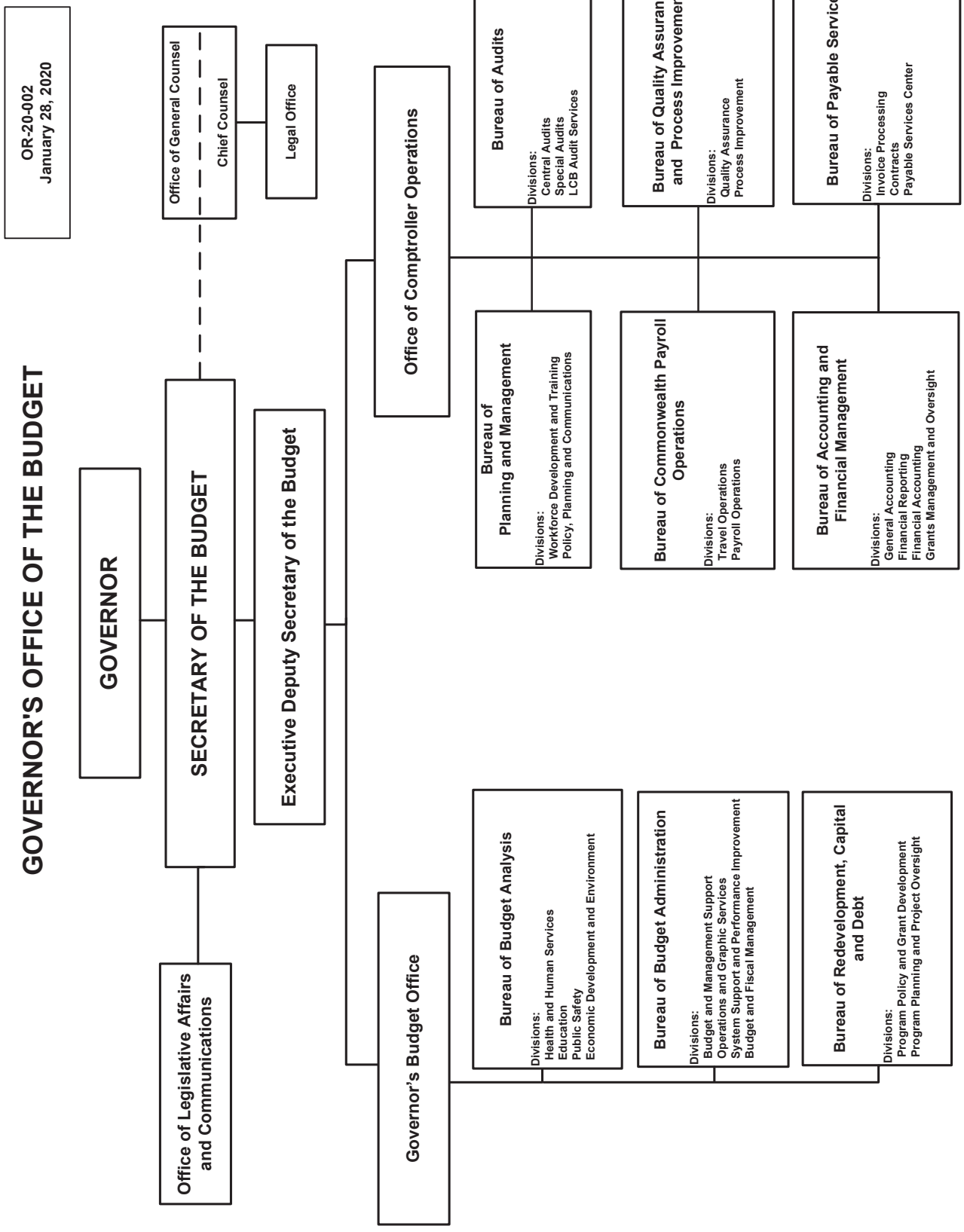
DEPARTMENT OF HEALTH
OR-20-001
January 28, 2020
SECRETARY
Governor's Communications Office
Communications Office
Governor's Legislative Office
Legislative Liaison Office
Governor's Policy Office
Policy Office
Physician General
General Counsel
Chief Counsel's Office
Secretary of the Budget
Comptroller
Executive Deputy Secretary
Medical Marijuana Office
Bureau of Health Statistics and Registries
Divisions:
Vital Records
Statistical Registries
Deputy Secretary for Health Innovation
Bureau of Health Planning
Divisions:
Plan Development
Health Professions Development
Bureau of Managed Care
Divisions:
Certification
Quality Review
Health Research Office
Prescription Drug Monitoring Program Office
Rural Health Redesign Office
Deputy Secretary for Health Promotion and Disease Prevention
Bureau of Family Health
Divisions:
Child and Adult Health Services
Community Systems Development and Outreach
Newborn Screening and Genetics
Bureau Operations
Bureau of WIC
Divisions:
Finance, Technology and Retail Store Management
Regional Territory Coordination
Quality Assurance and Program Integrity
Bureau of Communicable Diseases
Divisions:
HIV Disease
Tuberculosis and Sexually Transmitted Diseases
Immunizations
Bureau of Health Promotion and Risk Reduction
Divisions:
Cancer Prevention and Control
Violence Prevention
Nutrition and Physical Activity
Tobacco Prevention and Control
Health Equity Office
Deputy Secretary for Quality Assurance
Bureau of Facility Licensure and Certification
Divisions:
Nursing Care Facilities
Acute and Ambulatory Care
Safety Inspection
Bureau of Community Program Licensure and Certification
Divisions:
Home Health
Intermediate Care Facilities
Deputy Secretary for Health Preparedness and Community Protection
Bureau of Emergency Medical Services
Bureau of Emergency Preparedness and Response
Divisions:
Finance and Administration
Planning and Operations
Bureau of Epidemiology
Divisions:
Infectious Disease Epidemiology
Environmental Health Epidemiology
Community Epidemiology
Bureau of Laboratories
Divisions:
Clinical Microbiology
Chemistry and Toxicology
Laboratory Improvement
Bureau of Community Health Systems
Division of School Health
Districts:
Southeast
Northeast
Southcentral
Northcentral
Northwest
Southwest
Local Health Departments:
Allegheny
Allentown
Bethlehem
Bucks
Chester
Erie
Montgomery
Philadelphia
Wilkes-Barre
York
Health and Human Services Human Resource Delivery Center
Health and Human Services Information Technology Delivery Center
Deputy Secretary for Administration, DHS
Office of Budget, DHS


DEPARTMENT OF HUMAN SERVICES
OR-19-021
January 28, 2020
SECRETARY OF HUMAN SERVICES
Governor's Policy Office
Office of Policy Development
Governor's Communications Office
Press and Communications Office
Governor's Legislative Office
Office of Legislative Affairs
Developmental Disabilities Planning Council
EXECUTIVE DEPUTY SECRETARY
Office of the Budget
Comptroller
State Inspector General
Office of General Counsel
Chief Counsel
Health and Human Services Human Resource Delivery Center
Health and Human Services Information Technology Delivery Center
Office of Budget
Bureau of Budget for Administration, Program Support, Aging, Healthcare, and Child Development
Divisions:
Medical Assistance
Aging
Administration, Program Support, and Child Development
Bureau of Budget for Institutional Facilities, Public Health, and County Grant Programs
Divisions:
Public Health
Institutional and County Grant Programs
Deputy Secretary for Administration
Bureaus:
Financial Operations
Administrative Services
Hearings and Appeals
Equal Opportunity
Program Integrity
Human Services Licensing
Procurement and Contract Management
Deputy Secretary for Income Maintenance
Bureaus:
Operations
Program Support
Policy
Program Evaluation
Child Support Enforcement Programs
Employment Programs
Deputy Secretary for Medical Assistance Programs
Children's Health Insurance Program Office
eHealth Partnership Program Office
Bureaus:
Data and Claims Management
Fiscal Management
Managed Care Operations
Policy, Analysis, and Planning
Fee-For-Service Programs
Deputy Secretary for Mental Health and Substance Abuse Services
Office of the Medical Director
Bureaus:
Community and Hospital Operations
Policy, Planning and Program Development
Financial Management and Administration
Children's Behavioral Health Services
Quality Management and Data Review
Deputy Secretary for Developmental Programs
Bureaus:
Community Services
Financial Management and Program Support
Policy and Quality Management
State Operated Facilities
Supports for Autism and Special Populations
Deputy Secretary for Children, Youth and Families
Bureaus:
Policy, Programs and Operations
Children and Family Services
Juvenile Justice Services
Budget and Fiscal Support
Deputy Secretary for Long Term Living
Bureaus:
Fee For Service Programs
Policy Development and Communications Management
Finance
Quality Assurance and Program Analytics
Coordinated and Integrated Services
Deputy Secretary for Child Development and Early Learning
Bureaus:
Early Learning Resource Center Operations
Certification Services
Early Learning Policy and Professional Development
Early Intervention Services and Family Supports

OR 19-021
January 28, 2020

DEPARTMENT OF HUMAN SERVICES
DEPUTY SECRETARY FOR MEDICAL ASSISTANCE PROGRAMS




GOVERNOR'S OFFICE OF THE BUDGET
OR-20-002
January 28, 2020
GOVERNOR
SECRETARY OF THE BUDGET
Office of General Counsel
Chief Counsel
Legal Office
Executive Deputy Secretary of the Budget
Office of Comptroller Operations
Bureau of Audits
Divisions:
Central Audits
Special Audits
LCB Audit Services
Bureau of Quality Assurance and Process Improvement
Divisions:
Quality Assurance
Process Improvement
Bureau of Payable Services
Divisions:
Invoice Processing
Contracts
Payable Services Center
Bureau of Planning and Management
Divisions:
Workforce Development and Training
Policy, Planning and Communications
Bureau of Commonwealth Payroll Operations
Divisions:
Travel Operations
Payroll Operations
Bureau of Accounting and Financial Management
Divisions:
General Accounting
Financial Reporting
Financial Accounting
Grants Management and Oversight
Office of Legislative Affairs and Communications
Governor's Budget Office
Bureau of Budget Analysis
Divisions:
Health and Human Services
Education
Public Safety
Economic Development and Environment
Bureau of Budget Administration
Divisions:
Budget and Management Support
Operations and Graphic Services
System Support and Performance Improvement
Budget and Fiscal Management
Bureau of Redevelopment, Capital and Debt
Divisions:
Program Policy and Grant Development
Program Planning and Project Oversight

NOTICES

BOARD OF COAL MINE SAFETY

Meeting Cancellation

The March 10, 2020, meeting of the Board of Coal Mine Safety (Board) is cancelled. The next regular meeting of the Board is scheduled for Tuesday, June 9, 2020, at 10 a.m. in Conference Rooms A and B, Department of Environmental Protection Cambria Office, 286 Industrial Park Road, Ebensburg, PA.

Questions concerning the June meeting should be directed to Margaret Scheloske at mscheloske@pa.gov or (724) 404-3143. The agenda and meeting materials will be available through the Public Participation tab on the Department of Environmental Protection's (Department) web site at www.dep.pa.gov (select "Public Participation," then "Advisory Committees," then "Mining Advisory Committees," then "Board of Coal Mine Safety").

Persons in need of accommodations as provided for in the Americans with Disabilities Act of 1990 should contact Margaret Scheloske at (724) 404-3143 or through the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users) to discuss how the Department may accommodate their needs.

PATRICK McDONNELL,
Chairperson

[Pa.B. Doc. No. 20-211. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF BANKING AND SECURITIES

Actions on Applications

The Department of Banking and Securities (Department), under the authority in the Banking Code of 1965 (7 P.S. §§ 101—2204), the Department of Banking and Securities Code (71 P.S. §§ 733-1—733-1203) and 17 Pa.C.S. (relating to Credit Union Code), has taken the following actions on applications received for the week ending February 4, 2020.

Under section 503.E of the Department of Banking and Securities Code (71 P.S. § 733-503.E), any person wishing to comment on the following applications, with the exception of branch applications, may file comments in writing with the Department of Banking and Securities, Bank Supervision or Credit Union and Trust Supervision (as applicable), 17 North Second Street, Suite 1300, Harrisburg, PA 17101-2290. Comments must be received no later than 30 days from the date notice regarding receipt of the application is published in the *Pennsylvania Bulletin*. The nonconfidential portions of the applications are on file at the Department and are available for public inspection, by appointment only, during regular business hours. To schedule an appointment, for banks (717) 783-8240 and for credit unions and trust companies (717) 783-2253. Photocopies of the nonconfidential portions of the applications may be requested consistent with the Department's Right-to-Know Law Records Request policy.

BANKING INSTITUTIONS

Section 112 Acquisitions

Date	*Name and Location of Applicant*	*Action*
02-04-2020	Fiduciary Trust Company International and Fiduciary International Holding, Inc. New York New York Franklin Resources, Inc. San Mateo California Applications for approval have been submitted for the following transactions. Fiduciary Trust Company International will purchase 100% of the shares of The Pennsylvania Trust Company (the "Company") from its corporate parent, PTC 450, Ltd. Immediately following its acquisition of the shares, Fiduciary Trust Company International will contribute 100% of the shares to its subsidiary, Fiduciary International Holding, Inc. Consequently, Fiduciary International Holding, Inc. will become the immediate corporate parent and owner of 100% of the shares of The Pennsylvania Trust Company. As a result, Fiduciary Trust Company International will become the indirect corporate parent of The Pennsylvania Trust Company by virtue of its ownership of 100% of the shares of Fiduciary International Holding, Inc. Franklin Resources, Inc. will also become an indirect corporate parent of the Company by virtue of its ownership of 100% of the shares of Fiduciary Trust Company International.	Filed

Branch Applications

De Novo Branches

Date	*Name and Location of Applicant*	*Location of Branch*	*Action*
01-30-2020	York Traditions Bank York York County	1687 Oregon Pike Lancaster Lancaster County	Filed

Branch Discontinuances

Date	*Name and Location of Applicant*	*Location of Branch*	*Action*
01-30-2020	CNB Bank Clearfield Clearfield County	6947 Williams Road Niagara Falls New York County, NY (Temporary Facility)	Closed

CREDIT UNIONS

Branch Applications

De Novo Branches

Date	*Name and Location of Applicant*	*Location of Branch*	*Action*
01-29-2020	TruMark Financial Credit Union Fort Washington Montgomery County	7301 Castor Avenue Philadelphia Philadelphia County	Approved
01-29-2020	TruMark Financial Credit Union Fort Washington Montgomery County	700 East Market Street West Chester Chester County	Approved
01-29-2020	TruMark Financial Credit Union Fort Washington Montgomery County	301 Horsham Road Horsham Montgomery County	Approved
01-29-2020	TruMark Financial Credit Union Fort Washington Montgomery County	3420 Tillman Drive Bensalem Bucks County	Approved

Branch Relocations

Date	*Name and Location of Applicant*	*Location of Branch*	*Action*
01-27-2020	White Rose Credit Union York York County	*To*: 160 East Main Street Dallastown York County	Approved
		From: 13 Dairyland Square Red Lion York County	

The Department's web site at www.dobs.pa.gov includes public notices for more recently filed applications.

ROBIN L. WIESSMANN,
Secretary

[Pa.B. Doc. No. 20-212. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF BANKING AND SECURITIES

Maximum Lawful Rate of Interest for Residential Mortgages for the Month of March 2020

The Department of Banking and Securities (Department), under the authority contained in section 301 of the act of January 30, 1974 (P.L. 13, No. 6) (41 P.S. § 301), determines that the maximum lawful rate of interest for residential mortgages for the month of March 2020, is 4 1/2%.

The interest rate limitations under the Commonwealth's usury statute were pre-empted to a great extent by Federal law, the Depository Institutions Deregulation and Monetary Control Act of 1980 (Pub.L. No. 96-221). Further pre-emption was instituted with the signing of Pub.L. No. 96-399, which overrode State interest rate limitations on any individual who finances the sale or exchange of residential real property which the individual owns and which the individual occupies or has occupied as his principal residence.

Each month the Department is required by State law to compute and announce the ceiling rate on residential mortgages in this Commonwealth. This maximum rate is determined by adding 2.50 percentage points to the yield rate on long-term government bonds as published by the Federal Reserve Board or the United States Treasury, or both. The latest yield rate on long-term government securities is 2.01 to which was added 2.50 percentage points for a total of 4.51 that by law is rounded off to the nearest quarter at 4 1/2%.

ROBIN L. WIESSMANN,
Secretary

[Pa.B. Doc. No. 20-213. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT

Availability of Applications for the Emergency Solutions Grant Program

The Department of Community and Economic Development (Department), Center for Community and Housing Development, is anticipating receiving funding through the United States Department of Housing and Urban Development for the Emergency Solutions Grant. The Homeless Emergency Assistance and Rapid Transition to Housing Act of 2009 (Pub.L. No. 111-22) provides funding for Emergency Solutions for the Commonwealth to address the needs of homeless people through services in

Rapid Rehousing, Street Outreach, Homelessness Prevention and Emergency Shelters. The focus is to help individuals and families to quickly regain stability in permanent housing after experiencing a housing crisis or homelessness, or both.

The Department will accept applications from any general purpose units of local government, including cities, boroughs, townships, towns, counties, home rule municipalities and communities that wish to apply on behalf of other municipalities. Priority will be given to nonentitled jurisdictions; however, the Department will consider funding applications received from all eligible government jurisdictions previously listed. Nonprofits are eligible applicants or grantees to the extent the project will address a demonstrated regional need.

The guidelines and period of application are open from February 18, 2020, through March 27, 2020. A fully executed application with all applicable attachments must be submitted to the Department through the Electronic Single Application only by 5 p.m. on Friday, March 27, 2020. Applications received during this window of time will be considered for funding. Hard/paper copies will not be accepted. The application is located on the Department's web site at https://dced.pa.gov/programs/emergency-solutions-grant-esg/.

A preapplication webinar will be conducted on February 27, 2020, at 10 a.m. to review the guidelines. Use the following link to register for the webinar: https://tinyurl.com/v4d67kt.

A copy of the guidelines and application may be obtained by download from the Department's previously listed web site. A hard copy may be requested by persons with a disability who wish to submit an application in accordance with the stated provisions and who require assistance with that application. Persons who require copies of this notice in an alternate format (large type, Braille, and the like) should contact Megan Snyder, 4th Floor, Commonwealth Keystone Building, Harrisburg, PA 17120, (717) 787-7404, TDD (717) 346-0308 to discuss how the Department may best accommodate those needs. Copies of the application may also be viewed at any of the Department's regional offices. The following is the listing of the Department's regional offices and the counties they serve:

Regional Offices

Southeast

Bucks, Chester, Delaware, Montgomery and Philadelphia Counties

Department of Community and Economic Development
200 South Broad Street, 11th Floor
Philadelphia, PA 19102
(215) 560-5822

Northeast

Bradford, Carbon, Clinton, Columbia, Lackawanna, Luzerne, Lycoming, Montour, Pike, Schuylkill, Sullivan, Susquehanna, Tioga, Wayne and Wyoming Counties

Department of Community and Economic Development
2 North Main Street
Pittston, PA 18640
(570) 963-4571

Lehigh Valley

Berks, Lebanon, Lehigh, Monroe, Northampton, Snyder and Union Counties

400 North Street, 4th Floor
Harrisburg, PA 17120
(717) 877-8481

Central

Adams, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Mifflin, Perry and York Counties

Department of Community and Economic Development
Commonwealth Keystone Building
400 North Street, 4th Floor
Harrisburg, PA 17120
(717) 720-7386

Southwest

Allegheny, Armstrong, Beaver, Bedford, Blair, Butler, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland Counties

Department of Community and Economic Development
301 5th Avenue, Suite 250
Pittsburgh, PA 15222
(412) 565-5002

Northwest

Cameron, Centre, Clarion, Clearfield, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Potter, Venango and Warren Counties

Department of Community and Economic Development
100 State Street, Suite 205
Erie, PA 16507
(814) 871-4241

Main Office

Center for Community and Housing Development
400 North Street, 4th Floor
Commonwealth Keystone Building
Harrisburg, PA 17120
(717) 787-5327

DENNIS M. DAVIN,
Secretary

[Pa.B. Doc. No. 20-214. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Applications, Actions and Special Notices

APPLICATIONS

THE CLEAN STREAMS LAW AND THE FEDERAL CLEAN WATER ACT

APPLICATIONS FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS AND WATER QUALITY MANAGEMENT (WQM) PERMITS

This notice provides information about persons who have applied for a new, amended or renewed NPDES or WQM permit, a permit waiver for certain stormwater discharges or submitted a Notice of Intent (NOI) for coverage under a General Permit. The applications concern, but are not limited to, discharges regarding industrial, animal or sewage

waste, discharges to groundwater, discharges associated with municipal separate storm sewer systems (MS4), stormwater associated with construction activities or concentrated animal feeding operations (CAFO). This notice is provided in accordance with 25 Pa. Code Chapters 91 and 92a and 40 CFR Part 122, implementing The Clean Streams Law (35 P.S. §§ 691.1—691.1001) and the Federal Clean Water Act (33 U.S.C.A. §§ 1251—1376).

Location	*Permit Authority*	*Application Type or Category*
Section I	NPDES	Renewals
Section II	NPDES	New or Amendment
Section III	WQM	Industrial, Sewage or Animal Waste; Discharge into Groundwater
Section IV	NPDES	MS4 Individual Permit
Section V	NPDES	MS4 Permit Waiver
Section VI	NPDES	Individual Permit Stormwater Construction
Section VII	NPDES	NOI for Coverage under NPDES General Permits

For NPDES renewal applications in Section I, the Department of Environmental Protection (Department) has made a tentative determination to reissue these permits for 5 years subject to effluent limitations and monitoring and reporting requirements in their current permits, with appropriate and necessary updated requirements to reflect new and changed regulations and other requirements.

For applications for new NPDES permits and renewal applications with major changes in Section II, as well as applications for MS4 Individual Permits and Individual Stormwater Construction Permits in Sections IV and VI, the Department, based upon preliminary reviews, has made tentative determinations of proposed effluent limitations and other terms and conditions for the permit applications. In accordance with 25 Pa. Code § 92a.32(d), the proposed discharge of stormwater associated with construction activities will be managed in accordance with the requirements of 25 Pa. Code Chapter 102. These determinations are published as proposed actions for comments prior to taking final actions.

Unless indicated otherwise, the United States Environmental Protection Agency (EPA) Region III Administrator has waived the right to review or object to proposed NPDES permit actions under the waiver provision in 40 CFR 123.24(d).

Persons wishing to comment on NPDES applications are invited to submit statements to the contact office noted before the application within 30-days from the date of this public notice. Persons wishing to comment on WQM permit applications are invited to submit statements to the office noted before the application within 15-days from the date of this public notice. Comments received within the respective comment periods will be considered in the final determinations regarding the applications. A comment submittal should include the name, address and telephone number of the writer and a concise statement to inform the Department of the exact basis of a comment and the relevant facts upon which it is based.

The Department will also accept requests for public hearings on applications. A public hearing may be held if the responsible office considers the public response significant. If a hearing is scheduled, a notice of the hearing will be published in the *Pennsylvania Bulletin* and a newspaper of general circulation within the relevant geographical area. The Department will postpone its final determination until after a public hearing is held.

Persons with a disability who require an auxiliary aid, service, including TDD users, or other accommodations to seek additional information should contact the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

I. NPDES Renewal Applications.

Northeast Region: Clean Water Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790.

Email: RA-EPNPDES_NERO@pa.gov.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed #)*	*EPA Waived Y/N?*
PA0276286 (Storm Water)	B Braun Medical Inc.— Breinigsville Distribution Center 200 Boulder Drive Breinigsville, PA 18031	Lehigh County Upper Macungie Township	Iron Run (HQ-CWF, MF) (2-C)	Yes
PA0060879 (Sewage)	Springdale Gardens P.O. Box 849 Olyphant, PA 18447	Carbon County Mahoning Township	Unnamed Tributary to Mahoning Creek (EV (existing use)) (2-B)	Yes
PA0065510 (Storm Water)	Central Transport 12225 Stephens Road Warren, MI 48089-2010	Northampton County East Allen Township	East Branch Monocacy Creek (HQ-CWF, MF) (2-C)	Yes
PAS802204 (Storm Water)	Lehigh & Northampton Transportation Authority 1060 Lehigh Street Allentown, PA 18103	Lehigh County Allentown City	Little Lehigh Creek (HQ-CWF, MF) (2-C)	Yes

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed #)*	*EPA Waived Y/N?*
PA0064190 (Sewage)	R Place On 590 P.O. Box 189 Hamlin Hwy, PA 18427	Wayne County Salem Township	Unnamed Tributary to West Branch Wallenpaupack Creek (HQ-CWF, MF) (1-C)	Yes
PA0035271 (Sewage)	Tall Timbers Village MHP TTV 6 Factoryville, PA 18419	Lackawanna County La Plume Township	South Branch Tunkhannock Creek (TSF, MF) (4-F)	Yes

Northcentral Regional Office: Clean Water Program Manager, 208 W Third Street, Suite 101, Williamsport, PA 17701-6448. Phone: 570.327.3636.

Email: RA-EPNPDES_NCRO@pa.gov.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed No.)*	*EPA Waived Y/N?*
PA0228699 (Sewage)	Finch SFTF 125 Grove Road Prosperity, PA 15329-2027	Cameron County Portage Township	Cowley Run (EV) (8-A)	Yes
PA0228133 (Industrial)	PA DOT Cameron County Maintenance Bldg 70 Penndot Drive Clearfield, PA 16830-6051	Cameron County Lumber Township	Driftwood Branch Sinnemahoning Creek (TSF) (8-A)	Yes

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Email: RA-EPNPDES_SWRO@pa.gov.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed #)*	*EPA Waived Y/N?*
PA0031402 (Sewage)	Joel 2 Missions Inc. Central Elementary School P.O. Box 385 Donora, PA 15033	Fayette County Luzerne Township	Unnamed Tributary to Monongahela River (WWF) (19-C)	Yes
PA0094382 (Sewage)	Metzgar Elementary School STP 1 Academy Hill Place Greensburg, PA 15601-1567	Westmoreland County Salem Township	Unnamed Tributary to Loyalhanna Creek (WWF) (18-C)	Yes

II. Applications for New or Expanded Facility Permits, Renewal of Major Permits and EPA Non-Waived Permit Applications.

Southcentral Region: Clean Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110.

Email: RA-EPNPDES_SCRO@pa.gov.

PA0085235, Sewage, SIC Code 5800, **Degrazia LLC**, 3790 Morgantown Road, Mohnton, PA 19540-7920. Facility Name: Emilys Restaurant. This existing facility is located in Robeson Township, **Berks County**.

Description of Existing Activity: The application is for a renewal of an NPDES permit for an existing discharge of treated SFTF sewage.

The receiving stream(s), Unnamed Tributary to Allegheny Creek (CWF), is located in State Water Plan watershed 3-C and is classified for Cold Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 001 are based on a design flow of 0.0012 MGD.—Limits.

Parameters	*Mass Units (lbs/day) Average Monthly*	*Mass Units (lbs/day) Daily Maximum*	*Minimum*	*Concentrations (mg/L) Average Monthly*	*Concentrations (mg/L) Maximum*	*Instant. Maximum*
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.64
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	25.0	XXX	50.0
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60.0

Parameters	Mass Units (lbs/day) Average Monthly	Daily Maximum	Minimum	Concentrations (mg/L) Average Monthly	Maximum	Instant. Maximum
Fecal Coliform (No./100 ml)						
May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000
Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000
Ammonia-Nitrogen	XXX	XXX	XXX	20.0	XXX	40.0

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 717-705-4732.

The EPA Waiver is in effect

PA0070050, Industrial, SIC Code 3313, **Reading Alloys Inc.**, P.O. Box 53, Robesonia, PA 19551-0053. Facility Name: Reading Alloys. This existing facility is located in South Heidelberg Township, **Berks County**.

Description of Existing Activity: The application is for a renewal of an NPDES permit for an existing discharge of treated industrial waste.

The receiving stream(s), Spring Creek (CWF) and Spring Creek (CWF, MF), is located in State Water Plan watershed 3-C and is classified for Cold Water Fishes and Migratory Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 001 are based on a design flow of .242 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Maximum	Instant. Maximum
Total Dissolved Solids	XXX	XXX	XXX	Report Daily Max	XXX	XXX

The proposed effluent limits for Outfall 001 are based on a design flow of .242 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0
Temperature (deg F) (°F)	XXX	XXX	XXX	XXX	Report Daily Max	XXX
Temperature (deg F) (°F) Downstream Monitoring	XXX	XXX	Report Inst Min	Report	XXX	Report
Temperature (deg F) (°F) Upstream Monitoring	XXX	XXX	Report Inst Min	Report	XXX	Report

The proposed effluent limits for Outfall 003 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 004 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 005 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 006 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 007 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 008 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Daily Maximum	Instant. Maximum
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	XXX	Report	XXX
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX
Cadmium, Total	XXX	XXX	XXX	XXX	Report	XXX
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX

The proposed effluent limits for Outfall 101 are based on a design flow of 0 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Maximum	Instant. Maximum
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0

In addition, the permit contains the following major special conditions:

(Part C, Section H): The permittee shall monitor the temperature upstream of the intake and downstream of Outfall 001 on an ongoing and continuous basis for 24-months following the permit effective date. Temperature readings shall be recorded every 30-minutes during the 24-month monitoring period. Following each month that data is collected, all data shall be compiled in a spreadsheet and emailed to DEP's Aaron Baar at abaar@pa.gov and DEP's Victor Landis at vlandis@pa.gov at no later than the 14th of the month following the month of collection. At the conclusion of the 24-month monitoring period, the Department shall make a determination whether to re-open the permit and initiate temperature limits in Outfall 001, to require continued instream temperature monitoring, or to terminate the need to monitor instream temperature. Temperature monitoring upstream of the intake and downstream of Outfall 001 shall continue uninterrupted following the 24-month monitoring period until such time that the Department can determine an appropriate course of action.

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 717-705-4732.

The EPA Waiver is in effect.

PA0246689, Sewage, SIC Code 6514, **Devin A Morris**, 153 Hidden Valley Lane, Bedford, PA 15522-5365. Facility Name: Morris Res. This existing facility is located in Cumberland Valley Township, **Bedford County**.

Description of Existing Activity: The application is for a renewal of an NPDES permit for an existing discharge of treated SRSTP Sewage.

The receiving stream(s), Unnamed Tributary to Oster Run (HQ-CWF, MF), is located in State Water Plan watershed 13-A and is classified for High Quality—Cold Water and Migratory Fish, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 001 are based on a design flow of .0004 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Average Weekly	Minimum	Concentrations (mg/L) Average Monthly	Maximum	Instant. Maximum
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	XXX	XXX	XXX	10.0	XXX	20
Total Suspended Solids	XXX	XXX	XXX	10.0	XXX	20
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1,000

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 717-705-4732.

The EPA Waiver is in effect.

Northcentral Regional Office: Regional Clean Water Program Manager, 208 W Third Street, Suite 101, Williamsport, PA 17701-6448, Telephone: 570.327.3636.

Email: RA-EPNPDES_NCRO@pa.gov.

PA0233056, Sewage, SIC Code 4952, **James B. & Rebecca M. Knepley**, 2775 Bottle Run Road, Williamsport, PA 17701. Facility Name: James B. & Rebecca M. Knepley. This proposed facility is located in Woodward Township, **Lycoming County**.

Description of Proposed Activity: The application is for a new NPDES permit for a new discharge of treated SRSTP sewage.

The receiving stream(s), Unnamed Tributary to Quenshukeny Run (WWF, MF), is located in State Water Plan watershed 10-A and is classified for Migratory Fishes and Warm Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 001 are based on a design flow of 0.0004 MGD.

	Mass Units (lbs/day)			*Concentrations (mg/L)*		
Parameters	*Average Monthly*	*Average Weekly*	*Minimum*	*Annual Average*	*Maximum*	*Instant. Maximum*
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX
Biochemical Oxygen Demand (BOD_5)	XXX	XXX	XXX	10.0	XXX	20.0
Total Suspended Solids	XXX	XXX	XXX	10.0	XXX	20.0
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX
Total Residual Chlorine (TRC)	XXX	XXX	XXX	Report Avg Mo	XXX	Report

Sludge use and disposal description and location(s): Septage must be disposed at a permitted facility.

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 570-327-3693.

The EPA Waiver is in effect.

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745, Email: RA-EPNPDES_SWRO@pa.gov.

PA0027456, Sewage, SIC Code 4952, **Greater Greensburg Sewer Authority**, 210 W Otterman Street, Greensburg, PA 15601-2225. Facility Name: Greater Greensburg STP. This existing facility is located in Hempfield Township, **Westmoreland County**.

Description of Existing Activity: The application is for a renewal of an NPDES permit for an existing discharge of treated sewage.

The receiving stream Jacks Run (WWF) is in State Water Plan watershed 19-D and is classified for Warm Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 001 are based on a design flow of 9.2 MGD.—Limits.

	Mass Units (lbs/day)			*Concentrations (mg/L)*		
Parameters	*Average Monthly*	*Weekly Average*	*Daily Minimum*	*Average Monthly*	*Weekly Average*	*Instant. Maximum*
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0
Dissolved Oxygen	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)						
Nov 1 - Apr 30	1,918	2,916	XXX	25.0	38.0	50
May 1 - Oct 31	1,151	1,765	XXX	15.0	23.0	30
Biochemical Oxygen Demand (BOD_5)						
Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX
Total Suspended Solids	2,302	3,453	XXX	30.0	45.0	60
Total Suspended Solids						
Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX

Parameters	Mass Units (lbs/day) Average Monthly	Weekly Average	Daily Minimum	Concentrations (mg/L) Average Monthly	Weekly Average	Instant. Maximum
Fecal Coliform (No./100 ml)						
Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000
May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000
Ultraviolet light transmittance (%)	XXX	XXX	Report	Report	XXX	XXX
Ammonia-Nitrogen						
Nov 1 - Apr 30	322	483	XXX	4.2	6.3	8.4
May 1 - Oct 31	169	253	XXX	2.2	3.3	4.4

The proposed effluent limits for Outfall 001 are based on a design flow of 9.2 MGD.—Limits.

Parameters	Mass Units (lbs/day) Average Monthly	Weekly Average	Daily Minimum	Concentrations (mg/L) Average Monthly	Weekly Average	Instant. Maximum
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX
Aluminum, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX
Iron, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX
Manganese, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX

Sludge use and disposal description and location(s): Municipal Landfill.

In addition, the permit contains the following major special conditions:

Outfalls 002, 004—018, 021—030, and 032—042, which discharge to the receiving waters known as Jacks Run, Zellers Run and Coal Tar Run, serve as combined sewer overflows necessitated by storm water entering the sewer system and exceeding the hydraulic capacity of the sewers and/or the treatment plant. These outfalls are permitted to discharge only for such reason. There are at this time no specific effluent limitations on the outfalls. Each discharge shall be monitored for cause, frequency, duration, and quantity of flow. Outfalls 051 and 052, which discharge to the receiving waters known as Jacks Run, serve as stormwater discharges from areas in and around the treatment plant. There are at this time no effluent limitations on these outfalls. These stormwater discharges shall meet the requirements in the NPDES permit, Part C-Requirements Applicable to Stormwater Outfalls.

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 412-442-4000.

The EPA Waiver is not in effect.

III. WQM Industrial Waste and Sewerage Applications under The Clean Streams Law (35 P.S. §§ 691.1—691.1001).

Northeast Region: Clean Water Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790.

WQM Permit No. WQG02452001, Sewage, **Pocono Manor Investors**, PT1 LP, P.O. Box 38, Pocono Manor, PA 18349-0038.

This proposed facility is located in Pocono Township, **Monroe County**.

Description of Proposed Action/Activity: Replacement of existing 4-inch sewer main between Oak Lane and Summit Avenue with 8-inch PVC sewer main. Five new manholes will also be installed.

Southcentral Region: Clean Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110.

WQM Permit No. WQG02282001, Sewerage, **Guilford Township Authority**, 115 Spring Valley Rd., Chambersburg, PA 17202.

This proposed facility is located in, Guilford Township, **Franklin County**.

Description of Proposed Action/Activity: Applicant is making a sewer extension request to serve the town of Marion.

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

WQM Permit No. 0419403, Sewage, **Lauren Wengler**, 138 Forrest Drive, Fombell, PA 16123.

This proposed facility is located in Franklin Township, **Beaver County**.

Description of Proposed Action/Activity: Applicant proposed to construct a 500 GPD SRSTP to serve an existing four-bedroom residential dwelling. The discharge will flow to the Doe Run.

VI. NPDES Individual Permit Applications for Discharges of Stormwater Associated with Construction Activities.

Southeast Region: Waterways & Wetlands Program Manager, 2 East Main Street, Norristown, PA 19401. Telephone 484-250-5160.

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water / Use*
PAD150142	East Whiteland Township 209 Conestoga Road Frazer, PA 19355	Chester	East Whiteland Township	Valley Creek EV

LAND RECYCLING AND ENVIRONMENTAL REMEDIATION

UNDER ACT 2, 1995 PREAMBLE 1

Acknowledgment of Notices of Intent to Remediate Submitted Under the Land Recycling and Environmental Remediation Standards Act (35 P.S. §§ 6026.101—6026.908).

Sections 302, 303, 304 and 305 of the Land Recycling and Environmental Remediation Standards Act (Act) require the Department of Environmental Protection (Department) to publish in the *Pennsylvania Bulletin* an acknowledgment noting receipt of any Notices of Intent to Remediate. An acknowledgment of the receipt of a Notice of Intent (NOI) to Remediate is used to identify a site where a person proposes to, or has been required to, respond to a release of a regulated substance at a site. Persons intending to use the background standard, Statewide health standard, the site-specific standard, or who intend to remediate a site as a special industrial area, must file a (NOI) to Remediate with the Department. A NOI to Remediate filed with the Department provides a brief description of the location of the site, a list of known or suspected contaminants at the site, the proposed remediation measures for the site, and a description of the intended future use of the site. A person who demonstrates attainment of one, or a combination of the cleanup standards, or who receives approval of a special industrial area remediation identified under the Act, will be relieved of further liability for the remediation of the site for any contamination identified in reports submitted to and approved by the Department. Furthermore, the person shall not be subject to citizen suits or other contribution actions brought by responsible persons not participating in the remediation.

Under Sections 304(n)(1)(ii) and 305(c)(2) of the Act, there is a 30-day public and municipal comment period for sites proposed for remediation using a site-specific standard, in whole or in part, and for sites remediated as a special industrial area. This period begins when a summary of the NOI to Remediate is published in a newspaper of general circulation in the area of the site. For the site(s) identified below, proposed for remediation to a site-specific standard or as a special industrial area, the municipality, within which the site is located, may request to be involved in the development of the remediation and reuse plans for the site if the request is made within 30-days of the date specified below. During this comment period the municipality may request that the person identified below, as the remediator of the site, develop and implement a public involvement plan. Requests to be involved, and comments, should be directed to the remediator of the site.

For further information concerning the content of a NOI to Remediate, please contact the Environmental Cleanup Program Manager in the Department of Environmental Protection Regional Office under which the notice appears. If information concerning this acknowledgment is required in an alternative form, contact the Community Relations Coordinator at the appropriate Regional Office listed. TDD users may telephone the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

The Department of Environmental Protection has received the following Notice(s) of Intent to Remediate:

Southeast Region: Environmental Cleanup Program Manager, 2 East Main Street, Norristown, PA 19401.

Janeway Towing, 1516 Butler Pike, Plymouth Township, **Montgomery County**. Richard D. Trimpi, Trimpi Associates, Inc., 1635 Old Plains Road, Pennsburg, PA 18073 on behalf of Jane Dougherty, Janeway Towing, 1516 Butler Pike, Conshohocken, PA 19428 submitted a Notice of Intent to Remediate. Notice is hereby given that a gasoline release impacted soil. The current use and proposed future use of the property is commercial. The proposed cleanup standard for the site is Statewide Health. The Notice of Intent to Remediate was published in *The Ambler Gazette* on December 29, 2019.

Southcentral Region: Environmental Cleanup and Brownfields Program Manager, Benjamin Stone-Thonus, 717-705-4705, 909 Elmerton Avenue, Harrisburg, PA 17110.

Stumpf Field, 1350 Fruitville Pike, Lancaster, PA 17601, Manheim Township, **Lancaster County**. Liberty Environmental, Inc., LLC, 505 Penn Street, Reading, PA 19601, on behalf of MAC Land Company, LLC, 1350 Fruitville Pike, Lancaster, PA 17601, submitted a Notice of Intent to Remediate site soil contaminated with historical contaminants from ASTs. The site will be remediated to the Site-Specific Standard. Future use of the site has not been determined. The Notice of Intent to Remediate was published in the *LNP* on January 22, 2020.

DETERMINATION OF APPLICABILITY FOR RESIDUAL WASTE GENERAL PERMITS

Determination of Applicability for General Permit(s) Issued under the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003); the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§ 4000.101—4000.1904); and Residual Waste Regulations for a General Permit to Operate Residual Waste Processing Facilities and/or the Beneficial Use of Residual Waste other than Coal Ash.

Southwest Region: Regional Solid Waste Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745, Telephone 412-442-4000.

General Permit No. WMGR028SW008A. Eurovia Atlantic Coast LLC dba Northeast Paving, 290 Bilmar Drive, 3rd Floor, Pittsburgh, PA 15205. Permit reissuance to change ownership of residual waste general permit WMGR028SW001A for the beneficial use of baghouse fines and/or scrubber pond precipitates at Northeast Paving Bridgeville Plant, 2 Prestley Road, Bridgeville, PA 15017-1964 in Collier Township, **Allegheny County**, was approved by the Southwest Regional Office on January 29, 2020.

Persons interested in reviewing the general permit or the application may contact the Department of Environmental Protection, Regional Files, 400 Waterfront Drive, Pittsburgh, PA 15222-4745, 412-442-4000. TDD users may contact the Department through the Pennsylvania AT&T Relay Service, (800) 654-5984.

AIR QUALITY

PLAN APPROVAL AND OPERATING PERMIT APPLICATIONS

The Department has developed an "integrated" plan approval, State Operating Permit and Title V Operating Permit program. This integrated approach is designed to make the permitting process more efficient for the Department, the regulated community and the general public. This approach allows the owner or operator of a facility to submit permitting documents relevant to its application for all sources related to a facility or a proposed project, affords an opportunity for public input, and provides for a decision on the issuance of the necessary permits.

The Department received applications for Plan Approvals or Operating Permits from the following facilities. Copies of the application, the Department's analysis, all pertinent documents used in the evaluation of the application and subsequently prepared proposed plan approvals/operating permits are available for public review during normal business hours at the appropriate Department Regional Office. Appointments for scheduling a review must be made by calling the appropriate Department Regional Office. The address and phone number of the Regional Office is listed before the application notices.

Persons wishing to file a written protest or provide comments or additional information, which they believe should be considered prior to the issuance of a permit, may submit the information to the Department's Regional Office. A 30-day comment period from the date of this publication will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the proposed Plan Approval/Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to issuance of the permit.

A person wishing to request a hearing may do so during the 30-day comment period. A public hearing may be held, if the Department, in its discretion, decides that a hearing is warranted based on the information received. Persons submitting comments or requesting a hearing will be notified of the decision to hold a hearing by publication in the newspaper, the *Pennsylvania Bulletin* or by telephone, when the Department determines this type of notification is sufficient. Requests for a public hearing and any relevant information should be directed to the appropriate Department Regional Office.

Permits issued to the owners or operators of sources subject to 25 Pa. Code Chapter 127, Subchapter D or E, or located within a Title V facility or subject to 25 Pa. Code § 129.51(a) or permits issued for sources with limitations on their potential to emit used to avoid otherwise applicable Federal requirements may be submitted to the United States Environmental Protection Agency for review and approval as a revision to the State Implementation Plan. Final Plan Approvals and Operating Permits will contain terms and conditions to ensure that the sources are constructed and operating in compliance with applicable requirements in the Air Pollution Control Act (35 P.S. §§ 4001—4015), 25 Pa. Code Chapters 121—145, the Federal Clean Air Act (42 U.S.C.A. §§ 7401—7671q) and regulations adopted under the Federal Clean Air Act.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodation to participate should contact the regional office listed before the application. TDD users may contact the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

PLAN APPROVALS

Plan Approval Applications Received under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127, Subchapter B that may have special public interest. These applications are in review and no decision on disposition has been reached.

Northwest Region: Air Quality Program, 230 Chestnut Street, Meadville, PA 16335-3481.

Contact: Dave Balog, New Source Review Chief, (814) 332-6328.

25-920E: Waste Management of PA—Lake View Landfill (851 Robison Road East, Erie, PA 16509), for the proposed construction of a 1,175 scfm open flare. The facility is located in Summit Township, **Erie County**. This is a Title V facility.

42-174H: Casella Waste Management of PA—McKean County Landfill (19 Ness Lane, Kane, PA 16735), for the proposed modification of 40 CFR 60 Subpart WWW and 40 CFR 63 Subpart AAAA requirements and the inclusion of fugitive dust control requirements. The facility is located in Sergeant Township, **McKean County**. This is a Title V facility.

42-249A: Highland Field Services LLC—Seven Mile Minerals (135 Allegany Drive, Kane, PA 16735), for the proposed construction of an evaporator to process 7,500 bpd of feedwater and condense evaporated vapor for reuse in gas well development. The facility is located in Sergeant Township, **McKean County**. This is a State Only facility.

Intent to Issue Plan Approvals and Intent to Issue or Amend Operating Permits under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127, Subchapter B. These actions may include the administrative amendments of an associated operating permit.

Southeast Region: Air Quality Program, 2 East Main Street, Norristown, PA 19401.

Contact: James Beach, New Source Review Chief, (484) 250-5920.

46-0041H: Graphic Packaging International, Inc. (1035 Longford Road, Phoenixville, PA 19460) for the installation of one (1) non-heatset sheetfed offset lithographic printing press (Source ID 219) at the manufacturing plant located in Upper Providence Township, **Montgomery County**. Graphic Packaging International, Inc. is a major source of Volatile Organic Compound (VOC) emissions and an area source for Hazardous Air Pollutants (HAP). The existing facility is currently operating under Title V Operating Permit No. 46-00041. The installation will not trigger New Source Review or Prevention of Severe Deterioration for any criteria pollutant, including Greenhouse Gases. The sources are not subject to Compliance Assurance Monitoring pursuant to 40 CFR Part 64. The requirements of 25 Pa. Code § 129.67b apply to the new lithographic press. The plan approval will include monitoring, testing, recordkeeping and reporting requirements designed to keep the facility operating within all applicable air quality requirements.

15-0158: Whitford Corp. (47 Park Avenue, Elverson, PA 19520) for the continued operation of an existing manufacturing plant in Everson Borough, **Chester County**. The facility makes coatings, adhesives, sealants, and epoxy sticks. Raw materials are mixed, blended, milled, and packaged for industrial and consumer products using water-borne and low-volatility solvent compounds. The facility has a total of three (3) dust collection systems that capture the particulate matter emissions before being exhausted to the outdoor atmosphere. The total emissions from this facility will not exceed any of the following (in tons per year): PM—22.01, $PM_{10}/PM_{2.5}$—22.39, NO_x—11.59, SO_2—0.16, VOC—24.91, and CO—6.85. The facility is not subject to the NSR or PSD regulations. The plan approval will include monitoring, recordkeeping and reporting requirements designed to keep the facility operating within all applicable air quality requirements.

Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Contact: Raymond Kempa, New Source Review Chief, (570) 826-2507.

48-00021B, to **Northampton Generating Co., LP (NGC)**, 1 Horwith Dr, Northampton, PA 18067 for their facility located in Northampton Borough, **Northampton County**. This plan approval will be incorporated into the Title V operating permit # 48-00021 through an administrative amendment at a later date, and the action will be published as a notice in the *Pennsylvania Bulletin*.

Plan approval # 48-00021B is for the approval of Plantwide Applicability Limits (PALs) in accordance with the requirements of 25 Pa. Code § 127.218 and 40 CFR 51.21 for the criteria pollutants from the facility. NGC submitted the application to establish plant wide applicability limits (PALs) for those regulated NSR pollutants that would otherwise cause a significant increase in emissions due to the project. The pollutants included PM—filterable particulate, PM_{10}—filterable and condensable particulate, $PM_{2.5}$—filterable and condensable particulate, SO_2, NO_x, CO, Pb, HF, H_2SO_4 and greenhouse gases (GHGs). There are no physical modifications or changes in the method of operation that are specifically associated with or proposed in this PAL application. The company has applied to the Department to obtain PAL limits for the criteria pollutants for the following sources operating at the facility:

Source ID	*Source*
001	CFB Boiler
002	Propane Vaporizer
101	Emergency Fire Pump
102	Fuel Unloading Station
103	Fuel Crushing Area
104	Fuel Storage Building
105	Fuel Silo and Transfer Conveyor
105A	Fuel Silo
107	Fly Ash Separators
108	Ash Storage Silo
109	Ash Loadout
110	Limestone Storage Silo
Misc l	Misc Fugitive Emissions
Misc 2	Misc Sources
N/A	Cooling Towers
N/A	Plant Feed Conveyor Vents

Pursuant to the requirements of 25 Pa. Code § 127.218 and 40 CFR 52.21(aa) the following Plantwide Applicability Limits (PAL) are established for emissions of pollutants from sources at the facility.

Pollutants	*Proposed PSD PAL, TPY*
PM	45.20
PM_{10} Filt+Conde	51.73
$PM_{2.5}$ Filt+Conde	41.01
SO_2	570.17
NO_x	455.78
CO	630.46
HF	6.27
H_2SO_4	10.21
PB	0.0118
CO_2e	1,220,320.53

The facility is not subject to the Prevention of Significant Deterioration (PSD) requirements of 25 Pa. Code Chapter 127, Subchapter D & new source review (NSR) requirements of 25 Pa. Code Chapter 127, Subchapter E so long as the permittee complies with the above emission limitations from the facility and conditions for the PAL specified in this Plan Approval. Any increase in the emissions above this PAL will subject the facility to the PSD/NSR requirements. The facility must comply with requirements listed in 25 Pa. Code § 127.218 and 40 CFR 52.21(aa).

In order to assure compliance with the applicable standards, DEP will place conditions in the plan approval.

The Plan Approval and Operating Permit will contain additional recordkeeping and operating restrictions designed to keep the facility operating within all applicable air quality requirements

Copies of the application, DEP's analysis and other documents used in the evaluation of the application are

available for public review during normal business hours at Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701.

Any person(s) wishing to provide DEP with additional information which they believe should be considered prior to the issuance of this permit may submit the information to the address shown in the preceding paragraph. Each written comment must contain the following: name, address and telephone number of the person submitting the comments; identification of the proposed permit No.: 48-00021B; and a concise statement regarding the relevancy of the information or objections to the issuance of the permit.

A public hearing may be held, if the Department of Environmental Protection, in its discretion, decides that such a hearing is warranted based on the comments received. All persons submitting comments or requesting a hearing will be notified of the decision to hold a hearing by publication in the newspaper or the *Pennsylvania Bulletin* or by telephone, where DEP determines such notification is sufficient. Written comments or requests for a public hearing should be directed to Raymond Kempa, P.E., Environmental Group Manager, Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701, Phone # 570-826-2511 within 30 days after publication date.

54-00091B: Blue Mountain Enterprises LLC (1246 Deturksville Road, Pine Grove, PA 17963) for their Blue Mountain Enterprises LLC facility located in Wayne Twp., **Schuylkill County**.

In accordance with 25 Pa. Code §§ 127.44(a) and 127.45(a), that the Department of Environmental Protection (DEP) has received and intends to issue a Plan Approval to Blue Mountain Enterprises LLC (1246 Deturksville Road, Pine Grove, PA 17963) for their Blue Mountain Enterprises LLC facility located in Wayne Twp., Schuylkill County. This Plan Approval No. 54-00091B will be incorporated into a Synthetic Minor Permit through an administrative amendment at a later date.

Plan Approval No. 54-00091B is for a log shaving operation. The company shall be subject to and comply with 25 Pa. Code § 123.31 for malodorous emissions and 25 Pa. Code §§ 127.1 and 127.12 for particulate matter. These limits will meet BAT requirements for this source. The Plan Approval and Operating permit will contain additional recordkeeping and operating restrictions designed to keep the facility operating within all applicable air quality requirements.

Copies of the application, DEP's analysis and other documents used in the evaluation of the application are available for public review during normal business hours at Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Any person(s) wishing to provide DEP with additional information, which they believe should be considered prior to the issuance of this permit, may submit the information to the address shown in the preceding paragraph. Each written comment must contain the name, address and telephone number of the person submitting the comments, identification of the proposed permit No.: 54-00091B and a concise statement regarding the relevancy of the information or objections to the issuance of the permit.

A public hearing may be held, if the Department of Environmental Protection, in its discretion, decides that such a hearing is warranted based on the comments received. All persons submitting comments or requesting a hearing will be notified of the decision to hold a hearing by publication in the newspaper or the *Pennsylvania Bulletin* or by telephone, where DEP determines such notification is sufficient. Written comments or requests for a public hearing should be directed to Ray Kempa, Chief, Environmental Group Manager, Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915, Phone # 570-826-2511 within 30 days after publication date.

Northcentral Region: Air Quality Program, 208 West Third Street, Williamsport, PA 17701.

Contact: Muhammad Q. Zaman, Program Manager, (570) 327-3648.

17-00074A: Adamson Funeral Chapel, Inc. (1312 Chestnut Avenue, DuBois, PA 15801) has applied to the Pennsylvania Department of Environmental Protection (PA DEP) for a plan approval to construct two (2) cremation units at their facility in Sandy Township, **Clearfield County**. The potential to emit for the proposed sources on a combined total basis for the project were determined to be equal to approximately: 0.8 ton per year (tpy) for NO_x (expressed as NO_2), 0.7 tpy for CO, 0.5 tpy for SO_2, 1.1 tpy for total PM, 0.1 tpy for total organic compounds, and 0.2 tpy for combined HAP. Specifically, the proposed construction and crematory operation is to involve a Matthews Environmental Solutions model no. IE43-PP1 (model Power-Pak I) for human remains and a Matthews Environmental Solutions model no. IE43-IEB 16 (model IEB Series 16) for animal pet remains, which are each equipped with primary and secondary combustion chambers and burners, an opacity monitor and controller with visual and audible alarms, a microprocessor temperature control system, and continuous operating temperature monitors (thermocouples) with continuous data acquisition (a two pen chart recorder). The sources are subject to the Best Available Technology (BAT) requirements of 25 Pa. Code §§ 127.1 and 127.12. Based on the information submitted by the company, the sources involved with the proposed construction will comply with all applicable air quality regulatory requirements, including but not limited to the BAT requirements. The plan approval includes conditions, including emission and throughput restrictions, testing, monitoring, recordkeeping, reporting and work practice requirements, to verify compliance with all applicable air quality regulatory requirements. The emission restriction for SO_x is taken from 25 Pa. Code § 123.21, and the BAT standards for PM and visible emissions are pursuant to 25 Pa. Code §§ 127.1 and 127.12. Based on the findings presented above, the Department proposes to issue a plan approval for the proposed construction of the above air contaminant source, in accordance with 25 Pa. Code § 127.12. All pertinent documents used in the evaluation of the application are available for public review during normal business hours at the Department's Northcentral Regional Office, 208 West Third Street, Suite 101, Williamsport, PA 17701. Appointments for scheduling a review must be made by calling 570-327-0550.

Southeast Regional Office: 2 East Main Street, Norristown, PA 19401.

Philadelphia: Air Management Services, 321 University Avenue, Philadelphia, PA 19104-4543.

Contact: Edward Wiener, Chief of Source Registration at 215-685-9426.

AMS Plan Approval No. IP19-000719: HG ASB Property LLC (1213 Walnut St., Philadelphia, PA 19107) for the installation of three (3) 1.3 MMBtu/hr natural

gas-fired hot water heaters, one (1) 2 MMBtu/hr natural gas-fired hot water heater, one (1) 1.6 MMBtu/hr natural gas-fired combustion furnace, one (1) 500 kW diesel-fired emergency generator, and two (2) 305 hp diesel-fired emergency generators at their facility in the City of Philadelphia, **Philadelphia County**. The installed units have a potential to emit 4.8 tons per year of nitrogen oxides (NO_x) and 4.7 tons per year of carbon monoxide (CO). The plan approval will contain operating, monitoring, and recordkeeping requirements to ensure operation within all applicable requirements.

Copies of all documents and information concerning this permit are available for review in the offices of Air Management Services, 321 University Ave., Philadelphia, PA 19104-4543 during normal business hours. Persons wishing to review these documents should contact Debra Williams (215-685-7572) at the above address.

Persons wishing to file protest, comments or to request a public hearing on the above permit must submit the protest, comments, or request for a public hearing within 30 days from the date of this notice. Any protests or comments filed with AMS must include a concise statement of the objections to the permit issuance and the relevant facts upon which the objections are based. Based upon the information received during the public comment period, AMS may modify the operating permit or schedule a public hearing. The hearing notice will be published in the *Pennsylvania Bulletin* and a local newspaper at least thirty days before the hearing.

IP19-000722: Syrena Auto Body (6201 Oxford Avenue, Philadelphia, PA 19111) for the installation of air emission sources at an auto body shop, in the City of Philadelphia, **Philadelphia County**. The air emission sources that are part of the Plan Approval are three (3) spray booths used for painting new and repaired auto parts, and each with a natural gas-fired burner rated 940,000 BTU/hr. The potential emission from the installation is 3.93 tons per year (tpy) of Volatile Organic Compound (VOC). The plan approval will contain operating, monitoring, and recordkeeping requirements to ensure operation within all applicable requirements.

The plan approval will be issued under 25 Pa. Code, Philadelphia Code Title 3 and Air Management Regulation XIII. Permit copies and other supporting information are available for public inspection at AMS, 321 University Avenue, Philadelphia, PA 19104. For further information, contact Edward Wiener at (215) 685-9426.

Persons wishing to file protest, comments, or request a public hearing on the above plan approval must submit the protest, comments or request for a public hearing within 30 days from the date of this notice. Any protests or comments filed with AMS must include a concise statement of the objections to the permit issuance and the relevant facts upon which the objections are based. Based upon the information received during the public comment period, AMS may modify the plan approval or schedule a public hearing. The hearing notice will be published in the *Pennsylvania Bulletin* and a local newspaper at least thirty days before the hearing.

Northwest Region: Air Quality Program, 230 Chestnut Street, Meadville, PA 16335-3481.

Contact: David Balog, New Source Review Chief, (814) 332-6940.

62-017Z: United Refining Company (15 Bradley St., Warren, PA 16365) for installation of a 180 MMBtu/hr capacity natural gas & refinery gas-fired boiler at their facility in the City of Warren, **Warren County**.

Notice is hereby given pursuant to 25 Pa. Code §§ 127.44(b) and 127.424(b), that the Pennsylvania Department of Environmental Protection (DEP) intends to issue Plan Approval 62-017Z to United Refining Company for the installation of a 180 MMBtu/hr capacity natural gas & refinery gas-fired boiler at the company's facility located at 15 Bradley St., City of Warren, Warren County. The facility currently has a Title V Operating Permit No. 62-00017. The Plan Approval will subsequently be incorporated into the Title V Operating Permit through an administrative amendment in accordance with 25 Pa. Code § 127.450.

Plan Approval No. 62-017Z is for the 180 MMBtu/hr capacity natural gas & refinery gas-fired boiler ("Boiler # 7," Source ID # 039), which will be used to provide additional steam producing capacity to the existing refinery operations. Based on the information provided by the applicant and DEP's own analysis, the subject source will result in potential emissions not to exceed 42.6 tons of carbon monoxide, 34.0 tons of nitrogen oxides (NO_x), 8.7 tons of particulate matter, all of which will be particulate matter less than 2.5 microns ($PM_{-2.5}$), 7.6 tons of sulfur oxides (SO_x), 2.5 tons of volatile organic compounds (VOC), 0.2 ton of sulfuric acid, and 0.0022 ton of lead per year, calculated as a 12-month rolling total. Additionally, United is proposing reduced NO_x tons per year permit limits for the existing North Crude Heater (Source ID 050) and FCC Unit (Source ID 101A), and additional leak detection and repair (LDAR requirements and corresponding VOC emission limit reductions for the existing Crude Unit (Source ID 1004) and Isomerization Unit (Source ID 1002).

The proposed source will be subject to the applicable requirements of 40 CFR 60 Subpart(s) Db [Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units], and Ja [Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007], and 40 CFR 63 Subpart DDDDD [National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, "Boiler MACT"].

Proposed BAT for this installation will be the use of low-NO_x burners with flue gas recirculation (FGR) for the control of NO_x, use of low-sulfur fuels, including compliance with the TVOP H_2S limits for refinery fuel gas for control of SO_x, and good engineering and combustion practices. The Plan Approval will contain additional testing, monitoring, recordkeeping, and work practice requirements designed to keep the facility operating within all applicable air quality requirements. Copies of the application, DEP's analysis, and other documents used in the evaluation are available for public inspection between the hours of 8 a.m. and 4 p.m. weekdays at the address shown below. To make an appointment, contact Records Management at 814-332-6340, for an appointment.

Anyone wishing to provide DEP with additional information they believe should be considered may submit the information to the address shown below. Comments must be received by the Department within 30 days of the last day of publication. Written comments should include the following: name, address, and telephone number of the person submitting comments; identification of the proposed Plan Approval; No. 62-017Z; and a concise statement regarding the relevancy of the information or any objections to issuance of the Plan Approval.

A public hearing may be held, if the Department of Environmental Protection, in its discretion, decides that such a hearing is warranted on the comments received during the public comment period. All persons submitting comments or requesting a hearing will be notified of the decision to hold a hearing by publication in a local newspaper of general circulation or the *Pennsylvania Bulletin* or by telephone, where the Department determines such notification is sufficient. Written comments or requests for a public hearing should be directed to Eric Gustafson, Regional Air Quality Manager, Department of Environmental Protection, Northwest Regional Office, 230 Chestnut St., Meadville, PA 16335, 814-332-6121.

Intent to Issue Operating Permits under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127, Subchapter F.

Southeast Region: Air Quality Program, Mailing address: 2 East Main Street, Norristown, PA 19401. E-mail Address: RA-EPSEROAQPUBCOM@pa.gov.

Contact: Janine Tulloch-Reid, Facilities Permitting Chief—Telephone: 484.250.5920.

09-00108: Bucks County Water & Sewer Authority—Totem Road Pump Station II (910 Haunted Lane, Bensalem, PA 19020) for a non-Title V, State Only, Synthetic Minor operating permit in Bensalem Township, **Bucks County**. The permit is for the operation of a packed bed tower wet air scrubber to control odors from the sanitary sewage pump station. The facility has the potential to emit 0.0094 ton of hydrogen sulfide per year and utilizes the odor scrubber as a control device. The facility's primary criteria pollutant sources are the two-diesel fuel-fired backup emergency generators. Based on the potential emissions of VOC and NO_x, which are less than major source threshold, the facility is a Synthetic Minor after limitations. This action is the third renewal of the State Only Operating Permit. The permit was initially issued on 8-19-2005 and was renewed on 9-15-2010 and on 9-24-2015. The permit will include monitoring, recordkeeping and reporting requirements designed to keep the facility operating within all applicable air quality requirements.

09-00126: Air Liquide Electronics U.S. LP (19 Steel Road West, Morrisville, PA 19067) is a non-Title V, Natural Minor facility located in Falls Township, **Bucks County**. This action is a renewal of a State Only Operating Permit (Natural Minor). The facility is involved in the gas cylinder cleaning processes, the purification of industrial gases, and the distribution of compressed specialty gases and liquefied chemicals. The facility operates seven process hood lines for processing hydride gases, pyrophoric gases, hydrocarbon gases, chloride gases, and fluoride gases, and each process line is set with a specific control device combination. The facility has an annual limit on particulate matter of 55 pounds on a 12-month rolling period and has an annual limit on volatile organic compounds of 279 pounds on a 12-month rolling period. The permit includes monitoring, recordkeeping and reporting requirements designed to keep the facility operating within all applicable air quality requirements.

Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Contact: Norman Frederick, Facility Permitting Chief, (570) 826-2409.

54-00072: JELD-WEN Inc./Pottsville (1162 Keystone Blvd., Pottsville, PA 17901-9055). The Department intends to issue a renewal State-Only (Natural Minor) Permit for the manufacturing of wood products located in Cass Township, **Schuylkill County**. The primary sources consist of layup lines, routers, and paint booths. The control devices are baghouses and panel filters. The sources are considered minor emission sources of nitrogen oxide (NO_x), sulfur oxides (SO_x), carbon monoxide (CO), total suspended particulate (TSP), and volatile organic compounds (VOC) emissions. The proposed operating permit contains applicable requirements for emission limitations, work practice standards, testing, monitoring, recordkeeping, and reporting standards used to verify facility compliance with Federal and State air pollution regulations.

Southcentral Region: Air Quality Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Thomas Hanlon, Facilities Permitting Chief, (717) 705-4862, Thomas Bianca, New Source Review Chief, (717) 705-4863, or William Weaver, Regional Air Quality Manager, (717) 705-4702

07-03062: Sunoco Pipeline LP—Hollidaysburg (Convention Center Drive, Altoona, PA 16602) to issue a State Only Operating Permit for the natural gas liquid (ethane, propane, butane or a mixture of these) pumping station located in Allegheny Township, **Blair County**. The potential emissions from the facility are estimated at NO_x 0.06 tpy, CO 0.26 tpy and VOCs 0.87 tpy. The Operating Permit will include emission limits and work practice standards along with monitoring, recordkeeping and reporting requirements to ensure the facility complies with the applicable air quality regulations.

21-05035: Hempt Bros., Inc.—Locust Point Quarry (205 Creek Road, Camp Hill, PA 17011) to issue a State Only Operating Permit for the operation of the stone crushing, batch cement, and batch asphalt plants in Silver Spring Township, **Cumberland County**. The potential emissions from the facility are estimated at 6.7 tpy of NO_x, 99.2 tpy of CO, 46.1 tpy of PM_{-10}, 7.7 tpy of VOC, 1.1 tpy SO_x and 1.9 tpy HAPs. The Operating Permit will include emission limits and work practice standards along with monitoring, recordkeeping and reporting requirements to ensure the facility complies with the applicable air quality regulations. Among other items, the conditions include product throughput limits and provisions derived from 40 CFR 60 Subparts I and OOO as well as 25 Pa. Code § 129.63.

21-03108: Sunoco Pipeline LP—Plainfield (74 Pinedale Road, Carlisle, PA 17015) to issue a State Only Operating Permit for the natural gas liquid (ethane, propane, butane or a mixture of these) pumping station located in Lower Frankford Township, **Cumberland County**. The potential emissions from the facility are estimated at NO_x 0.06 tpy, CO 0.24 tpy and VOCs 0.76 tpy. The Operating Permit will include emission limits and work practice standards along with monitoring, recordkeeping and reporting requirements to ensure the facility complies with the applicable air quality regulations.

67-03080: Aberdeen Road Co. (P.O. Box 435, Emigsville, PA 17318) to issue a State Only Operating Permit for the specialty coated fabrics manufacturing facility located in Manchester Township, **York County**. The potential emissions from the facility are estimated at 2.87 tpy of NO_x, 2.41 tpy of CO, 0.22 tpy of PM_{-10}, 0.02 tpy of SO_x, less than 35 tpy of VOC, and less than 5.05 tpy of HAPs. The Operating Permit will include emission limits and work practice standards along with monitoring, recordkeeping and reporting requirements to ensure

the facility complies with the applicable air quality regulations. Among other items, the conditions include provisions coating content limitations as well as recordkeeping and reporting requirements derived from 25 Pa. Code § 129.52 as well as requirements of 25 Pa. Code § 129.63.

Northcentral Region: Air Quality Program, 208 West Third Street, Williamsport, PA 17701.

Contact: Muhammad Q. Zaman, Program Manager, 570-327-3648.

08-00054: Wolf Run Energy, LLC (106 Isabella St., Ste. 600, Pittsburgh, PA 15212) to issue a State Only Operating Permit for the Wolf Run Energy electric power generating facility located in Wilmot Township, **Bradford County**. The facility is currently operating under Plan Approval 08-00054B. The facility's main sources include five 6,023 bhp Jenbacher model J624 GS, lean burn, natural gas-fired, engine/generator sets, each equipped with an SCR/catox system, and miscellaneous storage tanks, combustion sources and fugitive emissions. The facility has potential emissions of 33.38 TPY of CO; 17.12 TPY of NO_x; 0.42 TPY of SO_x; 7.02 TPY of PM/PM_{10}; 11.01 TPY of VOCs; 3.59 TPY HAPs; 103,298 TPY GHGs. The five Jenbacher engines are subject to 40 CFR Part 63, Subpart ZZZZ—National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and 40 CFR Part 60, Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The emission limits and work practice standards along with testing, monitoring, record keeping and reporting requirements have been included in the operating permit to ensure the facility complies with all applicable Federal and State air quality regulations. These operating permit conditions have been derived from the applicable requirements of 25 Pa. Code Chapters 121—145, as well as 40 CFR Parts 60 and 63. All pertinent documents used in the evaluation of the application are available for public review during normal business hours at the Department's Northcentral Regional Office, 208 West Third Street, Suite 101, Williamsport, PA 17701. Appointments for scheduling a review must be made by calling 570-327-0550.

COAL & NONCOAL MINING ACTIVITY APPLICATIONS

Applications under the Surface Mining Conservation and Reclamation Act (52 P.S. §§ 1396.1—1396.31); the Noncoal Surface Mining Conservation and Reclamation Act (52 P.S. §§ 3301—3326); the Clean Streams Law (35 P.S. §§ 691.1—691.1001); the Coal Refuse Disposal Control Act (52 P.S. §§ 30.51—30.66); the Bituminous Mine Subsidence and Land Conservation Act (52 P.S. §§ 1406.1—1406.21). Mining activity permits issued in response to such applications will also address the applicable permitting requirements of the following statutes: the Air Pollution Control Act (35 P.S. §§ 4001—4015); the Dam Safety and Encroachments Act (32 P.S. §§ 693.1—693.27); and the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003).

The following permit applications to conduct mining activities have been received by the Department of Environmental Protection. A copy of the application is available for inspection at the District Mining Office indicated above each application. Notices of requests for 401 Water Quality Certifications are included in individual application notices, as noted.

Written comments or objections, or requests for an informal conference, or a public hearing, as applicable, on a mining permit application may be submitted by any person or any officer or head of any Federal, State or local government agency or authority to the Department at the address of the District Mining Office indicated above each application within 30-days of this publication, or within 30-days after the last publication of the applicant's newspaper advertisement, as provided by 25 Pa. Code §§ 77.121—77.123 and 86.31—86.34 (relating to public notices of filing of permit applications, opportunity for comment, and informal conferences).

Written comments or objections related to a mining permit application should contain the name, address and telephone number of persons submitting comments or objections; application number; and a statement of sufficient detail to inform the Department on the basis of comment or objection and relevant facts upon which it is based.

Requests for an informal conference, or a public hearing, as applicable, on a mining permit application, as provided by 25 Pa. Code § 77.123 (relating to public hearing-informal conferences) or § 86.34 (relating to informal conferences), must contain the name, address and telephone number of the requestor; the application number; a brief summary of the issues to be raised by the requestor at the conference; and a statement whether the requestor desires to have the conference conducted in the locality of the proposed mining activities.

Where a National Pollutant Discharge Elimination System (NPDES) number is listed, the mining activity permit application was accompanied by an application for an individual NPDES permit. A separate notice will be provided after the draft NPDES permit is prepared.

Coal Applications Received

Effluent Limits—The following range of effluent limits will apply to NPDES permits issued in conjunction with the associated coal mining activity permit and, in some cases, noncoal mining permits:

Table 1

Parameter	*30-Day Average*	*Daily Maximum*	*Instantaneous Maximum*
Iron (total)	1.5 to 3.0 mg/l	3.0 to 6.0 mg/l	3.5 to 7.0 mg/l
Manganese (total)	1.0 to 2.0 mg/l	2.0 to 4.0 mg/l	2.5 to 5.0 mg/l
Suspended solids	10 to 35 mg/l	20 to 70 mg/l	25 to 90 mg/l
Aluminum (Total)	0.75 to 2.0 mg/l	1.5 to 4.0 mg/l	2.0 to 5.0 mg/l
pH[1]		greater than 6.0; less than 9.0	
Alkalinity greater than acidity[1]			

[1] The parameter is applicable at all times.

A settleable solids instantaneous maximum limit of 0.5 ml/l applied to: surface runoff (resulting from a precipitation event of less than or equal to a 10-year 24-hour event) from active mining areas; active areas disturbed by coal refuse

disposal activities; and mined areas backfilled and revegetated; and drainage (resulting from a precipitation event of less than or equal to a 1-year 24-hour event) from coal refuse disposal piles.

California District Office: 25 Technology Drive, Coal Center, PA 15423, 724-769-1100, (Contact: Bonnie Herbert).

32141301 and NPDES Permit No. PA0235890. Consol Mining Company LLC, 1000 Consol Energy Drive, Suite 100, Canonsburg, PA 15317, to renew the permit and related NPDES permit for the O'Donnell No. 4/Manor No. 8 Treatment System in Washington Township, **Indiana County**. No additional discharges. The application was considered administratively complete on January 30, 2020. Application received: December 31, 2019.

30841317 and NPDES Permit No. PA0213527. Consol Pennsylvania Coal Company LLC, 1000 Consol Energy Drive, Suite 100, Canonsburg, PA 15317, to revise the permit and related NPDES Permit for installation of three (3) degas boreholes for the Enlow Fork Mine in Morris Township, **Washington County** and Richhill Township, **Greene County**, affecting 13.5 surface acres proposed. No additional discharges. The application was considered administratively complete on January 29, 2020. Application received: December 12, 2019.

Knox District Mining Office: P.O. Box 669, 310 Best Avenue, Knox, PA 16232-0669, 814-797-1191, (Cayleigh Boniger).

33723006 and NPDES No. PA0603406. Consol Mining Company, LLC (CNX Center, 1000 Consol Energy Drive, Canonsburg, PA 15317). Renewal of an existing bituminous surface mine and associated NPDES permit in Winslow Township, **Jefferson County** affecting 450.2 acres. Receiving streams: Unnamed tributary to Soldier Run, classified for the following uses: CWF. There are no potable surface water supply intakes within 10 miles downstream. This renewal is issued for reclamation only. Application received: December 31, 2019.

Coal Applications Withdrawn

California District Office: 25 Technology Drive, Coal Center, PA 15423, 724-769-1100, (Contact: Bonnie Herbert).

30841316 and NPDES Permit No. PA0213535. Consol Pennsylvania Coal Company LLC, 1000 Consol Energy Drive, Suite 100, Canonsburg, PA 15317, to revise the permit and related NPDES Permit for development mining for Bailey Mine & Prep Plant located in Richhill, Center, Morris, and Gray Townships, **Greene County**, affecting 4,732 proposed underground acres and 4,732 proposed subsidence control plan acres. No additional discharges. The application was considered administratively complete on October 30, 2019. Application received: September 25, 2019. Permit Withdrawn: January 24, 2020.

Noncoal Applications Received

Effluent Limits—The following effluent limits will apply to NPDES permits issued in conjunction with a noncoal mining permit:

Table 2

Parameter	*30-day Average*	*Daily Maximum*	*Instantaneous Maximum*
Suspended solids	10 to 35 mg/l	20 to 70 mg/l	25 to 90 mg/l
Alkalinity exceeding acidity*			
pH*		greater than 6.0; less than 9.0	

* The parameter is applicable at all times.

A settleable solids instantaneous maximum limit of 0.5 ml/l applied to surface runoff resulting from a precipitation event of less than or equal to a 10-year 24-hour event. If coal will be extracted incidental to the extraction of noncoal minerals, at a minimum, the technology-based effluent limitations identified under coal applications will apply to discharges of wastewater to streams.

Knox District Mining Office: P.O. Box 669, 310 Best Avenue, Knox, PA 16232-0669, 814-797-1191, (Cayleigh Boniger).

37190301 and NPDES Permit No. PA0280755. Glacial Sand & Gravel Co. (P.O. Box 1022, Kittanning, PA 16201). Commencement, operation and restoration of a large industrial minerals surface mine in Scott Township, **Lawrence County** affecting 246.2 acres. Receiving streams: Taylor Run, Slippery Rock Creek, and unnamed tributaries to Slippery Rock Creek, classified for the following uses: CWF. There are no potable surface water supply intakes within 10 miles downstream. Application received: December 16, 2019.

4950-E3719-011. Glacial Sand & Gravel Co. (P.O. Box 1022, Kittanning, PA 16201). Application for a stream encroachment to construct a haul road culver crossing and a conveyor crossing over unnamed tributary B to Slippery Rock Creek. Receiving streams: Taylor Run, Slippery Rock Creek, and unnamed tributaries to Slippery Rock Creek, classified for the following uses: CWF. There are no potable surface water supply intakes within 10 miles downstream. Application received: December 16, 2019.

4950-E3719-012. Glacial Sand & Gravel Co. (P.O. Box 1022, Kittanning, PA 16201). Application for a stream encroachment to construct a haul road culver crossing and a conveyor crossing over unnamed tributary C to Slippery Rock Creek. Receiving streams: Taylor Run, Slippery Rock Creek, and unnamed tributaries to Slippery Rock Creek, classified for the following uses: CWF. There are no potable surface water supply intakes within 10 miles downstream. Application received: December 16, 2019.

4950-37190301-E-3. Glacial Sand & Gravel Co. (P.O. Box 1022, Kittanning, PA 16201). Application for a stream encroachment to construct a conveyor crossing over Taylor Run. Receiving streams: Taylor Run, Slippery Rock Creek, and unnamed tributaries to Slippery Rock Creek, classified for the following uses: CWF. There are no potable surface water supply intakes within 10 miles downstream. Application received: December 16, 2019.

Pottsville District Mining Office: 5 West Laurel Boulevard, Pottsville, PA 17901, 570-621-3118, (Contact: Theresa Reilly-Flannery).

Permit No. 45910805. Louis J. Manzie, Inc. (1155 Francis Lane, Stroudsburg, PA 18360), Stage I & II bond release on a quarry operation in Stroud Township, **Monroe County** affecting 1.0 acre on property owned by Louis J. Manzie. Application received: December 20, 2019.

Permit No. 6575SM1C10 and NPDES Permit No. PA0594415. Hanson Aggregates PA, LLC (7660 Imperial Way, Allentown, PA 18195), renewal of an NPDES Permit for discharge of treated mine drainage from a quarry operation in Hamilton Township, **Monroe County**, affecting 180.0 acres. Receiving streams: unnamed tributary to Lake Creek and unnamed tributary to Cherry Creek, classified for the following uses: HQ—cold water and migratory fishes and HQ—cold water and migratory fishes. Application received: January 10, 2020.

Permit No. 38970301C6 and NPDES Permit No. PA0224448. H & K Group, Inc. (P.O. Box 196, Skippack, PA 19474), renewal of an NPDES Permit for discharge of treated mine drainage from a quarry operation in Cornwall Borough, **Lebanon County** affecting 194.14 acres. Receiving stream: unnamed tributary to Snitz Creek, classified for the following use: trout stocking fishes. Application received: January 14, 2020.

MINING ACTIVITY NPDES DRAFT PERMITS

This notice provides information about applications for a new, amended or renewed NPDES permits associated with mining activity (coal or noncoal) permits. The applications concern industrial waste (mining) discharges to surface water and discharges of stormwater associated with mining activities. This notice is provided in accordance with 25 Pa. Code Chapters 91 and 92a and 40 CFR Part 122, implementing provisions of The Clean Streams Law (35 P.S. §§ 691.1—691.1001) and the Federal Clean Water Act (33 U.S.C.A. §§ 1251—1376).

The Department of Environmental Protection (Department) has prepared a draft NPDES permit and made a tentative determination to issue the NPDES permit in conjunction with the associated mining activity permit.

Effluent Limits for Coal Mining Activities

For coal mining activities, NPDES permits, when issued, will contain effluent limits that are the more stringent of technology-based (BAT) effluent limitations or Water Quality Based Effluent Limits (WQBEL).

The BAT limits for coal mining activities, as provided in 40 CFR Part 434 and 25 Pa. Code Chapters 87—90 are as follows:

Parameter	*30-Day Average*	*Daily Maximum*	*Instantaneous Maximum*
Iron (Total)	3.0 mg/l	6.0 mg/l	7.0 mg/l
Manganese (Total)	2.0 mg/l	4.0 mg/l	5.0 mg/l
Suspended solids	35 mg/l	70 mg/l	90 mg/l
pH*		greater than 6.0; less than 9.0	
Alkalinity greater than acidity*			

*The parameter is applicable at all times.

A settleable solids instantaneous maximum limit of 0.5 ml/l applies to: surface runoff (resulting from a precipitation event of less than or equal to a 10-year 24-hour event) from active mining areas; active areas disturbed by coal refuse disposal activities; mined areas backfilled and revegetated; and all other discharges and drainage (resulting from a precipitation event of greater than 1-year 24-hour to less than or equal to a 10-year 24-hour event) from coal refuse disposal piles. Similarly, modified BAT limits apply to iron, manganese and suspended solids in surface runoff, discharges and drainage resulting from these precipitation events and those of greater magnitude in accordance with 25 Pa. Code §§ 87.102, 88.92, 88.187, 88.292, 89.52 and 90.102.

Exceptions to BAT effluent limits may be applicable in accordance with 25 Pa. Code §§ 87.102, 88.92, 88.187, 88.292, 89.52 and 90.102.

Effluent Limits for Noncoal Mining Activities

The limits for noncoal mining activities as provided in 25 Pa. Code Chapter 77 are pH 6 to 9 and other parameters the Department may require.

Discharges from noncoal mines located in some geologic settings (for example, in the coal fields) may require additional water quality based effluent limits. If additional effluent limits are needed for an NPDES permit associated with a noncoal mining permit, then the permit description specifies the parameters.

In addition to BAT or WQBEL limits, coal and noncoal NPDES permits establish effluent limitations in the form of implemented Best Management Practices (BMPs) identified in the associated Erosion and Sedimentation Plan, the Reclamation Plan and the NPDES permit application. These BMPs restrict the rates and quantities of associated pollutants from being discharged into surface waters in this Commonwealth.

More restrictive effluent limitations, restrictions on discharge volume or restrictions on the extent of mining that may occur are incorporated into an NPDES permit when necessary for compliance with water quality standards and antidegradation requirements (in accordance with 25 Pa. Code Chapters 91—96).

The procedures for determining the final effluent limits, using a mass-balance equation or model, are found in Technical Guidance Document 563-2112-115, Developing National Pollutant Discharge Elimination System (NPDES) Permits for Mining Activities. Other specific factors to be considered include public comments and Total Maximum Daily Load(s). Additional discharge limitations may apply in the event that unexpected discharges occur.

Discharge rates for surface mining activities are precipitation driven. Discharge rates for proposed discharges associated with underground mining are noted in the permit description.

Persons wishing to comment on an NPDES draft permit should submit a written statement to the Department at the address of the district mining office indicated before each draft permit within 30-days of this public notice. Comments received within the comment period will be considered in the final determinations regarding the NPDES permit applications. Comments must include the name, address and telephone number of the writer and a concise statement to inform the Department of the exact basis of a comment and the relevant facts upon which it is based.

The Department will also accept requests or petitions for a public hearing on NPDES permit applications, as provided in 25 Pa. Code § 92a.82(d). The request or petition for a public hearing shall be filed within 30-days of this public notice and contain the name, address, telephone number and the interest of the party filing the request and state the reasons why a hearing is warranted. A public hearing may be held if the Department considers the public interest significant. If a hearing is scheduled, a notice of the hearing on the NPDES permit application will be published in the *Pennsylvania Bulletin* and a newspaper of general circulation within the relevant geographical area. When a public hearing is held, the Department will consider comments from the public hearing in the final determination on the NPDES permit application.

Coal NPDES Draft Permits

California District Office: 25 Technology Drive, Coal Center, PA 15423, 724-769-1100, (Contact: Bonnie Herbert).

NPDES No. PA0235938 (Mining Permit No. 56090701), PBS Coals, Inc., 1576 Stoystown Road, P.O. Box 260, Friedens, PA 15541, a renewal to the NPDES and mining activity permit for the Schrock Run Coal Refuse Disposal Area in Stonycreek Township, **Somerset County**, affecting 263 surface acres. Receiving stream(s): Schrock Run classified for the following use(s): CWF and Unnamed Tributary 45736 to Schrock Run classified for the following use: CWF. Kiskiminetas-Conemaugh Watershed TMDL. The application was considered administratively complete: November 6, 2017. Application received: April 12, 2016.

Unless otherwise noted for a specific outfall, the proposed effluent limits for all outfalls in this permit are the BAT limits described above for coal mining activities.

The facility location of the non-discharge alternatives are listed below:

Facility Identification:

Infiltration gallery identified as internal monitoring point 106.

Outfall 001 discharges to: Schrock Run

The proposed effluent limits for *Outfall 001* (Lat: 40° 00′ 02″ Long: -78° 56′ 40″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	1.5	3.0	3.8
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	1.0	2.0	2.5
Aluminum	(mg/l)	-	0.75	0.75	0.75
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids	(mg/l)	-	2,000	4,000	5,000
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-
Osmotic Pressure	(mOs/kg)	-	50.1	100.2	100.2

Outfall 002 discharges to: Schrock Run

The proposed effluent limits for *Outfall 002* (Lat: 40° 00′ 06″ Long: -78° 56′ 40″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	1.5	3.0	3.8
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	1.0	2.0	2.5
Aluminum	(mg/l)	-	0.75	0.75	0.75
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids[c]	(mg/l)	-	-	-	Report
Chloride	(mg/l)	-	-	-	Report
Bromide	(mg/l)	-	-	-	Report
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-
Osmotic Pressure[c]	(mOs/kg)	-	-	-	Report

Outfall 003 discharges to: Schrock Run

The proposed effluent limits for *Outfall 003* (Lat: 40° 00′ 15″ Long: -78° 56′ 21″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	1.5	3.0	3.8
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	1.0	2.0	2.5
Aluminum	(mg/l)	-	0.75	0.75	0.75
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids	(mg/l)	-	2,000	4,000	5,000
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-
Osmotic Pressure	(mOs/kg)	-	50.1	100.2	100.2

Outfall 004 discharges to: Schrock Run

The proposed effluent limits for *Outfall 004* (Lat: 40° 00′ 15″ Long: -78° 57′ 05″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	1.5	3.0	3.8
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	1.0	2.0	2.5
Aluminum	(mg/l)	-	0.75	0.75	0.75
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids	(mg/l)	-	-	-	Report
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-
Osmotic Pressure	(mOs/kg)	-	-	-	Report

Outfall 005 discharges to: Schrock Run

The proposed effluent limits for *Outfall 005* (Lat: 39° 59′ 59″ Long: -78° 56′ 54″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	1.5	3.0	3.8
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	1.0	2.0	2.5
Aluminum	(mg/l)	-	0.75	0.75	0.75
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids	(mg/l)	-	-	-	Report
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-
Osmotic Pressure	(mOs/kg)	-	50.1	100.2	100.2

Internal Monitoring Point 106 discharges to: Infiltration Gallery

The proposed effluent limits for *Internal Monitoring Point 106* (Lat: 40° 00′ 03″ Long: -78° 56′ 55″) are:

Parameter		*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Flow	(mgd)	-	-	-	Report
Iron	(mg/l)	-	3.0	6.0	7.0
Suspended Solids	(mg/l)	-	35	70	90
Manganese	(mg/l)	-	2.0	4.0	5.0
Sulfate	(mg/l)	-	-	-	Report
Total Dissolved Solids	(mg/l)	-	-	-	Report
pH	(S.U.)	6.0	-	-	9.0
Alkalinity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Acidity, Total as $CaCO_3$	(mg/l)	-	-	-	Report
Alkalinity, Net	(mg/l)	0.0	-	-	-

EPA waiver is not in effect.

New Stanton District Office: P.O. Box 133, 131 Broadview Road, New Stanton, PA 15672, 724-925-5500. (Contact: Tracy Norbert).

NPDES No. PA0251470 (Mining Permit No. 30080201), Shannopin Materials, LLC, 966 Crafts Run Road, Maidsville, WV 26541, renewal of NPDES permit in Monongahela Township, **Greene County**, affecting 19.6 acres. Receiving stream(s): Monongahela River, classified for the following use(s): WWF. The first downstream potable water supply intake from the point of discharge is Dunkard Valley Joint Municipal Authority. Application received: March 18, 2019.

The following outfalls drain to the Monongahela River.

Outfall Nos.	*New Outfall (Y/N)*	*Type*
002	N	SWO
006	N	SWO
007	N	MDT
008	N	MDT

The proposed effluent limits for the previously listed outfalls at all times are as follows:

Parameter	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
Total Iron (mg/L)	1.5	3.0	3.7
Total Manganese (mg/L)	2.0	4.0	5.0
Total Aluminum (mg/L)	0.75	0.75	0.75
Total Suspended Solids (mg/L)	35	70	90
Sulfates (mg/L)	Monitor and Report		
Total Dissolved Solids (mg/L)	Monitor and Report		
Flow (gpm)	Monitor and Report		
Specific Conductivity (µmhos/cm)	Monitor and Report		

Alkalinity must be greater than acidity at all times pH must be between 6.0 and 9.0 at all times.

Noncoal NPDES Draft Permits

Knox District Mining Office: P.O. Box 669, 310 Best Avenue, Knox, PA 16232-0669, 814-797-1191, (Cayleigh Boniger).

NPDES No. PA0280747 (Permit No. 10980302). Neiswonger Construction, Inc. (17592 Route 322, Strattanville, PA 16258). New NPDES permit for a large industrial mineral surface mine in Cherry and Slippery Rock Townships, **Butler County**, affecting 119.9 acres. Receiving streams: Unnamed tributaries to McMurray Run and McMurray Run, classified for the following uses: CWF. TMDL: None. Application received: December 16, 2019.

Unless otherwise noted for a specific outfall, the proposed effluent limits for all outfalls in this permit are the BAT limits described previously for noncoal mining activities.

The following outfalls discharge to unnamed tributaries McMurray Run and McMurray Run:

Outfall No.	*New Outfall (Y/N)*
005	Y
006	Y

The proposed effluent limits for the previously listed outfalls are as follows:

Parameter	*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
pH[1] (S.U.)	6.0			9.0
Alkalinity greater than acidity[1]				
[1] The parameter is applicable at all times.				
Iron (mg/l)		3.0	6.0	7.0
Manganese (mg/l)		2.0	4.0	5.0
Total Suspended Solids (mg/l)		35.0	70.0	90.0

The following outfalls discharge to unnamed tributaries to McMurray Run and McMurray Run:

Outfall No.	*New Outfall (Y/N)*
002	Y
003	Y
004	Y

The proposed effluent limits for the previously listed outfalls are as follows:

Parameter	*Minimum*	*30-Day Average*	*Daily Maximum*	*Instant. Maximum*
pH[1] (S.U.)	6.0			9.0
Alkalinity greater than acidity[1]				
[1] The parameter is applicable at all times.				
Iron (mg/l)		3.0	6.0	7.0
Manganese (mg/l)		2.0	4.0	5.0
Total Suspended Solids (mg/l)		35.0	70.0	90.0

FEDERAL WATER POLLUTION CONTROL ACT, SECTION 401

The following permit applications, requests for Environmental Assessment approval and requests for 401 Water Quality Certification have been received by the Department of Environmental Protection. Section 401 of the Federal Water Pollution Control Act (FWPCA) (33 U.S.C.A. § 1341), requires the State to certify that the involved projects will not violate the applicable provisions of sections 301—303, 306 and 307 of the FWPCA (33 U.S.C.A. §§ 1311—1313, 1316 and 1317), as well as relevant State requirements. Persons objecting to approval of a request for certification under Section 401 or to the issuance of a Dam Permit or Water Obstruction and Encroachment Permit, or the approval of an Environmental Assessment must submit any comments, suggestions or objections within 30-days of the date of this notice, as well as any questions to the office noted above the application. Comments should contain the name, address and telephone number of the person commenting, identification of the certification request to which the comments or objections are addressed, and a concise statement of comments, objections or suggestions including the relevant facts upon which they are based.

The Department may conduct a fact-finding hearing or an informal conference in response to comments if deemed necessary. Each individual will be notified, in writing, of the time and place of a scheduled hearing or conference concerning the certification request to which the comment, objection or suggestion relates. Maps, drawings and other data pertinent to the certification request are available for inspection between the hours of 8:00 AM and 4:00 PM on each working day at the office noted above the application.

If you are a person with a disability and wish to attend the hearing and you require an auxiliary aid, service or other accommodation to participate in the proceedings, please contact the specified program. TDD users may contact the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

WATER OBSTRUCTIONS AND ENCROACHMENTS

Applications Received Under the Dam Safety and Encroachments Act (32 P.S. §§ 693.1—693.27) and Section 302 of the Flood Plain Management Act (32 P.S. § 679.302) and Requests for Certification Under Section 401 of the Federal Water Pollution Control Act (33 U.S.C.A. § 1341(a).

Southeast Region: Waterways and Wetlands Program, 2 East Main Street, Norristown, PA 19401, Telephone 484.250.5160.

Contact: Elaine Henderson, Clerk Typist 3, 484.250.5157.

Permit No. E15-915, East Whiteland Township, 209 Conestoga Road, Frazer, PA 19355, East Whiteland Township, **Chester County**, ACOE Philadelphia District.

To perform the below listed water obstruction and encroachment activities associated with Gunkle Spring Mill. The proposed project consists of the excavation of a channel that leads from Valley Creek (EV). The proposed excavation will have 9,400 square feet of permanent impact to the floodway and 1,880 square feet of permanent impact in wetlands.

The site is approximately at 86 Moores Road, Malvern, PA 19335 (Malvern Lat. 40° 3′ 8″; Long. -75° 33′ 50″) in East Whiteland Township, Chester County.

Permit No. E09-1042, MRP Industrial NE, LLC, 930 East Boot Road, West Chester, PA 19380, Richland Township, **Bucks County**, ACOE Philadelphia District.

To construct and maintain an approximate 209,000-square foot industrial building, the required parking area, and the stormwater management facility along and over the emergent wetland (PEM), impacting 0.55 acre of wetland associated with the new warehouse facility.

The site is located at East Pumping Station and Heller Roads (Quakertown, PA USGS Quadrangle Latitude: 40.461894; Longitude: -75.342510) in Richland Township, Bucks County.

Permit Nos. E15-919 and E46-1202, Aqua Pennsylvania, 762 West Lancaster Avenue, Bryn Mawr, PA 19010, Schuylkill and Upper Merion Townships, **Chester and Montgomery Counties**, ACOE Philadelphia District.

Aqua Pennsylvania is proposing to perform the following water obstruction and encroachment activities associated with the Valley Forge 24-Inch Water Main Project. This is a multi-county project located in both Chester County and Montgomery County, which consists of the construction of 1,450 linear feet of 24-inch diameter ductile iron transmission main. The activities associated with Valley Creek (EV-MF) adjacent to S.R. 0023 include the construction and maintenance of a 148 linear foot 24-inch diameter transmission lane and includes the excavation of boring pits within the floodway of Valley Creek and boring under Valley Creek, which will result in 200 square feet (0.005 acre) of permanent floodway impact, 225 square feet (0.005 acre) of temporary floodway impact, and approximately 50 linear feet of permanent watercourse impact perpendicular to stream flow. This project is located along S.R. 0023 within Valley Forge National Historical Park in Schuylkill and Upper Merion Townships, Chester and Montgomery Counties (USGS PA Schuylkill; Upper Merion Quadrangle—Latitude 40.099855 N, Longitude 75.464056 W).

Northeast Region: Watershed Management Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790, 570-826-2511.

Contact: Gillian Ostrum, Clerk Typist 2, 570-830-3077.

E4802219-001. Borough of North Catasauqua, 1066 Fourth Street, North Catasauqua, PA 18032, in Northampton & North Catasauqua, **Northampton County**, U.S. Army Corps of Engineers, Philadelphia District.

To construct and maintain the following water obstructions and encroachments associated with the Delaware and Lehigh National Heritage Corridor Northampton Trail:

1. To remove an existing bridge structure and to construct and maintain a 11.2-foot long, 25.5-foot span steel beam/wooden deck bridge crossing of Dry Run (CWF, MF) having a 10.0-foot underclearance, and utilizing the existing concrete wingwalls after repair. A floodway fill of 0.16 acre of Dry Run (CWF, MF) is associated with this impact.

2. A floodway fill impacting approximately 0.07 acre of the Lehigh River (TSF, MF) for the purpose of maintaining the existing portion of the walking trail.

3. A floodway fill impacting approximately 0.3 acre of the Lehigh River (TSF, MF) for the purpose of realigning the existing walking trail.

4. A floodway fill impacting approximately 0.05 acre of the Hokendauqua Creek (CWF, MF) for the purpose of maintaining the existing walking trail.

5. A floodway fill impacting approximately 0.06 acre of the Hokendauqua Creek (CWF, MF) for the purpose of constructing an access ramp for the walking trail.

6. A floodplain fill impacting approximately 4.44 acre of the Lehigh River (TSF, MF) for the purpose of maintaining 7,200-LF of existing walking trail.

The project is located approximately 0.2 mile south of the intersection of Main Street and Laubach Ave. (Catasauqua, PA Quadrangle Latitude: 40° 40′ 21″; Longitude: -75° 29′ 6″) in Northampton and North Catasauqua Boroughs, Northampton County.

E4802219-005. Valley Industrial Properties, LLC, 21 E. 10th Street, Northampton, PA 18067, in Plainfield Township, **Northampton County**, U.S. Army Corps of Engineers, Philadelphia District.

To fill and maintain an existing, abandoned, 0.44-acre water-filled lacustrine quarry pit having a permanent pool depth of approximately 48-feet. The purpose of this project is to reclaim a former mining area and eliminate a safety hazard. The project is located on the west side of Mack Road, approximately 0.35-mile east of the intersection of S.R. 512 (N. Lehigh Street) and Alpha Road (T-656) (Wind Gap, PA Quadrangle Latitude: 40° 51′ 6″ Longitude: -75° 16′ 41″) in Portland Borough, Northampton County.

E5202220-001. Emil Avallone, P.O. Box 187, Tafton, PA 18464, in Palmyra Township, **Pike County**, U.S. Army Corps of Engineers, Philadelphia District.

To authorize a previously completed wetland fill of 0.11 acre of wetlands (EV) within the Sand Spring Creek Watershed (EV, MF) for the purpose of constructing a driveway for a single-family dwelling. When traveling north on SR 390, turn left onto Shiny Mountain Road and then turn right onto Brown Road after approximately 1.1 mile. The project is located 0.1 mile down Brown Road on the left (Promised Land, PA Quadrangle Latitude: 41° 21′ 56.0″; Longitude: -75° 13′ 2.0″) in Palmyra Township, Lackawanna County. (Promised Land, PA Quadrangle, Latitude: 41° 21′ 56″; Longitude: -75° 13′ 2″.)

Southcentral Region: Waterways & Wetlands Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Edward Muzic, Section Chief, 717.705.4802.

E2803219-006: Antrim Township Municipal Authority, 10655 Antrim Church Road, Greencastle, PA 17225 in Antrim Township, **Franklin County**, U.S. Army Corps of Engineers Baltimore District.

The applicant proposes to construct and maintain two (2) waste water aeration reactor tanks, a new headworks building, and to upgrade the two (2) existing waste water aeration reactor tanks. The proposed aeration reactor tanks are in the FEMA floodplain of the Conococheague Creek (WWF, MF) and Unnamed Tributary to Conococheague Creek (WWF, MF) for the purpose of improving the pretreatment of the incoming wastewater and to improve operational efficiency of the waste water treatment plant. The project is located in Antrim Township, Franklin County (Latitude: 39° 44′ 48.2″; Longitude: -77° 47′ 3.9″). No wetland impacts are proposed.

E3603119-002: East Hempfield Township, 1700 Nissley Road, Landisville, PA 17538 in East Hempfield Township, **Lancaster County**, U.S. Army Corps of Engineers Baltimore District.

To remove existing structure and to install and maintain a (1) 2 43.5 linear foot 12-foot × 5-foot box culverts with 1 foot uniform depression in Little Conestoga Creek (TSF, MF) and 1 31.5 linear foot 16-foot × 4 foot box culvert with 1-foot uniform depression in UNT Little Conestoga Creek (TSF, MF) and (2) place fill within a unused mill race. The project proposes to impact 164 feet of Little Conestoga Creek (TSF, MF) and 125 feet of UNT Little Conestoga Creek (TSF, MF). There is .001 ac of permanent PEM Wetland impacts and .001 ac of temporary PEM wetland impacts. The project is located in Hempfield Township, Lancaster County (40.0796°, -76.3515°).

Northcentral Region: Waterways & Wetlands Program Manager, 208 West Third Street, Williamsport, PA 17701, 570-327-3636.

E1704220-002. City of Dubois, 16 W. Scribner Ave., DuBois, PA 15801. Maple Avenue Streetscape. City of DuBois, **Clearfield County**. USACOE Pittsburgh District (DuBois, PA Quadrangle Latitude: 41° 06′ 59.1″; Longitude: 78° 45′ 12.5″).

The applicant is seeking Department consent for the removal, addition and expansion of sidewalks adjacent to Maple Avenue. The project also involves utility pole relocation, new light pole installation and tree removal. The site includes a one-mile section of sidewalk on both sides adjacent to Maple Avenue beginning at the intersection of Maple Ave and U.S. Route 219 and ending at the intersection of Maple Ave and 10th Street. A portion of the project is within the floodplain and floodway of Reisinger Run. Department water quality designation for Reisinger Run is Cold-Water Fishery (CWF). Reisinger Run is a tributary to Sandy Lick Creek which is listed as a Trout Stocking Fishery (TSF). The total proposed earth disturbance for the project is 0.85 acre. The project area consists of the roadway, sidewalks and maintained lawn. No wetlands are located within the project area.

Southwest Region: Dana Drake, Waterways and Wetlands Program, 400 Waterfront Drive, Pittsburgh, PA 15222.

E02051-1831, PennDOT District 11-0, 45 Thoms Run Road, Bridgeville, PA 15017, Bell Acres Borough and Economy Borough; **Allegheny County and Beaver County**; Pittsburgh ACOE District.

The applicant proposes to:

Remove the existing 56 LF single-span steel girder bridge, and construct and maintain a replacement 80 LF single-span, prestressed concrete box beam bridge, along with scour protection, carrying SR 4036 Section A09 (Big Sewickley Road) over Big Sewickley Creek (TSF), for the purpose of replacing a deteriorating structure. The project will permanently impact 55 LF, and temporarily impact 94 LF of Big Sewickley Creek.

The project site is located along Big Sewickley Road, near the intersection with Hopkins Church Road (Ambridge, PA USGS topographic quadrangle; N: 40°, 36′, 33.3″; W: 80°, 09′, 30.6″; Sub-basin 20G; USACE Pittsburgh District), in Bell Acres Borough, Allegheny County, and Economy Borough, Beaver County.

Eastern Region: Oil and Gas Management Program Manager, 208 West Third Street, Suite 101, Williamsport, PA 17701-6448.

E4129-133: Pennsylvania General Energy Company, LLC, 120 Market Street, Warren, PA 16365. Loyalsock/Shawnee Freshwater System in Gamble & Plunketts Creek Township, **Lycoming County**, ACOE Baltimore District.

To construct, operate and maintain approximately 0.3-mile (1,600 ft) of permanent underground utility corridor and one (1) permanent surface freshwater withdrawal (SFW) under Loyalsock Creek along State Route 87 in Gamble and Plunketts Creek—Lycoming County. The permanent waterline will extend from proposed pump stations on both sides of Loyalsock Creek to the proposed impoundment site within Loyalsock State Forest. The purpose of the project is to support PGE's natural gas operations from the Marcellus shale formation. The project includes a freshwater intake and withdrawal system, a booster pump station pad, access road and permanent underground utility corridor that crosses Loyalsock Creek.

The project will result in a total of 309 LF (1,191 SF) of permanent and 268 LF (20,252 SF) of temporary stream impacts and 392 SF (0.0090 acre) of permanent and 8,744 SF (0.2007 acre) of temporary floodway impacts all for the purpose of constructing a freshwater withdrawal system and utility corridor under Loyalsock Creek to expand freshwater pipeline systems for Marcellus well development. No wetland impacts are proposed.

Stream Impact Table:

Resource Name	*Municipality Quadrangle*	*Activity*	*Chap. 93*	*Listed Trout*	*Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
Loyalsock Creek	Plunketts Creek Montoursville N.	Withdrawal System	TSF; EV	Stocked			129	56	41.355167 76.888760
Loyalsock Creek	Gamble Montoursville N.	Utility Trench/ Corridor	TSF; EV	Stocked	19,496	240	1,008	240	41.355312 76.888918
Loyalsock Creek	Gamble Montoursville N.	Utility Trench/ Corridor	TSF; EV	Stocked	593	13	54	13	41.355621 76.889681
Loyalsock Creek	Gamble Montoursville N.	Temporary Bridge	TSF; EV	Stocked	163	15			41.355920 76.889301
				TOTAL IMPACTS	20,252	268	1,191	309	

Floodway Impact Table:

Resource Name	*Municipality Quadrangle*	*Activity*	*Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
Loyalsock Creek	Plunketts Creek Montoursville N.	Withdrawal System			205	45	41.355167 76.888760
Loyalsock Creek	Gamble Montoursville N.	Utility Trench/ Corridor	8,744	219	187	45	41.355312 76.888918
		TOTAL IMPACTS	8,744	219	392	90	

E4129-134: HEP Pennsylvania Gathering, LLC, 22024 Route 14, Troy, PA 16947. Elly May Pipeline in Cogan House Township, **Lycoming County**, ACOE Baltimore District.

To construct, operate and maintain approximately 1.7-mile (8,976 ft) of one (1) 20-inch diameter high density polyethene (HDPE) for transporting water and one (1) 20-inch diameter flex steel natural gas pipeline in Cogan House Township—Lycoming County. Additionally, a temporary access road and workspace will be constructed. The pipeline will be placed via open cut trenching within the existing ROW. The purpose of this project is to provide a conveyance of low-pressure natural gas between the Elly May Well Pad and Loch Well Pad.

The project will result in a total of 107 LF (1,121 SF) of permanent and 32 LF (284 SF) of temporary stream impacts, 13,265 SF (0.3045 acre) of permanent and 4,506 SF (0.1034 acre) of temporary floodway impacts and 5,809 SF (0.1334 acre) of permanent and 2,839 SF (0.0652 acre) of temporary wetland impacts all for the purpose of constructing a natural gas pipeline for Marcellus well development.

Stream Impact Table:

Resource Name	*Municipality Quadrangle*	*Activity*	*Chap. 93*	*Listed Trout*	*Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
(Waiver 2) S-MJU-121 UNT Wolf Run	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline	EV	Wild Trout	16	112	57	371	41.452681° 77.180347°
S-MJU-115 Flicks Run	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Mudsill	EV	Class A Wild	16	272	50	750	41.461320° 77.172293°
				TOTAL IMPACTS	32	384	107	1,121	
				TOTAL STREAM IMPACTS	16	272	50	750	
				TOTAL WAIVER 2 IMPACTS	16	112	57	371	

Wetland Impact Table:

Resource Name	*Municipality Quadrangle*	*Activity*	*Cow. Class*	*Listed Trout*	*Total Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Total Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
W-MJU-289	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Timber Matting	PEM; EV	Class A Wild	80	1,280	80	3,926	41.453769° 77.179923°
W-MJU-289	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Timber Matting	PFO; EV	Class A Wild	37	592	37	738	41.453769° 77.179923°
W-MJU-289	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Timber Matting	PSS; EV	Class A Wild	38	608	38	711	41.453769° 77.179923°
W-MJU-306	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Timber Matting	PEM; EV	Class A Wild	16	112	67	434	41.462502° 77.171218°
W-MJU-306	Cogan House White Pine	Temporary Workspace	PEM; EV	Class A Wild	23	247			41.462502° 77.171218°
				TOTAL IMPACTS	194	2,839	222	5,809	
				PEM	119	1,639	147	4,360	
				PSS	38	608	38	711	
				PFO	37	592	37	738	

Floodway Impact Table:

Resource Name	*Municipality Quadrangle*	*Activity*	*Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
(Waiver 2) S-MJU-121 UNT Wolf Run	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline	100	1,600	100	5,976	41.452681° 77.180347°
S-MJU-115 Flicks Run	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline Mudsill	100	1,600	100	5,140	41.461320° 77.172293°

Resource Name	*Municipality Quadrangle*	*Activity*	*Impact Area Temp. (SF)*	*Impact Length Temp. (LF)*	*Impact Area Perm. (SF)*	*Impact Length Perm. (LF)*	*Lat. Long.*
(Waiver 2) S-MJU-270 UNT Flicks Run	Cogan House White Pine	20″ Gas Pipeline 20″ Waterline			130	2,149	41.463305° 77.170440°
(Waiver 2) S-MJU-114 UNT Flicks Run	Cogan House White Pine	Temporary Access Road	49	459			41.462043° 77.169094°
(Waiver 2) S-MJU-112 UNT Flicks Run	Cogan House White Pine	Temporary Access Road	48	847			41.462059° 77.168217°
		TOTAL IMPACTS	297	4,506	330	13,265	

ACTIONS

THE PENNSYLVANIA CLEAN STREAMS LAW AND THE FEDERAL CLEAN WATER ACT

FINAL ACTIONS TAKEN FOR NPDES PERMITS AND WQM PERMITS

The Department has taken the following actions on previously received applications for new, amended and renewed NPDES and WQM permits, applications for permit waivers and NOIs for coverage under General Permits. This notice of final action is provided in accordance with 25 Pa. Code Chapters 91 and 92a and 40 CFR Part 122, implementing provisions of The Clean Streams Law (35 P.S. §§ 691.1—691.1001) and the Federal Clean Water Act (33 U.S.C.A. §§ 1251—1376).

Location	*Permit Authority*	*Application Type or Category*
Section I	NPDES	Renewals
Section II	NPDES	New or Amendment
Section III	WQM	Industrial, Sewage or Animal Wastes; Discharges to Groundwater
Section IV	NPDES	MS4 Individual Permit
Section V	NPDES	MS4 Permit Waiver
Section VI	NPDES	Individual Permit Stormwater Construction
Section VII	NPDES	NOI for Coverage under NPDES General Permits

Sections I—VI contain actions regarding industrial, animal or sewage wastes discharges, discharges to groundwater, and discharges associated with MS4, stormwater associated with construction activities and CAFOs. Section VII contains notices for parties who have submitted NOIs for Coverage under General NPDES Permits. The approval for coverage under these General NPDES Permits is subject to applicable effluent limitations, monitoring, reporting requirements and other conditions in each General Permit. The approval of coverage for land application of sewage sludge or residential septage under applicable general permit is subject to pollutant limitations, pathogen and vector attraction reduction requirements, operational standards, general requirements, management practices and other conditions in the respective permit. The permits and related documents, effluent limitations, permitting requirements and other information are on file and may be inspected and arrangements made for copying at the contact office noted before the action.

Persons aggrieved by an action may appeal that action to the Environmental Hearing Board (Board) under section 4 of the Environmental Hearing Board Act (35 P.S. § 7514) and 2 Pa.C.S. §§ 501—508 and 701—704 (relating to Administrative Agency Law). The appeal should be sent to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, (717) 787-3483. TDD users may contact the Board through the Pennsylvania AT&T Relay Service, (800) 654-5984. Appeals must be filed with the Board within 30-days of publication of this notice in the *Pennsylvania Bulletin* unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at (717) 787-3483. This paragraph does not, in and of itself, create a right of appeal beyond that permitted by applicable statutes and decisional law.

For individuals who wish to challenge an action, the appeal must reach the Board within 30-days. A lawyer is not needed to file an appeal with the Board.

Important legal rights are at stake, however, so individuals should contact a lawyer at once. Persons who cannot afford a lawyer may qualify for free pro bono representation. Call the Secretary to the Board at (717) 787-3483 for more information.

I. NPDES Renewal Permit Actions.

Southcentral Region: Clean Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed No.)*	*EPA Waived Y/N*
PA0260797 (SEW)	Clappertown CMA Church 3239 Piney Creek Rd Williamsburg, PA 16693-880	Blair County/ Huston Twp.	UNT Piney Creek (11-A)	Yes
PA0043052 (SEW)	Spring Township 2850 Windmill Rd Reading, PA 19608-1668	Berks County/ Spring Twp.	Cacoosing Creek (3-C)	No
PA0020851 (SEW)	Hyndman Boro Munic Auth P.O. Box 445 Hyndman, PA 15545-0445	Bedford County/ Hyndman Boro	Wills Creek (13-A)	Yes
PA0088048 (SEW)	New Morgan Borough 200 Bethlehem Dr Ste 102 Morgantown, PA 19543-9771	Berks County/ New Morgan Borough	East Branch Conestoga River (7-J)	Yes
PA0247391 (SEW)	North Codorus Twp. 1986 Stoverstown Rd Spring Grove, PA 17362-7804	York County/ North Codorus Twp.	UNT Codorus Creek (7-H)	No
PA0033065 (SEW)	Vanderhomes LLC Palm City MHP 2379 Brandt Road Annville, PA 17003-8849	Lebanon County/ South Annville Twp.	Killinger Creek (7-D)	Yes
PA0020249 (SEW)	Roaring Spring Boro Muni Auth P.O. Box 33 616 Spang St Roaring Spring, PA 16673-0033	Blair County/ Roaring Spring Borough	Frankstown Branch Juniata River (11-A)	No
PA0246522 (SEW)	Richard Wright Heritage Cove Resort Campground 1172 River Road Saxton, PA 16678-7516	Bedford County/ Liberty Township	Raystown Branch Juniata River (11-D)	Yes
PA0085430 (SEW)	MHC Robin Hill LLC 2 North Riverside Plaza Ste 800 Chicago, IL 60606-2682	Berks County/ Greenwich Township	UNT Maidencreek (3-B)	No
PA0086860 (SEW)	Springfield Twp. Hollow Creek STP P.O. Box 75 Seven Valleys, PA 17360-0075	York County/ Springfield Township	UNT East Branch Codorus Creek/7-H	No
PA0260762 (SEW)	New Buffalo Borough P.O. Box 245 New Buffalo, PA 17069-0245	Perry County New Buffalo Borough	Buffalo Creek (6-C)	Yes
PA0261998 (SEW)	Brian Weidenhammer 419 Beacon Avenue Sinking Spring, PA 19608-1916	Berks County Bern Township	Plum Creek (3-C)	Yes
PA0033391 (SEW)	Mr. Frank Perano Pine Manor LLC P.O. Box 677 Morgantown, PA 19543-0677	Dauphin County Londonderry Township	UNT Lynch Run (7-G)	Yes
PA0080721 (SEW)	Mr. Frank Perano GSP Management Co (Cedar Manor MHP) P.O. Box 677 Morgantown, PA 19543-0677	Dauphin County Londonderry Township	UNT Conewago Creek (7-G)	Yes
PA0088617 (SEW)	Bratton Township 133 Mountain Lane McVeytown, PA 17051-8429	Mifflin County Bratton Township	Carlisle Run (12-A)	Yes

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed No.)*	*EPA Waived Y/N*
PA0260134 (SEW)	Lancaster Family YMCA 265 Harrisburg Avenue Lancaster, PA 17603-2936	Lebanon County Cornwall Borough	UNT Shearers Creek (7-G)	Yes
PA0265900 (SEW)	Jennifer L Messner & Larry G Messner 1954 Bowmansville Road Mohnton, PA 19540	Adamstown Borough Lancaster County	Little Muddy Creek (TSF, MF) in Watershed(s) 7-J	Yes
PA0111350 (SEW)	Petersburg Borough Sewer Authority Huntingdon County P.O. Box 6 316 King Street Petersburg, PA 16669-0006	Petersburg Borough Huntingdon County	Shaver Creek (HQ-CWF) in Watershed(s) 11-B	Yes

Northcentral Regional Office: Regional Clean Water Program Manager, 208 W Third Street, Suite 101, Williamsport, PA 17701-6448. Phone: 570.327.3636.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed No.)*	*EPA Waived Y/N?*
PA0112623 (Industrial)	JJ Bucher Producing 2568 Bells Run Road Shinglehouse, PA 16748-3030	Potter County Shinglehouse Borough	Oswayo Creek (WWF) (16-C)	No
PA0111368 (Sewage)	Salladasburg Elementary School Wastewater Treatment Plant 175 A and P Drive Jersey Shore, PA 17740-7814	Lycoming County Mifflin Township	Larrys Creek (EV (existing use)) (10-A)	Yes

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

NPDES No. (Type)	*Facility Name & Address*	*County & Municipality*	*Stream Name (Watershed No.)*	*EPA Waived Y/N?*
PA0042749 (Sewage)	Jenner Area Joint Sewer Authority WWTP P.O. Box 202 Jennerstown, PA 15547-0202	Somerset County Boswell Borough	Quemahoning Creek (CWF) (18-E)	Yes
PA0023434 (Sewage)	Koppel Borough WWTP 5001 5th Avenue Koppel, PA 16136	Beaver County Koppel Borough	Beaver River (WWF) (20-B)	Yes
PA0034614 (Sewage)	Mountain Pines Campground 1662 Indian Creek Valley Road Champion, PA 15622-3057	Fayette County Saltlick Township	Indian Creek (HQ-CWF) (19-E)	Yes
PA0110990 (Industrial)	Central City Authority Water System 314 Central Avenue Suite 203 Central City, PA 15926-1100	Somerset County Shade Township	Unnamed Tributary to Dark Shade Creek (CWF) (18-E)	Yes
PA0217085 (Industrial)	Gautier Steel Ltd Johnstown Plant 80 Clinton Street Johnstown, PA 15901-2200	Cambria County Johnstown City	Conemaugh River (WWF) and Little Conemaugh River (WWF) (18-E and 18-D)	No

II. New or Expanded Facility Permits, Renewal of Major Permits and EPA Nonwaived Permit Actions.

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

NPDES Permit No. PA0254291, Industrial, SIC Code 1389, **Bronco Oilfield Services**, 88 E Buffalo Church Road, Washington, PA 15301-8575.

This proposed facility is located in Buffalo Township, **Washington County**.

Description of Proposed Action/Activity: New NPDES Permit coverage for the discharge of stormwater associated with industrial activity.

NPDES Permit No. PA0204153, Industrial, SIC Code 4911, **National Salvage & Service Corporation**, P.O. Box 300, Clear Creek, IN 47426.

This existing facility is located in Cambria Township, **Cambria County**.

Description of Existing Action/Activity: Issuance of an NPDES Permit for discharges of industrial waste and storm water from the demolition and salvage of a former coal-fired power plant.

III. WQM Industrial Waste and Sewerage Actions under The Clean Streams Law.

Northeast Region: Clean Water Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790.

WQM Permit No. WQG02401901, Sewage, **315 Realty Corp, Inc./Norsec Realty Partners, LLC**, 1149 Highway 315, Wilkes-Barre, PA 18702.

This proposed facility is located in Plains Township, **Luzerne County**.

Description of Proposed Action/Activity: Construction of a sewer extension connecting three new commercial/retail buildings and a rehabilitated building to the existing Plains Township collection system. Each building will be equipped with a grinder pump.

WQM Permit No. 3519403, Sewage, SIC Code 4952, **Jessup Borough**, 395 Lane Street, Jessup, PA 18434.

This proposed facility is located in Jessup Borough, **Lackawanna County**.

Description of Proposed Action/Activity: Replacement of cracked and misaligned terra cotta sanitary lines along Church Street and Front Street with new SDR-35 lines that match the downstream pipe sizes. Two additional segments along Church Street will also be replaced with new SDR-35 lines. Old brick manholes will be replaced with new concrete manholes.

Northcentral Regional Office: Regional Clean Water Program Manager, 208 W Third Street, Suite 101, Williamsport, PA 17701-6448. Phone: 570.327.3636.

WQM Permit No. 4112201 A-1, Industrial, SIC Code 4953, **Lycoming County Resource Management Service**, P.O. Box 187, Montgomery, PA 17752-0187.

This existing facility is located in Brady Township, **Lycoming County**.

Description of Proposed Action/Activity: Installation of an additional pump and construction of a 1,000-foot force main extension.

Southwest Region: Clean Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

WQM Permit No. 6578202 A-1, T-3, Industrial, SIC Code 5541, **Pilot Travel Centers LLC**, 5508 Lonas Drive, Knoxville, TN 37909-3221.

This existing facility is located in South Huntingdon Township, **Westmoreland County**.

Description of Proposed Action/Activity: Replacement of an oil/water separator and transfer from North East LLC to Pilot Travel Centers LLC.

IV. NPDES Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4) Individual Permits Issued.

Northeast Region: Clean Water Program Manager, 2 Public Square, Wilkes-Barre, PA 18701-1915.

NPDES Permit No.	*Applicant Name & Address*	*Municipality, County*	*Receiving Water(s)/Use(s)*	*TMDL Plan Submitted (Y/N)*	*Pollutant Reduction Plan Submitted (Y/N)*
PAI132275	Pittston Township 421 Broad Street Pittston Township, PA 18640	Pittston Township Luzerne	Collins Creek (CWF/MF), Mill Creek (CWF/MF), and Tributary 28393 to Spring Brook (HQ-CWF/MF)	N	Y

VI. NPDES Discharges of Stormwater Associated with Construction Activities Individual Permit Actions.

Southeast Region: Clean Water Program Manager, 2 East Main Street, Norristown, PA 19401.

Contact: Aaron Redmond, Management Technician, 484.250.5821.

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water/Use*
PAD150146	Diament Building Corporation Byers Road P.O. Box 471 Uwchlan, PA 19480	Chester	West Vincent Township	Unnamed Tributary to Pickering Creek HQ-TSF-MF
PAD150141	TC Atwater Land, LP 300 Conshohocken State Road Suite 250 Conshohocken, PA 19428	Chester	Tredyffrin Township	Cedar Hollow Run to Valley Creek EV-MF
PAD150131	Rouse/Chamberlin, Ltd. 500 Exton Commons Exton, PA 19341-2452	Chester	Willistown Township	George Smedley Run HQ-TSF-MF Hillside Run HQ-TSF-MF

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water / Use*
PAD460039	400 Barr Harbor, LLC 3843 West Chester Pike Newtown Square, PA 19073-2304	Montgomery	West Conshohocken Borough	Schuylkill River WWF-MF Gulph Creek WWF-MF
PAD230012 Phase 5A	City of Philadelphia, Division of Aviation (DOA) Department of Planning and Environmental Stewardship Philadelphia International Airport Philadelphia, PA 19153	Philadelphia and Delaware	City of Philadelphia and Tinicum Township	Mingo Creek WWF-MF
PAD510052	Beach Street Developers, LLC 2337 Philmont Avenue 2nd Floor Huntington Valley, PA 19006-6200	Philadelphia	City of Philadelphia	Delaware River WWF

Northeast Region: Watershed Management Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790.

Contact: Gillian Ostrum, Clerk Typist 2, 570-830-3077.

Monroe County Conservation District, 8050 Running Valley Road, Stroudsburg, PA 18347, 570-629-3060.

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water / Use*
PAD450090	Lovelight Enterprises, LP 100 Gymnastics Way Stroudsburg, PA 18360	Monroe	Jackson Township	UNT to Rocky Run HQ-CWF
PAD450088	Franconia Mennonite Camp Association (Spruce Lake Retreat) 5389 Route 447 Canadensis, PA 18325	Monroe	Barrett Township	UNT to Middle Branch-Brodhead Creek (HQ-CWF, MF)

Northampton County Conservation District, 14 Gracedale Ave., Greystone Building, Nazareth, PA 18064-9211, 610-829-6276.

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water / Use*
PAD480115	Kay Builders LLC c/o Mr. Rick Koze 5930 Hamilton Boulevard Wescosville, PA 18106-9654	Northampton	Bushkill Township	UNT to Bushkill Creek (HQ-CWF, MF) & Schoeneck Creek (WWF)

Wayne Conservation District, 648 Park St, Honesdale, PA 18431, 570-253-0930.

NPDES Permit No.	*Applicant Name & Address*	*County*	*Municipality*	*Receiving Water / Use*
PAD640018	UGI Utilities, Inc. 1 UGI Drive Denver, PA 17517-9039	Wayne	Waymart Borough and Canaan Township	Van Auken Creek (HQ-TSF, MF)
PAD640017	Honesdale DG, LLC 361 Summit Boulevard Suite 110 Birmingham, AL 3524-3167	Wayne	Lebanon Township	Big Brook (EV, MF)

VII. Approvals to Use NPDES and/or Other General Permits.

The EPA Region III Administrator has waived the right to review or object to this permit action under the waiver provision 40 CFR 123.23(d).

List of NPDES and/or Other General Permit Types.

PAG-01	General Permit for Discharges for Stormwater Discharges Associated with Small Construction Activities.
PAG-02	General Permit for Discharges of Stormwater Associated with Construction Activities

PAG-03	General Permit for Discharges of Stormwater from Industrial Activities
PAG-04	General Permit for Discharges from Small Flow Treatment Facilities
PAG-05	General Permit for Discharges from Petroleum Product Contaminated Groundwater Remediation Systems
PAG-06	General Permit for Wet Weather Overflow Discharges from Combined Sewer Systems (CSO)
PAG-07	General Permit for Beneficial Use of Exceptional Quality Sewage Sludge by Land Application
PAG-08	General Permit for Beneficial Use of Non-Exceptional Quality Sewage Sludge by Land Application to Agricultural Land, Forest, a Public Contact Site or a Land Reclamation Site
PAG-08 (SSN)	Site Suitability Notice for Land Application Under Approved PAG-08 General Permit Coverage
PAG-09	General Permit for Beneficial Use of Residential Septage by Land Application to Agricultural Land, Forest, or a Land Reclamation Site
PAG-09 (SSN)	Site Suitability Notice for Land Application Under Approved PAG-09 General Permit Coverage
PAG-10	General Permit for Discharges from Hydrostatic Testing of Tanks and Pipelines
PAG-11	General Permit for Discharges from Aquatic Animal Production Facilities
PAG-12	Concentrated Animal Feeding Operations (CAFOs)
PAG-13	Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4)
PAG-14	(To Be Announced)
PAG-15	General Permit for Discharges from the Application of Pesticides

General Permit Type—PAG-02

Contact: Aaron Redmond, Management Technician, 484.250.5821.

Permit No.	*Facility Location: Municipality & County*	*Applicant Name & Address*	*Receiving Water/Use*	*Contact Office & Phone No.*
PAC510132	City of Philadelphia Philadelphia County	Posh Properties 2216 Willow Park Road Bethlehem, PA 18020-4251	Poquessing Creek WWF-MF	Southeast Regional Office 2 East Main Street Norristown, PA 19401 484-250-5900
PAC510139	City of Philadelphia Philadelphia County	Blake Development Corporation 1300 Bethlehem Pike Suite 21 Flourtown, PA 19031	Wissahickon Creek TSF-MF	Southeast Regional Office 2 East Main Street Norristown, PA 19401 484-250-5900

Northeast Region: Watershed Management Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790, 570-826-2511.

Contact: Gillian Ostrum, Clerk Typist 2, 570-830-3077.

Permit No.	*Facility Location: Municipality & County*	*Applicant Name & Address*	*Receiving Water/Use*	*Contact Office & Phone No.*
PAC480089 Authorization/ Issuance	Bethlehem City Northampton County	Bethlehem Parking Authority 85 W North St. Bethlehem, PA 18018	Lehigh River (WWF, MF)	Northampton County Conservation District 14 Gracedale Ave Greystone Building Nazareth, PA 18064-9211 610-829-6276
PAC540082 Authorization/ Issuance	W Brunswick Twp Schuylkill County	Metz Properties LLC 513 W Pheasant Run Rd Orwigsburg, PA 17961	Pine Creek (CWF, MF)	Schuylkill Conservation District 1206 AG Center Drive Pottsville, PA 17901-9733 570-622-3742

Southcentral Region: Waterways & Wetlands Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Nathan Phillips, Section Chief, 717.705.4802.

Permit No.	*Facility Location: Municipality & County*	*Applicant Name & Address*	*Receiving Water/Use*	*Contact Office & Phone No.*
PAC070069 Issued	Blair Township Blair County	John Salyards 209 Cherry Blossom Lane Hollidaysburg, PA 16648	Frankstown Branch Juniata River (WWF)	Blair County Conservation District 1407 Blair Street Hollidaysburg, PA 16648 814.696.0877, ext. 5
PAC210183 Issued	Lower Allen Township New Cumberland Borough Cumberland County	Sheetz, Inc. 5700 Sixth Avenue Altoona, PA 16602-1111	Yellow Breeches Creek (CWF, MF)	Cumberland County Conservation District 310 Allen Road Suite 301 Carlisle, PA 17013-9101 717.240.7812
PAC340021 Issued	Walker Township Juniata County	Brett Wagner 631 Miller Hill Road Mifflintown, PA 17059	Doe Run (TSF, MF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5
PAC340023 Issued	Delaware Township Juniata County	Maple Lawn Associates 2505 Black Dog Road McAlisterville, PA 17049	UNT Cocolamus Creek (WWF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5
PAC340022 Issued	Monroe Township Juniata County	Neimond's Independent Church 36964 Route 35 Richfield, PA 17086	West Branch Mahantango Creek (TSF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5
PAC340024 Issued	Fermanagh Township Juniata County	Michael Cleck 1274 William Penn Highway Mifflintown, PA 17059	Juniata River (WWF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5
PAC340025 Issued	Delaware Township Juniata County	Harry Minium 689 Guyer Road Thompsontown, PA 17094	UNT Cocolamus Creek (WWF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5

Permit No.	*Facility Location: Municipality & County*	*Applicant Name & Address*	*Receiving Water/Use*	*Contact Office & Phone No.*
PAC340026 Issued	Walker Township Juniata County	Levon Zimmerman 11653 William Penn Highway Thompsontown, PA 17094	UNT Locust Run (CWF, MF)	Juniata County Conservation District 146 Stoney Creek Drive Suite 4 Mifflintown, PA 17059-8709 717.436.8953, ext. 5
PAC360480 Issued	Manheim Township Lancaster County	Benjamin Kauffman 518 East Conestoga Street New Holland, PA 17557	Conestoga River (WWF, MF)	Lancaster County Conservation District 1383 Arcadia Road Room 200 Lancaster, PA 17601-3149 717.299.5361, ext. 5
PAC360494 Issued	Mount Joy Borough Lancaster County	George Desmond 1085 Manheim Pike Lancaster, PA 17601	UNT Donegal Creek (CWF, MF)	Lancaster County Conservation District 1383 Arcadia Road Room 200 Lancaster, PA 17601-3149 717.299.5361, ext. 5
PAC360448 Issued	East Hempfield Township Lancaster County	City of Lancaster 120 North Duke Street Lancaster, PA 17608	UNT West Branch Little Conestoga Creek (TSF, MF)	Lancaster County Conservation District 1383 Arcadia Road Room 200 Lancaster, PA 17601-3149 717.299.5361, ext. 5
PAC670328 Issued	Windsor Township York County	Bowser Dentistry Brian Bowser DMD 2161 East Market St York, PA 17402	UNT Mill Creek (CWF)	York County Conservation District 2401 Pleasant Valley Road Suite 101 Room 139 York, PA 17402 717.840.7430

Northcentral Region: Watershed Management Program Manager, 208 West Third Street, Williamsport, PA 17701.

Permit No.	*Facility Location: Municipality & County*	*Applicant Name & Address*	*Receiving Water/Use*	*Contact Office & Phone No.*
PAC170035	Decatur Twp Clearfield Cnty	Grandview Terrace One, LP P.O. Box 163 Curwensville, PA 16833	UNT to Laurel Run CWF	Clearfield County Conservation District 511 Spruce St Ste 6 Clearfield, PA 16830 (814) 765-2629

Southwest Region: Dana Drake, Waterways and Wetlands Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222, Dana Drake, Waterways and Wetlands Program Manager, 412-442-4000.

Facility Location and Municipality	*Permit No.*	*Applicant Name and Address*	*Receiving Water/Use*	*Contact Office and Phone No.*
Cambria Township Cambria County	PAC110048	Foster F. Wineland, Inc. 2519 Cove Mountain Road Martinsburg, PA 16662	Howell Run (CWF)	Cambria County Conservation District 401 Candlelight Drive Suite 229 Ebensburg, PA 15931 (814) 472-2120

Facility Location and Municipality	*Permit No.*	*Applicant Name and Address*	*Receiving Water / Use*	*Contact Office and Phone No.*
Aleppo Township Greene County	PAC300032	Rice Drilling B, LLC 2400 Ansys Drive Suite 200 Canonsburg, PA 15317	Mudlick Fork (TSF); UNT to South Fork Dunkard Fork (TSF); South Fork Dunkard Fork (TSF)	Greene County Conservation District 22 West High Street Suite 204 Waynesburg, PA 15370 (724) 852-5278
Garrett Borough; Brothersvalley Township; Summit Township Somerset County	PAC560023	Somerset County 300 North Center Avenue Somerset, PA 15501	Buffalo Creek (CWF)	Somerset County Conservation District 6024 Glades Pike Suite 103 Somerset, PA 15501 (814) 289-4250

Northwest Region: Waterways & Wetlands Program, 230 Chestnut Street, Meadville, PA 16335-3481.

Facility Location: Municipality & County	*Permit No.*	*Applicant Name & Address*	*Receiving Water / Use*	*Contact Office & Phone No.*
Girard Township Erie County	PAC250082	Country Gardens Mobile Homes & Storage 2500 Nursery Road Lake City, PA 16423	UNT Lake Erie CWF	Erie County Conservation District 1927 Wager Road Erie, PA 16509 814-825-6403
Millcreek Township Erie County	PAC250079	Verizon North, LLC 40 South Mercer Street New Castle, PA 16101	Lake Erie CWF, Presque Isle Bay WWF	Erie County Conservation District 1927 Wager Road Erie, PA 16509 814-825-6403

General Permit Type—PAG-10

Facility Location Municipality & County	*Permit No.*	*Applicant Name & Address*	*Receiving Water / Use*	*Contact Office & Phone No.*
Loyalhanna Township, Westmoreland County Burrell Township, Indiana County Cresson Township, Cambria County	PAG109624	Sunoco Pipeline LP 535 Fritztown Road Sinking Spring, PA 19608	Loyalhanna Creek (WWF), Conemaugh River (WWF), Unnamed Tributary to Blacklick Creek (CWF), Unnamed Tributary to Weirs Run (CWF), Burgoon Run (CWF), Unnamed Tributary to Bear Rock Run (CWF)—18-E, 18-D, and 18-C	Bureau of Clean Water P.O. Box 8774 Harrisburg, PA 17105 717.787.5017

PUBLIC WATER SUPPLY PERMITS

The Department has taken the following actions on applications received under the Pennsylvania Safe Drinking Water Act (35 P.S. §§ 721.1—721.17) for the construction, substantial modification or operation of a public water system.

Persons aggrieved by an action may appeal that action to the Environmental Hearing Board (Board) under section 4 of the Environmental Hearing Board Act and 2 Pa.C.S. §§ 501—508 and 701—704. The appeal should be sent to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, (717) 787-3483. TDD users may contact the Board through the Pennsylvania AT&T Relay Service, (800) 654-5984. Appeals must be filed with the Board within 30 days of publication of this notice in the *Pennsylvania Bulletin* unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at (717) 787-3483. This paragraph does not, in and of itself, create a right of appeal beyond that permitted by applicable statutes and decisional law.

For individuals who wish to challenge an action, the appeal must reach the Board within 30-days. A lawyer is not needed to file an appeal with the Board.

Important legal rights are at stake, however, so individuals should show this document to a lawyer at once.

Persons who cannot afford a lawyer may qualify for free pro bono representation. Call the Secretary to the Board at (717) 787-3483 for more information.

SAFE DRINKING WATER

Actions taken under the Pennsylvania Safe Drinking Water Act (35 P.S. §§ 721.1—721.17).

Northeast Region: Watershed Management Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790, 570-826-2511.

Contact: Melissa Seidler, Clerk Typist 2, 570-830-3048.

Permit No. 3390817-E1, Operations Permit, Public Water Supply.

Applicant	**Yocco's, Inc.** **(Yocco's South Restaurant)** 16 East Minor Street Emmaus, PA 18049
Borough or Township	Upper Milford Township
County	**Lehigh**
Type of Facility	PWS
Consulting Engineer	Mr. Thomas G. Pullar, P.E. Senior Project Manager Earthres Group, Inc. P.O. Box 468 Pipersville, PA 18947
Permit to Operate Issued	January 15, 2020

Permit No. 1319503, Construction Permit, Public Water Supply.

Applicant	**Blue Heron Homeowner's Association c/o Preferred Management** P.O. Box 687 Moscow, PA 18444
Municipality	Kidder Township
County	**Carbon**
Type of Facility	Public Water Supply
Consulting Engineer	Russell D. Scott, IV, P.E. RKR Hess 112 North Courtland Street P.O. Box 268 East Stroudsburg, PA 18301
Permit to Construct Issued	December 20, 2019
Description of Action	Installation of a treatment system for corrosion control utilizing an ortho-polyphosphate blend and chemical feed system to abate elevated levels of Lead.

Permit No. 5219501, Construction Permit, Public Water Supply.

Applicant	**Aqua Pennsylvania, Inc.** 1775 North Main Street Honesdale, PA 18431
Municipality	Palmyra Township
County	**Pike**
Type of Facility	Public Water Supply
Consulting Engineer	Daniel Hopkins, P.E. Entech Engineering, Inc. 201 Penn Street Suite 3 P.O. Box 32 Reading, PA 19601
Permit to Construct Issued	December 18, 2019
Description of Action	Replacement of the existing Woodmont Water System well house with a new above ground well house.

Permit No. 4819505MA, Public Water Supply.

Applicant	**PA American Water Co**
Township and County	Upper Mount Bethel Twp **Northampton County**
Responsible Official	Mr. Bruce Alton 800 W Hershey Park Drive Hershey, PA 17033
Type of Facility	Public Water Supply
Consulting Engineer	Kurt Staller, P.E., PAWC 852 Wesley Drive Mechanicsburg, PA 17055
Permit Issued	January 21, 2020

Southcentral Region: Safe Drinking Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110.

Permit No. 2919503 MA, Minor Amendment, Public Water Supply.

Applicant	**McConnellsburg Borough Municipal Authority**
Municipality	Todd Township
County	**Fulton**
Responsible Official	Seleen Shives Chairperson P.O. Box 218 McConnellsburg, PA 17233
Type of Facility	Replacement of the existing Memcor XP L10V modules in Filter Nos. 3 and 4 with Memcor XP L10N modules.
Consulting Engineer	Jamie R. Shambaugh, P.E. Gannett Fleming, Inc. P.O. Box 67100 Harrisburg, PA 17106-7100
Permit to Construct Issued	January 29, 2020

Permit No. 2119516, Public Water Supply.

Applicant	**Jaymee Lee's Quick Stop LLC**
Municipality	Lower Mifflin Township
County	**Cumberland**
Responsible Official	Richard N. Walker Sr. Owner 348 Doubling Gap Road Newville, PA 17241
Type of Facility	The installation of a new well source of supply with iron and manganese treatment, hardness and UV disinfection.

Consulting Engineer	Craig J. Zack, P.E. KPI Technology 143 Carlisle Street Gettysburg, PA 17325
Permit to Construct Issued	January 22, 2020

Permit No. 0619518 MA, Minor Amendment, Public Water Supply.

Applicant	**Leesport Borough Water Authority**
Municipality	Leesport Borough
County	**Berks**
Responsible Official	Sandra Weiser-Pascavage Borough Manager 27 Canal Street P.O. Box 710 Leesport, PA 19533
Type of Facility	Installation of a flow control valve and additional equipment at Well No. 3 to ensure the maximum instantaneous flow rate is not exceeded and 4-log treatment of viruses is achieved.
Consulting Engineer	Jamie Lorah, P.E. Spotts Stevens & McCoy 1047 North Park Road Reading, PA 19610
Permit to Construct Issued	January 28, 2020

Permit No. 2920501 MA, Minor Amendment, Public Water Supply.

Applicant	**McConnellsburg Borough Municipal Authority**
Municipality	McConnellsburg Borough
County	**Fulton**
Responsible Official	Seleen Shives Chairperson P.O. Box 218 McConnellsburg, PA 17233
Type of Facility	The Authority will replace approximatley 5,300 LF of 6″ unlined cast iron waterline along Lincoln Way (SR 0016) with 12″ and 8″ diameter cement lined ductile iron pipe.
Consulting Engineer	Jamie R. Shambaugh, P.E. Gannett Fleming, Inc. P.O. Box 67100 Harrisburg, PA 17106-7100
Permit to Construct Issued	January 28, 2020

Permit No. 3119509 MA, Minor Amendment, Public Water Supply.

Applicant	**Pure Events LP**
Municipality	Lincoln Township
County	**Huntingdon**
Responsible Official	Josh Patt, Partner 100 Chipmunk Crossing Entriken, PA 16638
Type of Facility	Installation of new flow meter and turbidimeters and approval of previously completing filter media replacement and tank repainting.
Consulting Engineer	David M. Cunningham, P.E. Keller Engineers, Inc. 420 Allegheny Street Hollidaysburg, PA 16648
Permit to Construct Issued	January 17, 2020

Operation Permit No. 0519504 MA issued to: **Municipal Authority of The Borough of Bedford (PWS ID No. 4050002)**, Bedford Borough, **Bedford County** on January 17, 2020 for facilities approved under Construction Permit No. 0519504 MA.

Operation Permit No. 3619528 MA issued to: **Manheim Area Water and Sewer Authority (PWS ID No. 7360078)**, Manheim Borough, **Lancaster County** on January 17, 2020 for facilities approved under Construction Permit No. 3619528 MA.

Operation Permit No. 0519505 MA issued to: **New Enterprise Water Association (PWS ID No. 4050033)**, South Woodbury Township, **Bedford County** on January 28, 2020 for facilities submitted under Application No. 0519505 MA.

Operation Permit No. 3619533 MA issued to: **Weaverland Valley Authority (PWS ID No. 7360119)**, Terre Hill Borough, **Lancaster County** on January 30, 2020 for facilities approved under Construction Permit No. 3619533 MA.

Operation Permit No. 2219506 issued to: **Susquehanna Area Regional Airport Authority (PWS ID No. 7220044)**, Lower Swatara Township, **Dauphin County** on January 10, 2020 for facilities at Harrisburg International Airport approved under Construction Permit No. 2219506.

Operation Permit No. 3619514 issued to: **Creekside Café (PWS ID No. 7361092)**, Rapho Township, **Lancaster County** on January 29, 2020 for facilities approved under Construction Permit No. 3619514.

Northcentral Region: Safe Drinking Water Program Manager, 208 West Third Street, Suite 101, Williamsport, PA 17701-6448.

Permit No. 1920501—Operation—Public Water Supply.

Applicant	**Benton Foundry**
Township/Borough	Sugarloaf Township
County	**Columbia County**
Responsible Official	Mr. Kevin J. Trychta Benton Foundry 5297 State Route 487 Benton, PA 17814
Type of Facility	Public Water Supply—Operation
Consulting Engineer	Mr. Tyler Harline, E.I.T. Mid-Penn Engineering Corporation 2049 West Market St. Lewisburg, PA 17837

Permit Issued	January 27, 2020
Description of Action	Authorizes a 4-Log inactivation of viruses for Well No. 1 (Entry Point 101) at Benton Foundry, including an existing 20-gpm well pump, pressure tank, flow meter, sodium hypochlorite disinfection tank, a 4,000-gallon unbaffled storage tank, a Peristaltic Chemical feed pump, a pump control module (PCM), a 1-inch stainless check valve upstream of the injection point, 1-inch PVC tubing and a heat conditioned room to maintain water temperature at 5.0° Celsius or higher.

Permit No. 6019501—Construction—Public Water Supply.

Applicant	**Shady Grove Christian School**
Township/Borough	Buffalo Township
County	**Union County**
Responsible Official	Mr. David Troyer Shady Grove Christian School 124 Turkey Run Road Mifflinburg, PA 17844
Type of Facility	Public Water Supply—Construction
Consulting Engineer	Mr. Joseph Hunt, P.E. JHA Companies 466 S Main Street Montrose, PA 18801
Permit Issued	January 28, 2020
Description of Action	Authorizes construction of new treatment facilities for the existing nontransient noncommunity public water system at Shady Grove Christian School. This approval includes Well No. 1 as a source of supply; the transmission line; one hydropneumatic tank; ferric chloride, and sodium hypochlorite chemical feed systems; three 120-gallon detention tanks; one, dual-tank, arsenic-removal system; one, dual-tank, softening system; 6-gpm flow restrictor; inline static mixer; 5-micron sediment-removal filter; and the distribution system.

Permit No. 1719505MA—Construction—Public Water Supply.

Applicant	**Huston Township Water Authority**
Township/Borough	Huston Township
County	**Clearfield County**
Responsible Official	Ms. Nellie Bundy Huston Township Water Authority 11837 Bennetts Valley Hwy Suite 2 Penfield, PA 15849
Type of Facility	Public Water Supply—Construction
Consulting Engineer	Mr. Christopher Wharton, P.E. Gibson-Thomas Engineering Company, Inc. 1004 Ligonier Street P.O. Box 853 Latrobe, PA 15650
Permit Issued	January 28, 2020
Description of Action	Authorizes the authority to install 4 new meter vaults throughout the Authority's system to help monitor water loss in the distribution system in Huston Township, Clearfield County.

Permit No. 0818502—Partial Operation— Public Water Supply.

Applicant	**Towanda Municipal Authority**
Township/Borough	North Towanda Township
County	**Bradford County**
Responsible Official	Ms. Michael Walsh, Chairman Towanda Municipal Authority 724 Main Street Towanda, PA 18848
Type of Facility	Public Water Supply—Operation
Consulting Engineer	Mr. Brian D. Shura Stiffler McGraw and Associates, Inc. 1731 N. Juniata Street Hollidaysburg, PA 16648
Permit Issued	January 30, 2020
Description of Action	Authorizes Towanda Municipal Authority to (1) operate the new 106,031-gallon, water-storage tank with submersible mixer and trihalomethane removal system, new transmission main and two 30 HP vertical, multistage centrifugal pumps, and (2) remove horizontal booster pumps from McEwen Road booster pump station and install an 8″ magnetic flow meter.

Permit No. 1419501—Construction & Operation— Public Water Supply.

Applicant	**Penn's Cave, Inc.**
Township/Borough	Gregg Township
County	**Centre County**
Responsible Official	Mr. Russell Schleiden Penn's Cave, Inc. 222 Penn's Cave Road Centre Hall, PA 16828

Type of Facility	Public Water Supply—Construction & Operation
Consulting Engineer	Mr. David M. Cunningham, Jr., P.E. Keller Engineers, Inc. 420 Allegheny Street Hollidaysburg, PA 16648
Permit Issued	January 30, 2020
Description of Action	Approves Seasonal Operation of Penn's Cave Water System and installation of a new final filter, Hamsco HC/170-LT2. Permission to use the old final filter, Harmsco PP HC 170-1 is hereby rescinded.

Southwest Region: Safe Drinking Water Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Permit No. 2619510, Major Amendment. Public Water Supply.

Applicant	**Pennsylvania American Water Company** 852 Wesley Drive Mechanicsburg, PA 17055
Borough or Township	North Union Township
County	**Fayette**
Type of Facility	High Street Booster Station
Consulting Engineer	Gwin, Dobson & Foreman, Inc. 3121 Fairway Drive Altoona, PA 16602
Permit Issued	January 23, 2020

Permit No. 0219544, Major Amendment. Public Water Supply.

Applicant	**Pennsylvania American Water Company** 852 Wesley Drive Mechanicsburg, PA 17055
Borough or Township	Peters Township
County	**Washington**
Type of Facility	Snowberry Booster Station
Consulting Engineer	Pennsylvania American Water Company 852 Wesley Drive Mechanicsburg, PA 17055
Permit Issued	January 26, 2020

Operations Permit issued to: **Creswell Heights Joint Water Authority**, 3961 Jordan Street, South Heights, PA 15081, **PWSID No. 5040063**, Moon Township, **Allegheny County** on January 26, 2020 for the operation of facilities approved under permit # 0418518-EI for the emergency interconnection designation at the Purdy Road Interconnection.

Operations Permit issued to: **Coraopolis Water and Sewer Authority**, 1301 4th Avenue, Coraopolis, PA 15108, **PWSID No. 5020010**, Coraopolis Borough, **Allegheny County** on January 24, 2020 for the operation of facilities approved under permit # 0218502MA for the final clearwell rehabilitation.

Operations Permit issued to: **Edgeworth Water Authority**, 313 Beaver Street, Sewickley, PA 15143, **PWSID No. 5020015**, Edgeworth Borough, **Allegheny County** on January 26, 2020 for the operation of facilities approved under permit # 0209510MA-EI for the emergency interconnection designation at the Sewickley-Edgeworth Interconnection.

Operations Permit issued to: **Fox Chapel Authority**, 255 Alpha Drive, Pittsburgh, PA 15238, **PWSID No. 5020040**, Harmar Township, **Allegheny County** on January 23, 2020 for the operation of facilities approved under permit # 0212522MA-EI for the emergency interconnection designation at the Fox Chapel-Harmar Interconnection.

Operations Permit issued to: **Fox Chapel Authority**, 255 Alpha Drive, Pittsburgh, PA 15238, **PWSID No. 5020040**, O-Hara Township, **Allegheny County** on January 23, 2020 for the operation of facilities approved under permit # 0292511MA-EI for the emergency interconnection designation at the Fox Chapel-Hampton Shaler Interconnection.

Operations Permit issued to: **Monaca Borough Water Department**, 928 Pennsylvania Avenue, Monaca, PA 15061, **PWSID No. 5040039**, Monaca Borough, **Beaver County** on January 23, 2020 for the operation of facilities approved under permit # 0402504-EI for the emergency interconnection designation at the Center Interconnection.

Operations Permit issued to: **Monaca Borough Water Department**, 928 Pennsylvania Avenue, Monaca, PA 15061, **PWSID No. 5040039**, Monaca Borough, **Beaver County** on January 23, 2020 for the operation of facilities approved under permit # 8744W-R for the reserve source designation for Well # 12.

Operations Permit issued to: **Southwestern Pennsylvania Water Authority**, P.O. Box 187, 1442 Jefferson Road, Jefferson, PA 15344, **PWSID No. 5300017**, Cumberland and Monongahela Townships; and Greensboro Borough, **Greene County** on January 25, 2020 for the operation of facilities approved under permit # 3017512 for the chemical feed system at the Dunkard Valley System extension.

Operations Permit issued to: **Southwestern Pennsylvania Water Authority**, P.O. Box 187, 1442 Jefferson Road, Jefferson, PA 15344, **PWSID No. 5300017**, Whiteley Township, **Greene County** on January 27, 2020 for the operation of facilities approved under permit # 3017508 for a PAX mixer and power vent at the Whiteley water storage tank.

Operations Permit issued to: **Southwestern Pennsylvania Water Authority**, P.O. Box 187, 1442 Jefferson Road, Jefferson, PA 15344, **PWSID No. 5300017**, Cumberland Township, **Greene County** on January 27, 2020 for the operation of facilities approved under permit # 3017509 for a PAX mixer and power vent at the Nemacolin water storage tank.

Operations Permit issued to: **Hampton Shaler Water Authority**, P.O. Box 66, 3101 McCully Road, Allison Park, PA 15101, **PWSID No. 5020019, Allegheny County** on January 27, 2020 for the operation of facilities approved under permit # 0218541-C1 for the designation of water quality performance requirements.

Operations Permit issued to: **Borough of Conway**, 801 First Avenue, Conway, PA 15027, **PWSID No. 5040022**, Conway Borough, **Beaver County** on January 31, 2020 for the operation of facilities approved under permit # 0406504-EI for the emergency designation of the AWA Emergency Interconnection.

Operations Permit issued to: **Torrance State Hospital**, 121 Longview Drive, Torrance, PA 15779, **PWSID**

No. 5650036, Derry Township, **Westmoreland County** on January 25, 2020 for the operation of facilities approved under permit # 6503501-EI for the emergency designation of the Torrance-Highridge Interconnection.

Operations Permit issued to: **West View Water Authority**, 210 Perry Highway, Pittsburgh, PA 15229, **PWSID No. 5020043**, Kennedy Township, **Allegheny County** on January 31, 2020 for the operation of facilities approved under permit # 0213503MA-EI for the emergency designation of the Lorish Road Interconnection.

Operations Permit issued to: **West View Water Authority**, 210 Perry Highway, Pittsburgh, PA 15229, **PWSID No. 5020043**, City of Pittsburgh, **Allegheny County** on January 31, 2020 for the operation of facilities approved under permit # 0219534-EI for the emergency designation of the West Carson Street Interconnection.

Operations Permit issued to: **West View Water Authority**, 210 Perry Highway, Pittsburgh, PA 15229, **PWSID No. 5020043**, City of Pittsburgh, **Allegheny County** on January 31, 2020 for the operation of facilities approved under permit # 0219532-EI for the emergency designation of the Rodenbaugh Avenue Interconnection.

Operations Permit issued to: **West View Water Authority**, 210 Perry Highway, Pittsburgh, PA 15229, **PWSID No. 5020043**, City of Pittsburgh, **Allegheny County** on January 31, 2020 for the operation of facilities approved under permit # 0219533-EI for the emergency designation of the Ivory Avenue/McKnight Road Interconnection.

SEWAGE FACILITIES ACT PLAN DISAPPROVAL

Plan Disapprovals Granted Under the Pennsylvania Sewage Facilities Act, Act of January 24, 1966, P.L. 1535, as amended, 35 P.S. § 750.5.

Southcentral Region: Water Management Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110.

Plan Location:

Borough or Township	*Borough or Township Address*	*County*
Centre Township	2971 Cold Storage Road New Bloomfield, PA 17068	Perry

Plan Description: The planning module for Joe Burget Jr. & Daniel Paul, DEP Code No. A3-50906-294-2E, APS ID 1009935, consisting of seven single-family residential lots, is disapproved. The proposed development is located at Shermans Valley Road. The submission does not qualify as an exception from the requirement to revise the Official Plan because the submission does not qualify as an exemption from the requirement to revise the Official Plan because the subdivision proposes the use of onlot sewage disposal systems in an area within 1/4 mile of water supplies documented to exceed 5 PPM nitrate-nitrogen as per Chapter 71, § 71.51(b)(1)(ii), and the submission does not qualify as an exemption from the requirement to revise the Official Plan because the subdivision proposes the use of onlot sewage disposal systems in an area underlain by carbonate geology as per Chapter 71, § 71.51(b)(1)(ii).

Plan Location:

Borough or Township	*Borough or Township Address*	*County*
Strasburg Township	400 Bunker Hill Rd. Strasburg, PA 17579	Lancaster

Plan Description: The planning module for the Elam King Deiter Road Subdivision (DEP Code No. A3-36952-226-2; APS ID No. 1010153) has been disapproved. The proposed development—to be located at 701 Deiter Road in Strasburg—consists of a second dwelling on an existing lot using an onlot sewage disposal system. This planning module has been disapproved because the submission did not include: a project narrative; a completed Project Review Form (PRF) and a return receipt for the PRF submission to the PHMC; an acceptable Pennsylvania Natural Diversity Inventory (PNDI) review (i.e. less than two years old); an Alternative Sewage Facilities Analysis; the soil testing results and "Verification of Prior Testing" form completed by the current certified local agency sewage enforcement officer (SEO). Additionally, Sections H, P, & R were not completed/signed by the required individuals.

Plan Location:

Borough or Township	*Borough or Township Address*	*County*
Rapho Township	971 N. Colebrook Road Manheim, PA 17545	Lancaster

Plan Description: The Act 537 Plan Special Study for Rapho Township, DEP Code No. C1-36948-ACT, for the PA Turnpike/Route 72 Planning Area is denied. The plan is denied because the applicant failed to submit adequate information necessary to address all of the technical deficiencies identified in DEP's October 10, 2019 letter. Those deficiencies that were not addressed are: The proposed alternative requires the cooperation of an outside party, Shree Punit LLC. The plan did not contain a commitment from Shree Punit LLC to implement the chosen alternative (Chapter 71, §§ 71.21(a)(5)(vi)(D) and 71.61(d)(2)); the proposed alternative requires an easement from an unnamed adjacent property owner to the Hampton Inn property. There was no easement agreement in the plan to confirm the ability to implement this alternative. (Chapter 71, §§ 71.21(a)(5)(vi)(D) and 71.61(d)(2)). Applicants must acquire express easements from affected property owners, over whose property the proposed discharge could flow prior to the point where the discharge will intersect the first perennial stream, for the flow of wastewater across their property. See Section V.G. of the Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers (391-2000-014); and the proposed use of an interim holding tank requires municipal financial assurances of the replacement project's implementation. No municipal financial assurances were provided in the plan. (Chapter 71, § 71.63(c)(2))

Plan Location:

Borough or Township	*Borough or Township Address*	*County*
Fannett Township	P.O. Box 40 Dry Run, PA 17220	Franklin

Plan Description: The planning module for Daniel & Mary Byler, DEP Code No. A3-28906-187-1, APS Id 1009828, consisting of one single-family residential lot, is disapproved. The proposed development is located at 18030 Path Valley Road, Spring Run, PA 17262. The submission does not qualify as an exception from the requirement to revise the Official Plan because the subdivision proposes the use of onlot sewage disposal systems in an area of the municipality where the Official Plan designates that area as an existing or future public sewer service area as per Chapter 71, § 71.51(b)(1)(i), and

the submission does not qualify as an exception from the requirement to revise the Official Plan because the subdivision proposes the use of onlot sewage disposal systems in an area within 1/4 mile of water supplies documented to exceed 5 PPM nitrate-nitrogen as per Chapter 71, § 71.51(b)(1)(ii). The area is also underlain by carbonate geology. Fannett Township's Act 537 plan requires a Component 2 planning module and a preliminary hydrogeologic study in areas underlain by carbonate geology and where water supplies are documented to exceed 5 PPM nitrate-nitrogen.

LAND RECYCLING AND ENVIRONMENTAL REMEDIATION

UNDER ACT 2, 1995 PREAMBLE 2

The following plans and reports were submitted under the Land Recycling and Environmental Remediation Standards Act (35 P.S. §§ 6026.101—6026.908).

Provisions of Sections 301—308 of the Land Recycling and Environmental Remediation Standards Act (act) (35 P.S. §§ 6026.301—6026.308) require the Department to publish in the *Pennsylvania Bulletin* a notice of submission of plans and reports. A final report is submitted to document cleanup of a release of a regulated substance at a site to one of the act's remediation standards. A final report provides a description of the site investigation to characterize the nature and extent of contaminants in environmental media, the basis for selecting the environmental media of concern, documentation supporting the selection of residential or nonresidential exposure factors, a description of the remediation performed and summaries of sampling analytical results which demonstrate that remediation has attained the cleanup standard selected. Submission of plans and reports, other than the final report, will also be published in the *Pennsylvania Bulletin*. These include the remedial investigation report, risk assessment report and cleanup plan for a site-specific standard remediation. A remedial investigation report includes conclusions from the site investigation; concentration of regulated substances in environmental media; benefits of reuse of the property; and, in some circumstances, a fate and transport analysis. If required, a risk assessment report describes potential adverse effects caused by the presence of regulated substances. If required, a cleanup plan evaluates the abilities of potential remedies to achieve remedy requirements.

For further information concerning plans or reports, contact the environmental cleanup program manager in the Department regional office under which the notice of receipt of plans or reports appears. If information concerning plans or reports is required in an alternative form, contact the community relations coordinator at the appropriate regional office. TDD users may telephone the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

The Department has received the following plans and reports:

Southeast Region: Environmental Cleanup & Brownfields Program Manager, 2 East Main Street, Norristown, PA 19401.

Academy of the New Church, 1400 Byberry Road, Lower Morland Township, **Montgomery County**. Mark Fortna, DelVal Soil & Environmental Consultants, Inc., 4050 Skyron Drive, Doylestown, PA 18902 on behalf of Michael A. Downs, PE, Toll Brothers, Inc., 250 Gibraltar Road, Horsham, PA 19044 submitted a Final Report concerning remediation of site soil contaminated with PAHs. The report is intended to document remediation of the site to meet the Site-Specific Standard.

NW Controls Property, 2210 Shelly Road, Upper Salford Township, **Montgomery County**. Terence A. O'Reilly, PG, Tristate Environmental Management Service Inc., 368 Dunksferry Road, Bensalem, PA 19020 on behalf of c/o Keith Miller/Guardian for Karl Ifert, Acom Fund LLC, 6 Kendra Court, Ridgefield, CT 06877 submitted a Remedial Investigation Report/Cleanup Plan concerning remediation of site soils and groundwater contaminated with trichloroethene, tetrachloroethene and other related compounds. The report is intended to document remediation of the site to meet the Site-Specific Standard.

Northeast Region: Environmental Cleanup & Brownfields Program Manager, 2 Public Square, Wilkes-Barre, PA 18701-1915, 570-826-2511.

M&D Realty Group Property (former Northern Electric Railway/Philadelphia Transformer), 1100 Lackawanna Trail, Dalton Borough, **Lackawanna County**. LaBella Associates, 1000 Dunham Drive, Suite B, Dunmore, PA 18512, on behalf of M&D Realty Group LLC, 1006 Sunset Avenue, Clarks Summit, PA 18411, submitted a combined Remedial Investigation Report and Cleanup Plan concerning remediation of soil and groundwater contaminated with PCBs, VOCs, and SVOCs from leaking transformers that were stored at the site. The report is intended to document remediation of the site to meet Site-Specific Standards.

Roehrich Property, 970 Vine Street, Macungie Borough, **Lehigh County**. Moonstone Environmental, 1150 Glenlivet Drive, Suite A23, Allentown, PA 18106, on behalf of Christian Roehrich, 970 Vine Street, Macungie, PA 18062, submitted a final report concerning remediation of soil contaminated by a release of kerosene from an aboveground storage tank. The report is intended to document remediation of the site to meet Statewide Health Standards.

LAND RECYCLING AND ENVIRONMENTAL REMEDIATION

UNDER ACT 2, 1995 PREAMBLE 3

The Department has taken action on the following plans and reports under the Land Recycling and Environmental Remediation Standards Act (35 P.S. §§ 6026.101—6026.907).

Section 250.8 of 25 Pa. Code and administration of the Land Recycling and Environmental Remediation Standards Act (act) require the Department to publish in the *Pennsylvania Bulletin* a notice of its final actions on plans and reports. A final report is submitted to document cleanup of a release of a regulated substance at a site to one of the remediation standards of the act. A final report provides a description of the site investigation to characterize the nature and extent of contaminants in environmental media, the basis of selecting the environmental media of concern, documentation supporting the selection of residential or nonresidential exposure factors, a description of the remediation performed and summaries of sampling methodology and analytical results which demonstrate that the remediation has attained the cleanup standard selected. Plans and reports required by the act

for compliance with selection of remediation to a site-specific standard, in addition to a final report, include a remedial investigation report, risk assessment report and cleanup plan. A remedial investigation report includes conclusions from the site investigation; concentration of regulated substances in environmental media; benefits of reuse of the property; and, in some circumstances, a fate and transport analysis. If required, a risk assessment report describes potential adverse effects caused by the presence of regulated substances. If required, a cleanup plan evaluates the abilities of potential remedies to achieve remedy requirements. A work plan for conducting a baseline remedial investigation is required by the act for compliance with selection of a special industrial area remediation. The baseline remedial investigation, based on the work plan, is compiled into the baseline environmental report to establish a reference point to show existing contamination, describe proposed remediation to be done and include a description of existing or potential public benefits of the use or reuse of the property. The Department may approve or disapprove plans and reports submitted. This notice provides the Department's decision and, if relevant, the basis for disapproval.

For further information concerning the plans and reports, contact the environmental cleanup program manager in the Department regional office under which the notice of the plan or report appears. If information concerning a final report is required in an alternative form, contact the community relations coordinator at the appropriate regional office. TDD users may telephone the Department through the Pennsylvania AT&T Relay Service at (800) 654-5984.

The Department has received the following plans and reports:

Southeast Region: Environmental Cleanup Program Manager, 2 East Main Street, Norristown, PA 19401.

Tung Residence, 2776 Narcissa Road, Plymouth Township, **Montgomery County**. Richard D. Trimpi, Trimpi Associates, Inc., 1635 Old Plains Road, Pennsburg, PA 18073 on behalf of Andrea Gluch, State Farm Insurance, PA Fire Claims, P.O. Box 106169, Atlanta, GA 30348-6169 submitted a Final Report concerning the remediation of site soil and groundwater contaminated with petroleum. The Final Report demonstrated attainment of the Statewide Health Standard and was approved by the Department on January 27, 2020.

1115 West Gillam Avenue, 1115 West Gillam Avenue, Middletown Township, **Bucks County**. Richard S. Werner, Environmental Consulting, Inc., 2002 Renaissance Boulevard, Suite 110, King of Prussia, PA 19406 on behalf of Ruth Benek, Artcraft Machine & Tool Corporation, 653 Parmenter Road, Warminster, PA 18974 submitted a Final Report concerning the remediation of site soil contaminated with PAHs, VOCs, 1,2,4-TMB and 1,3,5-TMB. The Final Report demonstrated attainment of the Statewide Health Standard and was approved by the Department on January 13, 2020.

Trinity Church, 1212 Easton Road, Abington Township, **Montgomery County**. Jeremy W. Bolyn, Environmental Maintenance, 1420 East Mermaid Lane, Glenside, PA 19038 on behalf of John Riggs, Trinity Church, 1200 East Mermaid Lane, Abington, PA 19038 submitted a Final Report concerning the remediation of site soil contaminated with petroleum. The Final Report demonstrated attainment of the Statewide Health Standard and was approved by the Department on January 22, 2020.

Philadelphia Gun Club, 3051 State Road, Bensalem Township, **Bucks County**. Kevin Davis, PE, Pennoni Associates, Inc., 1900 Market Street, Suite 300, Philadelphia, PA 19103 on behalf of Dr. Bruce DiDonato, Philadelphia Gun Club, 3051 State Road, Eddington, PA 19020 submitted a Final Report concerning the remediation of site soil contaminated with metals. The Final Report demonstrated attainment of the site-specific standard and was approved by the Department on January 23, 2020.

100 Constitution Avenue, 100 Constitution Avenue, Upper Darby Township, **Delaware County**. Shad Manning, REPSG, Inc., 6901 Kingsessing Avenue, Suite 201, Philadelphia, PA 19142 on behalf of Robert Whalen, RW Partners, 630 West Germantown Pike, Suite 303, Plymouth Meeting, PA 19462 submitted a Final Report concerning the remediation of site soil and groundwater contaminated with No. 2 fuel oil. The Final Report demonstrated attainment of the Statewide Health Standard was approved by the Department on January 28, 2020.

Northeast Region: Environmental Cleanup & Brownfields Program Manager, 2 Public Square, Wilkes-Barre, PA 18701-1915, 570-826-2511.

Yvonne Well Pad, 452 Don Herman Road, Rush Township, **Susquehanna County**. Creston Environmental, P.O. Box 1373, Camp Hill, PA 17001, on behalf of Chesapeake Appalachia, 300 North Second Street, 5th Floor, Harrisburg, PA 17101, submitted a Final Report concerning remediation of soil contaminated by a release of diesel from an aboveground storage tank. The report documented remediation of the site to meet Statewide Health Standards and was approved by DEP on February 3, 2020.

M. Powers Pad 1, 6571 State Route 3004, Auburn Township, **Susquehanna County**. Resource Environmental Management, 50 Maple Street, Montrose, PA 18801, on behalf of Cabot Oil & Gas Corporation, 2000 Park Lane, Suite 300, Pittsburgh, PA 15275, submitted a Final Report concerning remediation of a release of diesel-based drilling fluid to the soil. The report documented remediation of the site to meet a combination of Background and Statewide Health Standards and was approved by DEP on February 3, 2020.

Barton Court Mobile Home Park, 117-200 Barton Court, Pocono Township, **Monroe County**. Trimpi Associates, 1635 Old Plains Road, Pennsburg, PA 18073, on behalf of Cyrill Rennels, 503 Shoemaker Road, Elkins Park, PA 19027, submitted a Final Report concerning remediation of soil contaminated by releases of heating oil from aboveground storage tanks. The report documented remediation of the site to meet Statewide Health Standards and was approved by DEP on February 3, 2020.

Southcentral Region: Environmental Cleanup and Brownfields Program Manager, Benjamin Stone-Thonus, 717-705-4705, 909 Elmerton Avenue, Harrisburg, PA 17110.

CSXT Hyndman Derailment Site, 119 & 127 Cleveland St; 122 & 131 Mill St; 288, 296 & 306 Schellsburg St, Hyndman, PA 15545, Hyndman Borough, **Bedford County**. ARCADIS, US, Inc., 10 Friends Lane, Suite 100, Newtown, PA 18940, on behalf of CSX Transportation, Inc., 1 Bell Crossings, Selkirk, NY 12158; Michael Baker, 122 Mill Street, Hyndman, PA 15545; Jessie Spiker, 131

Mill Street, Hyndman, PA 15545; Dorothy and Harvey Cook, 296 Schellsburg Street, Hyndman, PA 15545; Edward Kennell, 288 Schellsburg Street, Hyndman, PA 15545; Janet Ritchey, 306 Schellsburg Street, Hyndman, PA 15545; Fay E. Leydig, 127 Cleveland Street, Hyndman, PA 15545, and William Parry, 119 Cleveland Street, Hyndman, PA 15545, submitted a Final Report concerning remediation of site soil contaminated with sulfur and petroleum hydrocarbons released from a train derailment. The Final Report did not demonstrate attainment of the Residential Statewide Health Standard and was disapproved by the Department on January 30, 2020.

HAZARDOUS WASTE TRANSPORTER LICENSE

Actions on applications for Hazardous Waste Transporter License received under the Solid Waste Management Act of July 7, 1980 (P.L. 380, No. 97) (35 P.S. §§ 6018.101—6018.1003) and regulations to transport hazardous waste.

Central Office: Bureau of Land Recycling and Waste Management, Division of Hazardous Waste Management, P.O. Box 69170, Harrisburg, PA 17106-9170.

Renewal Applications Received

JMT Environmental Technologies, Inc., P.O. Box 22044, Lehigh Valley, PA 18002. License No. PA-AH 0648. Effective Jan 27, 2020.

Evoqua Water Technologies, LLC, 210 Sixth Ave, Pittsburgh, PA 15222. License No. PA-AH 0812. Effective Jan 30, 2020.

Hepaco, LLC, P.O. Box 26308, Charlotte, NC 28221. License No. PA-AH 0837. Effective Jan 29, 2020.

Transporter Licenses Reissued

JMT Environmental Technologies, Inc., P.O. Box 22044, Lehigh Valley, PA 18002. License No. PA-AH 0648. Effective Jan 27, 2020.

Evoqua Water Technologies, LLC, 210 Sixth Ave, Pittsburgh, PA 15222. License No. PA-AH 0812. Effective Jan 31, 2020.

Hepaco, LLC, P.O. Box 26308, Charlotte, NC 28221. License No. PA-AH 0837. Effective Jan 29, 2020.

REGULATED MEDICAL AND CHEMOTHERAPEUTIC WASTE TRANSPORTER LICENSES

Actions on applications for Regulated Medical and Chemotherapeutic Waste Transporter License received under the Solid Waste Management Act of July 7, 1980 (P.L. 380, No. 97) (35 P.S. §§ 6018.101—6018.1003) and Act 93 of June 28, 1988 (P.L. 525, No. 93) and regulations to transport regulated medical and chemotherapeutic waste.

Central Office: Bureau of Land Recycling and Waste Management, Division of Hazardous Waste Management, P.O. Box 69170, Harrisburg, PA 17106-9170.

Renewal Applications Received

Hepaco, LLC, P.O. Box 26308, Charlotte, NC 28221. License No. PA-HC 0271. Effective Jan 29, 2020.

Transporter License Reissued

Hepaco, LLC, P.O. Box 26308, Charlotte, NC 28221. License No. PA-HC 0271. Effective Jan 29, 2020.

DETERMINATION OF APPLICABILITY FOR RESIDUAL WASTE GENERAL PERMITS

Determination of Applicability for General Permit Issued Under the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003); the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§ 4000.101—4000.1904); and Residual Waste Regulations for a General Permit to Operate Residual Waste Processing Facilities and/or the Beneficial Use of Residual Waste Other Than Coal Ash.

Southeast Regional Office: Regional Solid Waste Manager, 2 East Main Street, Norristown, PA 19401, 484.250.5960.

General Permit No. WMGR096SE012. DC Ambler Properties LLC, South Chestnut Street, Ambler, PA 19002. This permit is for the determination of applicability (DOA) under General Permit No. WMGR096SE012 for the beneficial use of regulated fill material, as defined in DEP Document No. 258-2182-2773 (Management of Fill), by leaving 2-feet of cover across Parcel E, TPN-01-00-01157-40-8, at the DC Ambler Properties Site (Former Nicolet Industries Site), which is part of the Ambler Asbestos Piles NPL Site, located in the Borough of Ambler, **Montgomery County**. The determination of applicability was issued by the Southeast Regional Office on December 19, 2019.

Persons interested in reviewing the general permit may contact the Pennsylvania Department of Environmental Protection ("DEP") Waste Management Program Manager, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401-4915, or by telephone at 484.250.5960. TDD users may contact the DEP through the Pennsylvania AT&T Relay Service, (800) 654.5984.

Southcentral Region: Regional Solid Waste Manager, 909 Elmerton Avenue, Harrisburg, PA 17110, Phone: 717-705-4706.

General Permit No. WMR019D008. Littlestown Foundry, 150 Charles Street, Littlestown, PA 17340. Littlestown Borough, **Adams County**. A permit renewal under WMGR019, for the beneficial use of waste foundry sand from ferrous and nonferrous casting foundries; system dust generated by ferrous metal casting foundries; or slag and refractories generated by ferrous metal casting foundries as roadway construction material; a component or ingredient in the manufacturing of concrete or asphalt products; a soil additive or soil substitute; and non-roadway construction activity. The Department issued the renewal of this Determination of Applicability under WMGR019 on January 31, 2020.

Persons interested in reviewing the general permit may contact John Oren, P.E., Permits Section Chief, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110, 717-705-4706. TDD users may contact the Department through the Pennsylvania AT&T Relay Service, (800) 654-5984.

OPERATE WASTE PROCESSING OR DISPOSAL AREA OR SITE

Permit Issued Under the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003), the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§ 4000.101—4000.1904) and Regulations to Operate Solid Waste Processing or Disposal Area or Site.

Southeast Region: Regional Solid Waste Manager, 2 East Main Street, Norristown, PA 19401, 484-250-5960.

Permit No. 101541. Delaware Valley Recycling Inc., P.O. Box 323, Skippack, PA 19474-0323. The permit is for the ten-year renewal to continue operations under Solid Waste Permit No. 101541 at the Delaware Valley Recycling, Inc., a construction and demolition (C&D) waste processing facility located at 3107 South 61st Street in the City and **County of Philadelphia**. The permit was issued by the Southeast Regional Office on January 8, 2020.

Persons interested in reviewing the permit may contact the Pennsylvania Department of Environmental Protection ("DEP") Waste Management Program Manager, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401-4915, or by telephone at 484.250.5960. TDD users may contact the DEP through the Pennsylvania AT&T Relay Service, (800) 654.5984.

Permit No. 400593. Covanta Delaware Valley L.P., 15990 North Barker's Landing, # 200, 777 North Eldridge Boulevard, Houston, TX 77079. This permit is for the ten-year renewal to continue operations under Solid Waste Permit No. 400593 at the Delaware Valley Resource Recovery Facility an existing municipal waste resource recovery facility located in the City of Chester, **Delaware County**. The permit was issued by the Southeast Regional Office on December 6, 2019.

Persons interested in reviewing the permit may contact the Pennsylvania Department of Environmental Protection ("DEP") Waste Management Program Manager, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401-4915, or by telephone at 484.250.5960. TDD users may contact the DEP through the Pennsylvania AT&T Relay Service, (800) 654.5984.

Southcentral Regional Office: Regional Solid Waste Manager, 909 Elmerton Avenue, Harrisburg, PA 17110-8200, telephone number: 717-705-4706.

Permit No. 101712, JG Environmental Municipal Waste Processing Facility, 776 Flory Mill Road, Lancaster, PA 17601 **Lancaster County** A major permit modification was issued on January 17, 2020, to Solid Waste Permit No. 101712, JG Environmental, LLC, to expand its municipal waste processing facility and to increase the allowable daily waste volume from 200 tons per day to 500 tons per day.

Persons interested in reviewing the permit may contact John Oren, P.E., Permits Section Chief, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110, 717-705-4706. TDD users may contact the Department through the Pennsylvania AT&T Relay Service, (800) 654-5984.

Permit No. 100934, Blue Ridge Landfill, 1660 Orchard Road, Scotland, PA 17254, **Franklin County**. The permit for the Blue Ridge Landfill, Solid Waste Permit No. 100934, was renewed on January 23, 2020, and is extended until May 2, 2030.

Persons interested in reviewing the permit may contact John Oren, P.E., Permits Section Chief, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110, 717-705-4706. TDD users may contact the Department through the Pennsylvania AT&T Relay Service, (800) 654-5984.

AIR QUALITY

General Plan Approval and Operating Permit Usage Authorized under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127 to construct, modify, reactivate or operate air contamination sources and associated air cleaning devices.

Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Contact: Raymond Kempa, New Source Review Chief—Telephone: 570-826-2531.

AG5-66-00005A: Regency Marcellus Gas Gathering, LLC (101 West Third Street, Williamsport, PA 17701) on September 30, 2019 to operate eight (8) IC Engines, one (1) dehydrator, and three (3) condensate tanks at the Hirkey Compressor Station in Washington Township, **Wyoming County**.

GP3-45-005: Bill Barry Excavating, Inc. (174 Quarry Lane, Cresco, PA 18326) on October 1, 2019 to construct and operate a Portable Crushing Operation with water sprays at the Cresco Quarry in Barrett Township, **Monroe County**.

GP9-45-006: Bill Barry Excavating, Inc. (174 Quarry Lane, Cresco, PA 18326) on October 1, 2019 to install and operate two (2) Diesel I/C engines at the Cresco Quarry in Barrett Township, **Monroe County**.

GP3-58-069: Johnson Quarries, Inc. (P.O. Box 136, Orange Street, Le Raysville, PA 18829) on October 24, 2019 to construct and operate a Portable Crushing Operation with water sprays at the Warner Quarry in Rush Township, **Susquehanna County**.

GP9-58-069: Johnson Quarries, Inc. (P.O. Box 136, Orange Street, Le Raysville, PA 18829) on October 24, 2019 to install and operate eight (8) Diesel I/C engines at the Warner Quarry in Rush Township, **Susquehanna County**.

GP3-35-021: Mark Construction Services, LLC (4000 Fourth Street, Moosic, PA 18507) on October 30, 2019 to construct and operate a Portable Crushing Operation with water sprays at Oak and Davis Streets in Moosic Borough, **Lackawanna County**.

GP9-35-021: Mark Construction Services, LLC (4000 Fourth Street, Moosic, PA 18507) on October 30, 2019 to install and operate two (2) Diesel I/C engines at Oak and Davis Streets in Moosic Borough, **Lackawanna County**.

AG5-58-00011A: Williams Field Services Company, LLC (310 SR 29 North, Tunkhannock, PA 18657) on November 5, 2019 to operate two (2) IC Engines, one (1) IC generator engine, two (2) dehydrators with reboilers, and one (1) condensate tank at the Jones Compressor Station site in Middletown Township, **Susquehanna County**.

GP3-35-004C: Bell Mountain Land Development Corporation (7 Oakwood Drive, Scranton, PA 18504) on November 21, 2019 to construct and operate a Portable Crushing Operation with water sprays at their Bell Mountain Site in Dickson City Borough, **Lackawanna County**.

GP9-35-006C: Bell Mountain Land Development Corporation (7 Oakwood Drive, Scranton, PA 18504) on November 21, 2019 to install and operate ten (10) Diesel

I/C engines at their commerce Bell Mountain Site in Dickson City Borough, **Lackawanna County**.

AG5-58-00017A: Williams Field Services Company, LLC (310 SR 29 North, Tunkhannock, PA 18657) on December 9, 2019 to operate eight (8) IC Engines, two (2) IC generator engines, six (6) dehydrators with reboilers, two (2) vapor combustion units, and two (2) condensate tank at the Lathrop Compressor Station site in Springville Township, **Susquehanna County**.

GP1-40-010: Freedom Corrugated (595 Oakridge Road, Hazle Township, PA 18202) on December 26, 2019 to operate three (3) natural gas boilers at their facility in Hazle Township, **Luzerne County**.

Northcentral Region: Air Quality Program, 208 West Third Street, Williamsport, PA 17701.

Contact: Muhammad Q. Zaman, Program Manager, (570) 327-3648.

GP1-55-00002B: PA DHS—Selinsgrove Center (1000 Route 522, Selinsgrove, PA 17870-8707) was issued on January 22, 2020, an authorization to construct two (2) 400-hp dual fuel boilers and modify an existing 350-hp boiler to allow for distillate oil combustion, at the Selinsgrove Center facility in Penn Township, **Snyder County**, pursuant to the "General Plan Approval and/or General Operating Permit BAQ-GPA/GP-1: Small Gas & No. 2 Oil Fired Combustion Units."

Plan Approvals Issued under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and regulations in 25 Pa. Code Chapter 127, Subchapter B relating to construction, modification and reactivation of air contamination sources and associated air cleaning devices.

Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Contact: Raymond Kempa, New Source Review Chief—Telephone: 570-826-2531.

39-00055B: B. Braun Medical, Inc. (901 Marcon Blvd., Allentown, PA 18109) issued on January 30, 2020 for the installation and operation of a new control device manufactured by Anguil Environmental Systems, Inc. (Anguil) to control EtO emissions from the existing eight Sterilizers and Aeration Room. The proposed Anguil System control device will replace the existing Catalytic Oxidizer (Control Device ID C001) and Wet Scrubber Deoxx Unit (Control Device ID C002) at the existing facility located in Hanover Township, **Lehigh County**.

48-00076E: Calpine Bethlehem, LLC (500 Delaware Avenue, Wilmington, DE 19801) issued on February 3, 2020 for the increase in hours of operation from their six existing turbines at the site located in Bethlehem, **Northampton County.**

Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Contact: Edward Orris, New Source Review Chief, 412.442.4168.

PA-04-00751A: Valmont Coatings, Inc. (9 12th Street, Midland, PA 15059-1603). Plan Approval issuance date effective January 30, 2020, to allow hot dip galvanizing process which includes zinc coating on iron and steel products by immersion of the material in a bath of liquid zinc and pre-treatment cleaning stages at its facility located in Midland Borough, **Beaver County**.

Plan Approval Revisions Issued including Extensions, Minor Modifications and Transfers of Ownership under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code §§ 127.13, 127.13a and 127.32.

Southcentral Region: Air Quality Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Thomas Hanlon, Facilities Permitting Chief, 717-705-4862, Thomas Bianca, New Source Review Chief, 717-705-4863, or William Weaver, Regional Air Quality Manager, 717-705-4702.

34-05002A: Texas Eastern Transmission, LP (5400 Westheimer Court, Houston, TX 77056) on January 31, 2020, for an engine project at the Perulack Compressor Station located in Lack Township, **Juniata County**. The Plan Approval will authorize the following items: 1.) Retrofit the existing natural gas-fired Cooper Bessemer GMVA-8 engine (Source 031), as clean burn spark ignition engine (SI RICE), without increasing its rated 1,100 hp, 2.) Install Control ID C031, Oxygen Catalyst on Source 031. The plan approval was extended.

Northcentral Region: Air Quality Program, 208 West Third Street, Williamsport, PA 17701.

Contact: Muhammad Q. Zaman, Program Manager, (570) 327-3648.

14-00002R: Graymont (PA), Inc. (375 Graymont Rd., Bellefonte, PA 16823) was issued a plan approval extension from January 21, 2020 to July 19, 2020, to permit continued operation of the Lime Processing Project pending the completion of compliance evaluations for all the sources. The sources are located at their Pleasant Gap plant in Spring Township, **Centre County**. The plan approval has been extended.

14-00002N: Graymont (PA), Inc. (375 Graymont Rd., Bellefonte, PA 16823) was issued a plan approval extension from January 26, 2020 to July 24, 2020, to permit continued operation of the Kiln No. 8 project pending the completion of compliance evaluations for all the sources. The sources are located at their Pleasant Gap plant in Spring Township, **Centre County**. The plan approval has been extended.

14-00002P: Graymont (PA), Inc. (375 Graymont Rd., Bellefonte, PA 16823) was issued a plan approval extension from January 26, 2020 to July 24, 2020, to permit continued operation of the Kiln No. 8 project pending the completion of compliance evaluations for all the sources. The sources are located at their Pleasant Gap plant in Spring Township, **Centre County**. The plan approval has been extended.

Northwest Region: Air Quality Program, 230 Chestnut Street, Meadville, PA 16335-3481.

Contact: David Balog, New Source Review Chief—Telephone: 814-332-6940.

24-083W: MERSEN USA Saint Marys PA Corporation (1032 Trout Run Road, Saint Marys, PA 15857) on January 29, 2020, effective January 31, 2020, has issued a plan approval extension to allow for assessment of stack test results in Saint Marys City, **Elk County**. This is a Title V facility. This will expire on July 31, 2020.

25-069Q: BASF Corporation (1729 East Avenue, Erie, PA 16503) on January 29, 2020, effective January 31, 2020, has issued a plan approval extension for awaiting the results of source testing review of the stack test report in Erie City, **Erie County**. This is a State Only facility. This will expire on July 31, 2020.

Title V Operating Permits Issued under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127, Subchapter G.

Southcentral Region: Air Quality Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Thomas Hanlon, Facilities Permitting Chief, 717-705-4862, Thomas Bianca, New Source Review Chief, 717-705-4863, or William Weaver, Regional Air Quality Manager, 717-705-4702.

36-05019: Anvil International, LLC (1411 Lancaster Avenue, Columbia, PA 17512-1939) on January 29, 2020, for the renewal of the Title V permit for the iron foundry in Columbia Borough, **Lancaster County**. The Title V permit renewal also incorporated approval of a Reasonably Available Control Technology 2 (RACT 2) plan. The RACT 2 provisions will be submitted to US EPA for approval and incorporation into Pennsylvania's State Implementation Plan (SIP). Requirements that are not part of the RACT approval will be excluded from the SIP submittal.

Operating Permits for Non-Title V Facilities Issued under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code Chapter 127, Subchapter F.

Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Contact: Norman Frederick, Facility Permitting Chief—Telephone: 570-826-2409.

54-00066: Silberline Manufacturing Co., Tidewood Plant (130 Lincoln Drive, Tamaqua, PA 18252). On February 4, 2020, the Department issued a renewal (Synthetic Minor) permit for the manufacturing of primary metal products located in Rush Township, **Schuylkill County**. The primary sources consist of boilers, a vacuum metalize pigment process, and a silvet pigment process. The control devices are a regenerative catalytic oxidizer and chiller/condensers. The sources are considered minor emission sources of nitrogen oxide (NO_x), sulfur oxides (SO_x), carbon monoxide (CO), particulate matter (PM_{10}), and volatile organic compounds (VOC) emissions. The operating permit contains applicable requirements for emission limitations, work practice standards, testing, monitoring, recordkeeping, and reporting standards used to verify facility compliance with Federal and State air pollution regulations.

Southcentral Region: Air Quality Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Thomas Hanlon, Facilities Permitting Chief, 717-705-4862, Thomas Bianca, New Source Review Chief, 717-705-4863, or William Weaver, Regional Air Quality Manager, 717-705-4702.

01-03030: Cargill, Inc. (1892 York Road, Gettysburg, PA 17325-8205) on January 29, 2020, for the feed mill located in Straban Township, **Adams County**. The State-only permit was renewed.

Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Contact: Thomas Joseph, Facilities Permitting Chief, 412.442.4336.

03-00263: Allegheny Mineral Corp.—Bison Mine (1 Glade Park Drive, Kittanning, PA 16201), Synthetic Minor State-Only Operating Permit. On January 30, 2020, the Department of Environmental Protection (DEP) authorized an initial synthetic minor State-Only operating permit for a facility located off of Clark Road, Worthington, PA 16262 in West Franklin Township, **Armstrong County**. The facility crushes and processes limestone. The permit includes emission limits, operating requirements, monitoring requirements, and recordkeeping requirements for the site. Plan approval PA-03-00263A was inactivated as a part of this action.

Operating Permit Revisions Issued including Administrative Amendments, Minor Modifications or Transfers of Ownership under the Air Pollution Control Act (35 P.S. §§ 4001—4015) and 25 Pa. Code §§ 127.412, 127.450, 127.462 and 127.464.

Southwest Region: Air Quality Program, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Contact: Thomas Joseph, P.E., Facilities Permitting Chief, (412) 442-4336.

TV-65-00053: Dura Bond Steel Corporation (P.O. Box 518, 2658 Puckety Drive, Export, PA 15632) on January 14, 2020, for modification to incorporate the applicable Reasonably Available Control Technology II (RACT II) requirements of 25 Pa. Code §§ 129.96—129.100 for the Export Plant located in Export Borough, **Westmoreland County**.

De Minimis Emissions Increases Authorized under 25 Pa. Code § 127.449.

Southcentral Region: Air Quality Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Thomas Hanlon, Facilities Permitting Chief, 717-705-4862, Thomas Bianca, New Source Review Chief, 717-705-4863, or William Weaver, Regional Air Quality Manager, 717-705-4702.

06-05068: Reading Terminals, DE LLC (P.O. Box 2621, Harrisburg, PA 17105-2621). Pursuant to 25 Pa. Code § 127.449(i), this *Pennsylvania Bulletin* Notice is for the de minimis emissions increase of 0.02 tpy VOC, resulting from the proposed installation of a butane pump to blend butane into gasoline to raise the Reid Vapor Pressure of gasoline in the autumn months in Sinking Spring Borough, **Berks County**. This is the first de minimis emissions increase at the facility during the term of the current operating permit.

07-05004B: Altoona Terminals, DE LLC (P.O. Box 2621, Harrisburg, PA 17105-2621). Pursuant to 25 Pa. Code § 127.449(i), this *Pennsylvania Bulletin* Notice is for the de minimis emissions increase of 0.005 tpy VOC, resulting from the proposed installation of a butane pump to blend butane into gasoline to raise the Reid Vapor Pressure of gasoline in the autumn months in Allegheny Township, **Blair County**. This is the first de minimis emissions increase at the facility during the term of the current operating permit.

22-05054: Highspire Terminals, DE LLC (P.O. Box 2621, Harrisburg, PA 17105-2621). Pursuant to 25 Pa. Code § 127.449(i), this *Pennsylvania Bulletin* Notice

is for the de minimis emissions increase of 0.009 tpy VOC, resulting from the proposed installation of a butane pump to blend butane into gasoline to raise the Reid Vapor Pressure of gasoline in the autumn months in Lower Swatara Township, **Dauphin County**. This is the first de minimis emissions increase at the facility during the term of the current operating permit.

21-05021: Mechanicsburg Terminals, DE LLC (P.O. Box 2621, Harrisburg, PA 17105-2621). Pursuant to 25 Pa. Code § 127.449(i), this *Pennsylvania Bulletin* Notice is for the de minimis emissions increase of 0.02 tpy VOC, resulting from the proposed installation of a butane pump to blend butane into gasoline to raise the Reid Vapor Pressure of gasoline in the autumn months in Silver Spring Township, **Cumberland County**. This is the first de minimis emissions increase at the facility during the term of the current operating permit.

ACTIONS ON COAL AND NONCOAL MINING ACTIVITY APPLICATIONS

Actions on applications under the Surface Mining Conservation and Reclamation Act (52 P.S. §§ 1396.1—1396.31); the Noncoal Surface Mining Conservation and Reclamation Act (52 P.S. §§ 3301—3326); the Clean Streams Law (35 P.S. §§ 691.1—691.1001); the Coal Refuse Disposal Control Act (52 P.S. §§ 30.51—30.66); the Bituminous Mine Subsidence and Land Conservation Act (52 P.S. §§ 1406.1—1406.21). The final action on each application also constitutes action on the NPDES permit application and, if noted, the request for a Section 401 Water Quality Certification. Mining activity permits issued in response to such applications will also address the application permitting requirements of the following statutes; the Air Quality Control Act (35 P.S. §§ 4001—4015); the Dam Safety and Encroachments Act (32 P.S. §§ 693.1—693.27); and the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003).

Coal Permits Issued

California District Office: 25 Technology Drive, Coal Center, PA 15423, 724-769-1100, (Contact: Bonnie Herbert).

03851302 and NPDES Permit No. PA0379302. Rosebud Mining Company, 301 Market Street, Kittanning, PA 16201, to revise the NPDES permit to remove the phenols monitoring for outfall 003 for the Rosebud No. 3 Mine located in Perry Township, **Armstrong County**. No additional discharges. The application was considered administratively complete on April 11, 2019. Application received: April 11, 2019. Permit issued: January 21, 2020.

Cambria District Mining Office: 286 Industrial Park Road, Ebensburg, PA 15931, 814-472-1900, (Contact: Holly Calvetti).

Permit No. 56793091 and NPDES No. PA0119296. Hardrock Coal Co., 275 Saddle Ridge Road, Berlin, PA 15530, permit renewal for the continued operation and restoration of a bituminous surface & auger mine in Brothersvalley Township, **Somerset County**, affecting 559.9 acres. Receiving stream(s): unnamed tributaries to/and Tubs Run and an unnamed tributary to Millers Run, classified for the following use(s): CWF. There are no potable water supply intakes within 10 miles downstream. Application received: September 24, 2019. Permit Issued: January 28, 2020.

Permit No. 56920113. Heritage Coal & Natural Resources, LLC, 550 Beagle Road, Rockwood, PA 15557, permit renewal for reclamation only of a bituminous surface mine in Summit and Elk Lick Townships, **Somerset County**, affecting 108 acres. Receiving streams: unnamed tributaries to/and Casselman River, classified for the following uses: cold water fishes and warm water fishes. There are no potable water supply intakes within 10 miles downstream. Application received: July 15, 2019. Permit Issued: January 31, 2020.

Permit No. 56080103. Rosebud Mining Company, 301 Market Street, Kittanning, PA 16201, permit renewal for a bituminous surface mine in Milford Township, **Somerset County**, affecting 105.5 acres. Receiving streams: unnamed tributaries to/and South Glad Creek to the Casselman River to the Youghiogheny River, classified for the following use: warm water fishes. There are no potable water supply intakes within 10 miles downstream. Application received: July 1, 2019. Permit Issued: January 31, 2020.

New Stanton District Office: P.O. Box 133, 131 Broadview Road, New Stanton, PA 15672, 724-925-5500. (Contact: Tracy Norbert).

63120104 and NPDES Permit No. PA0252255. Neiswonger Construction, Inc., 17592 Route 322, Strattanville, PA 16258. Permit renewal for continued treatment to an existing bituminous surface mine located in Deemston Borough, **Washington County**, affecting 212.5 acres. Receiving stream(s): Unnamed tributaries to Fishpot Run and Black Dog Run. Application received: November 19, 2018. Permit Issued: January 31, 2020.

Noncoal Permits Issued

Pottsville District Mining Office: 5 West Laurel Boulevard, Pottsville, PA 17901, 570-621-3118, (Contact: Theresa Reilly-Flannery).

Permit No. PAM114030R. Glen-Gery Corporation (P.O. Box 7001, Wyomissing, PA 19610), renew coverage under the General NPDES Permit for Stormwater Discharges Associated with Mining Activities (BMP GP-104) on Surface Mining Permit No. 67070302 in Conewago Township, **York County**, receiving streams: Conewago Creek and unnamed tributary to Conewago Creek. Application received: April 19, 2019. Renewal issued: January 30, 2020.

Permit No. PAM118028. Central Builders Supply Co. (P.O. Box 152, Sunbury, PA 17801), coverage under the General NPDES Stormwater Permit for stormwater discharges associated with mining activities on Surface Mining Permit No. 49040301 in Point Township, **Northumberland County**, receiving stream: Susquehanna River. Application received: June 28, 2018. Permit issued: January 30, 2020.

Permit No. PAM118033. Central Builders Supply Co. (P.O. Box 152, Sunbury, PA 17801), coverage under the General NPDES Stormwater Permit for stormwater discharges associated with mining activities on Surface Mining Permit No. 6173SM3 in Point, **Northumberland County**, receiving stream: Susquehanna River. Application received: June 29, 2018. Permit issued: January 30, 2020.

Permit No. 6173SM3A1C. Central Builders Supply Co. (P.O. Box 152, Sunbury, PA 17801), correction to an existing quarry operation to update the post-mining land use to include unmanaged natural habitat; unmanaged natural water impoundment and cropland in Point Township, **Northumberland County** affecting 293.5 acre, receiving stream: Susquehanna River. Application received: June 29, 2018. Correction issued: January 30, 2020.

ACTIONS ON BLASTING ACTIVITY APPLICATIONS

Actions on applications under the Explosives Acts of 1937 and 1957 and 25 Pa. Code § 211.124. Blasting activity performed as part of a coal or noncoal mining activity will be regulated by the mining permit for that coal or noncoal mining activity.

Blasting Permits Issued

Pottsville District Mining Office: 5 West Laurel Boulevard, Pottsville, PA 17901, 570-621-3118, (Contact: Theresa Reilly-Flannery).

Permit No. 36204103. Keystone Blasting Service (15 Hopeland Road, Lititz, PA 17543), construction blasting for Lime Springs Lot 7 in East Hemfield Township, **Lancaster County** with an expiration date of August 30, 2020. Permit issued: January 31, 2020.

Permit No. 48204102. Valley Rock Solutions, LLC (P.O. Box 246, Macungie, PA 18062), construction blasting for Northampton Business Center in Allen Township, **Northampton County** with an expiration date of January 28, 2021. Permit issued: January 31, 2020.

Permit No. 67194115. Maine Drilling & Blasting, Inc. (P.O. Box 1140, Gardiner, ME 04345), construction blasting for 3625 Mia Brea in West Manchester Township, **York County** with an expiration date of January 24, 2021. Permit issued: January 31, 2020.

FEDERAL WATER POLLUTION CONTROL ACT SECTION 401

The Department has taken the following actions on previously received permit applications, requests for Environmental Assessment approval, and requests for Water Quality Certification under section 401 of the Federal Water Pollution Control Act (FWPCA) (33 U.S.C.A. § 1341).

Except as otherwise noted, the Department has granted 401 Water Quality Certification certifying that the construction and operation described will comply with the applicable provisions of sections 301—303, 306 and 307 of the FWPCA (33 U.S.C.A. §§ 1311—1313, 1316 and 1317), and that the construction will not violate applicable Federal and State Water Quality Standards.

Any person aggrieved by these actions may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, (717) 787-3483. TDD users may contact the Board through the Pennsylvania AT&T Relay Service, (800) 654-5984. Appeals must be filed with the Environmental Hearing Board within 30-days of publication of this notice in the *Pennsylvania Bulletin*, unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at (717) 787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

If you want to challenge this action, your appeal must reach the Board within 30-days. You do not need a lawyer to file an appeal with the Board.

Important legal rights are at stake, however, so you should show this notice to a lawyer at one. If you cannot afford a lawyer, you may qualify for free pro bono representation. Call the Secretary to the Board (717) 787-3483 for more information.

WATER OBSTRUCTIONS AND ENCROACHMENTS

Actions on applications for the following activities filed under the Dam Safety and Encroachments Act (32 P.S. §§ 693.1—693.27), section 302 of the Flood Plain Management Act (32 P.S. § 679.302) and The Clean Streams Law and Notice of Final Action for Certification under section 401 of the FWPCA.

Southeast Region: Waterways and Wetlands Program, 2 East Main Street, Norristown, PA 19401, Telephone 484.250.5160.

Contact: Elaine Henderson, Clerk Typist 3, 484.250.5157.

Permit No. E09-1040, Peace Valley Nature Center, 170 North Chapman Road, Doylestown, PA 18901, New Britain Township, **Bucks County**, ACOE Philadelphia District.

To perform the below-listed water obstruction and encroachment activities associated with the Peace Valley Nature Center. The proposed project consists of the construction of a 30,746-square-foot pervious parking lot and 39-foot diameter Pavilion. The construction of the parking lot and Pavilion will have limited temporary floodplain impacts (North Branch Neshaminy Creek, WWF, MF).

The site is approximately on northeastern and southwest sides of Chapman Road approximately 0.28 mile from its intersection with New Galena Road (Doylestown, Latitude: 40° 20′ 25.51″; Longitude: 75° 10′ 11.38″) in New Britain Township, Bucks County.

Northeast Region: Watershed Management Program Manager, 2 Public Square, Wilkes-Barre, PA 18711-0790, 570-826-2511.

Contact: Gillian Ostrum, Clerk Typist 2, 570-830-3077.

E39022-563. Jaindl Land Company, 3150 Coffeetown Road, Orefield, PA 18069. Lower Macungie Township, **Lehigh County**, Army Corps of Engineers Philadelphia District.

To construct and maintain the following water obstructions and encroachments associated with the Orchard Road Stormwater Improvement Project:

1. To abandon approximately 424 linear feet of a UNT to Swabia Creek and relocate the watercourse by constructing and maintaining a stream enclosure consisting of existing dual 48-inch diameter RCP pipes, that are 60 feet long and new dual 48-inch RCP pipes that are 135 feet long with junction boxes, endwalls and a riprap apron choked with natural streambed material.

2. To construct and maintain approximately 250 linear feet of a new watercourse channel which includes a 15-foot wide channel with a 5-foot wide meandering thalweg—approximately 6-inches deep, a geosynthetic clay liner, natural streambed material, random boulder placement, and riparian corridor planting plan.

The project is located approximatel 0.06 mile north of Orchard Road and Scenic View Drive intersection. (Allen-

town West, PA Quadrangle, Latitude: 40° 30′ 45″; Longitude: -75° 34′ 45″) in Lower Macungie Township, Lehigh County.

E48-453. JW Development Partners, 3150 Coffeetown Road, Orefield, PA 18069, Allen Township, **Northampton County**, U.S. Army Corps of Engineers, Philadelphia District.

To construct and maintain the following water obstructions and encroachments associated with the Northampton Business Center development: 1) A utility line crossing of Dry Run (CWF, MF) and adjacent PEM wetlands consisting of an 18-LF, 16-inch diameter, concrete-encased ductile iron water pipe. The crossing will impact 0.029-acre of PEM wetlands. 2) A stream enclosure of Dry Run (CWF, MF) consisting of a 116-LF, 5.67-ft × 12-ft concrete box culvert having concrete baffles, concrete wingwalls, and an R-8 riprap apron. A utility line crossing of Dry Run (CWF, MF) consisting of an 8-inch diameter, coated steel gas line and a concrete conduit carrying electrical and communications lines will also be installed below the proposed stream enclosure. The enclosure will impact 0.116-acre of PEM wetlands. 3) A stormwater outfall along the western bank of Dry Run (CWF, MF) consisting of a 30-inch diameter concrete pipe, concrete endwall, and R-8 riprap apron. The outfall will impact 0.053-acre of PEM wetlands. 4) A stormwater outfall along the eastern bank of Dry Run (CWF, MF) consisting of an 18-inch diameter concrete pipe, concrete endwall, and R-8 riprap apron. The outfall will impact 0.053-acre of PEM wetlands. 5) A utility line crossing of Dry Run (CWF, MF) consisting of a 34-LF, 8-inch diameter, PVC sanitary sewer pipe. 6) A stormwater outfall along the western bank of Dry Run (CWF, MF) consisting of a 39-inch × 68-inch diameter horizontal elliptical concrete pipe, concrete endwall, and an R-5 riprap apron. 7) A stormwater outfall along the western bank of Dry Run (CWF, MF) consisting of a 36-inch diameter concrete pipe, concrete endwall, and an R-5 riprap apron. 8) A utility line in the floodway of Dry Run (CWF, MF) consisting of a 120-LF, 8-inch diameter, PVC sanitary sewer pipe. 9) A stormwater outfall in the floodway of the eastern bank of Dry Run (CWF, MF) consisting of a 48-inch diameter concrete pipe, concrete endwall, and an R-6 riprap apron. 10) A wetland fill impacting 0.664 acre of PEM wetlands for the purpose of constructing a 300,000 sq ft warehouse, parking lot, and grading associated with an embankment. 11) A wetland fill impacting 0.134 acre of PEM wetlands for the purpose of constructing an access road and grading associated with an access road. The permittee is required to provide 1.02 acre of replacement wetlands. The project is located approximately 0.4 mile north of the intersection of Nor Bath Boulevard and Weaversville Road (Catasauqua, PA Quadrangle Latitude: 40° 42′ 15.17″ Longitude: -75° 28′ 4.19″) in Allen Township, Northampton County.

Permits, Environmental Assessments and 401 Water Quality Certifications

Southcentral Region: Waterways & Wetlands Program, 909 Elmerton Avenue, Harrisburg, PA 17110.

Contact: Edward Muzic, Section Chief, 717.705.4802.

E2203219-002: DCNR-Bureau of Forestry—Weiser State Forest, P.O. Box 315, Aristes, PA 17920 in Jackson Township, **Dauphin County**, ACOE Baltimore District.

To 1.) install and maintain a 50.0-foot long by 6.0-foot wide premanufactured fiberglass bridge over West Branch Rattling Creek (EV, MF) and 2.) install and maintain a 30.0-foot long by 6.0-foot wide premanufactured fiberglass bridge over Shale Run (EV, MF) for the purpose of providing safe pedestrian stream crossings. The project is located within Weiser State Forest in Jackson Township, Dauphin County. No wetlands will be impacted by this project. Permit issued January 30, 2020.

E0603219-006: Schuylkill River Greenway Association, 140 College Drive, Pottstown, PA 19464, Perry Township, **Berks County**, ACOE Philadelphia District.

To 1.) install and maintain 6 new parking spaces in the floodway of the Schuylkill River (WWF, MF); 2.) pave and maintain an existing walking trail in the floodway of the Schuylkill River (WWF, MF); and 3.) remove an existing access drive in the floodway of the Schuylkill River (WWF, MF), impacting a total of 0.51 acre of the floodway of the Schuylkill River (WWF, MF), all for the purpose achieving Americans with Disabilities Act compliance. The project is located at the intersection of Water Street and 5 Locks Road (Latitude: 40° 31′ 15.43″ N; Longitude: 75° 59′ 52.32″ W) in Perry Township, Berks County. No wetlands will be impacted by this project. Permit issued January 30, 2020.

Southwest Region: Dana Drake, Waterways and Wetlands Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

E02051-1929; PennDOT District 11-0, 45 Thoms Run Road, Bridgeville, PA 15017, Monroeville Borough, **Allegheny County**, Pittsburgh ACOE District has been given consent to:

Remove failed, existing bank stabilization, and construct and maintain new bank stabilization, along Thompson Run Creek, to repair a roadway embankment failure along SR 2054-A08 (Northern Pike), in Monroeville Borough, Allegheny County. The project will include combinations of the use of rock slope protection, soil nails, and wire mesh for bank stabilization. The permanent impacts to Thompson Run Creek are 250 LF for the purpose of excavation and rock placement. The temporary impacts are 260 LF. The project site is located along Northern Pike at the intersection of William Penn Highway (Murrysville, PA USGS topographic quadrangle; N: 40°, 25′, 36.3358″; W: 79°, 43′, 34.3083″; Sub-basin 19A; USACE Pittsburgh District), in Monroeville Borough, Allegheny County

EROSION AND SEDIMENT CONTROL

The following Erosion and Sediment Control permits have been issued.

Persons aggrieved by an action may appeal that action to the Environmental Hearing Board (Board) under section 4 of the Environmental Hearing Board Act and 2 Pa.C.S. §§ 501—508 and 701—704. The appeal should be sent to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, (717) 787-3483. TDD users may contact the Board through the Pennsylvania AT&T Relay Service, (800) 654-5984. Appeals must be filed with the Board within 30-days of publication of this notice in the *Pennsylvania Bulletin* unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at (717) 787-3483. This paragraph does not, in and of itself, create a right of appeal beyond that permitted by applicable statutes and decisional law.

For individuals who wish to challenge an action, the appeal must reach the Board within 30-days. A lawyer is not needed to file an appeal with the Board.

Important legal rights are at stake, however, so individuals should show this notice to a lawyer at once. Persons who cannot afford a lawyer may qualify for free pro bono representation. Call the Secretary to the Board at (717) 787-3483 for more information.

Northcentral Region: Waterways & Wetlands Program Manager, 208 W Third Street, Williamsport, PA 17701.

ESCP 2 # ESG004720001-00
Applicant Name Montour, LLC
Address 18 McMichael Road
City, State, Zip Washingtonville, PA 17884
County Montour
Township(s) Derry, Anthony, Moreland and Franklin Townships
Receiving Stream(s) and Classification(s) Beaver Run, CWF-MF; Little Muncy Creek, CWF-MF; German Run, CWF-MF; Laurel Run, CWF-MF; West Branch Chillisquaque Creek, WWF-MF; Middle Branch Chillisquaque Creek, WWF-MF; West Branch Chillisquaque Creek, WWF-MF; Chillisquaque Creek, WWF-MF

Southwest District: Oil & Gas Management Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222.

ESCGP-3 # ESG076519017-00
Applicant Name Campbell Oil & Gas Inc.
Contact Person David S. Miller
Address 280 Indian Springs Road, Suite 222A
City, State, Zip Indiana, PA 15701
County Westmoreland County
Township(s) Derry Township
Receiving Stream(s) and Classification(s) UNTs to Stony Run (CWF; Siltation-Impaired)
Secondary Receiving Water—Stony Run (CWF); Conemaugh River Watershed

ESCGP-3 # ESG076519006-00
Applicant Name Chevron Appalachia, LLC
Contact Person Branden Weimer
Address 700 Cherrington Parkway
City, State, Zip Coraopolis, PA 15108
County Westmoreland County
Township(s) Sewickley Township
Receiving Stream(s) and Classification(s) UNT to Sewickley Creek (WWF) and UNT to Youghiogheny River (WWF);
Secondary Receiving Water—Sewickley Creek (WWF) and Youghiogheny River (WWF)

ESCGP-3 # ESG070419006-00
Applicant Name PennEnergy Resources, LLC
Contact Person Scott Sweder
Address 1000 Commerce Drive Park Place One, Suite 400
City, State, Zip Pittsburgh, PA 15275
County Beaver
Township(s) New Sewickley Township
Receiving Stream(s) and Classification(s) Unnamed tributary to Brush Creek, Brush Creek (WWF)

ESCGP-3 # ESG076319041-00
Applicant Name EQM Gathering OPCO LLC
Contact Person Tyler Conlon
Address 2200 Energy Drive
City, State, Zip Canonsburg, PA 15317
County Washington
Township(s) East Finley Township
Receiving Stream(s) and Classification(s) UNTs to Templeton Fork (TSF); Templeton Fork (TSF)

ESCGP-3 # ESG076319011-00
Applicant Name CNX Gas Company LLC
Contact Person Sarah Weigand
Address 1000 Consol Energy Drive
City, State, Zip Canonsburg, PA 15317
County Washington
Township(s) West Finley Township
Receiving Stream(s) and Classification(s) UNTs to Templeton Fork (TSF); UNTs to Enlow Fork (WWF); UNT to Robinson Fork (WWF)

Northwest Region: Oil and Gas Management, 230 Chestnut Street, Meadville, PA 16335-3481, 814-332-6860. Contact Mary Slye, Clerical Supervisor, 814-332-6325.

ESCGP-3 # ESG080319012-00—Stonis Pad 1
Applicant Name EXCO Resources PA LLC
Contact Person Brian E. Rushe
Address 13448 State Route 422, Suite 1
City, State, Zip Kittanning, PA 16201-3614
County Armstrong
Township(s) Rayburn
Receiving Stream(s) and Classification(s) Lower Cowanshannock WWF
Secondary: Cowanshannock Creek WWF

Eastern Region: Oil and Gas Management Program Manager, 208 West Third Street, Suite 101, Williamsport, PA 17701-6448.

ESCGP-3 # ESG295819037-00
Applicant Name Williams Field Services LLC
Contact Person Adam Weightman
Address 310 SR 29 N
City, State, Zip Tunkhannock, PA 18657-6817
County Susquehanna
Township(s) Harford
Receiving Stream(s) and Classification(s) Nine Partners Creek # 1051 (CWF-MF), UNT to Nine Partners Creek # 76757 (CWF-MF), UNT to Nine Partners Creeks # 7148 (CWF-MF)
Secondary: Nine Partners Creek (CWF-MF), Nine Partners Creek (CWF-MF)

ESCGP-3 # ESG294119035-00
Applicant Name ARD Operating, LLC
Contact Person Stephen Barondeau
Address 33 West Third Street, Suite 300
City, State, Zip Williamsport, PA 17701
County Lycoming
Township(s) Cogan House
Receiving Stream(s) and Classification(s) UNT Second Ford Larrys Creek (EV), UNT Long Run (EV) and Long Run (EV)
Secondary: Larrys Creek (EV) and Second Fork Larrys Creek (EV)

ESCGP-3 # ESG295819038-00
Applicant Name SWN Production Company LLC
Contact Person Nicki Atkinson
Address 917 State Route 92 North
City, State, Zip Tunkhannock, PA 18657
County Susquehanna
Township(s) New Milford
Receiving Stream(s) and Classification(s) West Branch Martins Creek (CWF, MF)

ESCGP-3 # ESG29-081-15-0004 Renewal
Applicant Name Range Resources-Appalachia, LLC
Contact Person Karl Matz
Address 3000 Town Center Blvd
City, State, Zip Canonsburg, PA 15317-5839
County Lycoming
Township(s) Jackson & Cogan House

Receiving Stream(s) and Classification(s) Packhorse Creek (EV)
Secondary: Steam Valley Run (EV)

ESCGP-3 # ESG295919020-00
Applicant Name REPSOL Oil and Gas USA, LLC
Contact Person Lance Ridall
Address 337 Daniel Zenker Drive
City, State, Zip Horseheads, NY 14845
County Tioga
Township(s) Covington
Receiving Stream(s) and Classification(s) Canoe Camp Creek (CWF)
Secondary: Tioga River (CWF)

ESCGP-3 # ESG295819017-00
Applicant Name Susquehanna Gathering Co 1 LLC
Contact Person Paul Corrigan
Address 1000 Noble Energy Drive
City, State, Zip Canonsburg, PA 15317
County Susquehanna
Township(s) New Milford
Receiving Stream(s) and Classification(s) Deacon Brook (CWF)
Secondary: Mitchell Creek (CWF)

ESCGP-3 # ESG29081140041 (1)
Applicant Name ARD Operating, LLC
Contact Person Stephen Barondeau
Address 33 West Third Street, Ste 300
City, State, Zip Williamsport, PA 17701
County Lycoming
Township(s) Cascade
Receiving Stream(s) and Classification(s) East Branch Wallis Run (EV), Engle Run (EV), and UNT to Engle Run (EV)
Secondary: Wallis Run (EV) and King Run (EV)

CORRECTIVE ACTION UNDER ACT 32, 1989

PREAMBLE 2

The following plans and reports were submitted under the Storage Tank and Spill Prevention Act (35 P.S. §§ 6021.101—6021.2104).

Provisions of 25 Pa. Code Chapter 245 Subchapter D, Administration of the Storage Tank and Spill Prevention Program, require the Department of Environmental Protection (DEP) to publish in the *Pennsylvania Bulletin* a notice of submission of plans and reports. A remedial action plan is submitted to summarize the site characterization, document the design and construction details for the remedial action, and describe how the remedial action will attain the selected remediation standard. The remedial action plan also provides results of studies performed and data collected to support the remedial action and a description of postremediation care requirements. A remedial action completion report is submitted to document cleanup of a release of a regulated substance at a site to the selected remediation standard. A remedial action completion report provides a description of the site investigation to characterize the nature and extent of contaminants in environmental media, the basis of selecting the environmental media of concern, documentation supporting the selection of residential or non-residential exposure factors, a description of the remediation performed and summaries of sampling methodology and analytical results which demonstrate that the remediation has attained the cleanup standard selected.

For further information concerning plans or reports, please contact the Environmental Cleanup Program Manager in the DEP Regional Office under which the notice of receipt of plans or reports appears. If information concerning plans or reports is required in an alternative form, contact the Community Relations Coordinator at the appropriate Regional Office listed. TDD users may telephone the DEP through the Pennsylvania AT&T Relay Service at (800) 654-5984.

The Department has received the following plans and reports:

Southeast Regional Office: Environmental Cleanup & Brownfields Program, 2 East Main Street, Norristown, PA 19401, 484-250-5960.

Contact: Richard Staron, Professional Geologist Manager.

Bryants Atlantic, 51-41163, 1718 26 N. 52nd St., **City of Philadelphia**. Envirosearch Consultants, Inc., P.O. Box 940, Springhouse, PA 19477, on behalf of Philadelphia Redevelopment Authority, 1234 Market St, 16th Floor, Philadelphia, PA 19107 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum products. The report is intended to document remediation of the site to meet site-specific standards.

EZ Gas Sta, 51-43054, 1701 Cottman Ave., **Philadelphia County**. Keith Valley Environmental, Inc., P.O. Box 5376, Deptford, NJ 08096, on behalf of Guru Krupa, Inc., 1701 Cottman Ave., Philadelphia, PA 19111-3802, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with unleaded gasoline. The report is intended to document remediation of the site to meet nonresidential Statewide health and site-specific standards.

Eddington Supply, 09-41185, 2734 Bristol Pike, Bensalem Township, **Bucks County**. Advanced GeoServices, 1878 Marleton Pike East, Suite 10, Cherry Hill, NJ 08003, on behalf of Cook Property Management, LLC, 77 Township Line Road, Suite 250, Yardley, PA 19067 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum products. The report is intended to document remediation of the site to meet nonresidential site-specific standards.

Finch Petro, 09-30778, 610 York Rd., Warminster Township, **Bucks County**. RT Environmental Services Inc., 215 West Church Road, King of Prussia, PA 19046, on behalf of Finch Petroleum, LLC, 610 York Road, Warminster, PA 18974 submitted a Site Characterization Report and Remedial Action Plan concerning remediation of soil and groundwater contaminated with unleaded gasoline. The report is intended to document remediation of the site to meet nonresidential Statewide health standards.

Northeast Region: Environmental Cleanup & Brownfields Program Manager, 2 Public Square, Wilkes-Barre, PA 18701-1915, 570-826-2511.

Misericordia University—former Frontiers Communications Building, Storage Tank ID # 40-50097, 100 Lake Street, Dallas Borough, **Luzerne County**, August Mack Environmental, 941 Wheatland Avenue, Suite 401, Lancaster, PA 17603, on behalf of Misericordia University, 301 Lake Street, Dallas, PA 18612, submitted a combined Site Characterization Report and Remedial Action Plan concerning remediation of soil and groundwater contaminated with petroleum. The report is intended to document the remedial actions for meeting Statewide Health Standards.

Rudy's Gulf Mart, Storage Tank ID # 48-22836, 2900 Easton Avenue, Bethlehem City, **Northampton County**, MEA, 1365 Ackermanville Road, Bangor, PA 18013, on behalf of Community First Fund, P.O. Box 524, Lancaster, PA 17608, submitted a combined Site Characterization Report and Remedial Action Plan concerning remediation of soil and groundwater contaminated with petroleum. The report is intended to document the remedial actions for meeting Statewide Health Standards.

Howe Convenient Market, Storage Tank ID # 64-09036, Route 191, Lake Township, **Wayne County**, Cook Geologic, 203 Scranton-Pocono Highway, Covington Township, PA 18444, on behalf of John T. Howe, Inc., P.O. Box 125, Lake Ariel, PA 18436, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum. The report is intended to document remediation of the site to meet Statewide Health Standards.

Allentown Terminal, Storage Tank ID # 39-11088, 1134 North Quebec Street, Allentown City, **Lehigh County**, Groundwater Services International, 443 McCormick Road, Mechanicsburg, PA 17055, on behalf of Lucknow Highspire Terminals LLC, P.O. Box 2621, Harrisburg, PA 17105, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum. The report is intended to document remediation of the site to meet a combination of Site-Specific, Background, and Statewide Health Standards.

Hawley Gulf, Storage Tank ID # 52-17000, Route 6, Palmyra Township, **Pike County**. MEA, 1365 Ackermanville Road, Bangor, PA 18013, on behalf of W.S. Peeney, 1745 West Main Street, Stroudsburg, PA 18360, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with gasoline. The report is intended to document remediation of the site to meet a combination of Site-Specific and Statewide Health Standards.

Southcentral Regional Office: Environmental Cleanup & Brownfields Program, 909 Elmerton Avenue, Harrisburg, PA 17110, 717-705-4705.

Contact: Gregory Bowman, Environmental Group Manager.

PA 0443 Route 16, Storage Tank Facility ID # 29-11699, 400 Buchanan Trail Road, McConnellsburg, PA 17233, McConnellsburg Borough, **Fulton County**. Antea USA, Inc., 535 Route 38, Suite 203, Cherry Hill, NJ 08002 on behalf of Getty Properties Corporation, Two Jericho Plaza, Suite 110, Wing C, Jericho, NY 11753 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Site-Specific Standard.

Former Uni-Mart Convenience Store, Storage Tank Facility ID # 67-07389, 55 York Street, Wellsville, PA 17365, Wellsville Borough, **York County**. United Environmental Services, Inc., P.O. Box 701, Schuylkill Haven, PA 17972 on behalf of MBC Development, LP, 950 East Main Street, Schuylkill Haven, PA 17972 submitted a Remedial Action Plan concerning remediation of groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Statewide Health Standard.

Hess Service Center, Storage Tank Facility ID # 67-27128, 801 Route 15 North, Dillsburg, PA 17019, Carroll Township, **York County**. Geological Services, Inc., P.O. Box 578, Rock Hall, MD 21661 on behalf of Hess Service Center submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Site-Specific Standard.

S & M Fuel Mart, Storage Tank Facility ID # 22-02817, 721 Allegheny Street, Dauphin, PA 17018, Middle Paxton Township, **Dauphin County**. McKee Environmental, Inc., 86 Quartz Drive, Bellefonte, PA 16823 on behalf of S & M Mart, 721 Allegheny Street, Dauphin, PA 17018 submitted a Remedial Action Plan concerning remediation of groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Statewide Health Standard.

Redners Quick Shoppe, Storage Tank Facility ID # 06-37292, 2320 Penn Avenue, West Lawn, PA 19609, Spring Township, **Berks County**. Letterle & Associates, Inc., 2022 Axemann Road, Suite 201, Bellefonte, PA 16823 on behalf of Redners Warehouse Market, Inc., 3 Quarry Road, Reading, PA 19605 submitted a Remedial Action Plan concerning remediation of soil and groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Statewide Health Standard.

Sniders Grocery, Storage Tank Facility ID # 05-63046, 633 Crooked Run Road, Artemas, PA 17211, Mann Township, **Bedford County**. Harris Environmental, Inc., 600 Stone House Road, Clarion, PA 16214 on behalf of Sniders Grocery d/b/a Roadkill Cafe submitted a Remedial Action Plan concerning remediation of soil contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Statewide Health Standard.

Kwik Fill S 32, Storage Tank Facility ID # 07-22455, 5660 East Pleasant Valley Boulevard, Old Route 220 South, Tyrone, PA 16686, Tyrone Township, **Blair County**. Groundwater and Environmental Services, Inc., 301 Commerce Park Drive, Cranberry Township, PA 16066 on behalf of United Refining Company of PA, 814 Lexington Avenue, Warren, PA 16365 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum constituents. The plan is intended to document remediation of the site to meet the Statewide Health Standard and the Site-Specific Standard.

Southwest Region: Environmental Cleanup Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Former 380 Fuel Stop, Primary Facility ID # 65-80755, 4730 Fairview Drive, Murrysville, PA 15668, Washington Township, **Westmoreland County**. DMS Environmental Services, LLC, 103 South Spring Street, Bellefonte, PA 16823, on behalf of Mr. John Vulgris POA for Mr. Dominick A. Falo, 732 Silvermoon Drive, Lower Burrell, PA 15068, submitted a Remedial Action Completion Report concerning the remediation of soil and groundwater contaminated with petroleum products. The report is intended to document remediation of the site to meet the residential Statewide health standard.

CORRECTIVE ACTION UNDER ACT 32, 1989

PREAMBLE 3

The DEP has taken action on the following plans and reports under the Storage Tank and Spill Prevention Act (35 P.S. §§ 6021.101—6021.2104).

Provisions of 25 Pa. Code Chapter 245 Subchapter D, Administration of the Storage Tank and Spill Prevention Program, require the Department of Environmental Protection (DEP) to publish in the *Pennsylvania Bulletin* a notice of its final actions on plans and reports.

A remedial action plan is submitted to summarize the site characterization, document the design and construction details for the remedial action, and describe how the remedial action will attain the selected remediation standard. The remedial action plan also provides results of studies performed and data collected to support the remedial action and a description of postremediation care requirements. A remedial action completion report is submitted to document cleanup of a release of a regulated substance at a site to the selected remediation standard. A remedial action completion report provides a description of the site investigation to characterize the nature and extent of contaminants in environmental media, the basis of selecting the environmental media of concern, documentation supporting the selection of residential or non-residential exposure factors, a description of the remediation performed and summaries of sampling methodology and analytical results which demonstrate that the remediation has attained the cleanup standard selected.

The DEP may approve or disapprove plans and reports submitted. This notice provides the DEP's decision and, if relevant, the basis for disapproval.

For further information concerning the plans and reports, please contact the Environmental Cleanup Program Manager in the DEP Regional Office under which the notice of the plan or report appears. If information concerning a report is required in an alternative form, contact the Community Relations Coordinator at the appropriate Regional Office listed. TDD users may telephone the DEP through the Pennsylvania AT&T Relay Service at (800) 654-5984.

The DEP has received the following plans and reports:

Southeast Regional Office: Environmental Cleanup & Brownfields Program, 2 East Main Street, Norristown, PA 19401, 484-250-5960.

Contact: Richard Staron, Professional Geologist Manager.

Sunoco 0363 3930, 09-30769, 20 2nd Street Pike, Warminster Township, **Bucks County**. Aquaterra Technologies, Inc., P.O. Box 744, West Chester, PA 19381, on behalf of Evergreen Resources Management Operations, 2 Righter Parkway, Suite 120, Wilmington, DE 19803, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with unleaded gasoline. The RACR demonstrated attainment of residential Statewide health and site-specific standards and was approved by the DEP on January 23, 2020.

Gatz Auto, 51-30277, 2899 Holme Ave., **City of Philadelphia**. Mulry Cresswell Environmental, Inc., 1679 Horseshoe Pike, Glenmoore, PA 19343, on behalf of Evergreen Resources Management Operations, 2 Righter Parkway, Suite 120, Wilmington, DE 19803, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with unleaded gasoline. The RACR demonstrated attainment of residential Statewide health standards and was approved by the DEP on January 27, 2020.

2401 Haverford Rd Ardmore, 23-06919, 2401 Haverford Rd., Haverford Township, **Delaware County**. Synergy Environmental, Inc., 155 Rail Road Plaza, First Floor, Royersford, PA 19468, on behalf of Cross America Partners, 645 Hamilton Street, Allentown, PA 18101 submitted a Remedial Action Plan concerning remediation of soil and groundwater contaminated with unleaded gasoline. The Remedial Action Plan was acceptable to meet nonresidential Statewide health and site-specific standards and was approved by the DEP on January 28, 2020.

7 Eleven 24160, 46-24581, 1401 City Line Ave., Lower Merion Township, **Montgomery County**. AECOM, 625 West Ridge Pike, Suite E-100, Conshohocken, PA 19428, on behalf of 7-Eleven, Inc., P.O. Box 711, Dallas, TX 75221-0711 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum products. The RACR demonstrated attainment of nonresidential Statewide health and site-specific standards and was approved by the DEP on January 28, 2020.

Sunoco 0363 3799, 51-30606, 100 W Queen Ln., **City of Philadelphia**. Groundwater & Environmental Services, Inc., 440 Creamery Way, Suite 500, Exton, PA 19341, on behalf of Evergreen Resources Management Operations, 2 Righter Parkway, Suite 120, Wilmington, DE 19803, submitted a Remedial Action Plan concerning remediation of soil and groundwater contaminated with unleaded gasoline. The Remedial Action Plan was acceptable to meet nonresidential Statewide health and site-specific standards and was approved by the DEP on January 30, 2020.

Northeast Region: Environmental Cleanup & Brownfields Program Manager, 2 Public Square, Wilkes-Barre, PA 18701-1915, 570-826-2511.

Former Michael's Auto Service, Storage Tank ID # 48-24040, 3780 Airport Road, Hanover Township, **Northampton County**. Rettew Associates, 3020 Columbia Avenue, Lancaster, PA 17603, on behalf of Lehigh-Northampton Airport Authority, 3311 Airport Road, Allentown, PA 18109, submitted a Remedial Action Plan concerning remediation of soil and groundwater contaminated with gasoline. The report was acceptable to meet Site-Specific Standards and was approved by DEP on January 31, 2020.

Southcentral Regional Office: Environmental Cleanup & Brownfields Program, 909 Elmerton Avenue, Harrisburg, PA 17110, 717-705-4705.

Contact: Cherie M. Campbell, Soil Scientist.

Sunoco SVC STA, Storage Tank Facility ID # 36-24119, 1204 Lititz Pike, Lancaster, PA 17601-4340, Lancaster City, **Lancaster County**. EnviroTrac, Ltd., 176 Thorn Hill Road, Warrendale, PA 15086, on behalf of Evergreen Resources Group, LLC, 2 Righter Parkway, Suite 120, Wilmington, DE 19803 submitted a Revised Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with benzene, toluene, ethylbenzene, total xylenes, methyl tert butyl ether, cumene and naphthalene. The Remedial Action Completion Report demonstrated attainment of the Site-Specific Standard in soil and the Non-Residential State-

wide Health Standard in groundwater and was approved by the Department of Environmental Protection on January 27, 2020.

Pitt Ohio Express, Storage Tank Facility ID # 22-60257, 5641 Grayson Road, Harrisburg, PA 17111, Swatara Township, **Dauphin County**. ATC Group Services, 270 William Penn Way, Pittsburgh, PA 15238, on behalf of Pitt Ohio Express, 15 27th Street, Pittsburgh, PA 15222 submitted a Remedial Action Completion Report concerning remediation of groundwater contaminated with petroleum constituents. The Remedial Action Completion Report demonstrated attainment of the Residential Used Aquifer Statewide Health Standard and was approved by the Department of Environmental Protection on January 29, 2020.

PA 0443 Route 16, Storage Tank Facility ID # 29-11699, 400 Buchanan Trail Road, McConnellsburg, PA 17233, McConnellsburg Borough, **Fulton County**. Antea USA, Inc., 535 Route 38, Suite 203, Cherry Hill, NJ 08002 on behalf of Getty Properties Corporation, Two Jericho Plaza, Suite 110, Wing C, Jericho, NY 11753 submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum constituents. The Remedial Action Completion Report demonstrated attainment of the Site-Specific Standard and was approved by the Department of Environmental Protection on January 31, 2020.

Former Uni-Mart Convenience Store, Storage Tank Facility ID # 67-07389, 55 York Street, Wellsville, PA 17365, Wellsville Borough, **York County**. United Environmental Services, Inc., P.O. Box 701, Schuylkill Haven, PA 17972 on behalf of MBC Development, LP, 950 East Main Street, Schuylkill Haven, PA 17972 submitted a Remedial Action Plan concerning remediation of groundwater contaminated with petroleum constituents. The Remedial Action Plan was not acceptable to meet the Statewide Health Standard and was disapproved by the Department of Environmental Protection on January 31, 2020.

Southwest Region: Environmental Cleanup Program Manager, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Former Chevron Facility # 203876, Storage Tank Facility ID # 65-82885, 111540 Route 30, Irwin, PA 15642, North Huntingdon Township, **Westmoreland County**. Arcadis U.S. Inc., 10 Friends Lane, Suite 100, Newtown, PA 18940, on behalf of Chevron Environmental Management Company (CEMC), 6001 Bollinger Canyon Road, San Ramon, CA 94583 submitted a Remedial Action Plan concerning the remediation of soil and groundwater contaminated with petroleum products. The plan was acceptable to meet the site-specific Standard and was approved on January 23, 2020.

Bailey's Auto Sales, Storage Tank Primary Facility ID # 56-80111, 8704 Somerset Pike, Boswell, PA 15531, Jenner Township, **Somerset County**. Flynn Environmental, Inc., 5640 Whipple Ave NW, North Canton, OH 44720, on behalf of Karl Bailey, 442 Acosta Road, Friedens, PA 15541, submitted a Remedial Action Completion Report concerning remediation of soil and groundwater contaminated with petroleum products. The report was acceptable to meet the Statewide health standard and was approved on January 21, 2020.

Wilkinson Petroleum Supply, Storage Tank Primary Facility ID # 11-81337, 7503 Admiral Perry Highway, Cresson, PA 16630, Cresson Township, **Cambria County**. Flynn Environmental, Inc., 5640 Whipple Ave NW, North Canton, OH 44720, on behalf of Wilkinson Petroleum Supply, P.O. Box 95, Cresson, PA 16630, submitted a Remedial Action Plan concerning the remediation of soil and groundwater contaminated with petroleum products. The plan was acceptable to meet the Statewide health standard and was approved on January 23, 2020.

Northwest Region: Environmental Cleanup Program Manager, 230 Chestnut Street, Meadville, PA 16335-3481.

Brockway Card Lock, Storage Tank Facility ID # 33-90932, 2548 Route 219, Brockway, **Jefferson County**. Letterle & Associates, Inc., 2022 Axemann Road, Suite 201, Bellefonte, PA 16823 on behalf of Tanks Pumps & Accessories, Inc., 12475 Route 19 Highway North, Rochester Mills, PA 15771, submitted a Remedial Action Plan concerning remediation of groundwater contaminated with 1,2,4 trimethylbenzene. The Remedial Action Plan was acceptable to meet the Statewide Health Standard and was approved by DEP on January 23, 2020.

Coen Market 1228, Storage Tank Facility ID # 10-32330, 1370 Pittsburgh Road, Middlesex Township, **Butler County**. Letterle & Associates, Inc., 191 Howard Street, Franklin, PA 16323, on behalf of Coen Markets, Inc., 1000 Philadelphia Street, Canonsburg, PA 15317-1700 submitted a Remedial Action Plan concerning remediation of soil and groundwater contaminated with benzene, toluene, ethylbenzene, naphthalene, cumene, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB and methyl tert-butyl ether. The Remedial Action Plan was acceptable to meet the Statewide Health Standard and was approved by DEP on January 29, 2020.

SPECIAL NOTICES

AIR QUALITY

Notice of Proposed Revision to the State Implementation Plan for Oxides of Nitrogen, Volatile Organic Compounds, Notice of Public Hearing, and Notice of Intent to Issue Revised Air Quality Operating Permit TVOP-04-00059.

Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

Contact: Thomas Joseph, Facilities Permitting Chief, 412.442.4336.

In accordance with 25 Pa. Code §§ 127.424, 127.425 and 127.521, the Department of Environmental Protection (DEP) is providing notice that it intends to issue a renewal Title V Operating Permit **(TVOP-04-00059)** to **IPSCO Koppel Tubulars, Corporation** to authorize the continued operation of steel manufacturing facility located in Koppel and Big Beaver Borough, **Beaver County**. The name and address of the applicant is IPSCO Koppel Tubulars Corporation, P.O. Box 750, Beaver Falls, PA 15010-0750.

The primary operations at the IPSCO Koppel Tubulars are melting and hot forming of alloy or carbon steels into solid steel "blooms." The facility includes a melt shop with an electric arc furnace (EAF) 100-ton capacity to melt scrap in the

production of steel, EAF tapping/EBT, melt shop, charging, EAF tapping/EBT, ladle refining system (LRS), dry lime and alloy unloading station, two emergency generators each rated at 375 bhp and 435 bhp, 2-lime handling silos, carbon silo, acid etch bath, austentizing furnace rated at 30 MMBtu/hr, temper furnace rated at 17 MMBtu/hr, scrap cutting and handling operations, various heaters, torches, and small gas furnaces. There are six (6) baghouses of various capacities at the facility. Melt shop including charging, EAF Tapping/EBT, LRS, and various heaters, dryers are connected to a melt shop baghouse. All other operations are also connected to their dedicated baghouses. The facility-wide potential to emit: 219.34 tpy NO_x, 108.43 tpy VOC, 1,345 tpy CO, 149.5 tpy SO_x, 121.0 PM_{10}, Total HAPs less that 25 tpy on a 12-month rolling basis. The proposed TVOP renewal contains conditions relating to monitoring, recordkeeping, reporting, and work practice standards. As part of this action, the Department intends to issue an Approval of a Reasonably Available Control Technology (RACT II) plan for IPSCO Koppel Tubulars, Corporation.

In accordance with 25 Pa. Code §§ 129.96—129.100, the Pennsylvania Department of Environmental Protection has made a preliminary determination to approve a RACT II plan and an amendment to the State Implementation Plan (SIP) for the steel manufacturing facility owned and operated by IPSCO Koppel Tubulars, Corporation located at P.O. Box 750, Beaver Falls, PA 15010-0750 in Koppel and Big Beaver Borough, Beaver County.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997, 2008, and 2015 National Ambient Air Quality Standard (NAAQS) for ozone. Other sources at the facility meet the presumptive RACT II requirements of 25 Pa. Code § 129.97.

The proposed amendments to the RACT II determination, if finally approved, will be incorporated into the Title V Operating Permit (04-00059) for the facility. The relevant RACT II requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT II determination will be excluded from the SIP submittal.

The following is a summary of the proposed amendments to the RACT II determination for this operation that will be submitted to the EPA as a SIP revision:

Source	*RACT II Requirement*	*TVOP 04-00059 Cond. No*
Electric Arc Furnace (EAF) 100-ton capacity. Source ID 109—112.	RACT II Compliance for shall be determined through source testing required in the current TV Permit and the following work practices adopted at the facility: Good operating practices is routine inspection and maintenance that determines that the EAF is operating properly. This includes lid gap distances and temperatures etc. Maintain a scrap management plan that limits organics from the EAF scrap feed per 40 CFR Part 63.10685 Subpart YYYYY.	Section D, Condition # 025

Public hearing. A public hearing will be held if requested by March 16, 2020 to accept oral comments on the proposed operating permit revision and the proposed SIP revision. The hearing will be held, if requested, on March 18, 2020, at 2 pm at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. To request a hearing, to register to speak at a hearing, or to inquire if a hearing will be held, please contact Thomas Joseph at 412.442.4336. The last day to pre-register to speak at a hearing, if one is held, will be March 16, 2020.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at https://www.dep.pa.gov/About/Regional/SouthwestRegion/Community%20Information/Pages/default.aspx. We ask that you contact Thomas Joseph at 412.442.4336 or monitor our Web site to determine if a hearing will be held.

Persons wishing to present testimony at the hearing should contact Thomas Joseph at 412.442.4336 by March 16, 2020, to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222.

Persons wishing to file a written protest or provide comments or additional information, which they believe should be considered prior to the issuance of a permit, may submit the information to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. A 30-day comment period from date of publication will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the proposed RACT II Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to issuance of the proposed RACT II Plan.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. Appointments for scheduling a review may be made online at https://www.dep.pa.gov/Citizens/PublicRecords/Pages/Informal-File-Review.aspx or by calling the Department at 412.442.4000.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations to do so should contact Lauren Fraley at 412.442.4203 or the Pennsylvania AT&T Relay Service at 1.800.654.5984 (TDD) to discuss how the Department may accommodate your needs.

Notice of Proposed Revision to the State Implementation Plan for Oxides of Nitrogen, Volatile Organic Compounds, Notice of Public Hearing, and Notice of Intent to Issue Revised Air Quality Operating Permit TVOP-04-00033.

In accordance with 25 Pa. Code §§ 127.424, 127.425 and 127.521, the Department of Environmental Protection (DEP) is providing notice that it intends to issue a renewal Title V Operating Permit (TVOP) to **NOVA Chemicals Inc.** to authorize continued operation of the thermoplastic resins, expandable polystyrene (EPS) resins, and ARCEL® advance foam resin manufacturing facility known as the Beaver Valley Plant located in Potter Township, **Beaver County**.

The name and address of the applicant is NOVA Chemicals Inc., 400 Frankfort Road, Monaca, PA 15061-2298. Air emission sources at this facility include raw material storage tanks, production areas that include raw material mixing and charging, reactors equipped with condensers, wash kettles, centrifuges, dryers, extrusion lines, railcar unloading, storage, packaging, twelve (12) natural gas-fired boilers, five space heating furnaces, wastewater treatment, fugitive emissions, and an emergency generator engine. Control devices at this facility include scrubbers, filters, dust collectors and baghouses, condensers, and thermal oxidizers.

NOVA Chemicals' Beaver Valley plant is a major facility subject to the operating permit requirements of Title V of the Federal Clean Air Act and 25 Pa. Code Chapter 127, Subchapters F (relating to operating permit requirements) and G (relating to Title V operating permit requirements). In 2018, the company reported the following type and quantity of actual emissions: CO—31.02 tons per year (tpy); NO_x—12.90 tpy; PM_{10}—6.58 tpy; SO_x—0.42 tpy; VOC—121.61 tpy, total HAPs—12.8487 tpy, Styrene—11.21 tpy; Hydrochloric Acid—1.64 tpy; Pentane—94.83 tpy; and greenhouse gases (GHGs) as CO_2—42,513 tpy.

The emission restrictions and testing, monitoring, recordkeeping, reporting and work practice conditions of the TVOP have been derived from the applicable requirements of 40 CFR Parts 60, 61, 63, and 70, and 25 Pa. Code, Article III, Chapters 121—145.

Additionally, as part of this action, the Department intends to issue approval of a Reasonably Available Control Technology (RACT II) plan for NOVA Chemicals Inc. In accordance with 25 Pa. Code §§ 129.96—129.100, the Pennsylvania Department of Environmental Protection has made a preliminary determination to approve a RACT II plan and an amendment to the State Implementation Plan (SIP) for the thermoplastic resins, expandable polystyrene (EPS) resins, and ARCEL® advance foam resin manufacturing facility owned and operated by NOVA Chemicals Inc., 400 Frankfort Road, Monaca, PA 15061-2298 in Potter Township, Beaver County.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997, 2008, and 2015 National Ambient Air Quality Standard (NAAQS) for ozone. Other sources at the facility meet the presumptive RACT II requirements of 25 Pa. Code § 129.97.

The proposed amendments to the RACT II determination, if finally approved, will be incorporated into Title V Operating Permit (04-00033) for the facility.

The relevant RACT II requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT II determination will be excluded from the SIP submittal.

The following is a summary of the proposed amendments to the RACT II determination for this operation that will be submitted to the EPA as a SIP revision:

Source	*RACT II Requirement*	*TVOP 04-00032 Cond. No*
101-12 D3 EPS Sump 201-23 Waste Water Sump 301-16 Wastewater 801-01 North Basin 801-02 Aeration Lagoon 801-03 Quiescent Lagoon	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the operation in accordance with good air pollution control practices.	Section E, Group RACT SOURCES Condition # 011
101-46 D3 Railcar Unloading 201-24 D2 Railcar Unloading	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the operation in accordance with good air pollution control practices.	Section E, Group RACT SOURCES Condition # 012
201-11 Arcel Carter Day Dryer 201-12 Arcel Carter Day Dryer Maxi Surge Bin	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the operation in accordance with good air pollution control practices.	Section E, Group RACT SOURCES Condition # 013

Source	*RACT II Requirement*	*TVOP 04-00032 Cond. No*
101-05 D3 EPS Airveying Pneumatic Cyclone/Filter Receiver 1265 101-06 D3 EPS Airverying Pneumatic Cyclone/Filter Receiver 1260 101-07 D3 EPS Packaging Bin 1218 101-08 D3 EPS Packaging Bin 1208 *101-15 D4 EPS # 1 Dryer Check Bin # 1410 *101-16 D4 EPS # 1 Dryer Check Bin # 1411 *101-17 D4 EPS # 2 Dryer Check Bin # 1420 *101-18 D4 EPS # 2 Dryer Check Bin # 1421 101-19 D4 EPS Line 1 Packaging Bin 1412 101-22 D4 EPS Line 2 Packaging Bin 1422 101-46 D3 Railcar Unloading	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the operation of only two of the four D4 EPS Dryer Check Bins (marked with *) at any one time in accordance with good air pollution control practices and reducing potential VOC emissions from these sources from 51.64 tpy VOC by 50% to 25.82 tpy VOC.	Section E, Group RACT SOURCES Condition # 014
101-01 D3 EPS # 3 Hold Tank 101-02 D3 EPS Dryer # 4 101-03 D3 EPS Packaging Net Weigh Hopper 101-04 D3 EPS Packaging Net Weigher 101-09 D3 EPS # 4 Acid Wash Kettle 101-10 D3 EPS # 3 Acid Wash Kettle 101-11 D3 EPS No. 4 Bird Centrifuge 101-25 D4 EPS Pneumatic Transfer Cyclone for 4B10 Airvey System 101-26 D4 EPS Pneumatic Transfer Cyclone for 4B11 Airvey System 101-27 D4 EPS 4B10 and 4B11 System Backup 101-28 D4 EPS “A” Packaging Line Net Weigher Hopper 101-29 D4 EPS “B” Packaging Line Net Weigher Hopper 101-30 D4 EPS # 1 Acid Wash Kettle 101-31 D4 EPS # 2 Acid Wash Kettle 101-32 D4 EPS # 3 Acid Wash Kettle 101-33 D4 EPS # 4 Acid Wash Kettle 101-34 D4 EPS Reactor # 401l 101-35 D4 EPS Reactor # 402 101-36 D4 EPS # 1 Bird Centrifuge 101-37 D4 EPS # 1 Gala Dryer 101-38 D4 EPS # 1 Fluidized Dryer 101-39 D4 EPS # 2 Gala Dryer 101-40 D4 EPS # 2 Fluidized Dryer	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the use of existing Control Device ID C111—Thermal Oxidizer (RCO/RTO) G-4625 as the primary control device with Control Device ID C112—Back-up Direct Fired Thermal Oxidizer (DFTO) as the secondary (backup) control device. These emission control devices comprise the Pentane Emissions Reduction System (PERS) which reduces VOC emissions from Source 101 controlled emission units with a destruction efficiency of not less than 97%.	Section E, Group RACT SOURCES Condition # 015

Source	*RACT II Requirement*	*TVOP 04-00032 Cond. No*
201-04 ARCEL Reactor 2 (201) 201-07 ARCEL Reactor 1 (199) 201-08 Package Bin Exhaust 201-09 ARCEL 330 Airvey East Cyclone 201-10 ARCEL 380 Airvey System Pneumatic Cyclone 201-22 Catalytic Oxidizer (CATOX)	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the use of existing Control Device ID C230—D2 Catalytic Oxidizer (CATOX). These emission units comprise Source ID 230—D2 Equipment controlled by CATOX. Process exhaust from the Source ID 201 controlled emission units are captured and routed to a CATOX which destroys pentane emissions. The CATOX reduces VOC emissions from Source ID 201 controlled emission units with a destruction efficiency of not less than 98%.	Section E, Group RACT SOURCES Condition # 016
301-01 Dylene Reactor 301 301-02 Dylene Reactor 302 301-03 Dylene Reactor 303 301-04 Dylene Reactor 304 301-05 Dylene Reactor 305 301-06 Dylene Reactor 306 101/301-07 Dylene Reactor 307[a] 101/301-08 Dylene Reactor 308[a] 101/301-09 Dylene Reactor 309[a] 101/301-10 Dylene Reactor 310[a] 301-11 Dylene Reactor 311 301-12 Dylene Reactor 312	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources is the use of existing Control Device ID C315—SERS (12 Unit Reflux Condenser System). These emission units comprise Source ID 315—Sources Controlled by Styrene Emissions Reduction System (SERS). The SERS condenser system reduces VOC emissions from the Source ID 301 controlled emissions units with a control efficiency of approximately 89%.	Section E, Group RACT SOURCES Condition # 017
101-44 Pentane Emission Reduction System—PERS (RTO/RCO Oxidizer) 101-45 Pentane Emission Reduction System—PERS (DFTO) 301-17 Styrene Emissions Reduction (SERS) Control Stack	In accordance with the case-by-case RACT determination procedures of 25 Pa. Code § 129.99, RACT for these sources should be continued operation of the existing control system with continued compliance with the associated limits.	TVOP Source ID 101—D3 EPS and D4 EPS Process Equipment TVOP Source ID 301—D3 Dylene Process Equipment

[a] Reactors 307-310 can service Source ID 101 or 301.

Public hearing. A public hearing will be held if requested by March 16, 2020, to accept oral comments on the proposed operating permit revision and the proposed SIP revision. The hearing will be held, if requested, on March 18, 2020 at 11:00 am at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. To request a hearing, to register to speak at a hearing, or to inquire if a hearing will be held, please contact Thomas Joseph at 412.442.4336. The last day to pre-register to speak at a hearing, if one is held, will be March 16, 2020.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at: https://www.dep.pa.gov/About/Regional/SouthwestRegion/Community%20Information/Pages/default.aspx.

We ask that you contact Thomas Joseph at 412.442.4336 or monitor our web site to determine if a hearing will be held. Persons wishing to present testimony at the hearing should contact Thomas Joseph at 412.442.4336 by March 16, 2020, to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222.

Persons wishing to file a written protest or provide comments or additional information, which they believe should be considered prior to the issuance of a permit, may submit the information to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. A 30-day comment period will exist for the submission of comments, protests, and information. Each submission must contain the name, address, and telephone number of the person submitting the comments, identification of the proposed Title V Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to issuance of the proposed renewal Title V Operating Permit or RACT II Plan.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. Appointments for scheduling a review may be made online at https://www.dep.pa.gov/Citizens/PublicRecords/Pages/Informal-File-Review.aspx or by calling the Department at 412.442.4000.

Persons with a disability who wish to comment and require an auxiliary aid, service, or other accommodations to do so should contact Lauren Fraley at 412.442.4203 or the Pennsylvania AT&T Relay Service at 1.800.654.5984 (TDD) to discuss how the Department may accommodate your needs.

Notice of Proposed Revision to the State Implementation Plan for Volatile Organic Compounds, Notice of Public Hearing, and Notice of Intent to Issue Revised Air Quality Operating Permit 04-00227.

04-00227: IPSCO Koppel Tubulars, LLC (2225 Duss Avenue, Ambridge, PA 15003). Approval of a Title V Operating Permit Renewal and Reasonably Available Control Technology (RACT II) plan for IPSCO Koppel Tubulars, LLC located in the City of Ambridge, **Beaver County**.

In accordance with 25 Pa. Code §§ 127.424, 127.425, and 127.521, the Department of Environmental Protection (DEP) is providing notice that it intends to issue a renewed Title V operating permit (TV-04-00227) to IPSCO Koppel Tubulars, LLC to authorize the continued operation of a steel finishing mill.

The facility consists of the following sources:

- Source 101, Rotary Hearth Reheat Furnace, rated at 180 MMBtu/hr;
- Source 102, Quench Furnace, rated at 37.22 MMBtu/hr;
- Source 103, Temper Furance, rated at 41.44 MMBtu/hr;
- Source 104, Reheat Furnace, rated at 30 MMBtu/hr;
- Source 105, 5 inch Up-setter Furnace
- Source 107, East Bay Pipe Coaters
- Source 108, West Bay Pipe Coaters
- Source 109, 7.5 inch Up-setter Furnace
- Source 110, Mandrill Mill Piercing Station
- Source 111, Space Heaters
- Miscellaneous sources as applicable, including stenciling operations.

The facility has reported actual emissions in 2018 of 76.18 TPY NO_x; 9.3 TPY CO; 21.23 TPY VOC; 0.33 TPY SO_x; 62.54 TPY PM_{-10}; 0 TPY $PM_{-2.5}$; < 0.1 TPY HAP total; < 0.1 TPY single HAP; and 59,457 TPY for CO_2e. Emission limits, operating requirements, and work practice standards along with monitoring, recordkeeping, and reporting requirements have been included in this proposed Title V operating permit to ensure that the facility complies with all applicable Federal and State air quality regulations.

Furthermore, in accordance with 25 Pa. Code §§ 129.96—129.100, the Pennsylvania Department of Environmental Protection has made a preliminary determination to approve a RACT II plan and an amendment to the State Implementation Plan (SIP) for the aforementioned facility. The facility is not subject to any RACT II requirements for VOC.

To determine the facilities' applicably for RACT II potential to emit for NO_x and VOC was determined by the Department. This is 180.57 TPY for NO_x and 46.08 TPY for VOCs.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997, 2008, and 2015 National Ambient Air Quality Standard (NAAQS) for ozone.

The proposed amendments to the RACT II determination, if finally approved, will be incorporated into a renewed and revised operating permit 04-00227 for the facility. The relevant RACT II requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT II determination will be excluded from the SIP submittal.

The following is a summary of the proposed amendments to the RACT II determination for this operation that will be submitted to the EPA as a SIP revision:

Source	*RACT II Requirement*	*SOOP No. 04-00227 Condition No.*
Source 101—Rotary Hearth Reheat Furnace	Conduct an annual adjustment or tune-up on the combustion process	Section E, Group 3, Condition 1
	Maintain a record of all burner adjustments, tune-ups, maintenance, and replacement activities and make that log available to the department upon request.	Section E, Group 3, Condition 1
	The owner/operator shall perform a DEP approved, EPA Reference Method stack test on the rotary furnace for oxides of nitrogen (NO_2) no less than once every five years.	Section E, Group 3, Condition 1
	NO_x emissions from this source shall not exceed 35.1 lb/hr when firing oxygen.	Section E, Group 3, Condition 1
	The owner/operator shall perform an annual test utilizing a portable analyzer for oxides of nitrogen (NO_x) on the Rotary Hearth Furnace.	Section E, Group 3, Condition 1

Source	*RACT II Requirement*	*SOOP No. 04-00227 Condition No.*
Source 102—Quench Furnace	Conduct an annual adjustment or tune-up on the combustion process	Section E, Group 3, Condition 1
Source 104—Reheat Furnace	Conduct an annual adjustment or tune-up on the combustion process	Section E, Group 3, Condition 1

Public hearing. A public hearing will be held on March 18, 2020, from 1:00—2:00 p.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. To register to speak at a hearing, or to inquire if a hearing will be held, please contact Thomas Joseph at 412-442-4336. The last day to pre-register to speak at the hearing will be March 16, 2020. If we do not receive any pre-registered speakers by this date, the hearing will be cancelled.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at https://www.dep.pa.gov/About/Regional/SouthwestRegion/Community%20Information/Pages/default.aspx. We ask that you contact Thomas Joseph at 412-442-4336 or monitor our website to determine if a hearing will be held.

Persons wishing to present testimony at the hearing should contact Thomas Joseph at 412-442-4336 by March 16, 2020 to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222.

Persons wishing to file a written protest or provide comments or additional information may submit the information to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. A 30-day comment period from the date of publication will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the RACT II Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to the RACT II Plan or the operating permit renewal.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. Appointments for scheduling a review may be made online at: https://www.dep.pa.gov/Citizens/PublicRecords/Pages/Informal-File-Review.aspx or by calling the Department at 412.442.4000.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations to do so should contact Lauren Fraley at 412.442.4203 or the Pennsylvania AT&T Relay Service at 1.800.654.5984 (TDD) to discuss how the Department may accommodate your needs.

Notice of Proposed Revision to the State Implementation Plan for Oxides of Nitrogen and Volatile Organic Compounds, Notice of Public Hearing, and Notice of Intent to Issue Revised Air Quality Operating Permit 65-00853.

65-00853: ArcelorMittal Monessen, LLC (345 Donner Avenue, Monessen, PA 15062). Approval of a Renewed Title V Operating Permit and Reasonably Available Control Technology (RACT II) Plan to ArcelorMittal Monessen, LLC, for the Monessen Plant, located in the City of Monessen, **Westmoreland County**.

In accordance with 25 Pa. Code §§ 127.424, 127.425, and 127.521, the Department of Environmental Protection (DEP) is providing notice that it intends to issue a renewed Title V operating permit (TV-65-00853) to ArcelorMittal Monessen, LLC to authorize the continued operation for the facility. The Monessen Plant is a metallurgical coke plant.

The Monessen Plant is a by-product recovery, coal coking plant that produces furnace coke. The coke is used by ArcelorMittal in blast furnaces at other facilities. The main emission sources at Monessen Plant are two coke batteries (37 and 19 slot type ovens, respectively), each exhausting to an individual combustion stack, two excess coke oven gas (COG) flares, and two Boilers (143 MMBtu/hr each, COG and NG). The facility also generates charging, pushing, quenching, underfiring, door leak, top side, and soaking emissions from the coke batteries, as well as emissions from a coke by-product plant, desulfurization unit, 900-bp emergency diesel engine, and plant roads. Emissions are controlled by desulfurization of the coke oven gas prior to its combustion, as well as LDAR and EPA MACT mandated monitoring and repair procedures.

Annual facility-wide potential emissions are 1,423 tons of CO, 775 tons of NO_x, 97 tons of VOC, 97 tons of PM_{10}, and 83 tons of $PM_{2.5}$. It also emits 5.2 tons of hydrogen chloride, 3.7 tons of benzene, and 2.5 tons of coke oven emissions. The annual sum of all HAP emissions is 15.2 tons. Annual emission of greenhouse gases is 177,072 tons per year. Sources at the facility are subject to 40 CFR Part 60, Subpart A—General Provisions, 40 CFR Part 60, Subpart Db—Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 61, Subpart A—General Provisions, 40 CFR Part 61, Subpart L—National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants, 40 CFR Part 61, Subpart V—National Emission Standard for Equipment Leaks (Fugitive Emission Sources), 40 CFR Part 61, Subpart FF—National Emission Standard for Benzene Waste Operations, 40 CFR Part 63, Subpart A—General Provisions, 40 CFR Part 63, Subpart L—National Emission Standards for Coke Oven Batteries, 40 CFR Part 63, Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating

Internal Combustion Engines, and 25 Pa. Code Chapters 121—145. (Air Resources) No equipment changes are being approved by this action. The permit includes emission limitations and operational, monitoring, testing, recordkeeping, workpractice, and reporting requirements for the plant.

Furthermore, in accordance with 25 Pa. Code §§ 129.96—129.100, the Pennsylvania Department of Environmental Protection has made a preliminary determination to approve a RACT II Plan and an amendment to the State Implementation Plan (SIP) for the aforementioned facility.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997, 2008, and 2015 National Ambient Air Quality Standard (NAAQS) for ozone.

The proposed amendments to the RACT II determination, if finally approved, will be incorporated into a renewed and revised Operating Permit (TVOP-65-00853) for the facility. The relevant RACT II requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT II determination will be excluded from the SIP submittal.

The following is a summary of the proposed amendments to the RACT II determination for this operation that will be submitted to the EPA as a SIP revision. RACT I requirements that will be retained in the SIP are also shown for clarity:

Source	*NO_x and VOC RACT*	*TVOP No. 65-00853 Condition No.*
Source ID—032 Two Tampella Boilers (143 MMBtu/Hr, Each)	NO_x RACT II—GOP (GOP means Good Operating Practice.)	Section D, Source ID 032, Condition # 005
	VOC RACT II—GOP	
	(NO_x RACT I maximum emission limits of: 112.1 tpy Total and	Section D, Source ID 032, Condition # 003
	VOC RACT I maximum emission limits of: 2.7 tpy Total were retained.)	
Source ID 805 Coke Battery Operations—Underfiring	NO_x RACT II—GOP	Section D, Source ID 805, Condition # 006
	VOC RACT II—GOP	
	(NO_x RACT I maximum emission limits of: Battery 1B Stack 357.0 tpy 81.5 lb/hr Battery 2 Stack 260.2 tpy 59.4 lb/hr and VOC RACT I maximum emission limits of: Battery 1B Stack 21.9 tpy 5.0 lb/hr Battery 2 Stack 28.9 tpy 6.6 lb/hr were retained.)	Section D, Source ID 805, Condition # 004
Source ID 806 Coke Batteries—Door Leaks	VOC RACT II—GOP	Section D, Source ID 806, Condition # 003
	VOC RACT I maximum emission limit of: 8.14 tpy for: The sum of: Fugitives (Coke Batteries—Sum of Combined Doors (Source ID (806) + Topside (807) + Soaking (808)) was retained.	

Public hearing: A public hearing regarding the Title V Operating Permit and RACT II Plan for this facility will be held on March 18, 2020, from 9:30—10:00 a.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. To register to speak at a hearing, or to inquire if a hearing will be held, please contact Thomas Joseph at 412.442.4336. The last day to pre-register to speak at the hearing is March 15, 2020. If we do not receive any pre-registered speakers by this date, the hearing will be cancelled.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at: https://www.dep.pa.gov/About/Regional/SouthwestRegion/Community%20Information/Pages/default.aspx. We ask that you contact Thomas Joseph at 412.442.4336 or monitor our website to determine if a hearing will be held.

Persons wishing to present testimony at the hearing should contact Thomas Joseph at 412.442.4336 at least two days in advance of the hearing to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222.

Persons wishing to file a written protest or provide comments or additional information may submit the information to Mark Gorog, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. A 30-day comment period from date of publication will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the RACT II Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to the RACT II Plan or the operating permit renewal.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. Appointments for scheduling a review may be made online at https://www.dep.pa.gov/Citizens/PublicRecords/Pages/Informal-File-Review.aspx or by calling the Department at 412.442.4000.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations to do so should contact Lauren Fraley at 412.442.4203 or the Pennsylvania AT&T Relay Service at 1.800.654.5984 (TDD) to discuss how the Department may accommodate your needs.

Notice of Proposed Revision to the State Implementation Plan for Oxides of Nitrogen and Volatile Organic Compounds, and Notice of Public Hearing for the Revised Air Quality Operating Permit 46-00020.

Southeast Region: 2 East Main Street, Norristown, PA 19401, 484-250-5900.

Approval of a Reasonably Available Control Technology (Alternate RACT II) plan for **Superior Tube Company** located in Lower Providence Township, **Montgomery County**.

In accordance with 25 Pa. Code §§ 129.96—129.100, the Pennsylvania Department of Environmental Protection (DEP) has made a determination for an alternate Reasonably Available Control Technology II (RACT II) plan and seeks approval of the amendment to the State Implementation Plan (SIP) for the various tubing, bands and coils of steel manufacturing facility owned and operated by Superior Tube Company in Lower Providence Township, Montgomery County.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997 National Ambient Air Quality Standard (NAAQS) and the 2008 NAAQS for ozone.

The proposed amendments to the RACT II determination, have been incorporated into this revised operating permit 46-00020 for the facility. After the public participation requirements of 40 C.F.R. 51.102 are met, including that public hearings to be held on the dates and at the location advertised below, the relevant RACT II requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 C.F.R. Part 51 and approval by the EPA. Requirements that are not part of the RACT II determination will be excluded and/or redacted from the SIP submittal.

The following is a summary of the proposed amendments to the RACT II determination for this operation that will be submitted to the EPA as a SIP revision.

Source Description	*Proposed VOC RACT*	*TVOP No. 46-00020 Condition No.*
101—Flush/Blowout Booth	25 Pa. Code § 129.99	Section D, Condition # 001
	25 Pa. Code § 129.100(d)	Section D, Condition # 004
102—Flush/Blowout Booth	25 Pa. Code § 129.100(d)	Section D, Condition # 004
	25 Pa. Code § 129.99	Section D, Condition # 001
103—Lubricant Spray Booth	25 Pa. Code § 129.100(d)	Section D, Condition # 003
	25 Pa. Code § 129.99	Section D, Condition # 001
	25 Pa. Code § 129.99	Section D, Condition # 002
117—Solvent Cleaner Tank	25 Pa. Code § 129.99	Section D, Condition # 001
124—Lubricant Spray Booth	25 Pa. Code § 129.100(d)	Section D, Condition # 003
	25 Pa. Code § 129.99	Section D, Condition # 001
	25 Pa. Code § 129.100(d)	Section D, Condition # 002

Source Description	*Proposed VOC RACT*	*TVOP No. 46-00020 Condition No.*
125—General Source Fugitive Emissions	25 Pa. Code § 129.99	Section D, Condition # 001

Public hearing: The hearing will be held on March 16, 2020 at 10:00 a.m. at the Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. To register to speak at the hearing, or to inquire if the hearing will be held, please contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808. The last day to pre-register to speak at the hearing will be March 9, 2020. If the Department does not receive any pre-registered speakers by this date, the hearing will be cancelled.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at: http://www.dep.pa.gov/About/Regional/SoutheastRegion/Community%20Information/Pages/default.aspx.

Please contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 or monitor the Department's website to determine if a hearing will be held.

Persons wishing to present testimony at the hearing should contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 at least one week in advance of the hearing to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to James Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401.

Persons wishing to file a written protest or provide comments or additional information, which they believe should be considered prior to the issuance of a permit, may submit the information to James Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. A 30-day comment period from February 15, 2020 will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the proposed RACT II Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to issuance of the proposed RACT II Plan.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. Appointments for scheduling a review may be made by calling the Department at 484-250-5910.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations to do so should contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 or the Pennsylvania AT&T Relay Service at 1-800-654-5984 (TDD) to discuss how the Department may accommodate your needs.

Air Quality; Notice of Proposed Revision to the State Implementation Plan for Oxides of Nitrogen, Volatile Organic Compounds and Notice of Public Hearing for the Revised Air Quality Operating Permit 23-00012.

In accordance with 25 Pa. Code §§ 129.91—129.100, the Department of Environmental Protection (DEP) has made a determination for an alternate Reasonably Available Control Technology I and II (RACT I and II)) plan and seeks approval of the amendment to the State Implementation Plan (SIP) for the polypropylene manufacturing facility owned and operated by **Braskem America, Inc.** in Marcus Hook Borough, **Delaware County**. Since there was an ambiguity with what was intended in the original RACT I Plan, DEP will request that the RACT I plan be removed and replaced with the RACT II plan, which will contain conditions more protective of the environment.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the amended RACT II approval for the facility, which are intended to satisfy the requirements for the 1997 National Ambient Air Quality Standard (NAAQS) and the 2008 NAAQS for ozone.

The proposed amendments to the RACT determination, have been incorporated into this revised operating permit 23-00012 for the facility. Besides the RACT Conditions, the permit also serves as a renewal, pursuant to 25 Pa. Code § 127.446. After the public participation requirements of 40 CFR 51.102 are met, including that a public hearing be held on the date and at the location advertised below, the relevant RACT requirements will be submitted to the U.S. Environmental Protection Agency (EPA) as a revision to Pennsylvania's State Implementation Plan and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT determination will be excluded and/or redacted from the SIP submittal.

The following is a summary of the proposed amendments to the RACT determination for this operation that will be submitted to the EPA as a SIP revision:

Source Description	*Proposed VOC RACT*	*TVOP No. 23-00012 Condition No.*
101A—Plant 1 Three Storage Silos	VOC Emissions ≤ 12.10 tons/year on 12-month rolling basis	Section D, Condition # 003(a)
	Monitoring	Section D, Condition # 005(a), #006(b)

Source Description	*Proposed VOC RACT*	*TVOP No. 23-00012 Condition No.*
	Recordkeeping 25 Pa. Code § 129.100(d)	Section D, Conditions # 006 (c), #007
101B—Plant 2 Three Storage Silos	VOC Emissions ≤ 4.64 tons/year on a 12-month rolling basis	Section D, Condition # 003
	Monitoring	Section D, Conditions # 008, # 009(b)
	Recordkeeping 25 Pa. Code § 129.100(d)	Section D, Condition # 009(c), # 010
Total Plant 1— Silos, Polypropylene Mfg. Sources and Fugitive Emissions. 101A, 102A and 103A	VOC Emissions ≤10/hr and ≤ 240 lb/day, calculated as a 12-month rolling average	Section D Source 101A Condition # 003(b) Source 102A Condition # 002 Source 103A Condition # 003
	Monitoring	Section D Source 101A Condition # 005 Source 102A Conditions # 006, # 008(a)(1), (2) Source 103A Condition # 005
	Recordkeeping 25 Pa. Code § 129.100	Section D, Source 101A Condition # 006(d) Source 102A Conditions # 008(b), # 009 Source 103A Condition # 008
102A—Plant 1 Polypropylene Manufacturing Sources	Flare Control Device Efficiency and Standards per 40 CFR Part 60, Subpart DDD	Section D, Condition # 004
	Monitoring	Section D, Condition # 007
	Recordkeeping	Section D, Conditions # 010(a), (b), (c), (d)
102B—Plant 2 Polypropylene Manufacturing Sources	Flare Control Device Efficiency and Standards per 40 CFR Part 60, Subpart DDD	Section D, Condition # 003
	Monitoring	Section D, Condition # 006
	Recordkeeping 25 Pa. Code § 129.100(d)	Section D, Condition # 009(a),(b),(c),(d)
106 Propylene Splitter Process and Cavern 4	Flare Control Device Efficiency and Standards per 40 CFR Part 60, Subpart DDD	Section D, Condition # 001
	Recordkeeping 25 Pa. Code § 129.100(d)	Section D, Condition # 008(a)
107 Propylene Unloading Rack	Flare Control Device Efficiency and Standards per 40 CFR Part 60, Subpart DDD	Section D, Condition # 002
	Recordkeeping 25 Pa. Code § 129.100(d)	Section D, Condition # 010(a)

Public hearing: The hearing will be held March 16, 2020 at 2:00 PM at the Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. To register to speak at the hearing, or to inquire if the hearing will be held, please contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808. The last day to pre-register to speak at the hearing will be March 9, 2020. If we do not receive any pre-registered speakers by this date, the hearing will be cancelled.

Please note that any updates made to any aspect of the hearing, including whether or not a hearing will be held, will be posted online at http://www.dep.pa.gov/About/Regional/SoutheastRegion/Community%20Information/Pages/default.aspx.

We ask that you contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 or monitor our Web site to determine if a hearing will be held.

Persons wishing to present testimony at the hearing should contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 at least one week in advance of the hearing to reserve a time to present testimony. Oral testimony will be limited to a maximum of 10 minutes per individual and two written copies of the oral testimony are requested. Each organization is requested to designate one witness to present testimony on its behalf. Persons unable to attend the hearing, if it is held, may submit three (3) copies of a written statement and exhibits within 10 days thereafter to James Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401.

Persons wishing to file a written protest or provide comments or additional information, which they believe should be considered prior to the issuance of a permit, may submit the information to the James Rebarchak, Environmental Program Manager, Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main

Street, Norristown, PA 19401. A 30-day comment period from February 15, 2020 will exist for the submission of comments, protests and information. Each submission must contain the name, address and telephone number of the person submitting the comments, identification of the proposed RACT I and II Operating Permit including the permit number and a concise statement regarding the relevancy of the information or objections to issuance of the proposed RACT I and II Plan.

All pertinent documents are available for public review between 8 a.m. and 4 p.m. at the Pennsylvania Department of Environmental Protection, Southeast Regional Office, 2 East Main Street, Norristown, PA 19401. Appointments for scheduling a review may be made by calling the Department at 484-250-5910.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations to do so should contact Virginia Cain, Environmental Community Relations Specialist at 484-250-5808 or the Pennsylvania AT&T Relay Service at 1-800-654-5984 (TDD) to discuss how the Department may accommodate your needs.

RADIATION PROTECTION

Notice of Certification to Perform Radon-Related Activities in Pennsylvania

In the month of January 2020 Department of Environmental Protection of the Commonwealth of Pennsylvania, under the authority contained in the Radon Certification Act, act of July 9, 1987, P.L. 238, No. 43 (63 P.S. §§ 2001—2014) and regulations promulgated thereunder at 25 Pa. Code Chapter 240, has certified the persons listed below to perform radon-related activities in Pennsylvania. The period of certification is two years. (For a complete list of persons currently certified to perform radon-related activities in Pennsylvania and for information as to the specific testing devices that persons certified for testing or laboratory are certified to use, contact the Bureau of Radiation Protection, Radon Division, P.O. Box 8469, Harrisburg, PA 17105-8469, (1-800-23RADON).)

Name	*Address*	*Type of Certification*
Berardelli Home Inspections	1639 Newton Ransom Blvd. Clarks Summit, PA 18411	Testing
Michael Cantor Pest Blaster	412 Bow Hill Avenue Hamilton, NJ 08610	Testing
Ivan Cilik	9125 Marshall Road, Ste, B-12 Cranberry Township, PA 16066	Testing
Joseph Cline	P.O. Box 1145 Mechanicsburg, PA 17055	Testing
George Conklin, IV	1351 West Winter Road Loganton, PA 17747	Mitigation
Kevin Crane CEI/ HouseMaster Home Inspections	435 Crescent Moon Drive Cogan Station, PA 17728	Testing
James DeBellis	2700 Cumberland Avenue Reading, PA 19606	Testing
Jason Elliott	255 Squankum Road Farmingdale, NJ 07727	Laboratory Analysis
Harold Henry	1522 Poplar Street Erie, PA 16502	Testing
James Douglas Hert	82 Coal Bed Road Russell, PA 16345	Testing
Edward Johnston	1902 Concord Road Ambridge, PA 15003	Testing
Daniel Jones	6 Chestwood Drive Connellsville, PA 15425	Testing
Ryan Lingold	63 South 7th Street Emmaus, PA 18049	Testing
Shawn McConnell	31 Leisurely Lane Middleburg Center, PA 16935	Testing
Dwayne Ott	311 Bell Tip Road Tyrone, PA 16686	Testing
Michael Peters	101 Easy Street Renfrew, PA 16053	Testing
John Quimby, IV	9163 Lancelot Drive Pittsburgh, PA 15237	Testing
Timothy Quinn, Jr.	322 Mall Boulevard, # 303 Monroeville, PA 15146	Testing
Frederick Ruziecki	P.O. Box 205 Wind Gap, PA 18091	Testing

Name	*Address*	*Type of Certification*
David Scholtz	P.O. Box 118 Effort, PA 18330	Laboratory Analysis
Bruce Thomas	36 East Tacoma Avenue Latrobe, PA 15650	Testing
Garry Waltersdorff, Jr.	245 Steam Boat Boulevard Manchester, PA 17345	Testing
Owen Wilcoxson	426 Joliette Avenue Erie, PA 16511	Testing

MINING

Invitation for Bids to Perform Mine Drainage Treatment System O&M under Act 181 of 1984.

Moshannon District Mining Office: 186 Enterprise Drive, Philipsburg, PA 16866, 814-342-8200, (Contact: Janet Turner).

The Department of Environmental Protection is soliciting interest and bids for a five (5) year contract to operate and maintain mine drainage treatment systems in Centre, Clearfield, Clinton, and Sullivan Counties, Pennsylvania. The scope of work focuses on one chemical treatment facility in Burnside Township, Centre County (Site 1) and one chemical treatment facility in Morris Township, Clearfield County (Site 2). Secondary focus is nine (9) passive treatment systems located in Center, Clearfield, Clinton and Sullivan Counties (Site 3).

A mandatory pre-bid meeting will be conducted on Wednesday, February 26, 2020 at 9:00 A.M. at the Pine Glen treatment facility entrance road, intersection of SR-0879 (Pine Glen Road) and Short Dog Lane, Burnside Township, Centre County, Latitude: 41° 03′ 41.34″ Longitude: 78° 01′ 37.87″ (41.061483, -78.027186). Attendance (or a prior conference) is mandatory to place a bid for this contract.

Pre-registration is necessary via a letter of interest or verbal confirmation through Aaron Pontzer, Mining Permit and Compliance Specialist, Moshannon District Office, Department of Environmental Protection, 186 Enterprise Drive, Philipsburg, PA 16866, no later than 3:30 P.M., Monday, February 24, 2020. Telephone inquiries shall be directed to Aaron Pontzer at 814.342.8200. Proposal documents package will be provided at meeting. Only proposals from those in attendance will be considered for this contract.

WATER MANAGEMENT

Proposed Total Maximum Daily Loads (TMDLs) for the Cisna Run Watershed in Perry County.

Central Office: Bureau Director, Water Supply and Wastewater Management, P.O. Box 8467, Harrisburg, PA 17105-8467.

The Department of Environmental Protection will accept comments on the proposed TMDLs developed for the Cisna Run Watershed in Perry County. The TMDLs were established in accordance with the requirements of Section 303(d) of the Clean Water Act. The Pennsylvania Integrated Water Quality Monitoring and Assessment Report included impaired stream segments in the watershed. The listings of these segments were due to aquatic life use impairments caused by excessive siltation and nutrients from grazing related agriculture.

There currently are no State or Federal in-stream numerical water quality criteria for nutrients and sediment. Therefore, the Department utilized a reference watershed approach to implement the applicable narrative criteria. The proposed TMDL document sets allowable loadings of phosphorus and sediment in the Cisna Run Watershed. Phosphorus was chosen as the TMDL endpoint for nutrient impairments due to it being a suspected limiting nutrient in the watershed under natural conditions. Nonpoint source load allocations were made for cropland, hay/pasture land, streambank and farm animal source sectors present in the watershed. Data used in establishing these TMDLs were generated using a water quality analysis model (Model My Watershed) made available through the Stroud Water Research Center.

The following table shows the estimated current phosphorus and sediment loadings within the watershed, the prescribed "TMDL" values, and % reductions needed under annual average conditions.

Summary of "TMDL"-Based Load Reductions (expressed as annual average values) in the Cisna Run Watershed				
Watershed	*Pollutant*	*Existing Load (lbs/yr)*	*"TMDL" (lbs/yr)*	*% Reduction*
Cisna Run	Sediment	2,824,140	1,432,843	49
Cisna Run	Phosphorus	5,043	3,109	38

The following table shows the estimated current phosphorus and sediment loadings within the watershed, the prescribed "TMDL" values, and % reductions needed under 99th percentile daily loading conditions.

Summary of "TMDL"-Based Load Reductions (expressed as 99th percentile daily loading) in the Cisna Run Watershed				
Watershed	*Pollutant*	*Existing Load (lbs/d)*	*TMDL (lbs/d)*	*% Reduction*
Cisna Run	Sediment	105,659	52,366	50
Cisna Run	Phosphorus	213	128	40

The proposed TMDL document can be viewed at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/tmdl/CisnaRunTMDL.pdf.

Otherwise, copies of the proposed TMDL document or supporting information may be requested by contacting Michael Morris, Water Program Specialist, Bureau of Clean Water, Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105, Phone: 717-772-5670, e-mail: michamorri@pa.gov.

Written comments will be accepted at the above address. Comment submissions must be postmarked within 30 days after publication of this notice in the February 15, 2020 issue of the *Pennsylvania Bulletin*. The Department will consider all written comments submitted within the deadline prior to submitting the final TMDL to EPA for approval.

Proposed Total Maximum Daily Load (TMDL) for a Subwatershed of Little Fishing Creek in Centre County.

Central Office: Bureau Director, Water Supply and Wastewater Management, PO Box 8467, Harrisburg, PA 17105-8467.

The Department of Environmental Protection will accept comments on the proposed TMDL developed for a subwatershed of Little Fishing Creek in Centre County. The TMDL was established in accordance with the requirements of Section 303(d) of the Clean Water Act. The Pennsylvania Integrated Water Quality Monitoring and Assessment Report included impaired stream segments in the watershed. The listings of these segments were due to aquatic life use impairments caused by excessive siltation from agriculture and grazing related agriculture.

There currently are no State or Federal in-stream numerical water quality criteria for sediment. Therefore, the Department utilized a reference watershed approach to implement the applicable narrative criteria. The proposed TMDL document sets allowable loading of sediment in the Little Fishing Creek Subwatershed. Nonpoint source load allocations were made for cropland, hay/pasture land and streambank source sectors present in the subwatershed. Data used in establishing the TMDL were generated using a water quality analysis model (Model My Watershed) made available through the Stroud Water Research Center.

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" value, and % reductions needed under annual average conditions.

Summary of "TMDL"-Based Load Reductions (expressed as annual averages) in the Little Fishing Creek Subwatershed				
Watershed	*Pollutant*	*Existing Load (lbs/yr)*	*"TMDL" (lbs/yr)*	*% Reduction*
Little Fishing Creek	Sediment	5,819,898	4,028,591	31

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" value, and % reductions needed under 99th percentile daily loading conditions.

Summary of "TMDL"-Based Load Reductions (expressed as 99th percentile daily loading) in the Little Fishing Creek Watershed				
Watershed	*Pollutant*	*Existing Load (lbs/d)*	*TMDL (lbs/d)*	*% Reduction*
Little Fishing Creek	Sediment	195,267	116,479	40

The proposed TMDL document can be viewed at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/tmdl/LittleFishingCreekTMDL.pdf.

Otherwise, copies of the proposed TMDL document or supporting information may be requested by contacting: Michael Morris, Water Program Specialist, Bureau of Clean Water, Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105, Phone: 717-772-5670, e-mail: michamorri@pa.gov.

Written comments will be accepted at the above address. Comment submissions must be postmarked within 30 days after publication of this notice in the February 15, 2020 issue of the *Pennsylvania Bulletin*. The Department will consider all written comments submitted within the deadline prior to submitting the final TMDL to EPA for approval.

Proposed Total Maximum Daily Load (TMDL) for the Susquehecka Creek Watershed in Snyder County.

Central Office: Bureau Director, Water Supply and Wastewater Management, P.O. Box 8467, Harrisburg, PA 17105-8467.

The Department of Environmental Protection will accept comments on the proposed TMDL developed for the Susquehecka Creek Watershed in Snyder County. The TMDL was established in accordance with the requirements of Section 303(d) of the Clean Water Act. The Pennsylvania Integrated Water Quality Monitoring and Assessment Report included impaired stream segments in the watershed. The listings of these segments were due to aquatic life use impairments caused by excessive siltation from agriculture and grazing related agriculture.

There currently are no State or Federal in-stream numerical water quality criteria for sediment. Therefore, the Department utilized a reference watershed approach to implement the applicable narrative criteria. The proposed TMDL document sets allowable loading of sediment in the Susquehecka Creek Watershed. The TMDL included allocations for nonpoint sources, existing NPDES permitted point sources, a reserve for future point sources, as well as a margin of safety factor. Nonpoint source load allocations were made for cropland, hay/pasture land and streambank source sectors present in the watershed. Data used in establishing the TMDL were generated using a water quality analysis model (Model My Watershed) made available through the Stroud Water Research Center.

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" value, and % reductions needed under annual average conditions.

Summary of "TMDL"-Based Load Reductions (expressed as annual averages) in the Susquehecka Creek Watershed				
Watershed	*Pollutant*	*Existing Load (lbs/yr)*	*"TMDL" (lbs/yr)*	*% Reduction*
Susquehecka Creek	Sediment	3,289,958	2,880,995	12

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" value, and % reductions needed under 99th percentile daily loading conditions.

Summary of "TMDL"-Based Load Reductions (expressed as 99th percentile daily loading) in the Susquehecka Creek Watershed				
Watershed	*Pollutant*	*Existing Load (lbs/d)*	*TMDL (lbs/d)*	*% Reduction*
Susquehecka Creek	Sediment	129,766	112,966	13

The proposed TMDL document can be viewed at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/tmdl/SusqueheckaCreekTMDL.pdf.

Otherwise, copies of the proposed TMDL document or supporting information may be requested by contacting: Michael Morris, Water Program Specialist, Bureau of Clean Water, Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105, Phone: 717-772-5670, e-mail: michamorri@pa.gov.

Written comments will be accepted at the above address. Comment submissions must be postmarked within 30 days after publication of this notice in the February 15, 2020 issue of the *Pennsylvania Bulletin*. The Department will consider all written comments submitted within the deadline prior to submitting the final TMDL to EPA for approval.

Proposed Total Maximum Daily Load (TMDL) for a Subwatershed of Sweitzers Run in Union County.

Central Office: Bureau Director, Water Supply and Wastewater Management, P.O. Box 8467, Harrisburg, PA 17105-8467.

The Department of Environmental Protection will accept comments on the proposed TMDL developed for a subwatershed of Sweitzers Run in Union County. The TMDL was established in accordance with the requirements of Section 303(d) of the Clean Water Act. The Pennsylvania Integrated Water Quality Monitoring and Assessment Report included impaired stream segments in the watershed. The listings of these segments were due to aquatic life use impairments caused by excessive siltation and nutrients from grazing related agriculture. This document was prepared to address phosphorus, and a separate document was prepared to address sediment.

There currently are no State or Federal in-stream numerical water quality criteria for nutrients. Therefore, the Department utilized a reference watershed approach to implement the applicable narrative criteria. The proposed TMDL document sets allowable loadings of phosphorus in a subwatershed of Sweitzers Run. Phosphorus was chosen as the TMDL endpoint for nutrient impairments due to it being a suspected limiting nutrient in the watershed under natural conditions. Nonpoint source load allocations were made for cropland, hay/pasture land, streambank and farm animal source sectors present in the watershed. Data used in establishing these TMDLs were generated using a water quality analysis model (Model My Watershed) made available through the Stroud Water Research Center.

The following table shows the estimated current phosphorus loading within the watershed, the prescribed "TMDL" values, and % reduction needed under annual average conditions.

Summary of "TMDL"-Based Load Reductions (expressed as annual average values) in the Sweitzers Run Subwatershed				
Watershed	*Pollutant*	*Existing Load (lbs/yr)*	*"TMDL" (lbs/yr)*	*% Reduction*
Sweitzers Run	Phosphorus	3,393	2,149	37

The following table shows the estimated current phosphorus loading within the watershed, the prescribed "TMDL" values, and % reduction needed under 99th percentile daily loading conditions.

Summary of "TMDL"-Based Load Reductions (expressed as 99th percentile daily loading) in the Sweitzers Run Subwatershed				
Watershed	*Pollutant*	*Existing Load (lbs/d)*	*TMDL (lbs/d)*	*% Reduction*
Sweitzers Run	Phosphorus	145	105	28

The proposed TMDL document can be viewed at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/tmdl/SweitzersRunPhosphorusTMDL.pdf.

Otherwise, copies of the proposed TMDL document or supporting information may be requested by contacting: Michael Morris, Water Program Specialist, Bureau of Clean Water, Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105, Phone: 717-772-5670, e-mail: michamorri@pa.gov.

Written comments will be accepted at the above address. Comment submissions must be postmarked within 30 days after publication of this notice in the February 15, 2020 issue of the *Pennsylvania Bulletin*. The Department will consider all written comments submitted within the deadline prior to submitting the final TMDL to EPA for approval.

Proposed Total Maximum Daily Load (TMDL) for a Subwatershed of Sweitzers Run in Union County.

Central Office: Bureau Director, Water Supply and Wastewater Management, P.O. Box 8467, Harrisburg, PA 17105-8467.

The Department of Environmental Protection will accept comments on the proposed TMDL developed for a subwatershed of Sweitzers Run in Union County. The TMDL was established in accordance with the requirements of Section 303(d) of the Clean Water Act. The Pennsylvania Integrated Water Quality Monitoring and Assessment Report included impaired stream segments in the watershed. The listings of these segments were due to aquatic life use impairments caused by excessive siltation and nutrients from agriculture or grazing related agriculture. This document was prepared to address sediment, and a separate document was prepared to address phosphorus.

There currently are no State or Federal in-stream numerical water quality criteria for sediment. Therefore, the Department utilized a reference watershed approach to implement the applicable narrative criteria. The proposed TMDL document sets allowable loadings of sediment in a subwatershed of Sweitzers Run. Nonpoint source load allocations were made for cropland, hay/pasture land, streambank source sectors present in the watershed. Data used in establishing these TMDLs were generated using a water quality analysis model (Model My Watershed) made available through the Stroud Water Research Center.

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" values, and % reduction needed under annual average conditions.

Summary of "TMDL"-Based Load Reductions (expressed as annual average values) in the Sweitzers Run Subwatershed				
Watershed	*Pollutant*	*Existing Load (lbs/yr)*	*"TMDL" (lbs/yr)*	*% Reduction*
Sweitzers Run	Sediment	2,107,475	1,453,880	31

The following table shows the estimated current sediment loading within the watershed, the prescribed "TMDL" values, and % reduction needed under 99th percentile daily loading conditions.

Summary of "TMDL"-Based Load Reductions (expressed as 99th percentile daily loading) in the Sweitzers Run Subwatershed				
Watershed	*Pollutant*	*Existing Load (lbs/d)*	*TMDL (lbs/d)*	*% Reduction*
Sweitzers Run	Sediment	77,180	69,918	9

The proposed TMDL document can be viewed at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/tmdl/SweitzersRunSedimentTMDL.pdf.

Otherwise, copies of the proposed TMDL document or supporting information may be requested by contacting: Michael Morris, Water Program Specialist, Bureau of Clean Water, Pennsylvania Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105, Phone: 717-772-5670, e-mail: michamorri@pa.gov.

Written comments will be accepted at the above address. Comment submissions must be postmarked within 30 days after publication of this notice in the February 15, 2020 issue of the *Pennsylvania Bulletin*. The Department will consider all written comments submitted within the deadline prior to submitting the final TMDL to EPA for approval

[Pa.B. Doc. No. 20-215. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bond Schedule for the Calculation of Bond Amounts on Noncoal Mining Operations

The Department of Environmental Protection (Department) announces the bond schedule for noncoal mining operations. The authority for bonding noncoal mining operations is found under The Clean Streams Law (35 P.S. §§ 691.1—691.1001), the Noncoal Surface Mining Conservation and Reclamation Act (52 P.S. §§ 3301—3326) and the regulations promulgated thereunder at 25 Pa. Code Chapter 77, Subchapter D (relating to bonding and insurance requirements). The rates listed in this schedule will be used in calculating the bonds for surface noncoal mining operations including surface mines and facilities and the surface facilities of underground mining operations. Other activities, including special revegetation plans, wetland mitigation or stream channel restoration, will be estimated on a case-by-case basis.

Under 25 Pa. Code § 77.202 (relating to determination of bond amount), the Department is providing notice of the bond schedule for bonding noncoal surface mine sites.

The bond schedule reflects the requirement that the amount of bond shall be the estimated cost to the Department if it had to complete the reclamation, restoration and abatement work under the Noncoal Surface Mining Conservation and Reclamation Act. The rates will become effective upon publication and will remain in effect until they are revised through a subsequent notice.

The bond rate schedules are available at www.dep.pa.gov/Business/Land/Mining/BureauofMiningPrograms/Bonding/Pages/default.aspx. For background information and supporting documentation regarding bonding rate schedules, contact the Bureau of Mining Programs, Division of Permitting and Compliance, P.O. Box 8461, Harrisburg, PA 17105-8461, (717) 787-5103.

General Methodology

The basic approach to bonding large noncoal sites is to apply a flat per acre rate (to cover minor grading and revegetation) and supplement that with bond to account for spoil storage, backfilling, highwall blasting, demolition or other site-specific costs. For mine sites where consolidated material is mined below the water table, the reclamation bond calculation must account for reclamation slopes to a depth of 50 feet below the anticipated post-mining water level.

For sites that can be mined in lateral phases, the operator can choose to bond the permit area by phase. The operator must identify the portion of the permit area on which mining and reclamation activities will occur within the phase. The Department will calculate the bond liability based on the maximum portion of the permitted area that the permittee is authorized to disturb at any specific time. This area is described in the permittee's mining and reclamation plans and must include all the land affected by mining activities that is not planted, growing and stabilized.

Per Acre Rates Applicable to Disturbed (Not Reclaimed) Area

$3,500 per acre for mining area (this rate includes select grading and revegetation)

$1,900 per acre for support areas (this rate includes revegetation)

Spoil Storage/Earthmoving

The rate of $1.05 (cost per cubic yard) for grading applies to spoil stored or other additional earthmoving

(for example, backfilling for contour mines, subsoil replacement where more than 12 inches of soil is needed to meet post-mining land use or topsoil placement).

Blasting to Achieve the Reclamation Slope

The following rates apply to highwalls where blasting is necessary to achieve the final slope. Blaster's estimates may be used instead of these rates.

Table 1

Highwall/Bench Height (feet)	*Cost per Linear Foot of Highwall/Bench*
Up to 20	$10.00
21 up to 30	$20.00
31 up to 40	$40.00
41 up to 50	$55.00
>50	$75.00

Mine Sealing

Mine sealing costs should be calculated using the Bond Rate Schedule in Table 2.

Table 2

Mine Sealing Bond Rate Schedule[1]

Sealing Underground Mine Drift and Slope Openings

Unit Operation	*Unit Measure*	*Unit Costs ($)*
Concrete Work	Cubic Yard	114.00
Masonry Work	Square Foot	16.50
Fill Material and Earthwork	Cubic Yard	19.00
Security Fencing	Lineal Foot	32.50
Mobilization Cost	Job	4% of Total Amount

Sealing Underground Mine Shaft Openings

Unit Operation	*Unit Measure*	*Unit Costs ($)*
Concrete Material	Cubic Yard	110.00
Aggregate Material	Cubic Yard	32.50
Fill Material and Earthwork	Cubic Yard	8.50
Security Fencing	Lineal Foot	32.50
Mobilization Cost	Job	4% of Total Amount

Sealing Boreholes at Underground Mines

Dimension	*Minimum Cost Per Hole ($)*	*Unit Cost ($) Per Lineal Foot*
12-Inch or Less Diameter	1,850	6.50
Larger Than 12-Inch Diameter	2,450	9.00
Mobilization Cost	Job	4% of Total Amount

[1] Mine sealing costs are minimum costs. Additional costs per mine seal will be assessed based on specific design criteria, such as the thickness of the seal and the volume of backfill material required, using appropriate material, equipment and labor costs from BAMR bid abstracts or from an industry-standard cost estimation publication, for example, *Means Estimating Handbook* or *Walker's Building Estimator's Reference Book*.

Other Items

A flat rate of $3,800 will be used for each pond requiring reclamation. This rate includes dewatering, grading, topsoil replacement and revegetation.

Large equipment tires remaining at a site will be bonded at $300 per tire.

Available cost information will be used in the event that a unit operation necessary to calculate a reclamation bond is not listed in the schedule. If enough data is not available, the rate will be set from a standard reference like *Means Building Construction Cost Data* or *Walker's Building Estimator's Reference Book*.

Structure demolition costs for structures that are not compatible with the post-mining land use will be calculated using these references. Structures that have reasonable post-mining uses do not require bonding.

Mobilization

Add 4% of the amount, up to $40,000, for mobilization costs.

Large Noncoal—Unconsolidated Material

Mining of unconsolidated material includes sites where the mining is above and below groundwater. The cost of reclamation for these two types of mining include selective grading to achieve the reclamation slopes and the safety bench around the water impoundment to meet the requirements of 25 Pa. Code § 77.594 (relating to final slopes).

The cost to grade the highwall to the approved reclamation slope above the groundwater table will be calculated based on the area of the highwall (determined by the length of highwall to be reclaimed multiplied by the horizontal width of the reclamation slope) to be reclaimed and the height of the highwall. The Department will use the following rates for bonding permits mining unconsolidated material:

$1,700 per acre for mining up to 35 feet

$2,400 per acre for 36 to 65 feet

$5,000 per acre over 65 feet

The cost to establish the safety bench on water impoundments will be calculated based on the area around the perimeter of the impoundment multiplied by the width of the safety bench. The Department will use $1,700 per acre for bonding the safety bench.

The Department will use the Bond Rate Schedule for spoil, storage and earthmoving (cost per cubic yard) for sites that will use unmarketable material to achieve the reclamation contours on unconsolidated material mine sites.

Small Noncoal Sites

For small noncoal sites that comply with 25 Pa. Code § 77.108(e)(4) (relating to permit for small noncoal operations) and the permit is 1 acre or less, the bond amount is $1,500 per acre and an additional $2,500 for mobilization/demobilization.

For small noncoal sites that comply with 25 Pa. Code § 77.108(e)(4) and the permit is over 1 acre, the following rates apply:

$1,830 per acre for support

$3,000 per acre for mining up to 35 feet

$4,000 per acre for 36 to 65 feet

$5,000 per acre over 65 feet

Small Noncoal—Consolidated Material

The Department will use the following rates for bonding permits mining consolidated material that need to exceed the 1-acre limit imposed by 25 Pa. Code § 77.108(e)(4). These are the rates that also apply to the General Permit for Bluestone (GP-105).

$1,830 per acre for support

$3,000 per acre for mining up to 35 feet

$4,000 per acre for 36 to 65 feet

$5,000 per acre over 65 feet

Additional $2,500 for mobilization/demobilization

Small Noncoal—Unconsolidated Material

A flat rate of $3,500 per acre should be used for small sand and gravel pits that exceed the 1-acre limitation of 25 Pa. Code § 77.108(e)(4).

Effective Date: February 15, 2020

PATRICK McDONNELL,
Secretary

[Pa.B. Doc. No. 20-216. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Cleanup Standards Scientific Advisory Board Meeting Cancelled

The February 27, 2020, meeting of the Cleanup Standards Scientific Advisory Board (Board) is cancelled. The next Board meeting is scheduled for Thursday, June 18, 2020, at 9:30 a.m. in Room 105, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA.

Questions concerning the June meeting should be directed to Troy Conrad at tconrad@pa.gov or (717) 783-9480. The agenda and meeting materials will be available through the Public Participation tab on the Department of Environmental Protection's (Department) web site at www.dep.pa.gov (select "Public Participation," then "Advisory Committees," then "Cleanup and Brownfields Advisory Committees," then "Cleanup Standards Scientific Advisory Board").

Persons in need of accommodations as provided for in the Americans with Disabilities Act of 1990 should contact the Department at (717) 772-3429 or through the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users) to discuss how the Department may accommodate their needs.

PATRICK McDONNELL,
Secretary

[Pa.B. Doc. No. 20-217. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Storage Tank Advisory Committee Meeting Cancellation

The March 3, 2020, meeting of the Storage Tank Advisory Committee (Committee) is cancelled. The next meeting is scheduled for Wednesday, June 10, 2020, at 10 a.m. in Room 105, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA.

Questions concerning the June meeting should be directed to Kris A. Shiffer at kshiffer@pa.gov or (717) 772-5809. The agenda and meeting materials will be available through the Public Participation tab on the Department of Environmental Protection's (Department) web site at www.dep.pa.gov (select "Public Participation," then "Advisory Committees," then "Cleanup and Brownfields Advisory Committees," then "Storage Tank Advisory Committee").

Persons in need of accommodations as provided for in the Americans with Disabilities Act of 1990 should contact the Department at (717) 772-5809 or through the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users) to discuss how the Department may accommodate their needs.

PATRICK McDONNELL,
Secretary

[Pa.B. Doc. No. 20-218. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF HEALTH

Long-Term Care Nursing Facilities; Requests for Exception

The following long-term care nursing facility is seeking an exception to 28 Pa. Code § 201.22(d), (e) and (j) (relating to prevention, control and surveillance of tuberculosis (TB)):

The Grove at Greenville
110 Fredonia Road
Greenville, PA 16125
FAC ID # 070402

This request is on file with the Department of Health (Department). Persons may receive a copy of a request for exception by requesting a copy from the Department of Health, Division of Nursing Care Facilities, Room 526, Health and Welfare Building, Harrisburg, PA 17120, (717) 787-1816, fax (717) 772-2163, ra-paexcept@pa.gov.

Persons who wish to comment on an exception request may do so by sending a letter by mail, e-mail or facsimile to the Division at the previously listed address.

Comments received by the Department within 10 days after the date of publication of this notice will be reviewed by the Department before it decides whether to approve or disapprove the request for exception.

Persons with a disability who wish to obtain a copy of the request and/or provide comments to the Department and require an auxiliary aid, service or other accommodation to do so should contact the Division at the previously

listed address or phone number, or for speech and/or hearing-impaired persons, call the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users).

RACHEL L. LEVINE, MD,
Secretary

[Pa.B. Doc. No. 20-219. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF HEALTH

Vehicle, Equipment and Supply Requirements for Emergency Medical Services Agencies

Under 28 Pa. Code § 1027.3(c) (relating to licensure and general operating standards), the Department of Health (Department) has the authority to publish in the *Pennsylvania Bulletin*, and update as necessary, vehicle construction and equipment and supply requirements for emergency medical services (EMS) agencies based upon the types of services they provide and the EMS vehicles they operate. An EMS agency that is licensed to operate as a quick response service (QRS), basic life support ambulance, intermediate life support ambulance, advanced life support ambulance, critical care ambulance, air ambulance, basic life support squad, intermediate life support squad and advanced life support squad service by the Department under 35 Pa.C.S. § 8129 (relating to emergency medical services agencies), shall maintain and have readily available in working order the following vehicle, equipment and supply requirements.

A. *Ground Ambulance Requirements*

Ground Ambulances: QRS/Basic Life Support/Intermediate Life Support/Advanced Life Support/Critical Care Transport/Basic Life Support Squad/Intermediate Life Support Squad/Advanced Life Support Squad

1. The ambulance must meet the requirements of Federal Specifications KKK 1822 and Ambulance Manufacturers Division (AMD) Standards in effect at the time of the vehicles manufacture. (Does not apply to a Squad Vehicle.)

2. The ambulance must meet the requirements in 75 Pa.C.S. (relating to Vehicle Code) for vehicle registration, annual safety inspection and liability insurance, and the requirements of all Department of Transportation regulations relating to flashing and revolving lights, including intersection lights.

3. Emblems and markings must be affixed to the ambulance exterior as follows:

a. The word "AMBULANCE" shall be mirror imaged in letters not less than 4″ high, centered above the grill. The placement of the word "AMBULANCE" shall be on the rear of the vehicle and the curved surface of the hood or can be placed on a flat bug screen. (Does not apply to a Squad Vehicle or QRS Vehicle.)

b. The words "EMS SQUAD," "PARAMEDIC," "ALS SQUAD," "BLS SQUAD" or "PARAMEDIC RESCUE" shall be mirror imaged in letters not less than 4″ high, centered above the grill. The placement of the wording identified in this section shall be on the rear of the vehicle and the curved surface of the hood, front bumper or can be placed on a flat bug screen. (Does not apply to ambulances, Fire Apparatus (for example, Rescue, Engine, Ladder, Tower and the like) that is primarily used for fire suppression or QRS Vehicle.)

c. "Star of Life" shall appear on the ambulance in the following sizes and numbers:

* Two 3″ size "Stars of Life" on each side of the word "AMBULANCE" on the hood of the vehicle or on a bug screen.

* Two 16″ size "Stars of Life" on the right and left side panels.

* Two 12″ size "Stars of Life" on the rear of the vehicle.

* One 32″ size "Star of Life" on the vehicle rooftop.

Note: All squad units must have at least 3″ size "Stars of Life," one on each side, and two in front and two on the rear of the vehicle. (Does not apply to QRS Vehicles.)

d. The Department issued licensure decal must be applied to right and left exterior sides of the vehicle in a conspicuous place.

e. A reflective chevron is not required. If used, a reflective chevron may be placed on the rear vertical surface of the exterior of the vehicle. The chevron pattern shall slant downward on both sides of the vehicle at an angle of 45° pointing in the direction of the bottom rear corner of the tailboard. The pattern shall resemble an inverted V with the point at the top center of the vehicle. The chevron shall use an alternating color pattern. The vertical panels shall be 8″ to 12″ wide and at least 24″ in height, and consist of alternating color retro-reflective stripes at least 4″ in width. If the panel height is greater than 36″ the stripes shall be 6″ wide, shall slope down at 45° and have a minimum of 270 square inches of retro-reflective area facing traffic.

4. The name of the EMS agency or its registered fictitious name in letters at least 3″ in size must appear on both the right and left exterior sides of the vehicle. The name must be the dominant lettering. Reference the Agency Name and Fictitious Name FAQ published on January 20, 2017.

a. The word "Ambulance" or words such as Emergency Medical Services, EMS and Rescue must also appear on both exterior sides and rear of the vehicle. (Does not apply to Squad Vehicle.)

5. The EMS vehicle must be equipped with an electronically operated audible warning device with a 100-watt or higher watt speaker.

6. The ambulance must have overhead interior lighting that illuminates the entire top surface of the patient litter, stair-well lighting and courtesy lights that must illuminate the ambulance's controls. (Does not apply to a Squad Vehicle or QRS Vehicle.)

7. The ambulance must have a dual battery system. (Does not apply to Squad Vehicle or QRS Vehicle.)

8. The ambulance must have two minimum 5-pound unit fire extinguishers (ABC dry chemical or carbon dioxide) in a quick-release bracket, one in the driver/cab compartment or in the body of the ambulance reachable from outside the vehicle and one in the patient compartment. When located in either the driver or patient compartment the mounting bracket shall be of a stable design. Each fire extinguisher must be intact with a safety seal, have been inspected within the previous 12 calendar months and have the appropriate completed inspection tag attached. (Squad and QRS Vehicles are only required to have one.)

9. The ambulance must have a power supply to generate sufficient current to operate all accessories without excessive demand on the generating system. All exterior and interior lighting and onboard equipment shall be able to run for at least 5 minutes without placing a demand on the engine.

10. The ambulance must have a nonskid floor that is flat, reasonably unencumbered, free of equipment in the walk-through areas and well maintained. (Does not apply to a Squad Vehicle or QRS Vehicle.)

11. The ambulance must have minimum interior dimensions of 60″ from floor to ceiling. (Does not apply to a Squad Vehicle or QRS Vehicle.)

12. The ambulance must have a patient partition to separate the patient area from the driver area. (Does not apply to a Squad Vehicle or QRS Vehicle.)

13. The ambulance must have storage cabinets with sliding doors or with latches, or have a cargo-type netting or other means to ensure against opening during vehicle movement. (Does not apply to a Squad Vehicle or QRS Vehicle.)

14. Bulky items such as portable radios and AEDs, oxygen equipment and jump bags must be secured at all times during patient transport to prevent them from falling on patients or crew or becoming projectiles if the vehicle is involved in an accident. Equipment on a Squad Vehicle or QRS must be in cabinets or otherwise secured at all times.

15. The ambulance must have two IV hangers mounted flush with the ceiling. (Does not apply to a Squad Vehicle or QRS Vehicle.)

16. The ambulance must have a litter for transporting a patient and at least five patient restraint straps (which includes a minimum of two shoulder restraint straps) in good operating condition that are secured to the litter. (Does not apply to a Squad Vehicle or QRS Vehicle.)

17. The ambulance must have a stair chair designed for patient extrication.

18. The ambulance must have a pediatric safe transport device. (Does not apply to a Squad Vehicle or QRS Vehicle.)

19. The ambulance must have doors that function properly with door seals that are not cracked, broken or missing pieces, and are otherwise in good condition.

20. The ambulance must have both "No Smoking Oxygen Equipped" and "Fasten Seat Belts" signs (in English) in both the driver and the patient compartment. A Squad and QRS Vehicle is required to have these signs in the driver compartment.

21. The ambulance must have operational heating, cooling and ventilation equipment meeting GSA KKK-1822 Standard. Must be capable of maintaining patient compartment temperature of 68°F to 78°F.

22. Required equipment and supplies shall be carried and readily available in working order and maintained in accordance with manufactures recommended/required operating standards.

23. The EMS vehicle must have current vehicle inspection validation issued by the state where the vehicle is registered.

24. The EMS vehicle must have communication equipment that is in compliance with the regional communication plan. This equipment shall allow for direct communication with a public safety answering point (PSAP) and hospitals in the agency response/service areas. A cellular phone may be used as a backup means of communication and not as the primary means of communication.

25. The ambulance must have an installed, onboard oxygen system with the following: (Does not apply to a Squad Vehicle or QRS Vehicle.)

a. At least 122 cubic feet supply of oxygen in a cylinder that is secured to provide maximum safety for patients and personnel. The oxygen cylinders shall be mounted with restraining devices, as required for the crashworthiness tests of AMD Standard 003, Oxygen Tank Retention System. A liquid oxygen system that provides the same volume of oxygen and meets AMD Standard 003 is also acceptable. Critical Care Transport ambulance must have onboard oxygen system with a capacity of a minimum of 6,800 liters.

b. The cylinder must have more than 500 liters of oxygen at all times (Critical Care Transport ambulance must have more than 1750 liters of oxygen at all times.) and be secured with at least three metal or nylon brackets while in the compartment.

c. The unit must be equipped with a reducing valve (from 2,000 psi to 50 psi line pressure).

d. The unit must be equipped with one flow meter with a range of 0—25 lpm delivery.

26. The ambulance must have an installed onboard suctioning system with the following components and/or capabilities: (Does not apply to Squad Vehicle.)

a. It is fitted with a large bore, nonkinking tubing.

b. It has power enough to provide within 4 seconds a vacuum of over 300 mm/Hg or 11.8 inches of water when the tube is clamped.

c. It is controllable for use on children and intubated patients. The vacuum gauge, when attached to the tubing, must be adjustable to the amount of vacuum needed to ensure that the unit can maintain vacuum levels without requiring continuous increase in control.

d. It is equipped with a lateral opening between the suction tube and the suction source.

B. *Air (Rotorcraft) Ambulance Requirements*

The following will apply to all air ambulances. The air ambulance must have:

1. The name of the air ambulance service or its registered fictitious name prominently displayed on the exterior of the aircraft. Reference the Agency Name and Fictitious Name FAQ published on January 20, 2017.

2. Exterior lighting that illuminates the tail rotor and pilot controllable search/spot/landing lights.

3. An "Air Worthiness Certificate" from the Federal Aviation Administration (FAA).

4. A patient litter capable of carrying one adult in the supine position and capable of being secured according to FAA requirements.

5. An FAA Form 337 with items 1 (which identifies the aircraft), 2 (which identifies the aircraft owner) and 7 (which shows that the aircraft is approved to "Return to Service") completed and signed by the appropriate FAA official.

6. Climate controls for maintaining an ambient cabin temperature of between 60°—85° during flight.

7. Sufficient interior lighting to allow for close observation of patients.

8. A physical barrier between the pilot, throttle, flight controls and radios and the patient(s).

9. Patient litter with manufacture approved straps.

10. A 110-volt electrical outlet for each patient transported.

11. Two-way radio communications for the pilot to be able to communicate with hospitals, PSAPs and ground ambulances in areas to which the air ambulance routinely provides service.

12. At least one headsets per crew member with built in communication among the crew when the aircraft is operating and noise levels prevent normal conversation.

13. One fully charged fire extinguisher rated at least 5 B:C securely mounted where it can be reached by the pilot or crewmembers. The fire extinguisher must be intact with safety seal, have been inspected within the previous 12 calendar months and have the appropriate inspection tag attached.

14. Installed onboard suctioning equipment that meets the same requirements as a transporting ground ambulance. (See requirements under Ground Ambulances.)

15. Must have a pediatric safe transport device.

16. An onboard oxygen system with the following:

a. Cylinders with a capacity of 1,200 liters.

b. The cylinders must have at least 1,650 psi at the time of inspection.

c. If a liquid oxygen system is used, manufacturer documentation must be provided that the system has at least a 1,200-liter capacity.

d. A flow meter with a range of 0—25 lpm delivery.

Equipment/Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
Portable Suction Unit with wide-bore tubing. Must achieve 300 mm/Hg or 11.8″ in 4 sec.	X	X	X	X	X	X	X	X	X
Suction catheters, pharyngeal: (Must be sterile) Size is FR									
Rigid (2)	X	X	X	X	X	X	X	X	X
Flexible 6 and 8 (1 each)		X	X	X	X	X	X	X	X
Flexible 10 or 12 (2)		X	X	X	X	X	X	X	X
Flexible 14 or 16 (2)		X	X	X	X	X	X	X	X
Airways:									
Nasopharyngeal (5 different sizes) Size 16, Size 24, Size 26, Size 32, Size 34 (1 of each)	X	X	X	X	X	X	X	X	X
Oropharyngeal (6 different sizes) Size 0, Size 1, Size 2, Size 3, Size 4, Size 5 (1 of each)	X	X	X	X	X	X	X	X	X
Sphygmomanometer:									
Child, Adult and Thigh (large) (1 each) Interchangeable gauges are permitted	X	X	X	X	X	X	X	X	X
Stethoscope (1) Adult and (1) Pediatric	X	X	X	X	X	X	X	X	X
Stethoscope Doppler (1)								X	X
Penlight (1)	X	X	X	X	X	X	X	X	X
Portable Oxygen Unit:									
Cylinder capacity of at least 300 Liters (D Size), with 500 psi Yoke Cylinder with a minimum total pressure of 500 psi	X	X	X	X	X	X	X		X
Nonsparking wrench/tank opening device	X	X	X	X	X	X	X	X	X
Gauge/flow meter not gravity dependent and can deliver 0—25 liter per minute	X	X	X	X	X	X	X	X	X
Full spare cylinder with at least 300-liter capacity	X	X	X	X	X	X	X		X
Cylinders must be secured in the vehicle at all times	X	X	X	X	X	X	X	X	X
Folding Litter/Collapsible Device (1)		X		X		X		X	

Equipment/Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
Oxygen Delivery Devices:									
Nasal Cannulas adult/pediatric 1 each	X	X	X	X	X	X	X	X	X
High concentration mask capable of providing 80% or greater concentration adult, pediatric, infant—1 each	X	X	X	X	X	X	X	X	X
Humidifier bottle (1)		X		X		X		X	
Adhesive Tape (4 rolls assorted) 1 roll must be hypoallergenic	X	X	X	X	X	X	X	X	X
Dressings:									
Multi Trauma (10 × 30) (4)	X	X	X	X	X	X	X	X	X
Occlusive (3 × 4) (4)	X	X	X	X	X	X	X	X	X
Sterile Gauze Pads (4 × 4) (25)	X	X	X	X	X	X	X	X	X
Soft self-adhering (6 rolls)	X	X	X	X	X	X	X	X	X
Bandage Shears (1)	X	X	X	X	X	X	X	X	X
Immobilization Devices:									
Cervical spine device (1)		X		X		X		X	
Long spine board (1)		X		X		X		X	
Rigid/Semi-rigid neck immobilizer S, M, L, pediatric (1 each) Multi-size are permitted and will suffice for the S, M, L (3)		X	X	X	X	X	X	X	X
Bag-Valve-Mask Devices:									
Hand operated infant/pediatric (450—700cc) (1) Must be capable of high concentration oxygen delivery with adult and pediatric masks to include neonatal, infant and child sizes	X	X	X	X	X	X	X	X	X
Pediatric length-based Drug Dosing/Equipment Sizing Tape, most current version available				X	X	X	X	X	X
Straps—9′ (5) (may substitute spider straps or speed clips for 3 straps)		X		X		X		X	
Splinting Devices:									
Lower extremity mechanical traction splint adult and pediatric (1 each or combination)		X		X		X		X	
Upper and Lower extremity splints (2 each)		X		X		X		X	
Sterile Water/Normal Saline (2 liters)		X	X	X	X	X	X	X	X
Sterile Burn Sheet (4′ by 4′) (2)	X	X	X	X	X	X	X	X	X
Cold Packs, Chemical (4)		X	X	X	X	X	X	X	X
Heat Packs, Chemical (4)		X	X	X	X	X	X	X	X
Triangular Bandages (8)	X	X	X	X	X	X	X	X	
Sterile OB Kits (2) (AIR 1)		X	X	X	X		X	X	X
Separate Bulb Syringe (1) Sterile		X	X	X	X	X	X	X	X
Sterile Thermal Blanket (Silver Swaddler) (1), or 1 roll of sterile aluminum foil for use on infants/newborns		X	X	X	X	X	X	X	X

Equipment/Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
Blankets (2)	X	X	X	X	X	X	X	X	
Sheets (4)		X		X		X		X	
Pillowcases (2)		X		X		X		X	
Pillow (1)		X		X		X		X	
Towels (4)		X		X		X		X	
Appropriate patient coverings capable of maintaining body temperature based on anticipated weather conditions									X
Disposable Tissues (1 box)		X		X		X		X	
Emesis Container (1)		X		X		X		X	
Urinal (1)		X		X		X		X	
Bed Pan (1)		X		X		X		X	
Disposable Paper Drinking Cups (3 oz.) (4)		X		X		X		X	
Regional Approved Triage Tags (20)	X	X	X	X	X	X	X	X	
Hand-lights (2)	X	X	X	X	X	X	X	X	
Hazard Warning Device (3)		X	X	X	X	X	X	X	
Emergency BLS/ALS Jump Kit (1)	X	X	X	X	X	X	X	X	
Survival Bag (1)									X
Emergency Response Guidebook (1) Current Ed.	X	X	X	X	X	X	X	X	
Thermometer—electronic digital, non-tympanic		X	X	X	X	X	X	X	X
Sharps Receptacle—Secured		X		X		X		X	
Instant Glucose (40% dextrose-d-glucose gel) or food grade substitute (for example, cake frosting) 45 grams		X	X	X	X	X	X	X	X
Personal Protective Equipment (PPE) Helmet, eye protection, gloves and high-visibility safety apparel (1 per crew member)	X	X	X	X	X	X	X	X	
Flight Helmet (1 per crew member) W/Comm.									X
Personal Infection Control Kit, which includes the following:									
Eye protection, clear, disposable (1 per crew member)	X	X	X	X	X	X	X	X	X
Gown/coat (1 per crew member)	X	X	X	X	X	X	X	X	X
Surgical Cap/Foot Coverings, disposable (1 set per crew member)	X	X	X	X	X	X	X	X	X
Exam Gloves (1 set per crew member)	X	X	X	X	X	X	X	X	X
Sharps Containers and Red Bags per Infectious Control Plan	X	X	X	X	X	X	X	X	X
N95 respirator (1 per crew member)	X	X	X	X	X	X	X	X	X
Hand Disinfectant—Nonwater hand disinfectant (1 container)	X	X	X	X	X	X	X	X	X
Sponges, Alcohol, Prep (10)				X	X	X	X	X	X
Endotracheal Tubes Sizes/ Quantities:									
2.5 mm or 3.0 mm (2 uncuffed)						X	X	X	X

Equipment/Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
3.5 mm or 4.0 mm (2 uncuffed)						X	X	X	X
4.5 mm or 5.0 mm (2)						X	X	X	X
5.5 mm or 6.0 mm (2)						X	X	X	X
6.5 mm or 7.0 mm (2)						X	X	X	X
7.5 mm or 8.0 mm (2)						X	X		X
8.5 mm or 9.0 mm (2)						X	X	X	X
(3) King LT™ Size 3, 4 and 5 or (3) i-gel® Size 3, 4 and 5 or (2) Combitubes™ Size 37 Fr and 41 Fr				X	X	X	X	X	X
Electronic Wave-Form Capnography				X	X	X	X	X	X
Laryngoscope handle with batteries and spare batteries and bulbs and the following blades:						X	X	X	X
Straight									
# 1 (S)						X	X	X	X
# 2 (M)						X	X	X	X
# 3 (L)						X	X	X	X
Curved									
# 3						X	X	X	X
# 4						X	X	X	X
Lubrication (2 cc or larger tubes) sterile water soluble (2)	X	X	X	X	X	X	X	X	X
Forceps, Magill (adult/pediatric 1 each)						X	X	X	X
Medication and Supplies:									
Per Statewide protocols, approved medications that must be kept within expiration dates		X	X	X	X	X	X	X	X
Nebulizer System (1)				X	X	X	X	X	X
Hypodermic needles:									
16—18 gauge (4), 20—22 gauge (4), 23—25 gauge, (4) Total of 12 and each must be individually wrapped and sterile. Two syringes of assorted sizes, including at least one with a 1 mL volume				X	X	X	X	X	X
Defibrillator/Monitor: *(FDA approved)*									
(HIGHER THAN IALS ONLY) Battery powered, monophasic or biphasic, energy dose range capable of treating adult and pediatric patients, paper readout, 12 lead electrocardiogram with transmit capabilities and pediatric/adult pads with pacing capabilities						X	X	X	X
12-Lead ECG									
Battery powered, 12 lead electrocardiogram with paper print out and transmit capabilities				X*	X*				
Defibrillator/Monitor Supplies:									
Defibrillator pads, (1) set of adult and (1) set of pediatric, electrodes (ECG, adult and pediatric sizes 12 each)				X	X	X	X	X	X

Equipment/Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
Automated External Defibrillator with pads, (1) set of adult and (1) set of Pedi Pads	X	X	X	X*	X*				
**IALS vehicles must be capable of obtaining and transmitting a 12-lead ECG and have an AED. To meet this requirement the AED and 12-Lead ECG can be met with a single device or by having two separate*									
CPAP Ventilation—portable equipment with (2) disposable masks				X	X	X	X	X	X
Stylette, Malleable—adult (1) must be sterile						X	X	X	X
Phlebotomy Equipment (per protocols)							X	X	X
Pulse Oximetry		X	X	X	X	X	X	X	X
Electronic Glucose Meter (Optional for BLS ambulance and BLS squad as of September 1, 2017)				X	X	X	X	X	X
"IV" fluid Therapy Supplies Catheters over the Needle sized 14, 16, 18, 20, 22 (4 each) and 24 (2)				X	X	X	X	X	X
Micro drip 50—60 drops/ml (2)						X	X	X	X
Macro drip 10—20 drops/ml (2)				X	X	X	X	X	X
IV solutions (2,000) ml total per Statewide protocols				X	X	X	X	X	X
Tourniquets for IV (2)				X	X	X	X	X	X
Intraosseous Needle 14—18 gauge (1 of each)						X	X	X	X
Commercial "Tactical" Tourniquet (2)	X	X	X	X	X	X	X	X	X
Copy of most current version of Statewide EMS Protocols	X	X	X	X	X	X	X	X	X
Aspirin, chewable, one small bottle		X	X	X	X	X	X	X	X
Bougie endotracheal tube introducer (1)								X	X
Video capable laryngoscope with appropriate sized blades (1)								X	X
Electronic wave-form capnography, nonintubated patient, capable of wave-form display (1)								X	X
Electronic wave-form capnograph, including gas sampler for intubated patient, capable of wave-form display (1)				X	X	X	X	X	X
Portable transport ventilator which must have the capabilities that include, but are not limited to, controlling rate, volume, Fi02, I:E Ratio, PEEP and volume control, pressure control, SIMV and NPPV modes. Device must have both volume and pressure modes and low/high pressure warning alarms (1)								X	X
Portable transport ventilator circuits appropriately sized for patient being transported (2)								X	X
3 1/4″ over the needle catheter in 10, 12 or 14 gauge (2)						X	X	X	X

Equipment / Supplies	*QRS*	*BLS Ambulance*	*BLS Squad*	*IALS Ambulance*	*IALS Squad*	*ALS Ambulance*	*ALS Squad*	*CCT*	*Air*
Automated noninvasive blood pressure monitoring device (1)								X	X
Endotracheal cuff pressure manometer (1)								X	X
Invasive pressure monitoring, electronic waveform, two-channel capability (1)								X	X
Portable Doppler (1)								X	X
Pelvic stabilization device (1)								X	X
Blood administration sets only if agency provides or maintains blood products (2)								X	X
Intravenous infusion pumps or one multi-channel unit capable of managing three simultaneous infusions (3)								X	X
Onboard oxygen with a capacity of a minimum of 6,800 liters								X	
Portable oxygen with a capacity of a minimum of 1,800 liters								X	
Inverter or generator capability of supporting all required equipment electrical needs								X	

All QRS, basic life support (BLS), intermediate advanced life support (IALS) and advanced life support (ALS) ambulances services, which also includes air (rotorcraft) agencies that are licensed to operate in this Commonwealth, shall collect, maintain and report accurate and reliable patient data and information for calls of assistance in the format prescribed using electronic forms provided or approved by the Department. An EMS agency shall file the report for any call to which it responds that results in patient care, assessment or refusal of the patient to be assessed. The report shall be made by completing an EMS patient care report and filing it, within 30 days, with the regional EMS council that is assigned responsibilities for the region in which the ambulance is based. It shall contain information specified by the Department. The Department will publish a list of the data elements and the form specifications for the EMS patient care report form in a notice in the *Pennsylvania Bulletin* and on the Department's web site. Electronic reporting shall conform with the requirements published in the *Pennsylvania Bulletin* notice. The Department will maintain a list of software it has determined to satisfy the requirements for electronic reporting.

Persons with a disability who require an alternative format of this notice (for example, large print, audiotape, Braille) should contact Aaron M. Rhone, Department of Health, Bureau of Emergency Medical Services, 1310 Elmerton Avenue, Harrisburg, PA 17110, (717) 787-8740. Persons with a speech or hearing impairment, call the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users).

RACHEL L. LEVINE, MD,
Secretary

[Pa.B. Doc. No. 20-220. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF HUMAN SERVICES

Disproportionate Share and Supplemental Hospital Payments

The Department of Human Services (Department) is providing final notice of its funding allocation for inpatient disproportionate share hospital (DSH) payments to qualifying inpatient acute care general, psychiatric and rehabilitation hospitals and qualifying psychiatric and rehabilitation units of acute care general hospitals; outpatient supplemental payments to qualifying inpatient acute care general hospitals; direct medical education payments to qualifying inpatient acute care general hospitals; and certain DSH and supplemental payments to new hospitals for Fiscal Year (FY) 2019-2020. The Department is also providing final notice of clarification of the payment methodology for new hospitals eligible for Medical Assistance Dependency supplemental payments.

The Department published notice of its intent to allocate funding for these payments at 49 Pa.B. 5525 (September 21, 2019). The Department received no public comments during the 30-day comment period and will implement the changes as described in its notice of intent.

Fiscal Impact

The FY 2019-2020 impact, as a result of the funding allocation for these payments, is $258.953 million ($112.150 million in State general funds and $146.803 million in Federal funds).

TERESA D. MILLER,
Secretary

Fiscal Note: 14-NOT-1381. (1) General Fund; (2) Implementing Year 2019-20 is $112,150,000; (3) 1st Succeeding Year 2020-21 through 5th Succeeding Year 2024-25 are $0; (4) 2018-19 Program—$342,544,000; 2017-18 Program—$477,690,000; 2016-17 Program—$450,970,000; (7) Medical Assistance—Fee-for-Service; (8) recommends adoption. Funds have been included in the budget to cover this increase.

[Pa.B. Doc. No. 20-221. Filed for public inspection February 14, 2020, 9:00 a.m.]

DEPARTMENT OF HUMAN SERVICES

Nursing Facility Assessment Program for Fiscal Year 2019-2020

This notice announces the amount of the assessment that the Department of Human Services (Department) is implementing for Fiscal Year (FY) 2019-2020, provides an explanation of the assessment methodology that the Department is using in FY 2019-2020 and identifies the estimated aggregate impact on nursing facilities which will be subject to the assessment.

Background

Article VIII-A of the Human Services Code (code) (62 P.S. §§ 801-A—815-A) authorizes the Department to impose an annual monetary assessment on nursing facilities and county nursing facilities in this Commonwealth each fiscal year through FY 2021-2022. Under Article VIII-A of the code, the Department may impose the assessment only to the extent that the assessment revenues qualify as the State share of Medical Assistance (MA) Program expenditures eligible for Federal financial participation (FFP). See 62 P.S. § 803-A. To ensure receipt of FFP, Article VIII-A of the code requires the Department to seek a waiver from the Centers for Medicare & Medicaid Services if necessary to implement the Assessment Program. See 62 P.S. § 812-A.

For each fiscal year that the Assessment Program is implemented, the code authorizes the Secretary of the Department (Secretary) to determine the aggregate amount of the assessment and the annual assessment rate in consultation with the Secretary of the Budget. See 62 P.S. § 804-A. The code specifies that annual assessment rates must be sufficient to generate at least $50 million in additional revenue, but not more than the maximum aggregate assessment amount that qualifies for Federal matching funds. See 62 P.S. § 804-A.

The Secretary must publish a notice in the *Pennsylvania Bulletin* before imposing an annual assessment for a fiscal year. The notice must specify the amount of the assessment being proposed, explain the proposed assessment methodology, identify the estimated assessment amount and aggregate impact on nursing facilities subject to the assessment and provide interested persons a 30-day period to comment. See 62 P.S. § 805-A.

After consideration of any comments received during the 30-day comment period, the Secretary must publish a second notice announcing the rate of assessment for the fiscal year. See 62 P.S. § 805-A. The annual aggregate assessment amount and assessment rate for the fiscal year must be approved by the Governor. See 62 P.S. § 804-A.

The Secretary published a notice at 49 Pa.B. 3412 (June 29, 2019) announcing the proposed assessment rates, the aggregate amount and the impact for FY 2019-2020. No comments were received by the Department in response to the proposed rates notice.

Assessment Methodology and Rates for FY 2019-2020

The following nursing facilities will continue to be exempt from the Assessment Program in FY 2019-2020:

(1) State-owned and operated nursing facilities.

(2) Veteran's Administration nursing facilities.

(3) Nursing facilities that provide nursing facility services free of charge to all residents.

(4) Newly licensed nursing facilities that have not been licensed and operated by the current or previous owner will be exempt until the nursing facility's days are included in the data used as the basis of the assessment. A nursing facility that changes ownership is not considered a newly licensed nursing facility for assessment purposes.

The Department will continue to assess nonexempt nursing facilities at two rates. One rate will apply to the following five categories of nursing facilities:

- County nursing facilities.
- Nursing facilities that have 44 or fewer licensed beds.
- Certain continuing care retirement community (CCRC) nursing facilities (see 40 Pa.B. 7297 (December 18, 2010)).
- Nursing facilities with an MA occupancy rate of at least 94% based on Calendar Year (CY) 2017 resident days as of November 26, 2018. For the purpose of qualifying for the lower assessment rate, a nursing facility's MA occupancy rate will be calculated as follows: MA Occupancy Rate = Sum of Total PA MA Days from the CY 2017 resident days data ÷ Sum of Total Resident Days from the CY 2017 resident days data, rounded to two decimals.
- Nursing facilities with at least 125,000 MA days and with an overall occupancy rate of 90% or higher based on the CY 2017 resident days as of November 26, 2018. For the purpose of qualifying for the lower assessment rate, a nursing facility's overall occupancy rate will be calculated as follows: Overall Occupancy Rate = Sum of Total Resident Days from CY 2017 resident days as of November 26, 2018 ÷ (number of licensed beds as of November 25, 2018 × 365), rounded to two decimals.

The other rate will apply to all other nonexempt facilities, including nursing facilities that began participation in a CCRC on or after July 1, 2010. Using the applicable rate, the Department will calculate an annual assessment amount for each nonexempt facility by multiplying its assessment rate by the facility's historical non-Medicare resident days for CY 2017. The Department will collect the annual assessment amount in four equal quarterly installments.

Although the Department will maintain essentially the same basic rate structure for FY 2019-2020 as in FY 2018-2019, the Department is decreasing the assessment rates uniformly for nonexempt nursing facilities by $0.10 from last year's rates. For FY 2019-2020, the assessment rates for nonexempt nursing facilities will be as follows:

(1) For county nursing facilities, for nursing facilities that have 44 or fewer licensed beds, for qualified CCRC nursing facilities, nursing facilities with an MA occupancy rate of at least 94% based on CY 2017 resident days as of

November 26, 2018, and nursing facilities with at least 125,000 MA days and with an overall occupancy rate of 90% or higher based on the CY 2017 resident days as of November 26, 2018, the assessment rate will be $7.30 per historical non-Medicare resident day.

(2) For all other nonexempt nursing facilities, the assessment rate will be $31.39 per historical non-Medicare resident day.

The Assessment Program due dates are established in accordance with section 1729-E(2)(ii) of the Fiscal Code (72 P.S. § 1729-E(2)(ii)) regarding the Department of Human Services and will be available on the Department's web site at http://www.dhs.pa.gov/providers/Providers/Pages/Long-Term-Nursing-Facilities.aspx.

Aggregate Assessment Amounts and Fiscal Impact

The Department estimates that the annual aggregate assessment fees for nonexempt nursing facilities will total $489.855 million. The Department will use the State revenue derived from the assessment fees and any associated FFP to support payments to qualified MA nursing facility providers in accordance with applicable laws and regulations.

Public Comment

Interested persons are invited to submit written comments regarding the contents of this notice to the Department of Human Services, Office of Long-Term Living, Bureau of Policy Development and Communications Management, Attention: Marilyn Yocum, P.O. Box 8025, Harrisburg, PA 17105-8025. Comments received within 30 days will be reviewed and considered for any subsequent revision of the notice.

Persons with a disability who require an auxiliary aid or service may submit comments using the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD users) or (800) 654-5988 (voice users).

TERESA D. MILLER,
Secretary

Fiscal Note: 14-NOT-1385. No fiscal impact; (8) recommends adoption.

[Pa.B. Doc. No. 20-222. Filed for public inspection February 14, 2020, 9:00 a.m.]

HISTORICAL AND MUSEUM COMMISSION

PA-SHARE Program; Proposed Fee Structure

Introduction

The State Historic Preservation Office (SHPO) is developing PA-SHARE as a new consultation, communication and Geographic Information Systems (GIS) tool to streamline the delivery of National Register, Environmental Review and Historical Marker programs. PA-SHARE is an update of the Cultural Resources Geographic Information System that has been hosted by the SHPO for 20+ years and is currently under development with an anticipated launch date of June 2020. The development of the system is being funded through the agreements that were required by Federal agencies granting permission to the Shell petrochemical project in Beaver County. The ongoing staff administration, system maintenance and improvements, however, will need to be supported through revenue generated by PA-SHARE subscriptions.

PA-SHARE will streamline SHPO operations and promote public accessibility. SHPO's users and partners will be able to access a wide range of historical data remotely through the service rather than make an appointment to view paper files in Harrisburg. Moreover, a completely electronic system will reduce paper process and application review time. Most applicants and users will be able to access all application functionality and most GIS cultural data for free, but enhanced data access and user dashboards will be available through the subscriptions.

The following is the breakdown of the proposed PA-SHARE Fee Structure:

PA-SHARE Proposed Fee Structure

Guest (public/no login)
- Free access
- Users will be able to see abbreviated data which includes above-ground historic property records, Historical Markers and National Register nominations and will be able to submit success stories
- Functionality greatly exceeds current systems and data currently available in legacy systems

Basic (login required)
- Free access
- Users will be able to submit projects to all SHPO program areas and receive electronic responses; some reviews will be handled instantaneously
- + Guest

Basic Plus (login required)
- $50/month or $275/annual subscription
- Users will be able to access nearly 1 million scanned pages—with the exception of restricted archaeological data
- Enhanced map tools
- Limited number of downloads each month
- + Basic

Professional (login required)
- $275/month or $875/annual subscription
- Users will be able to monitor submissions by means of a user dashboard
- Additional users can be added to the account (a limited #)
- Unlimited number of downloads
- Surveyor mobile app to document and submit historic property documentation from the field
- GIS data links for ease of sharing GIS layers, shape files and data
- + Basic Plus

Exceptions
- Free access to approved partners: agency and municipal staff, educational partners and students
- Limited time period
- Users would need to apply for this level of access and be approved by SHPO PA-SHARE Administrator
- Level of access will be determined on a case-by-case basis

All questions should be directed to the SHPO at (717) 783-8946, erairigh@pa.gov.

ANDREA LOWERY,
Executive Director

[Pa.B. Doc. No. 20-223. Filed for public inspection February 14, 2020, 9:00 a.m.]

INDEPENDENT REGULATORY REVIEW COMMISSION

Actions Taken by the Commission

The Independent Regulatory Review Commission met publicly at 10 a.m., Friday, January 31, 2020, and announced the following:

Actions Taken—Regulations Approved:

Milk Marketing Board # 47-19: Milk Marketing Fees (amends 7 Pa. Code Chapter 150)

Department of Revenue # 15-460: iLottery Games (replaces temporary regulations in 61 Pa. Code Chapter 876)

Environmental Quality Board # 7-532: Federal Office of Surface Mining Reclamation and Enforcement Program Consistency (amends 25 Pa. Code Chapters 86, 87, 88, 89 and 90)

Environmental Quality Board # 7-534: Triennial Review of Water Quality Standards (amends 25 Pa. Code Chapter 93)

Department of Labor and Industry # 12-106: Minimum Wage (amends 34 Pa. Code Chapter 231)

Approval Order

Public Meeting Held
January 31, 2020

Commissioners Voting: George D. Bedwick, Chairperson; John F. Mizner, Esq., Vice Chairperson; W. Russell Faber; Murray Ufberg, Esq.; Dennis A. Watson, Esq.

Milk Marketing Board
Milk Marketing Fees
Regulation No. 47-19 (# 3241)

On July 31, 2019, the Independent Regulatory Review Commission (Commission) received this proposed regulation from the Milk Marketing Board (Board). This rulemaking amends 7 Pa. Code Chapter 150. The proposed regulation was published in the August 31, 2019 *Pennsylvania Bulletin* with a public comment period ending on September 30, 2019. The final-form regulation was submitted to the Commission on December 12, 2019.

This regulation amends 7 Pa. Code Chapter 150 (Milk Marketing Fees) by increasing the license fees for milk dealers, subdealers and haulers. Examination and certificate fees for milk weigher-samplers and testers are also increased under this rulemaking.

We have determined this regulation is consistent with the statutory authority of the Board (31 P.S. §§ 700k-1, 700k-3(c), 700k-6, 700l-7 and 700k-8) and the intention of the General Assembly. Having considered all of the other criteria of the Regulatory Review Act, we find promulgation of this regulation is in the public interest.

By Order of the Commission:

This regulation is approved.

Approval Order

Public Meeting Held
January 31, 2020

Commissioners Voting: George D. Bedwick, Chairperson; John F. Mizner, Esq., Vice Chairperson, Dissenting; W. Russell Faber; Dennis A. Watson, Esq.

Department of Revenue
iLottery Games
Regulation No. 15-460 (# 3234)

On April 23, 2019, the Independent Regulatory Review Commission (Commission) received this proposed regulation from the Department of Revenue (Department). This rulemaking adopts permanent regulations in 61 Pa. Code Chapter 876. The proposed regulation was published in the May 4, 2019 *Pennsylvania Bulletin* with a public comment period ending on June 3, 2019. The final-form regulation was submitted to the Commission on December 30, 2019.

This final-form regulation converts the temporary iLottery regulations to permanent regulations. The regulations govern implementation and operation of iLottery by addressing lottery products, player accounts, games, prizes, self-exclusion, and terms and conditions.

We have determined this regulation is consistent with the statutory authority of the Department (4 Pa.C.S. § 503(b) and (i) and 72 P.S. § 3761-303(a)) and the intention of the General Assembly. Having considered all of the other criteria of the Regulatory Review Act, we find promulgation of this regulation is in the public interest.

By Order of the Commission:

This regulation is approved.

Approval Order

Public Meeting Held
January 31, 2020

Commissioners Voting: George D. Bedwick, Chairperson; John F. Mizner, Esq., Vice Chairperson; W. Russell Faber; Murray Ufberg, Esq.; Dennis A. Watson, Esq.

Environmental Quality Board
Federal Office of Surface Mining Reclamation and Enforcement Program Consistency
Regulation No. 7-532 (# 3217)

On October 2, 2018, the Independent Regulatory Review Commission (Commission) received this proposed regulation from the Environmental Quality Board (Board). This rulemaking amends 25 Pa. Code Chapters 86, 87, 88, 89 and 90. The proposed regulation was published in the October 27, 2018 *Pennsylvania Bulletin* with a public comment period ending on November 26, 2018. The final-form regulation was submitted to the Commission on December 30, 2019.

This regulation primarily addresses inconsistencies between the Commonwealth's coal mining program and federal regulations. Additional revisions are included to correct organization names, statutory citations, remining requirements and the use of reference data for the sizing of stormwater control facilities.

We have determined this regulation is consistent with the statutory authority of the Board (35 P.S. § 691.5; 52 P.S. §§ 1396.4 (a) and 1396.4b; 52 P.S. § 30.53b; 52 P.S. § 1406.7 (b)) and the intention of the General Assembly. Having considered all of the other criteria of the Regulatory Review Act, we find promulgation of this regulation is in the public interest.

By Order of the Commission:

This regulation is approved.

Approval Order

Public Meeting Held
January 31, 2020

Commissioners Voting: George D. Bedwick, Chairperson; John F. Mizner, Esq., Vice Chairperson; W. Russell Faber, Dissenting; Murray Ufberg, Esq.; Dennis A. Watson, Esq.

Environmental Quality Board
Triennial Review of Water Quality Standards
Regulation No. 7-534 (# 3182)

On October 6, 2017, the Independent Regulatory Review Commission (Commission) received this proposed regulation from the Environmental Quality Board (Board). This rulemaking amends 25 Pa. Code Chapter 93. The proposed regulation was published in the October 21, 2017 *Pennsylvania Bulletin* with a public comment period ending on February 16, 2018. The final-form regulation was submitted to the Commission on December 30, 2019.

This final-form regulation represents the Board's triennial update of water quality standards.

We have determined this regulation is consistent with the statutory authority of the Board (35 P.S. §§ 691.5(b)(1) and 691.402; U.S.C.A. §§ 1251(a)(2) and 1313(c)) and the intention of the General Assembly. Having considered all of the other criteria of the Regulatory Review Act, we find promulgation of this regulation is in the public interest.

By Order of the Commission:

This regulation is approved.

Approval Order

Public Meeting Held
January 31, 2020

Commissioners Voting: George D. Bedwick, Chairperson; John F. Mizner, Esq., Vice Chairperson, Dissenting; W. Russell Faber, Dissenting; Murray Ufberg, Esq.; Dennis A. Watson, Esq.

Department of Labor and Industry
Minimum Wage
Regulation No. 12-106 (# 3202)

On June 12, 2018, the Independent Regulatory Review Commission (Commission) received this proposed regulation from the Department of Labor and Industry (Department). This rulemaking amends 34 Pa. Code Chapter 231. The proposed regulation was published in the June 23, 2018 *Pennsylvania Bulletin* with a public comment period ending on August 22, 2018. The final-form regulation was submitted to the Commission on December 9, 2019.

The rulemaking amends Chapter 231 of 34 Pa. Code to clarify the definitions of Executive, Administrative and Professional (EAP) salaried workers who are exempt from receiving minimum wage and overtime pay and makes consistent the duties test to qualify for the EAP exemptions with federal regulations. It also makes adjustments to the salary threshold and creates a role for the Minimum Wage Advisory Board in setting the weekly salary levels on a triennial basis.

We have determined this regulation is consistent with the statutory authority of the Department (43 P.S. §§ 333.105(a)(5) and 333.109) and the intention of the General Assembly. Having considered all of the other criteria of the Regulatory Review Act, we find promulgation of this regulation is in the public interest.

By Order of the Commission:

This regulation is approved.

GEORGE D. BEDWICK,
Chairperson

[Pa.B. Doc. No. 20-224. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Blue Cross of Northeastern Pennsylvania (SERFF # MILL-132019032); Rate Increase Filing for Several LTC Forms

Blue Cross of Northeastern Pennsylvania is requesting approval to increase the premium an aggregate 25.2% on 93 policyholders with LTC forms NTQ11-337-PA-998, LTQ11-Revised-336-PA-998, FLQ11-336-PA-998 and HTQ11-338-PA-998.

Unless formal administrative action is taken prior to April 30, 2020, the subject filing may be deemed approved by operation of law.

A copy of the filing is available on the Insurance Department's (Department) web site at www.insurance.pa.gov (hover the cursor over the "Consumers" tab, then select "Pending Long Term Care Rate Filings").

Copies of the filing are also available for public inspection, by appointment, during normal working hours at the Department's Harrisburg office.

Interested parties are invited to submit written comments, suggestions or objections to James Laverty, Actuary, Insurance Department, Insurance Product Regulation and Market Enforcement, Room 1311, Strawberry Square, Harrisburg, PA 17120, jlaverty@pa.gov within 30 days after publication of this notice in the *Pennsylvania Bulletin*.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-225. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Blue Cross of Northeastern Pennsylvania (SERFF # MILL-132021720); Rate Increase Filing for a Group LTC Form

Blue Cross of Northeastern Pennsylvania is requesting approval to increase the premium an aggregate 22.1% on 10 policyholders with group LTC form GRP11-342-PA-1100.

Unless formal administrative action is taken prior to April 30, 2020, the subject filing may be deemed approved by operation of law.

A copy of the filing is available on the Insurance Department's (Department) web site at www.insurance.pa.gov (hover the cursor over the "Consumers" tab, then select "Pending Long Term Care Rate Filings").

Copies of the filing are also available for public inspection, by appointment, during normal working hours at the Department's Harrisburg office.

Interested parties are invited to submit written comments, suggestions or objections to James Laverty, Actuary, Insurance Department, Insurance Product Regulation and Market Enforcement, Room 1311, Strawberry Square, Harrisburg, PA 17120, jlaverty@pa.gov within 30 days after publication of this notice in the *Pennsylvania Bulletin*.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-226. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Continental General Insurance Company (SERFF # GLTC-131216195); Rate Increase Filing for Several Individual LTC Forms

Continental General Insurance Company is requesting approval to increase the premium 227.8% on 45 policyholders of forms 440, 442, 443, 444, 445, 446, 448, 449, 450, 460, 461, 462, 463, 470 and 471.

Unless formal administrative action is taken prior to April 26, 2020, the subject filing may be deemed approved by operation of law.

A copy of the filing is available on the Insurance Department's (Department) web site at www.insurance.pa.gov (hover the cursor over the "Consumers" tab, then select "Pending Long Term Care Rate Filings").

Copies of the filing are also available for public inspection, by appointment, during normal working hours at the Department's Harrisburg office.

Interested parties are invited to submit written comments, suggestions or objections to James Laverty, Actuary, Insurance Department, Insurance Product Regulation and Market Enforcement, Room 1311, Strawberry Square, Harrisburg, PA 17120, jlaverty@pa.gov within 30 days after publication of this notice in the *Pennsylvania Bulletin*.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-227. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Highmark, Inc. (SERFF # MILL-132026960); Rate Increase Filing for Several LTC Forms

Highmark, Inc. is requesting approval to increase the premium an aggregate 37.4% on 347 policyholders with forms SPL-336-HMBCBSPA and FSPL-336-HMBCBSPA.

Unless formal administrative action is taken prior to April 30, 2020, the subject filing may be deemed approved by operation of law.

A copy of the filing is available on the Insurance Department's (Department) web site at www.insurance.pa.gov (hover the cursor over the "Consumers" tab, then select "Pending Long Term Care Rate Filings").

Copies of the filing are also available for public inspection, by appointment, during normal working hours at the Department's Harrisburg office.

Interested parties are invited to submit written comments, suggestions or objections to James Laverty, Actuary, Insurance Department, Insurance Product Regulation and Market Enforcement, Room 1311, Strawberry Square, Harrisburg, PA 17120, jlaverty@pa.gov within 30 days after publication of this notice in the *Pennsylvania Bulletin*.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-228. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Highmark, Inc. (SERFF # MILL-132029492); Rate Increase Filing for Several LTC Forms

Highmark, Inc. is requesting approval to increase the premium an aggregate 36.9% on 344 policyholders with forms SPL-336-HMBSPA and FSPL-336-HMBSPA.

Unless formal administrative action is taken prior to April 30, 2020, the subject filing may be deemed approved by operation of law.

A copy of the filing is available on the Insurance Department's (Department) web site at www.insurance.pa.gov (hover the cursor over the "Consumers" tab, then select "Pending Long Term Care Rate Filings").

Copies of the filing are also available for public inspection, by appointment, during normal working hours at the Department's Harrisburg office.

Interested parties are invited to submit written comments, suggestions or objections to James Laverty, Actuary, Insurance Department, Insurance Product Regulation and Market Enforcement, Room 1311, Strawberry Square, Harrisburg, PA 17120, jlaverty@pa.gov within 30 days after publication of this notice in the *Pennsylvania Bulletin*.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-229. Filed for public inspection February 14, 2020, 9:00 a.m.]

INSURANCE DEPARTMENT

Notice to Workers' Compensation Insurance Carriers; Special Schedule "W" Data Call

The Insurance Department (Department) is conducting its annual workers' compensation Special Schedule "W" data call. Authority for this data call can be found in section 655 of The Insurance Company Law of 1921 (40 P.S. § 815).

Insurance companies that write workers' compensation insurance in this Commonwealth are required to complete the data call on or before April 15, 2020.

Consistent with prior Special Schedule "W" data calls, the cover letter, general instructions and instructions for limitations affecting unpaid claims estimates are available on the Department's web site at www.insurance.pa.gov (select "Companies," then "Industry Activity," then "Data Calls").

An e-mail announcing the data call was sent to insurance carriers writing workers' compensation insurance policies in this Commonwealth.

The Pennsylvania Compensation Rating Bureau's (Bureau) Financial Data Reporting Application (FDRA) will again be used to report all Special Schedule "W" information (including Coal Mine experience) instead of submitting directly to the Department. Refer to the Bureau's web site, www.pcrb.com, for further information on reporting workers' compensation experience for Special Schedule "W" using the FDRA.

Questions regarding this data call should be directed to Bojan Zorkic, Insurance Department, Office of Insurance Product Regulation, 1311 Strawberry Square, Harrisburg, PA 17120, (717) 787-6968, bzorkic@pa.gov.

JESSICA K. ALTMAN,
Insurance Commissioner

[Pa.B. Doc. No. 20-230. Filed for public inspection February 14, 2020, 9:00 a.m.]

LEGISLATIVE REFERENCE BUREAU

Documents Filed But Not Published

The Legislative Reference Bureau (Bureau) accepted the following documents during the preceding calendar month for filing without publication under 1 Pa. Code § 3.13(b) (relating to contents of *Bulletin*). The Bureau will continue to publish on a monthly basis either a summary table identifying the documents accepted during the preceding calendar month under this subsection or a statement that no documents have been received. For questions concerning or copies of documents filed, but not published, call (717) 783-1530.

Executive Board

Resolution No. CB-19-013, Dated December 16, 2019. Authorizing the 2019-2023 Collective Bargaining Agreement between the Commonwealth and the Liquor Law Enforcement Unit (K4).

Resolution No. CB-19-014, Dated December 16, 2019. Authorizing the 2019-2023 Collective Bargaining Agreement between the Commonwealth and the SEIU Healthcare Pennsylvania.

Resolution No. CB-19-015, Dated December 16, 2019. For the Collective Bargaining Agreement between the Commonwealth and Pennsylvania Doctors Alliance (PDA) effective 7/1/2019 through 6/30/2023.

Resolution No. CB-19-016, Dated December 16, 2019. Authorizing the PDA memorandum of understanding covering the period July 1, 2019 through July 30, 2023.

Resolution No. CB-19-017, Dated December 16, 2019. Authorizing the 2019-2023 Memorandum of Understanding between the Commonwealth and the OPEIU Healthcare Pennsylvania, Local 112.

Resolution No. CB-19-018, Dated January 6, 2020. Memorandum of Understanding between the Commonwealth and ALES; effective 7/1/2019 through 6/30/2023 (signed 12/6/2019).

Governor's Office

Management Directive No. 310.9—Purpose and Use of Restricted Receipt and Restricted Revenue Accounts, Amended January 9, 2020.

Management Directive No. 310.34—Use of Agency-Level Dun & Bradstreet Data Universal Numbering System (DUNS) Numbers in Applications for Federal Grants and Cooperative Agreements, Amended December 18, 2019.

Administrative Circular No. 20-01—2020-21 Budget Hearing Materials, Dated January 10, 2020.

Administrative Circular No. 20-02—Distribution of the 2020-21 Commonwealth Budget, Dated January 10, 2020.

Administrative Circular No. 20-03—Computation of Interest Penalties, Act 1982-266 Amended, Dated January 21, 2020.

DUANE M. SEARLE,
Director
Pennsylvania Code and Bulletin

[Pa.B. Doc. No. 20-231. Filed for public inspection February 14, 2020, 9:00 a.m.]

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Service of Notice of Motor Carrier Applications

The following temporary authority and/or permanent authority applications for the right to render service as a common carrier or contract carrier in this Commonwealth have been filed with the Pennsylvania Public Utility Commission. Formal protests and petitions to intervene must be filed in accordance with 52 Pa. Code (relating to public utilities). A protest shall indicate whether it applies to the temporary authority application, the permanent authority application, or both. Protests may only be filed if there is evidence that the applicant lacks fitness. Protests based on endangering or impairing operations of an existing carrier will not be honored. Filings must be made with the Secretary, Pennsylvania Public Utility Commission, 400 North Street, Harrisburg, PA 17120, with a copy served on the applicant by March 2, 2020. Documents filed in support of the applications are available for inspection and copying at the Office of the

Secretary between 8 a.m. and 4:30 p.m., Monday through Friday, and at the business address of the respective applicant.

Applications of the following for approval to *begin* operating as *common carriers* for transportation of *persons* as described under each application.

A-2019-3009799. Comfort Rides Corporation (29 Bala Avenue, Suite 118, Bala Cynwyd, Montgomery County, PA 19004) persons in paratransit service, limited to persons over 18 years of age with physical or intellectual disabilities, from points in the Counties of Bucks, Chester, Delaware and Montgomery, and the City and County of Philadelphia, to points in Pennsylvania, and return.

A-2019-3015058. Stephen Lehman (105 Linda Sue Lane, Myerstown, PA 17067) for the right to begin to transport, as a common carrier, by motor vehicle, persons, in paratransit service, from points in the County of Lebanon, to points in Pennsylvania, and return.

Application of the following for approval of the *beginning* of the exercise of the right and privilege of operating motor vehicles as *common carriers* for the transportation of *household goods* as described under the application.

A-2019-3015019. Bergers Moving & Storage, Inc. (1330 Main Street, Dickson City, Lackawanna County, PA 18519) to transport, as a common carrier, by motor vehicle, household goods in use, between points in Pennsylvania, which is to be a transfer of all rights authorized under the certificate issued at A-8911281, at Docket A-2009-2123555, to Rabel Brothers Moving & Storage Co., Inc., subject to the same limitations and conditions. *Attorney*: Andrew Horowitz, 500 Grant Street, Suite 5240, Pittsburgh, PA 15219.

Applications of the following for the approval of the right and privilege to *discontinue/abandon* operating as *common carriers* by motor vehicle and for cancellation of the certificate of public convenience as described under each application.

A-2020-3017190. Laidlaw Transit (Del), Inc. (200 Hahn Road, Allegheny County, Pittsburgh, PA 15209) discontinuance of service and cancellation of its certificate, to transport, as a common carrier, by motor vehicle, persons upon call or demand, as more thoroughly described in the original ordering paragraph at A-00108982, F.11.

A-2020-3017427. Laidlaw Transit (Del), Inc. (200 Hahn Road, Allegheny County, Pittsburgh, PA 15209) discontinuance of service and cancellation of its certificate, to transport, as a common carrier, by motor vehicle, persons in paratransit service, as more thoroughly described in the original ordering paragraphs at A-00108982, F.8, F.8Am-A, F.9, F.10 and F.10Am-A.

A-2020-3017430. Laidlaw Transit (Del), Inc. (200 Hahn Road, Allegheny County, Pittsburgh, PA 15209) discontinuance of service and cancellation of its certificate, to transport, as a common carrier, by motor vehicle, persons on schedule, as more thoroughly described in the original ordering paragraphs at A-00108982, F.12.

ROSEMARY CHIAVETTA,
Secretary

[Pa.B. Doc. No. 20-232. Filed for public inspection February 14, 2020, 9:00 a.m.]

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Service of Notice of Motor Carrier Formal Complaints

Formal complaints have been issued by the Pennsylvania Public Utility Commission. Answers must be filed in accordance with 52 Pa. Code (relating to public utilities). Answers are due March 2, 2020, and must be made with the Secretary, Pennsylvania Public Utility Commission, 400 North Street, Harrisburg, PA 17120, with a copy to the First Deputy Chief Prosecutor, Pennsylvania Public Utility Commission.

Pennsylvania Public Utility Commission; Bureau of Investigation and Enforcement v. Robert Tofts, t/a Robert Tofts Excavating; Docket No. C-2020-3016040

COMPLAINT

The Pennsylvania Public Utility Commission (Commission) is a duly constituted agency of the Commonwealth of Pennsylvania empowered to regulate public utilities within the Commonwealth. The Commission has delegated its authority to initiate proceedings which are prosecutory in nature to the Bureau of Investigation and Enforcement and other bureaus with enforcement responsibilities. Pursuant to that delegated authority and Section 701 of the Public Utility Code, the Bureau of Investigation and Enforcement hereby represents as follows:

1. That all authority issued to Robert Tofts, t/a Robert Tofts Excavating, (respondent) is under suspension effective January 06, 2020 for failure to maintain evidence of insurance on file with this Commission.

2. That respondent maintains a principal place of business at 1006 Springfield Road, Columbia Cross Roads, PA 16914.

3. That respondent was issued a Certificate of Public Convenience by this Commission on November 10, 2016, at A-8919227.

4. That respondent has failed to maintain evidence of Liability insurance on file with this Commission. The Bureau of Investigation and Enforcement's proposed civil penalty for this violation is $500.00 and cancellation of the Certificate of Public Convenience.

5. That respondent, by failing to maintain evidence of insurance on file with this Commission, violated 66 Pa.C.S. § 512, 52 Pa. Code § 32.2(c), and 52 Pa. Code § 32.11(a), § 32.12(a) or § 32.13(a).

Wherefore, unless respondent pays the penalty of $500.00 or files an answer in compliance with the attached notice and/or causes its insurer to file evidence of insurance with this Commission within twenty (20) days of the date of service of this Complaint, the Bureau of Investigation and Enforcement will request that the Commission issue an Order which (1) cancels the Certificate of Public Convenience held by respondent at A-8919227 for failure to maintain evidence of current insurance on file with the Commission, (2) fines Respondent the sum of five hundred dollars ($500.00) for the illegal activity described in this Complaint, (3) orders such other remedy as the Commission may deem to be appropriate, which may include the suspension of a vehicle registration and (4) imposes an additional fine on the respondent should cancellation occur.

Respectfully submitted,
David W. Loucks, Chief
Motor Carrier Enforcement
Bureau of Investigation and Enforcement
400 North Street
Harrisburg, PA 17120

VERIFICATION

I, David W. Loucks, Chief, Motor Carrier Enforcement, Bureau of Investigation and Enforcement, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief and that I expect that the Bureau will be able to prove same at any hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 relating to unsworn falsification to authorities.

Date: 1/16/2020

David W. Loucks, Chief
Motor Carrier Enforcement
Bureau of Investigation and Enforcement

NOTICE

A. You must file an Answer within 20 days of the date of service of this Complaint. The date of service is the mailing date as indicated at the top of the Secretarial Letter. See 52 Pa. Code § 1.56(a). The Answer must raise all factual and legal arguments that you wish to claim in your defense, include the docket number of this Complaint, and be verified. You may file your Answer by mailing an original to:

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Or, you may eFile your Answer using the Commission's website at www.puc.pa.gov. The link to eFiling is located under the Filing & Resources tab on the homepage. If your Answer is 250 pages or less, you are not required to file a paper copy. If your Answer exceeds 250 pages, you must file a paper copy with the Secretary's Bureau.

Additionally, a copy should either be mailed to:

Michael L. Swindler, Deputy Chief Prosecutor
Pennsylvania Public Utility Commission
Bureau of Investigation and Enforcement
400 North Street
Harrisburg, PA 17120

Or, emailed to Mr. Swindler at: RA-PCCmplntResp@pa.gov

B. If you fail to answer this Complaint within 20 days, the Bureau of Investigation and Enforcement will request that the Commission issue an Order imposing the penalty.

C. You may elect not to contest this Complaint by causing your insurer to file proper evidence of current insurance in accordance with the Commission's regulations and by paying the fine proposed in this Complaint by certified check or money order within twenty (20) days of the date of service of this Complaint. Accord certificates of insurance and faxed form Es and Hs are unacceptable as evidence of insurance.

The proof of insurance must be filed with the:

Compliance Office, Bureau of Technical Utility Services
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Payment of the fine must be made to the Commonwealth of Pennsylvania and should be forwarded to:

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Your payment is an admission that you committed the alleged violation and an agreement to cease and desist from further violations. Upon receipt of the evidence of insurance from your insurer, and upon receipt of your payment, the Complaint proceeding shall be closed.

D. If you file an Answer which either admits or fails to deny the allegations of the Complaint, the Bureau of Investigation and Enforcement will request the Commission to issue an Order imposing the penalty set forth in this Complaint.

E. If you file an Answer which contests the Complaint, the matter will be assigned to an Administrative Law Judge for hearing and decision. The Judge is not bound by the penalty set forth in the Complaint, and may impose additional and/or alternative penalties as appropriate.

F. If you are a corporation, you must be represented by legal counsel. 52 Pa. Code § 1.21.

Alternative formats of this material are available for persons with disabilities by contacting the Commission's ADA Coordinator at 717-787-8714. Do not call this number if you have questions as to why you received this complaint. For those questions you may call 717-783-3847.

ROSEMARY CHIAVETTA,
Secretary

[Pa.B. Doc. No. 20-233. Filed for public inspection February 14, 2020, 9:00 a.m.]

PHILADELPHIA PARKING AUTHORITY

Service of Notice of Motor Carrier Applications in the City of Philadelphia

The following permanent authority applications to render service as common carriers in the City of Philadelphia have been filed with the Philadelphia Parking Authority's (PPA) Taxicab and Limousine Division (TLD). Formal protests must be filed in accordance with 52 Pa. Code Part II (relating to Philadelphia Parking Authority) with the TLD's Office of the Clerk, 2415 South Swanson Street, Philadelphia, PA 19148, no later than March 2, 2020. The nonrefundable protest filing fee is $5,000 payable to the PPA by certified check or money order. The applications are available for inspection at the TLD between 9 a.m. and 4 p.m., Monday through Friday (contact TLD Director Christine Kirlin, Esq. at (215) 683-9653 to make an appointment) or may be inspected at the business addresses of the respective applicants or attorneys, or both.

Doc. No. A-20-01-02. Priyom & Pritim Taxi, LLC (546 Sherry Drive, Runnemede, NJ 08078): An application for a medallion taxicab certificate of public convenience (CPC) to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

Doc. No. A-20-01-03. Abrar & Adiba, LLC (505 Larchwood Avenue, Upper Darby, PA 19082): An application for a medallion taxicab CPC to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

Doc. No. A-20-01-04. BM Brother Trans, Inc. (277 Copley Road, Upper Darby, PA 19082): An application for a medallion taxicab CPC to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

Doc. No. A-20-01-05. Kamara Trans, LLC (728 Windsor Circle, Folcroft, PA 19032): An application for a medallion taxicab CPC to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

Doc. No. A-20-01-06. Zalina Trans, LLC (47 Fairview Avenue, Lansdale, PA 19446): An application for a medallion taxicab CPC to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

Doc. No. A-20-02-01. Bin Karim Trans, LLC (1106 Princeton Avenue, Philadelphia, PA 19111): An application for a medallion taxicab CPC to transport, as a common carrier, persons in taxicab service between points within the City of Philadelphia and from points in the City of Philadelphia to points in Pennsylvania, and return. *Attorney for Applicant*: Danielle Friedman, Esq., 2301 Church Street, Philadelphia, PA 19124.

SCOTT PETRI,
Executive Director

[Pa.B. Doc. No. 20-234. Filed for public inspection February 14, 2020, 9:00 a.m.]

PUBLIC SCHOOL EMPLOYEES' RETIREMENT BOARD

Hearings Scheduled

Hearings have been scheduled, as authorized by 24 Pa.C.S. Part IV (relating to Public School Employees' Retirement Code), in connection with the Public School Employees' Retirement System's (System) denial of claimants' requests concerning the indicated accounts.

The hearings will be held before a hearing examiner at the Public School Employees' Retirement System, 5 North Fifth Street, Harrisburg, PA 17101:

March 10, 2020	William B. Jackson, III (Effective Date of Retirement)	10 a.m.
March 18, 2020	Marilyn K. Pham (Change of Retirement Option)	10 a.m.
May 12, 2020	Jon S. Case (Purchase of Service/Military)	10 a.m.
July 1, 2020	Kim A. Wagner (Pension Forfeiture)	10 a.m.

Persons with a disability who wish to attend the previously listed hearings and require an auxiliary aid, service or other accommodation to participate in the proceedings should contact Lori Koch, Assistant to the Executive Director, at (717) 720-4606 to discuss how the System may best accommodate their needs.

Parties may appear with or without counsel and offer relevant testimony or evidence to support their respective positions. The hearings will be held in accordance with the requirements of 2 Pa.C.S. §§ 501—508 and 701—704 (relating to Administrative Agency Law). Under 22 Pa. Code § 201.1 (relating to applicability of general rules), procedural matter will be in conformance with 1 Pa. Code Part II (relating to General Rules of Administrative Practice and Procedure) unless specific exemption is granted.

GLEN R. GRELL,
Executive Director

[Pa.B. Doc. No. 20-235. Filed for public inspection February 14, 2020, 9:00 a.m.]

STATE BOARD OF PHARMACY

Cancer Drug Repository Program; Income Limits for Eligibility

In accordance with 49 Pa. Code § 27.506 (relating to patient eligibility), the State Board of Pharmacy is hereby providing notice that to participate in the Cancer Drug Repository Program in 2020, a patient's 2019 income cannot have exceeded the following limits:

Current Income Levels for the Cancer Drug Repository Program

Family Size	*2019 Annual Income Limit*
1	$44,660
2	$60,340
3	$76,020
4	$91,700
5	$107,380
6	$126,060
7	$138,740
8	$154,420
Each Additional Person	$15,680

THERESA M. TALBOTT, RPh,
Chairperson

[Pa.B. Doc. No. 20-236. Filed for public inspection February 14, 2020, 9:00 a.m.]

STATE EMPLOYEES' RETIREMENT BOARD

Hearings Scheduled

The following hearings have been scheduled, as authorized by 71 Pa.C.S. Part XXV (relating to State Employees' Retirement Code), in connection with the State Employees' Retirement System's denial of claimants' request concerning the indicated accounts.

The hearings will be held before a hearing examiner at the State Employees' Retirement System, 30 North Third Street, Fifth Floor, Harrisburg, PA 17101:

March 25, 2020	Suellen M. Wolfe Purchase of Service Issue	1 p.m.
May 4, 2020	Donald Grimaldi Agency Debt Issue	1 p.m.
June 23, 2020	Priscilla Jackson Disability Retirement Issue	1 p.m.

Parties in each respective case may appear with or without counsel and offer relevant testimony or evidence to support their respective positions. The hearings will be held in accordance with the requirements of 2 Pa.C.S. §§ 501—508 and 701—704 (relating to Administrative Agency Law). Under 4 Pa. Code § 250.1 (relating to applicability of general rules), procedural matters will be in conformance with 1 Pa. Code Part II (relating to General Rules of Administrative Practice and Procedure) unless specific exemption is granted.

TERRILL J. SANCHEZ,
Secretary

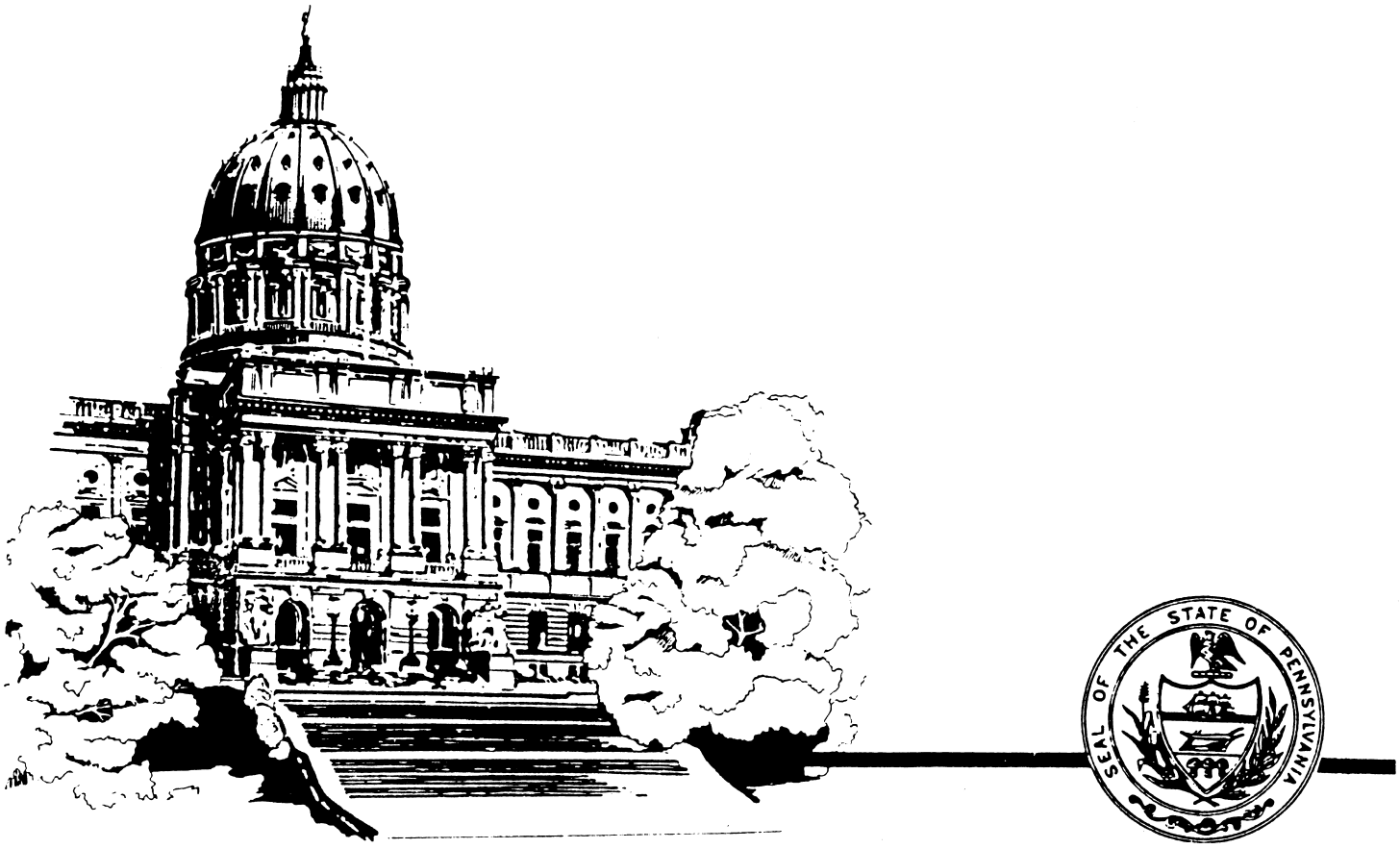
[Pa.B. Doc. No. 20-237. Filed for public inspection February 14, 2020, 9:00 a.m.]

PENNSYLVANIA BULLETIN

Volume 50 Number 7
Saturday, February 15, 2020 • Harrisburg, PA

Part II

This part contains the
Environmental Quality Board's
Administration of the Land Recycling
Program Proposed Rulemaking



PROPOSED RULEMAKING

ENVIRONMENTAL QUALITY BOARD

[25 PA. CODE CH. 250]

Administration of the Land Recycling Program

The Environmental Quality Board (Board) proposes to amend Chapter 250 (relating to administration of Land Recycling Program). This rulemaking is proposed under 25 Pa. Code § 250.11 (relating to periodic review of MSCs), which requires that the Department of Environmental Protection (Department) review new scientific information that relates to the basis of the Statewide health standard medium-specific concentrations (MSC) at least 36 months after the effective date of the most recently promulgated MSCs and to propose to the Board any changes to the MSCs as necessary. In addition to updating the existing MSCs, this proposed rulemaking would add MSCs for three new contaminants, namely Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonate (PFOS) and Perfluorobutane Sulfonate (PFBS). These contaminants are within the Per-fluoroalkyl and Polyfluoroalkyl Acid (PFAS) family of compounds for which the United States Environmental Protection Agency (EPA) has published toxicological data. This proposed rulemaking would also clarify several other regulatory requirements.

This proposed rulemaking was adopted by the Board at its meeting on November 19, 2019.

A. *Effective Date*

This proposed rulemaking would go into effect upon final-form publication in the *Pennsylvania Bulletin*.

B. *Contact Persons*

For further information contact Michael Maddigan, Environmental Group Manager, Land Recycling Program, P.O. Box 8471, Rachel Carson State Office Building, Harrisburg, PA 17105-8471, (717) 772-3609; or Robert "Bo" Reiley, Acting Director, Bureau of Regulatory Counsel, Rachel Carson State Office Building, P.O. Box 8464, Harrisburg, PA 17105-8464, (717) 787-7060. Information regarding submitting comments on this proposed rulemaking appears in Section J of this preamble. Persons with a disability may use the Pennsylvania AT&T Relay Service by calling (800) 654-5988 (voice users). This proposed rulemaking is available on the Department's web site at www.dep.pa.gov (select "Public Participation," then "Environmental Quality Board").

C. *Statutory Authority*

This proposed rulemaking is authorized under sections 104(a) and 303(a) of the Land Recycling and Environmental Remediation Standards Act (Act 2) (35 P.S. §§ 6026.104(a) and 6026.303(a)), which direct the Board to adopt and amend periodically by regulation Statewide health standards for regulated substances for each environmental medium, including any health-based standards adopted by the Federal government by regulation or statute, and health advisory levels (HAL), and which direct the Board to promulgate appropriate mathematically valid statistical tests to define compliance with Act 2, and other regulations as necessary to implement the provisions of Act 2; and section 1920-A of The Administrative Code of 1929 (71 P.S. § 510-20), which authorizes the Board to formulate, adopt and promulgate rules and regulations that are necessary for the proper work of the Department.

D. *Background and Purpose*

Section 250.11 requires that the Department review new scientific information that is used to calculate MSCs under the Statewide health standard and propose appropriate changes at least every 36 months following the effective date of the most recently promulgated MSCs. The Board's most recently promulgated MSCs became effective upon publication in the *Pennsylvania Bulletin* at 46 Pa.B. 5655 (August 27, 2016). These proposed changes, based on new information, would protect public health and the environment and would provide the regulated community with clear information regarding the requirements of Act 2 and Chapter 250 related to the remediation of contaminated sites.

In addition to updating Chapter 250 MSCs, this proposed rulemaking would include changes that would add groundwater and soil MSCs for three compounds in the PFAS family—PFBS, PFOS and PFOA. The proposed standards for these three chemicals are based on data in toxicological studies published by the EPA. Under Act 2, the Department has directly incorporated the EPA's 2016 HALs regarding PFOS and PFOA as groundwater MSCs and has used the data developed by the EPA for those HALs to calculate soil MSCs for both compounds. With respect to PFBS, the Department is proposing soil and groundwater standards based on a 2014 EPA Provisional Peer-Reviewed Toxicity Value (PPRTV).

Finally, this proposed rulemaking would clarify a number of procedural issues related to the administrative requirements of Act 2. In particular, this proposed rulemaking would clarify requirements for remediators and municipalities regarding public participation and public involvement plans, update requirements for acceptable "practical quantitation limits" related to the precision of laboratory testing, update requirements for professional seals from professional geologists or engineers, provide resources to calculate MSCs, and clarify the proper submission of various reports related to the Act 2 Site-Specific Standard.

This proposed rulemaking would impact any person addressing a release of a regulated substance at a property, whether voluntarily or as a result of an order by the Department. This proposed rulemaking would not impact any particular category of person with additional or new regulatory obligations. Under Act 2, a remediator may select the standard to which to remediate. To complete a remediation, the remediator must then comply with all relevant remediation and administrative standards.

As noted previously, this proposed rulemaking will not singularly affect one specific industry or person. This proposed rulemaking will impact the owners and operators of storage tank facilities that have had a release of a petroleum or hazardous substance. There are approximately 12,000 storage facilities in this Commonwealth. Some of these facilities are owned or operated, or both, by small businesses. Because of the broad potential reach of this proposed rulemaking, it is not possible to identify specifics on the types and numbers of small businesses that could potentially be affected by property contamination. In addition, Act 2 and Chapter 250 are unique from other statutes and regulations because they do not create permitting or corrective action obligations. Instead, Act 2 and Chapter 250 provide remediators with options to address contamination and any associated liability that

arises under other statutes. For example, adding PFOS to the Chapter 250 Appendix does not create any liability or obligation related to PFOS. Instead, a person's liability arises under The Clean Streams Law (35 P.S. §§ 691.1—691.1001) while Act 2 and Chapter 250 provide that person the means to resolve their Clean Streams Law liability and to address the contamination. In this way, Act 2 and Chapter 250 do not create new obligations that will impact a particular category of person like a new permitting obligation or corrective action regulation would.

The soil numeric values represent a proposed decrease for approximately 83% of the values and an increase for 17% of the values. For groundwater, the proposed changes reflect a decrease for approximately 92% of the values and an increase in approximately 8% of the values. Lowering the values may indicate a more stringent cleanup is required at a site and increasing the values may indicate a less stringent cleanup is required at a site. These proposed changes reflect updated information related to exposure limitations to these substances and recognize that a higher or lower standard is better representative of those substances' exposure thresholds.

The number of completed remediations vary each year. On average, remediators apply the Act 2 remediation standard to approximately 800 contaminated properties across this Commonwealth. Generally, any cost related to a given site remediation depends in large part on which regulated substances are being remediated and what the specific soil and groundwater conditions are at the site.

The Department worked with the Cleanup Standards Scientific Advisory Board (CSSAB) during the development of this proposed rulemaking. The CSSAB, which was established by section 105 of Act 2 (35 P.S. § 6026.105), consists of persons representing a cross-section of experience, including engineering, biology, hydrogeology, statistics, medicine, chemistry, toxicology and other related fields. The purpose of the CSSAB is to assist the Department and the Board in developing Statewide health standards, determining the appropriate statistically and scientifically valid procedures and risk factors to be used, and providing other technical advice as needed to implement Act 2. During CSSAB meetings on August 1, 2018, February 13, 2019, June 12, 2019, and October 29, 2019, CSSAB members were given the opportunity to review and provide feedback on draft regulatory amendments to Chapter 250. The Department worked with the CSSAB to resolve concerns and agreed to evaluate additional suggestions during the next review cycle for this proposed rulemaking. Following these presentations and discussions, the CSSAB issued a letter related to the proposed regulatory amendments included in this proposed rulemaking. Specifically, the CSSAB noted concern related to the MSCs for vanadium.

A listing of CSSAB members and minutes of CSSAB meetings are available on the Department's web site at www.dep.pa.gov (select "Public Participation," then "Advisory Committees," then "Cleanup and Brownfields Advisory Committees," then "Cleanup Standards Scientific Advisory Board").

E. *Summary of Regulatory Requirements*

§ 250.1. Definitions

This proposed rulemaking would add a definition for the term "MDL—Method detection limit" because both "method detection limit" and "MDL" are used in Chapter 250 but are not defined. The proposed definition is consistent with the EPA's definition in (U.S. EPA Office of Water Publication EPA 821-R-16-006, 2016).

This proposed rulemaking would amend the definition of "volatile compound" to match the description in Section IV, Appendix IV-A.1 of the Department's Land Recycling Program Technical Guidance Manual (TGM) and to match the EPA's definition in their *OSWER* (Office of Solid Waste and Emergency Response) *Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air* (OSWER Publication 9200.2-154, 2015). The current definition excludes naphthalene as well as several other semi-volatiles that are considered volatiles in the vapor intrusion section of the TGM. The Department's TGM is available at https://www.dep.pa.gov/Business/Land/LandRecycling/Standards-Guidance-Procedures/Guidance-Technical-Tools/Pages/Technical-Guidance-Manual.aspx.

§ 250.4. Limits related to PQLs

Proposed amendments to this section would update the references and procedures for determining the practical quantitation limit (PQL) and would remove confusing and outdated language. Improvements in laboratory instrument technology and the removal of PQLs and estimated quantitation limits (EQL) from revised laboratory methods resulted in the need to update this section.

§ 250.6. Public participation

The proposed amendments to § 250.6(c) would clarify that if a public involvement plan (PIP) has been initiated, the public has a right to be involved in the development and review of the remedial investigation report, risk assessment report, cleanup plan and final report consistent with section 304(o) of Act 2 (35 P.S. § 6026.304(o)), regarding community involvement, and outlines the necessary measures to involve the public.

The proposed amendments to § 250.6(d) would help to ensure that the Department and the municipality requesting the PIP are notified of the submission of the PIP and receive copies of the PIP. These proposed amendments necessitate the removal of § 250.6(d)(1) and (2) because it no longer makes sense to include them in subsection (d). These subsections were also removed because they are already discussed in Chapter 250 in the final report requirements section for the site-specific standard in § 250.411(e) (relating to final report) and remediation requirements section for special industrial area (SIA) sites in § 250.503(f) (relating to remediation requirements). Finally, these two subsections were removed because the current Chapter 250 regulations require that the public involvement plan be submitted with the remedial investigation report or baseline environmental report. The proposed change is necessary because the Department needs notice of PIPs in advance of receipt of those reports.

§ 250.10. Measurement of regulated substances in media

The proposed amendments to § 250.10(d) would change the references from the Groundwater Monitoring Guidance Manual to reference the most current version of Appendix A of the TGM or an alternative method that appropriately measures regulated substances in groundwater.

§ 250.12. Professional seal

This proposed new section mirrors language from § 245.314 (relating to professional seals) of the storage tank regulations, requiring that reports submitted to the Department which include professional geologic or engineering work be sealed by a professional geologist or engineer.

§ 250.304. MSCs for groundwater

Under subsection (c), the EPA publication number has been revised.

Under subsection (g), this proposed rulemaking would list additional sources of aqueous solubility information to support the new compounds proposed to be added to the MSC tables in this proposed rulemaking. The following aqueous solubility sources are proposed be added to subsection (g):

19. ATSDR (Agency for Toxic Substances and Disease Registry). 2015. *Toxicological Profile for Perfluoroalkyls. Draft for Public Comment*. Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. Accessed May 2016. http://www.atsdr.cdc.gov/ToxProfiles/tp200.pdf.

20. Hekster, F.M., R.W. Laane, and P. de Voogt. 2003. *Environmental and toxicity effects of perfluoroalkylated substances. Reviews of Environmental Contamination and Toxicology* 179:99—121.

21. HSDB (Hazardous Substances Data Bank). 2012. U.S. National Library of Medicine, Bethesda, MD. Accessed May 2016. http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB.

22. Kauck, E.A., and A.R. Diesslin. 1951. *Some properties of perfluorocarboxylic acids. Industrial & Engineering Chemistry Research* 43(10):2332—2334.

23. SRC (Syracuse Research Corporation). 2016. PHYSPROP Database. Accessed May 2016. http://www.srcinc.com/what-we-do/environmental/scientific-databases.html.

24. OECD (Organisation for Economic Co-operation and Development). 2002. *Hazard Assessment of Perfluorooctane Sulfonate (PFOS) and its Salts*. ENV/JM/RD (2002) 17/FINAL. Report of the Environment Directorate, Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology, Co-operation on Existing Chemicals, Paris, November 21, 2002.

§ 250.305. MSCs for soil

Under subsection (c), a minor correction to a cross-reference is proposed.

The proposed amendments to § 250.305(g) would alleviate confusion as to the need to evaluate the soil-to-groundwater pathway for compounds that have secondary maximum contaminant levels (SMCL) and either a primary Maximum Containment Level (MCL) or a HAL. These proposed changes would also allow for the determination of soil MSC values for substances with SMCLs but no toxicological information in Appendix A, Table 5B, of Chapter 250. This determination would be based on the physical capacity of the soil to contain a regulated substance as described in § 250.305(b). This proposed change, along with other proposed changes to subsection (g), would result in the ability of remediators to determine soil MSCs for chloride and sulfate that also incorporate impacts to ecological receptors as described in § 250.311(a)—(f) (relating to evaluation of ecological receptors).

§ 250.306. Ingestion numeric values

Due to new information published by the EPA in Exposure Factors Handbook 2011 Edition, EPA/600/R-090/052F, the residential groundwater ingestion rate would increase from 2 liters a day (L/day) to 2.4 L/day. This proposed amendment would result in additional changes to other exposure factors listed in the table and footnotes in § 250.306(d). Formatting errors in the table footnotes in this section would also be corrected. Some of the equations in the footnotes contain brackets that should not be confused with brackets used to delineate changes proposed in the proposed rulemaking. Bolded text within bolded brackets represents text to be deleted while unbolded brackets encompass existing text not proposed for removal.

Proposed amendments to § 250.306(e) would update the models used to calculate blood lead levels that are applied to the corresponding lead numeric value calculations. The new model references would also be updated in this subsection.

§ 250.307. Inhalation numeric values

A proposed amendment to the equation in § 250.307(g)(1) would add a "× 24 hr/day" multiplier to the numerator. This component was inadvertently omitted from this equation in the previous rulemaking.

§ 250.308. Soil to groundwater pathway numeric values

In section § 250.308(a)(2)(ii), the word "standard" would be replaced with "generic numeric value" to avoid the implication that the 1/10th value is always the soil MSC for saturated soil and to avoid the implication that the comparison process should be bypassed.

§ 250.311. Evaluation of ecological receptors

Amendments to § 250.311(b) are proposed to directly reference the proposed changes to § 250.305(g) and to reference the physical capacity of the soil to contain a regulated substance as described in § 250.305(b).

§ 250.402. Human health and environmental protection goals

Proposed amendments to § 250.402(d) would resolve confusion and ensure the correct application of § 250.311(e) to protect ecological receptors under the site-specific standard.

A proposed amendment to § 250.402(d)(3) would correct and replace the reference to § 230.311(f) with § 250.311(f).

§ 250.404. Pathway identification and elimination

Under subsection (a), proposing to add the words "Department or" to allow for the use of Department guidance in identifying exposure pathways.

§ 250.409. Risk assessment report

Proposed amendments to § 250.409(1) would clarify that an approved remedial investigation report is needed in advance of submitting an approvable risk assessment report when the reports are submitted separately. This proposed amendment is part of a clarification regarding the appropriate sequence of reports submitted under Subchapter D (relating to the site-specific standard), including a proposed new section for "combined reports," in § 250.412 (relating to combined reports), described as follows.

§ 250.410. Cleanup plan

A new proposed subsection (d) would remove any ambiguity regarding the need for a cleanup plan in situations in which a remedy is already present. The current language in subsection (d) would be moved into a newly created subsection (e).

§ 250.412. Combined reports

This newly proposed section would explain that prior approval of a remedial investigation report is not neces-

sary when combined with either a risk assessment report or a cleanup plan. This proposed section is necessary as a result of the changes made to § 250.410 (relating to cleanup plan).

§ 250.503. Remediation requirements

The proposed amendments to § 250.503(e) would clarify that a revised baseline environmental report, not just a new remediation plan, may need to be submitted when land use changes from nonresidential to residential at a SIA site.

§ 250.603. Exposure factors for site-specific standards

The proposed amendment to § 250.603(a) would update the citation of the 1992 version of the EPA's Final Guidelines for Exposure Assessment to EPA's 2011 Exposure Factors Handbook.

§ 250.605. Sources of toxicity information

The proposed updates to § 250.605(a)(3) would add the EPA's Office of Pesticide Programs Human Health Benchmarks for Pesticides and the EPA's PPRTV Appendix databases to the toxicity value source hierarchy.

§ 250.707. Statistical tests

The term "Statewide health standard" would be changed to "MSC" in the proposed amendment to § 250.707(b)(1)(ii) for clarification.

A new clause (D) would be added to § 250.707(b)(1)(iii) clarifying when or whether a vapor intrusion analysis is necessary for sites with small petroleum releases where full site characterization is not performed.

Appendix A, Tables 1—7

Proposed amendments to the "Medium-Specific Concentrations" tables would update the MSCs for certain regulated substances. Updates to footnotes would be necessary to help explain some of the changes to the MSCs. Numeric values would be calculated for several new substances, including PFOS, PFOA and PFBS in groundwater and soil, and total polychlorinated biphenyls in soil. Ingestion-based numeric values would all decrease slightly due to the proposed increase in water ingestion rate under § 250.306(d) from 2 L/day to 2.4 L/day. Other proposed numeric value changes would mostly be attributed to updates in toxicity values in Tables 5A and 5B. However, proposed corrections to the numeric value calculation process would also cause some numeric values to change.

The proposed update to the definition of a "volatile compound" would cause some of the values to change because the new definition would include the consideration of Henry's law constant and molecular weight. Additionally, some of the numeric values changes would be due to rounding adjustments. When the Department calculates the numeric MSC values for inclusion in Chapter 250, some values are rounded during one of the early calculation steps instead of at the end of the calculation. To be consistent, the rounding procedure would now be changed so that all rounding occurs at the final value calculation step. Elimination of the rounding of transfer factors would also cause changes to the numeric values. Transfer factors used for the calculation of inhalation numeric values from soil are calculated and listed in Table 5A. The transfer factors currently in Table 5A were rounded inconsistently. To be consistent with the other proposed rounding corrections, these values would no longer be rounded because they are calculated and used in the early stages of the numeric value calculation process.

In the proposed amendments, information would be updated on the "Threshold of Regulation Compounds" table (Table 6) by the removal of compounds that would have numeric values calculated on other tables.

Proposed amendments to the "Default Values for Calculating MSCs for Lead" table (Table 7) would update the input parameters for use in the Integrated Exposure Uptake Biokinetic (IEUBK) Model for Lead in Children for residential exposure. Proposed amendments for nonresidential exposure would update the model input parameters for the Adult Lead Model. References for both models would also be updated. These proposed amendments would result in updates to the lead residential and nonresidential direct contact values provided in Table 4A.

F. *Benefits, Costs and Compliance*

Benefits

In enacting Act 2, the General Assembly found and declared among its policy goals that "[p]ublic health and environmental hazards cannot be eliminated without clear, predictable environmental remediation standards and a process for developing those standards," that "[a]ny remediation standards adopted by this Commonwealth must provide for the protection of public health and the environment," and that "[c]leanup plans should be based on actual risk that contamination on the site may pose to public health and the environment, taking into account its current and future use and the degree to which contamination can spread offsite and expose the public or the environment to risk." See 35 P.S. § 6026.102 regarding declaration of policy.

To effectuate this, the General Assembly authorized the Board and the Department to develop standards and methods to effectuate those goals. 35 P.S. §§ 6026.104 and 6026.303. The Department's regulatory structure, as authorized under Act 2 and as implemented by Chapter 250, provides those important benefits articulated in the General Assembly's declaration of policy.

The amendments to the MSCs in this proposed rulemaking would serve both the public and the regulated community because they would provide MSCs based on the most up-to-date health and scientific information for substances that cause cancer or have other toxic effects on human health. The Board first published Chapter 250 regulations in 1997 at 27 Pa.B. 4181 (August 16, 1997). The General Assembly recognized, in section 104(a) of Act 2 (35 P.S. § 6026.104(a)), that these standards must be updated over time as better science becomes available and as the need for clarification or enhancement of the program becomes apparent.

Potential contamination of soil and groundwater from accidental spills and unlawful disposal can impact almost any resident of this Commonwealth. Many of the chemical substances addressed in this proposed rulemaking are systemic toxicants or carcinogens as defined under Act 2 and, in some cases, are widespread in use. Examples of substances that contain toxic or carcinogenic properties include gasoline and other petroleum products, solvents, elements used in the manufacture of metals and alloys, pesticides, and some dielectric fluids previously contained in transformers and capacitors. Releases of regulated substances not only pose a threat to the environment, but also could affect the health of the general public if inhaled or ingested. New research on many of these substances is ongoing and provides the basis for protection of the residents of this Commonwealth through site cleanup requirements.

Although most of the changes to soil numeric values in this proposed rulemaking would decrease the numeric values, 17% of the values would increase. Increases in values reflect updated information related to exposure limitations to the substances and acknowledge that a higher standard is better representative of those substances' exposure threshold.

An additional benefit of this proposed rulemaking would be the promulgation of soil and groundwater MSCs for PFOS, PFOA and PFBS. Establishing these MSCs would allow remediators to address groundwater and soil contamination and thereby lessen public exposure to the contaminants. This will also benefit remediators wishing to remediate contaminated sites, who tend to be owners, operators or purchasers—or their contractors—of properties and facilities including, or at or near, military bases, municipalities and other locations that used or stored fire-fighting foam. The EPA reports that contamination from these chemicals has also been associated with manufacturing textiles, food packaging, personal care products, and other materials such as cookware that are resistant to water, grease and stains. See Fact Sheet, EPA, PFOA & PFOS Drinking Water Health Advisories (November 2016) (available at https://www.epa.gov/sites/production/files/2016-06/documents/drinkingwaterhealthadvisories_pfoa_pfos_updated_5.31.16.pdf).

Finally, remediators would benefit from the proposed amendments that clarify many of the administrative elements of Act 2, making for a more efficient and streamlined Act 2 remediation process.

The benefits of this proposed rulemaking are difficult to quantify because, unlike other statutory or permitting schemes, Act 2 does not prevent contamination but instead provides remediators with a variety of options to address sites that have already been contaminated. In that sense, this proposed rulemaking, consistent with Act 2, benefits the public because it can lead to more efficient and more expedient remediation and reuse of contaminated areas.

Compliance costs

Financially and economically, the Department believes that any potential impact to the regulated community would be insignificant. Under this proposal, the MSC values for many regulated substances are being amended for a variety of reasons. The two most common reasons for amendments are Federal agency (including the EPA and United States Department of Health Agency for Toxic Substances and Disease Registry) changes in toxicity values that are used in calculating MSC and a change in the EPA's underlying assumption of a person's average daily consumption of water from 2 L/day to 2.4 L/day. The soil numeric values represent a decrease for approximately 83% of the values and an increase for 17% of the values. For groundwater, the proposed changes reflect a decrease for approximately 92% of the values and an increase in approximately 8% of the values. Lowering the values may indicate a more stringent cleanup is required at a site and increasing the values may indicate a less stringent cleanup is required at a site. The number of completed remediations vary each year. On average, remediators apply the Act 2 remediation standard to approximately 800 contaminated properties across this Commonwealth. The Department does not expect that the proposed amendments would impact the number of remediations voluntarily completed or the number that must be completed as a result of Department enforcement actions.

The proposed amendments to Statewide health standard MSCs would not affect the cleanup options available to remediators under other cleanup standards. Persons conducting remediation under Act 2 may choose from three different cleanup standards: background, Statewide health or site-specific.

The Department does not expect that this proposed rulemaking, as it relates to new MSCs for PFOA, PFOS and PFBS, would create any additional costs. Act 2 does not create liability for, or the obligation to, address contamination for these and other chemicals. Instead, that obligation comes from other environmental statutes, including The Clean Streams Law (35 P.S. §§ 691.1—691.1001) and the Solid Waste Management Act (35 P.S. §§ 6018.101—6018.1003). Act 2 provides remediators with options to remediate contamination. Having these new MSCs would allow remediators to address PFOS, PFOA and PFBS groundwater and soil contamination. This would benefit the public by lessening public exposure to these contaminants.

Compliance assistance plan

The Land Recycling Program would disseminate information concerning these updates using the Department web site and e-mails to environmental consultants involved in the program.

Paperwork requirements

This proposed rulemaking would not result in any additional forms or reports, beyond those that are already required by Act 2 and Chapter 250.

G. *Pollution Prevention*

The Federal Pollution Prevention Act of 1990 (42 U.S.C.A. §§ 13101—13109) established a National policy that promotes pollution prevention as the preferred means for achieving state environmental protection goals. The Department encourages pollution prevention, which is the reduction or elimination of pollution at its source, through the substitution of environmentally friendly materials, more efficient use of raw materials and the incorporation of energy efficiency strategies. Pollution prevention practices can provide greater environmental protection with greater efficiency because they can result in significant cost savings to facilities that permanently achieve or move beyond compliance.

Act 2 encourages cleanup plans that have as a goal remedies which treat, destroy or remove regulated substances whenever technically and economically feasible. This proposed rulemaking would provide the necessary Statewide health standard MSCs for remediators to remove contamination or eliminate exposure, where appropriate. This proposed rulemaking reflects the most up-to-date science, especially as it relates to the characterization and removal of contamination that exceeds Act 2 MSCs. During the remediation of a contaminated site, potential sources of pollution are often removed to attain the Act 2 standards, eliminating or minimizing the potential for continued migration of the sources of pollution to other areas.

H. *Sunset Review*

The Board is not establishing a sunset date for this proposed rulemaking because it is needed for the Department to carry out its statutory authority.

I. *Regulatory Review*

Under Section 5(a) of the Regulatory Review Act (71 P.S. § 745.5(a)), on January 27, 2020, the Department submitted a copy of these proposed amendments to the

Independent Regulatory Review Commission (IRRC) and the Chairpersons of the House and Senate Environmental Resources and Energy Committees. In addition to submitting the proposed amendments, the Department has provided IRRC and the Committees with a copy of a detailed regulatory analysis form prepared by the Department. A copy of this material is available to the public upon request.

Under section 5(g) of the Regulatory Review Act, IRRC may convey any comments, recommendations or objections to the proposed regulations within 30 days of the close of the public comment period. The comments, recommendations or objections shall specify the regulatory review criteria that have not been met. The Act specifies detailed procedures for review of these issues by the Department, the General Assembly and the Governor prior to final publication of the regulations.

J. *Public Comments*

Interested persons are invited to submit written comments, suggestions, support or objections regarding this proposed rulemaking to the Board. Comments, suggestions, support or objections must be received by the Board by April 14, 2020.

Comments may be submitted to the Board online, by e-mail, by mail or express mail as follows. Comments submitted by facsimile will not be accepted.

Comments may be submitted to the Board by accessing eComment at http://www.ahs.dep.pa.gov/eComment.

Comments may be submitted to the Board by e-mail at RegComments@pa.gov. A subject heading of this proposed rulemaking and a return name and address must be included in each transmission.

If an acknowledgement of comments submitted online or by e-mail is not received by the sender within 2 working days, the comments should be retransmitted to the Board to ensure receipt.

Written comments should be mailed to the Environmental Quality Board, P.O. Box 8477, Harrisburg, PA 17105-8477. Express mail should be sent to the Environmental Quality Board, Rachel Carson State Office Building, 16th Floor, 400 Market Street, Harrisburg, PA 17101-2301.

K. *Public Hearings*

The Board will hold 3 public hearings for the purpose of accepting comments on this proposed rulemaking. The hearings will be held at 6 p.m. on the following dates:

March 17, 2020	Department of Environmental Protection Southcentral Regional Office Susquehanna Conference Rooms A & B 909 Elmerton Avenue Harrisburg, PA 17110
March 18, 2020	Department of Environmental Protection Southwest Regional Office Waterfront Conference Rooms A & B 400 Waterfront Drive Pittsburgh, PA 15222
March 25, 2020	Warminster Township Library 1076 Emma Lane Warminster, PA 18974

Persons wishing to present testimony at a hearing are requested to contact the Environmental Quality Board, P.O. Box 8477, Harrisburg, PA 17105-8477, (717) 787-4526 at least 1 week in advance of the hearing to reserve a time to present testimony. Oral testimony is limited to 5 minutes for each witness. Witnesses are requested to submit three written copies of their oral testimony to the hearing chairperson at the hearing. Organizations are limited to designating one witness to present testimony on their behalf at each hearing.

Persons in need of accommodations as provided for in the Americans with Disabilities Act of 1990 should contact the Board at (717) 787-4526 or through the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD) or (800) 654-5988 (voice users) to discuss how the Board may accommodate their needs

PATRICK McDONNELL,
Chairperson

Fiscal Note: 7-552. No fiscal impact; (8) recommends adoption.

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION

PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION

Subpart D. ENVIRONMENTAL HEALTH AND SAFETY

ARTICLE VI. GENERAL HEALTH AND SAFETY

CHAPTER 250. ADMINISTRATION OF LAND RECYCLING PROGRAM

Subchapter A. GENERAL PROVISIONS

§ 250.1. Definitions.

* * * * *

MCL—Maximum contaminant level.

***MDL—Method detection limit*—The instrument-specific minimum measured concentration of a substance that can be reported with 99% confidence to be distinguishable from the method blank result.**

MSC—Medium-specific concentration.

* * * * *

TF—Transfer factor.

Volatile compound—A chemical compound with **either** a boiling point less than 200° centigrade at 1 atmosphere **or a Henry's law constant greater than or equal to 1 × 10^{-5} atm-m^3/mol and a molecular weight less than 200 g/mol, where:**

atm = standard atmosphere
m^3 = cubic meter
mol = mole
g = gram
g/mol = molar mass

§ 250.4. Limits related to PQLs.

(a) The PQLs shall be selected from the PQLs **or EQLs** specified by the EPA **[as EQLs]** in the most current version of **[the EPA RCRA Manual SW-846 (U.S. EPA, 1990. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. Third Edition. Office of Solid Waste and Emergency Response) for soil listed as "low level soil" and for groundwater listed as "groundwater" in accordance with the following:] EPA's drinking water or solid waste analytical methods.**

[(1) For inorganic compounds, the PQLs under this chapter shall be the values listed for methods associated with analysis by Inductively Coupled Plasma (ICP) with the following exceptions:

(i) For lead, cadmium, arsenic and selenium, values listed for the atomic absorption graphite furnace methods for water shall be used.

(ii) Mercury shall be the value listed for the cold vapor method.

(2) For organic compounds, the PQLs shall be the EQLs listed for the GC/Mass spec methods—for example, Method 8240 for volatile organic compounds.

(b) If the PQL selected under subsection (a) is higher than the MCL or HAL for an organic regulated substance in groundwater, the PQLs shall be derived from the analytical methodologies published under the drinking water program in the most current version of *Methods for the Determination of Organic Compounds in Drinking Water* (U.S. EPA, 1988, Environmental Monitoring Systems Laboratory, EPA/600/4-88/039) If a PQL determined under this subsection is not below a HAL, the methodologies in subsection (c)(1) or (2) shall be used unless those quantitation limits are higher than the PQL determined under this subsection.

(c)] **(b)** For regulated substances when **PQLs or** EQLs set by the EPA **exceed an MCL or HAL or** have a health risk that is greater (less protective) than the risk levels set in sections 303(c) and 304(b) and (c) of the act (35 P.S. §§ 6026.303(c) and 6026.304(b) and (c)) **[or] and** for substances when no EQL has been established by the EPA, the **[limits related to the]** PQL shall be **[the quantitation limits]** established by the methodologies in paragraph (1) or (2).

(1) A level set by multiplying 3.18 by the published method detection limit (MDL) of the most recently approved EPA methodology.

(2) A level **[representing the lowest calibration point that can consistently be determined to have a percent relative standard deviation (%RSD) of less than 30% or correlation coefficient of greater than 0.995 using reagent water]** **set by multiplying 3.18 by the instrument-specific MDL. If multiple instruments are used, then the PQL is set by averaging the instrument-specific MDLs and multiplying that value by 3.18**.

[(d)] **(c)** For regulated substances which have no limits related to PQLs identified in subsection **[(c)(1)]** **(b)(1)** or (2), a person shall demonstrate attainment under the site-specific standard or the background standard.

[(e)] **(d)** When a minimum threshold MSC is used as a Statewide health standard, the minimum threshold MSC is the Statewide health standard regardless of whether it is higher or lower than a quantitation limit established by this section.

[(f)] **(e)** Nothing in this section restricts the selection of valid and generally accepted methods to be used to analyze samples of environmental media.

§ 250.6. Public participation.

* * * * *

(c) If a public involvement plan has been initiated, the person proposing remediation shall, at a minimum, **[provide]** **include the following three measures in the plan to involve the public in the development and review of the remedial investigation report, risk assessment report, cleanup plan and final report**:

(1) **[Public]** **Provide public** access at convenient locations for document review.

(2) **[Designation of]** **Designate** a single contact person to address questions from the community.

(3) **[A]** **Use a** location near the remediation site for any public hearings and meetings that may be part of the public involvement plan.

(d) If a public involvement plan has been requested, **[it shall be submitted with one of the following:]** **the person proposing the remediation shall notify the Department and submit the plan to the municipality and the Department prior to its implementation.**

[(1) A remedial investigation report under a site-specific remediation.

(2) A baseline environmental report under an SIA cleanup.]

§ 250.10. Measurement of regulated substances in media.

* * * * *

(d) For groundwater where monitoring is being performed at a drinking water well, samples for metals analysis shall be field acidified and unfiltered in accordance with the most current version of **[*Groundwater Monitoring Guidance Manual*]** ***Land Recycling Program Technical Guidance Manual, Appendix A: Groundwater Monitoring Guidance,*** Department of Environmental Protection, **[3610-BK-DEP1973]** **document number 261-0300-101, or in accordance with an alternative sampling method that accurately measures regulated substances in groundwater**.

* * * * *

(*Editor's Note*: The following rule is proposed to be added and printed in regular type to enhance readability.)

§ 250.12. Professional seal.

Reports submitted to satisfy this subchapter containing information or analysis that constitutes professional geologic or engineering work as defined by the Engineer, Land Surveyor and Geologist Registration Law (63 P.S. §§ 148—158.2) must be sealed by a professional geologist or engineer who is in compliance with that statute.

Subchapter C. STATEWIDE HEALTH STANDARDS

§ 250.304. MSCs for groundwater.

* * * * *

(c) The MSCs for regulated substances contained in groundwater in aquifers used or currently planned to be used for drinking water or for agricultural purposes are the MCLs as established by the Department or the EPA in § 109.202 (relating to State MCLs, MRDLs and treatment technique requirements). For regulated substances where no MCL has been established, the MSCs are the Lifetime Health Advisory Levels (HAL) set forth in Drinking Water Standards and Health Advisories (DWSHA), EPA Office of Water Publication No. EPA **[822-S-12-001 (April 2012 or as revised)]** **822-F-18-001 (March 2018 or as revised)**, except for substances designated in the DWSHA with cancer descriptor (L) "Likely to be carcinogenic to humans" or (L/N) "Likely to be carcinogenic above a specific dose but not likely to be carcinogenic below that dose because a key event in

tumor formation does not occur below that dose." New or revised MCLs or HALs promulgated by the Department or the EPA shall become effective immediately for any demonstration of attainment completed after the date the new or revised MCLs or HALs become effective.

* * * * *

(g) The references referred to in subsection (f) are:

(1) Lide, D. R., ed. 1996. *CRC Handbook of Chemistry and Physics*, 77th Edition. CRC Press.

* * * * *

(18) Riddick, J. A., et al. 1986. *Organic Solvents; Physical Properties & Methods of Purification. Techniques of Chemistry*. 11th Edition. New York, NY: Wiley-Interscience.

(19) ATSDR (Agency for Toxic Substances and Disease Registry). 2015. *Toxicological Profile for Perfluoroalkyls. Draft for Public Comment*. Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. Accessed May 2016. http://www.atsdr.cdc.gov/ToxProfiles/tp200.pdf.

(20) Hekster, F.M., R.W. Laane, and P. de Voogt. 2003. *Environmental and toxicity effects of perfluoroalkylated substances. Reviews of Environmental Contamination and Toxicology* 179:99—121.

(21) HSDB (Hazardous Substances Data Bank). 2012. U.S. National Library of Medicine, Bethesda, MD. Accessed May 2016. http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB.

(22) Kauck, E.A., and A.R. Diesslin. 1951. *Some properties of perfluorocarboxylic acids. Industrial & Engineering Chemistry Research* 43(10):2332—2334.

(23) SRC (Syracuse Research Corporation). 2016. PHYSPROP Database. Accessed May 2016. http://www.srcinc.com/what-we-do/environmental/scientific-databases.html.

(24) OECD (Organisation for Economic Co-operation and Development). 2002. *Hazard Assessment of Perfluorooctane Sulfonate (PFOS) and its Salts*. ENV/JM/RD (2002) 17/FINAL. Report of the Environment Directorate, Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology, Co-operation on Existing Chemicals, Paris, November 21, 2002.

§ 250.305. MSCs for soil.

* * * * *

(c) For the residential standard, the MSC for regulated substances contained in soil is one of the following:

(1) The lowest of the following:

(i) The ingestion numeric value throughout the soil column to a depth of up to 15 feet from the existing ground surface as determined by the methodology in § 250.306 (relating to ingestion numeric values), using the appropriate default residential exposure assumptions contained in **[§ 250.306(e)]** **§ 250.306(d)**.

* * * * *

(g) A person conducting a remediation of soils contaminated with **[a substance]** **one or more substances** having a secondary MCL**, but no toxicological properties listed in Appendix A, Table 5B,** will not be required to comply with **either the direct contact pathway or** the soil-to-groundwater pathway requirements for those substances **[to protect groundwater in aquifers for drinking water]**. **The substances shall be subject to the requirements of § 250.311(a) through (f) (relating to evaluation of ecological receptors) with respect to evaluation of ecological receptors.**

§ 250.306. Ingestion numeric values.

* * * * *

(d) The default exposure assumptions used to calculate the ingestion numeric values are as follows:

Term		*Residential*		*Nonresidential (Onsite Worker)*
		Systemic[1]	*Carcinogens*[2,6]	
THQ	Target Hazard Quotient	1	N/A	1
RfD_o	Oral Reference Dose (mg/kg-day)	Chemical-specific	N/A	Chemical-specific
BW	Body Weight (kg)		N/A	
	Soil	15		80
	Groundwater	80		80
AT_{nc}	Averaging Time for systemic toxicants (yr)			
	Soil	6	N/A	25
	Groundwater	30	N/A	25
Abs	Absorption (unitless)[3]	1	1	1
EF	Exposure Frequency (d/yr)			
	Soil	250	250	180
	Groundwater	350	350	250
ED	Exposure Duration (yr)			
	Soil	6	N/A	25
	Groundwater	30	N/A	25
IngR	Ingestion Rate			
	Soil (mg/day)	100	N/A	50
	GW (L/day)	**[2]** **2.4**	N/A	**[1]** **1.2**

Term		Residential		Nonresidential (Onsite Worker)
		Systemic[1]	Carcinogens[2,6]	
CF	Conversion Factor Soil (kg/mg) GW (unitless)	 1×10^{-6} 1	 1×10^{-6} 1	 1×10^{-6} 1
TR	Target Risk	N/A	1×10^{-5}	1×10^{-5}
CSF_o	Oral Cancer Slope Factor (mg/kg-day)$^{-1}$	N/A	Chemical-specific	Chemical-specific
AT_c	Averaging Time for carcinogens (yr)	N/A	70	70
IFadj[4]	Ingestion Factor Soil (mg-yr/kg-day) GW (L-yr/kg day)	N/A	 55 **[1]** **1.2**	 15.6 **[0.3]** **0.38**
AIFadj[5]	Combined Age-Dependent Adjustment Factor and Ingestion Factor Soil (mg-yr/kg-day) GW (L-yr/kg-day)	N/A	 241 **[3.23]** **3.45**	N/A
$CSFo_k$	TCE oral cancer slope factor for kidney cancer (mg/kg/day)$^{-1}$		9.3×10^{-3}	
$CSFo_l$	TCE oral cancer slope factor for non-Hodgkin lymphoma and liver cancer (mg/kg/day)$^{-1}$		3.7×10^{-2}	

Notes:

* * * * *

[4] The Ingestion Factor for the residential scenario is calculated using the equation $If_{[adj]}$**adj** = $ED_c \times IR_c/BW_c + ED_a \times IR_a/B$**[w]**$W_a$, where ED_c = 6 yr, IR_c = 100 mg/day for soils and 1 L/day for groundwater, BW_c = 15 kg, ED_a = 24 yr, IR_a = 50 mg/day for soils and **[2]** **2.4** L/day for groundwater, and BW_a = 80 kg. The ingestion factor for the nonresidential scenario is calculated using the equation $If_{[adj]}$**adj** = ED × IR/BW, where ED = 25 yr, IR = 50 mg/day for soils and **[1]** **1.2** L/day for groundwater, and BW = 80 kg.

[5] The Combined Age-Dependent Adjustment Factor and Ingestion Factor (AIFadj) for the residential scenario is calculated using the equation AIFadj = $[(ADAF_{<2} \times ED_{<2}) + (ADAF_{2\text{-}6} \times ED_{2\text{-}6})] \times IR$**[c]**$_c$ / BW**[c]**$_c$ + $[(ADAF_{[>]6\text{-}16} \times ED_{[>]6\text{-}16} + (ADAF_{>16} \times ED_{>[6\text{-}]16})] \times IR$**[a]**$_a$ / BW**[a]**$_a$, where $ADAF_{<2}$ = 10, $ED_{<2}$ = 2 yr, $ADAF_{2\text{-}6}$ = 3, $ED_{2\text{-}6}$ = 4 yr, IR**[c]**$_c$ = 100mg/day for soils and 1 L/day for groundwater, BW**[c]**$_c$ = 15 kg, $ADAF_{[>]6\text{-}16}$ = 3, $ED_{[>]6\text{-}16}$ = 10 yr, $ADAF_{>16}$ = 1, $ED_{>16}$ = 14 yr, IR**[a]**$_a$ = 50 mg/day for soils and **[2]** **2.4** L/day for groundwater, and BW**[a]**$_a$ = 80 kg.

* * * * *

(e) The residential ingestion numeric value for lead in soil was developed using the **[Uptake Biokinetic (UBK) Model for Lead (version 0.4)]** **Integrated Exposure Uptake Biokinetic (IEUBK) Model for Lead in Children, Windows® version (IEUBKwin v1.1 build 11) 32-bit version** developed by the EPA (U.S. Environmental Protection Agency. (**[1990]** **February 2010**) **[Uptake Biokinetic (UBK) Model for Lead (version 0.4). U.S. EPA/ECAO. August 1990,]** in lieu of the algorithms presented in subsections (a) and (b). Default input values are identified in Appendix A, Table 7. Because the **[UBK]** **IEUBK** model is applicable only to children, the nonresidential ingestion numeric value was calculated **[according to the method developed by the Society for Environmental Geochemistry and Health (Wixson, B. G. (1991)). The Society for Environmental Geochemistry and Health (SEGH) Task Force Approach to the Assessment of Lead in Soil. *Trace Substances in Environmental Health*. (11-20), using the following equations:**

$$S = \frac{1000\left[\left(\frac{T}{G^n}\right) - B\right]}{\delta}$$

]

using EPA's Adult Lead Methodology (ALM) in accordance with the guidance, exposure factors, equations, and spreadsheets provided in EPA's *Recommendations of the Technical Review Workgroup for Lead for an Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil* (EPA-540-R-03-001, OSWER Dir # 9285.7-54, January 2003), *OLEM Directive 9285.6-56 "Update to the Adult Lead Methodology's Default Baseline Blood Lead Concentration and Geometric Standard Deviation Parameters"* (May 2017) and the associated June 14, 2017, version of the *Calculations of Preliminary Remediation Goals (PRGs) for Soil in Nonresidential Areas U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee* spreadsheets. Table 7 identi-

fies each of the variables **[in this equation]** **used to calculate the nonresidential ingestion numeric value for lead**.

§ 250.307. Inhalation numeric values.

* * * * *

(g) For a regulated substance which is a carcinogen and is a volatile compound, the numeric value for the inhalation of volatiles from groundwater shall be calculated by using the appropriate residential or nonresidential exposure assumptions from subsection (h) according to the following equations:

(1) For regulated substances not identified as a mutagen in § 250.301(b):

$$MSC = \frac{TR \times AT_c \times 365 \text{ days/year } \textbf{\times 24 hr/day}}{IUR \times ET \times EF \times ED \times TF \times CF}$$

* * * * *

§ 250.308. Soil to groundwater pathway numeric values.

(a) A person may use the soil-to-groundwater pathway numeric values listed in Appendix A, Tables 3B and 4B, as developed using the methods contained in paragraph (1), (2) or (4), may use a concentration in soil at the site which does not produce a leachate in excess of the MSC for groundwater contained in Appendix A, Tables 1 and 2, when subjected to the Synthetic Precipitation Leaching Procedure (Method 1312 of SW-846, Test Methods for Evaluating Solid Waste, promulgated by the U.S. EPA), or may use the soil-to-groundwater pathway soil buffer criteria in subsection (b) or may use the soil-to-groundwater pathway equivalency demonstration in subsection (d).

* * * * *

(2) For organic compounds, a generic value determined not to produce a concentration in groundwater in the aquifer in excess of the MSC for groundwater as calculated by the equation in paragraph (3).

(i) For soil not in the zone of groundwater saturation, the generic value shall be calculated by the equation in paragraph (3).

(ii) For soil in the zone of groundwater saturation, the **[standard]** **generic numeric value** is 1/10th of the generic value calculated by the equation in paragraph (3).

* * * * *

§ 250.311. Evaluation of ecological receptors.

* * * * *

(b) For purposes of determining impacts on ecological receptors, no additional evaluation is required if the remediation attains a level equal to 1/10th of the value in Appendix A, Tables 3 and 4 **or, for substances identified in § 250.305(g), 1/10th of the physical limitation identified in § 250.305(b)**, except for constituents of potential ecological concern identified in Table 8, or if the criteria in paragraph (1), (2) or (3) are met. Information that supports a determination that no additional evaluation is required shall be documented in the final report.

* * * * *

Subchapter D. SITE-SPECIFIC STANDARD

§ 250.402. Human health and environmental protection goals.

* * * * *

(d) If a person is using the site-specific standard to protect ecological receptors under this subchapter or **[in accordance with § 250.311(e)]** **as a result of selecting § 250.311(e)(4) when ecological receptors cannot be evaluated under the Statewide health standard**, the following shall be performed:

* * * * *

(3) Implementation of the selected remedy, which may include mitigation measures under § **[230.311(f)]** **250.311(f)**, that is protective of the ecological receptors.

§ 250.404. Pathway identification and elimination.

(a) The person shall use **Department or** Department-approved EPA or ASTM guidance to identify any potential current and future exposure pathways for both human receptors and environmental receptors identified in § 250.402 (relating to human health and environmental protection goals).

* * * * *

§ 250.409. Risk assessment report.

The risk assessment report shall conform to this subchapter and Subchapter F (relating to exposure and risk determinations), and shall include the following unless not required under § 250.405 (relating to when to perform a risk assessment):

(1) **[A]** **Except when submitted in combination with a remedial investigation report, a** risk assessment report that **[describes]** **uses site characterization information from an approved remedial investigation report to describe** the potential adverse effects, including the evaluation of ecological receptors, under both current and planned future conditions caused by the presence of regulated substances in the absence of any further control, remediation or mitigation measures.

* * * * *

§ 250.410. Cleanup plan.

* * * * *

(c) When a person proposes a remedy that relies on access to properties owned by third parties, for remediation or monitoring, documentation of cooperation or agreement shall be submitted as part of the cleanup plan.

(d) **A cleanup plan is required when an institutional or engineering control is used as a remedy to address current and future exposure pathways or exposure pathways that existed prior to submitting an NIR.**

(e) A cleanup plan is not required and no remedy is required to be proposed or completed if no current or future exposure pathways exist.

(*Editor's Note*: The following rule is proposed to be added and printed in regular type to enhance readability.)

§ 250.412. Combined reports.

A person does not need prior Department approval of a remedial investigation report if the remedial investigation report is submitted together with either a risk assessment report or a cleanup plan.

Subchapter E. SIA STANDARDS

§ 250.503. Remediation requirements.

* * * * *

(e) A person that changes the use of the property from nonresidential to residential, or changes the use of the property to create substantial changes in exposure condi-

tions to contamination that existed prior to the person's reuse shall notify the Department of the changes and may be required to **amend the baseline environmental report and** implement a remediation plan to address any new imminent, direct or immediate threats to human health and the environment resulting from the changes.

* * * * *

Subchapter F. EXPOSURE AND RISK DETERMINATIONS

§ 250.603. Exposure factors for site-specific standards.

(a) A risk assessment for the site-specific standard shall use site-specific exposure factors under the EPA's **[** ***Final Guidelines for Exposure Assessment*****, 1992 (57 FR 22888—22938)]** ***Exposure Factors Handbook: 2011 Edition*****, 2011 (EPA/600/R-090/052F)** or exposure factors used in the development of the Statewide health standards identified in Subchapter C (relating to Statewide health standards).

* * * * *

§ 250.605. Sources of toxicity information.

(a) For site-specific standards, the person shall use appropriate reference doses, reference concentrations, cancer slope factors and unit risk factors identified in Subchapter C (relating to Statewide health standards), unless the person can demonstrate that published data, available from one of the following sources, provides more current reference doses, reference concentrations, cancer slope factors or unit risk factors:

(1) Integrated Risk Information System (IRIS).

(2) United States Environmental Protection Agency, National Center for Environmental Assessment (NCEA) Provisional Peer-Reviewed Toxicity Values (PPRTV).

(3) Other sources**:**

(i) Health Effects Assessment Summary Tables (HEAST)

(ii) Agency for Toxic Substances and Disease Registry (ATSDR) Toxicological Profiles.

(iii) California EPA, California Cancer Potency Factors and Chronic Reference Exposure Levels.

(iv) EPA criteria documents, including drinking water criteria documents, drinking water health advisory summaries, ambient water quality criteria documents and air quality criteria documents.

(v) EPA Human Health Benchmarks for Pesticides (HHBP)

(vi) EPA PPRTV Appendix

(b) If no toxicity values are available from sources identified in subsection (a), the person may use the background standard or meet one of the following:

* * * * *

Subchapter G. DEMONSTRATION OF ATTAINMENT

§ 250.707. Statistical tests.

* * * * *

(b) The following statistical tests may be accepted by the Department to demonstrate attainment of the Statewide health standard. The statistical test for soil shall apply to each distinct area of contamination. The statistical test for groundwater will apply to each compliance monitoring well. Testing shall be performed individually for each regulated substance identified in the final report site investigation as being present at the site for which a person wants relief from liability under the act. The application of a statistical method must meet the criteria in subsection (d).

(1) For soil attainment determination at each distinct area of contamination, subparagraph (i), (ii) or (iii) shall be met in addition to the attainment requirements in §§ 250.702 and 250.703 (relating to attainment requirements; and general attainment requirements for soil).

* * * * *

(ii) As applied in accordance with EPA approved methods on statistical analysis of environmental data, as identified in subsection (e), the 95% UCL of the arithmetic mean shall be at or below the **[Statewide health standard]** **MSC**.

(iii) For sites with a petroleum release where full site characterization, as defined in § 250.204(b) (relating to final report), has not been done in association with an excavation remediation, attainment of the Statewide health standard shall be demonstrated using the following procedure:

(A) For sites regulated under Chapter 245 (relating to administration of the storage tank and spill prevention program) where there is localized contamination as defined in the document "Closure Requirements for Underground Storage Tank Systems" (DEP technical document 2530-BK-DEP2008), samples shall be taken in accordance with that document.

(B) For sites not covered by clause (A), including all sites being remediated under an NIR under this chapter, samples shall be taken from the bottom and sidewalls of the excavation in a biased fashion that concentrates on areas where any remaining contamination above the Statewide health standard would most likely be found. The samples shall be taken from these suspect areas based on visual observation and the use of field instruments. If a sufficient number of samples has been collected from all suspect locations and the minimum number of samples has not been collected, or if there are no suspect areas, the locations to meet the minimum number of samples shall be based on a random procedure. The number of sample points required shall be determined in the following way:

(I) For 250 cubic yards or less of excavated contaminated soil, five samples shall be collected.

(II) For each additional 100 cubic yards of excavated contaminated soil, one sample shall be collected.

(III) For excavations involving more than 1,000 cubic yards of contaminated soil, the remediator shall identify the number and locations of samples in a confirmatory sampling plan submitted to the Department. The remediator shall obtain the Department's approval of the confirmatory sampling plan prior to conducting attainment sampling.

(IV) Where water is encountered in the excavation and no obvious contamination is observed or indicated, soil samples collected just above the soil/water interface shall be equal to or less than the applicable Statewide health MSC determined by § 250.308(a)(2)(ii) (relating to soil to groundwater pathway numeric values).

(V) Where water is encountered in the excavation and no obvious contamination is observed or indicated, a minimum of two samples shall be collected from the water surface in the excavation.

(VI) For sites where there is a release to surface soils resulting in excavation of 50 cubic yards or less of contaminated soil, samples shall be collected as described in this clause, except that two samples shall be collected.

(C) All sample results shall be equal to or less than the applicable Statewide health MSC as determined using Tables 1—4 and 6 in Appendix A.

(D) A vapor intrusion analysis is not necessary if the requirements of § 250.707(b)(1)(iii) are met in addition to the following:

(I) At least one soil sample is collected on the sidewall nearest an inhabited building within the appropriate proximity distance to a potential vapor intrusion source and there are not substantially higher field instrument readings elsewhere.

(II) Observations of obvious contamination and the use of appropriate field screening instruments verify that contamination has not contacted or penetrated the foundation of an inhabited building.

(III) Groundwater contamination has not been identified as a potential vapor intrusion concern.

(2) For groundwater attainment determination at each compliance monitoring well, subparagraph (i) or (ii) shall be met in addition to the attainment requirements in § 250.702 and § 250.704 (relating to general attainment requirements for groundwater).

* * * * *

Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ACENAPHTHENE	83-32-9	**[2,500] 2,100** G	3,800 S	3,800 S	3,800 S	3,800 S	3,800 S
ACENAPHTHYLENE	208-96-8	**[2,500] 2,100** G	**[7,000] 5,800** G	16,000 S	16,000 S	16,000 S	16,000 S
ACEPHATE	30560-19-1	**[84] 42** G	**[390] 120** G	**[8,400] 4,200** G	**[39,000] 12,000** G	**[84] 42** G	**[390] 120** G
ACETALDEHYDE	75-07-0	19 N	79 N	1,900 N	7,900 N	19 N	79 N
ACETONE	67-64-1	**[38,000] 31,000** G	**[110,000] 88,000** G	**[3,800,000] 3,100,000** G	**[11,000,000] 8,800,000** G	**[380,000] 310,000** G	**[1,100,000] 880,000** G
ACETONITRILE	75-05-8	130 N	530 N	13,000 N	53,000 N	1,300 N	5,300 N
ACETOPHENONE	98-86-2	**[4,200] 3,500** G	**[12,000] 9,700** G	**[420,000] 350,000** G	**[1,200,000] 970,000** G	**[4,200] 3,500** G	**[12,000] 9,700** G
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	**[0.19] 0.17** G	**[0.89] 0.72** G	**[19] 17** G	**[89] 72** G	**[190] 170** G	**[890] 720** G
ACROLEIN	107-02-8	0.042 N	0.18 N	4.2 N	18 N	0.42 N	1.8 N
ACRYLAMIDE	79-06-1	0.19 N	2.5 N	19 N	250 N	0.19 N	2.5 N
ACRYLIC ACID	79-10-7	2.1 N	8.8 N	210 N	880 N	210 N	880 N
ACRYLONITRILE	107-13-1	0.72 N	3.7 N	72 N	370 N	72 N	370 N
ALACHLOR	15972-60-8	2 M	2 M	200 M	200 M	2 M	2 M
ALDICARB	116-06-3	3 M	3 M	300 M	300 M	3,000 M	3,000 M
ALDICARB SULFONE	1646-88-4	2 M	2 M	200 M	200 M	2 M	2 M
ALDICARB SULFOXIDE	1646-87-3	4 M	4 M	400 M	400 M	4 M	4 M
ALDRIN	309-00-2	**[0.043] 0.038** G	**[0.2] 0.16** G	**[4.3] 3.8** G	**[20] 16** G	20 S	20 S
ALLYL ALCOHOL	107-18-6	0.21 N	0.88 N	21 N	88 N	21 N	88 N
AMETRYN	834-12-8	60 H	60 H	6,000 H	6,000 H	60 H	60 H
AMINOBIPHENYL, 4-	92-67-1	**[0.035] 0.031** G	**[0.16] 0.13** G	**[3.5] 3.1** G	**[16] 13** G	**[35] 31** G	**[160] 130** G
AMITROLE	61-82-5	**[0.78] 0.69** G	**[3.6] 2.9** G	**[78] 69** G	**[360] 290** G	**[780] 690** G	**[3,600] 2,900** G
AMMONIA	7664-41-7	30,000 H	30,000 H	3,000,000 H	3,000,000 H	30,000 H	30,000 H
AMMONIUM SULFAMATE	7773-06-0	2,000 H	2,000 H	200,000 H	200,000 H	2,000 H	2,000 H
ANILINE	62-53-3	2.1 N	8.8 N	210 N	880 N	2.1 N	8.8 N
ANTHRACENE	120-12-7	66 S	66 S	66 S	66 S	66 S	66 S

All concentrations in µg/L M = Maximum Contaminant Level N = Inhalation
R = Residential H = Lifetime health advisory level S = Aqueous solubility cap
NR = Non-Residential G = Ingestion
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.
PFOA and PFOS values listed are for individual or total combined.

Appendix A

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ATRAZINE	1912-24-9	3 M	3 M	300 M	300 M	3 M	3 M
AZINPHOS-METHYL (GUTHION)	86-50-0	**[130] 52** G	**[350] 150** G	**[13,000] 5,200** G	**[32,000] 15,000 [S] G**	**[130] 52** G	**[350] 150** G
BAYGON (PROPOXUR)	114-26-1	3 H	3 H	300 H	300 H	3,000 H	3,000 H
BENOMYL	17804-35-2	**[2,000] 270 [S] G**	**[2,000] 1,100 [S] G**	2,000 S	2,000 S	**[2,000] 270 [S] G**	**[2,000] 1,100 [S] G**
BENTAZON	25057-89-0	200 H	200 H	20,000 H	20,000 H	200 H	200 H
BENZENE	71-43-2	5 M	5 M	500 M	500 M	500 M	500 M
BENZIDINE	92-87-5	**[0.00098] 0.00092** G	**[0.015] 0.012** G	**[0.098] 0.092** G	**[1.5] 1.2** G	**[0.98] 0.92** G	**[15] 12** G
BENZO[A]ANTHRACENE	56-55-3	**[0.32] 0.3** G	**[4.9] 3.9** G	11 S	11 S	11 S	11 S
BENZO[A]PYRENE	50-32-8	0.2 M	0.2 M	3.8 S	3.8 S	3.8 S	3.8 S
BENZO[B]FLUORANTHENE	205-99-2	**[0.19] 0.18** G	1.2 S	1.2 S	1.2 S	1.2 S	1.2 S
BENZO[GHI]PERYLENE	191-24-2	0.26 S	0.26 S	0.26 S	0.26 S	0.26 S	0.26 S
BENZO[K]FLUORANTHENE	207-08-9	**[0.19] 0.18** G	0.55 S	0.55 S	0.55 S	0.55 S	0.55 S
BENZOIC ACID	65-85-0	**[170,000] 140,000** G	**[470,000] 390,000** G	2,700,000 S	2,700,000 S	**[170,000] 140,000** G	**[470,000] 390,000** G
BENZOTRICHLORIDE	98-07-7	**[0.056] 0.05** G	**[0.26] 0.21** G	**[5.6] 5** G	**[26] 21** G	**[56] 5** G	**[260] 21** G
BENZYL ALCOHOL	100-51-6	**[4,200] 3,500** G	**[12,000] 9,700** G	**[420,000] 350,000** G	**[1,200,000] 970,000** G	**[4,200] 3,500** G	**[12,000] 9,700** G
BENZYL CHLORIDE	100-44-7	1 N	5.1 N	100 N	510 N	100 N	510 N
BETA PROPIOLACTONE	57-57-8	0.012 N	0.063 N	1.2 N	6.3 N	0.12 N	0.63 N
BHC, ALPHA-	319-84-6	**[0.12] 0.1** G	**[0.54] 0.43** G	**[12] 10** G	**[54] 43** G	**[120] 100** G	**[540] 430** G
BHC, BETA-	319-85-7	**[0.41] 0.36** G	**[1.9] 1.5** G	**[41] 36** G	100 S	100 S	100 S
BHC, GAMMA (LINDANE)	58-89-9	0.2 M	0.2 M	20 M	20 M	200 M	200 M
BIPHENYL, 1,1-	92-52-4	**[91] 0.84 [G] N**	**[430] 3.5 [G] N**	**[7,200] 84 [S] N**	**[7,200] 350 [S] N**	**[7,200] 84 [S] N**	**[7,200] 350 [S] N**
BIS(2-CHLOROETHOXY)METHANE	111-91-1	**[130] 100** G	**[350] 290** G	**[13,000] 10,000** G	**[35,000] 29,000** G	**[130] 100** G	**[350] 290** G
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.15 N	0.76 N	15 N	76 N	15 N	76 N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	300 H	300 H	30,000 H	30,000 H	30,000 H	30,000 H

All concentrations in µg/L M = Maximum Contaminant Level N = Inhalation
R = Residential H = Lifetime health advisory level S = Aqueous solubility cap
NR = Non-Residential G = Ingestion
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
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Appendix A

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		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
BIS(CHLOROMETHYL)ETHER	542-88-1	0.00079 N	0.004 N	0.079 N	0.4 N	0.079 N	0.4 N
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	6 M	6 M	290 S	290 S	290 S	290 S
BISPHENOL A	80-05-7	**[2,100] 1,700** G	**[5,800] 4,900** G	120,000 S	120,000 S	120,000 S	120,000 S
BROMACIL	314-40-9	70 H	70 H	7,000 H	7,000 H	70 H	70 H
BROMOBENZENE	**108-86-1**	**0.06 H**	**0.06 H**	**6 H**	**6 H**	**0.06 H**	**0.06 H**
BROMOCHLOROMETHANE	74-97-5	90 H	90 H	9,000 H	9,000 H	90 H	90 H
BROMODICHLOROMETHANE (THM)	75-27-4	80 M	80 M	8,000 M	8,000 M	80 M	80 M
BROMOMETHANE	74-83-9	10 H	10 H	1,000 H	1,000 H	1,000 H	1,000 H
BROMOXYNIL	1689-84-5	**[830] 6.3** G	**[2,300] 26** G	**[83,000] 630** G	**[130,000] 2,600 [S] G**	**[830] 6.3** G	**[2,300] 26** G
BROMOXYNIL OCTANOATE	1689-99-2	**[80] 6.3 [S] G**	**[80] 26 [S] G**	80 S	80 S	80 S	80 S
BUTADIENE, 1,3-	106-99-0	**[0.21] 1.1** G	**[1] 4.5** G	**[21] 110** G	**[100] 450** G	**[21] 110** G	**[100] 450** G
BUTYL ALCOHOL, N-	71-36-3	**[4,200] 3,500** G	**[12,000] 9,700** G	**[420,000] 350,000** G	**[1,200,000] 970,000** G	**[42,000] 35,000** G	**[120,000] 97,000** G
BUTYLATE	2008-41-5	400 H	400 H	40,000 H	40,000 H	400 H	400 H
BUTYLBENZENE, N-	104-51-8	**[2,100] 1,700** G	**[5,800] 4,900** G	15,000 S	15,000 S	**[2,100] 1,700** G	**[5,800] 4,900** G
BUTYLBENZENE, SEC-	135-98-8	**[4,200] 3,500** G	**[12,000] 9,700** G	17,000 S	17,000 S	**[4,200] 3,500** G	**[12,000] 9,700** G
BUTYLBENZENE, TERT-	98-06-6	**[4,200] 3,500** G	**[12,000] 9,700** G	30,000 S	30,000 S	**[4,200] 3,500** G	**[12,000] 9,700** G
BUTYLBENZYL PHTHALATE	85-68-7	**[380] 340** G	**[1,800] 1,400** G	2,700 S	2,700 S	2,700 S	2,700 S
CAPTAN	133-06-2	**[320] 280** G	500 S	500 S	500 S	500 S	500 S
CARBARYL	63-25-2	**[4,200] 3,500** G	**[12,000] 9,700** G	120,000 S	120,000 S	120,000 S	120,000 S
CARBAZOLE	86-74-8	**[37] 33** G	**[170] 140** G	1,200 S	1,200 S	**[37] 33 [S] G**	**[170] 140 [S] G**
CARBOFURAN	1563-66-2	40 M	40 M	4,000 M	4,000 M	40 M	40 M
CARBON DISULFIDE	75-15-0	1,500 N	6,200 N	150,000 N	620,000 N	1,500 N	6,200 N

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
CARBON TETRACHLORIDE	56-23-5	5 M	5 M	500 M	500 M	50 M	50 M
CARBOXIN	5234-68-4	700 H	700 H	70,000 H	70,000 H	700 H	700 H
CHLORAMBEN	133-90-4	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLORDANE	57-74-9	2 M	2 M	56 S	56 S	56 S	56 S
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	110,000 N	440,000 N	1,400,000 S	1,400,000 S	110,000 N	440,000 N
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	2.1 N	8.8 N	210 N	880 N	210 N	880 N
CHLOROACETALDEHYDE	107-20-0	2.4 G	**[11]** **10** G	240 G	**[1,100]** **1,000** G	2.4 G	**[11]** **10** G
[CHLOROACETOPHENONE, 2-]	**[532-27-4]**	**[1.3] [G]**	**[3.5] [G]**	**[130] [G]**	**[350] [G]**	**[1,300] [G]**	**[3,500] [G]**
CHLOROANILINE, P-	106-47-8	**[3.7]** **3.3** G	**[17]** **14** G	**[370]** **330** G	**[1,700]** **1,400** G	**[3.7]** **3.3** G	**[17]** **14** G
CHLOROBENZENE	108-90-7	100 M	100 M	10,000 M	10,000 M	10,000 M	10,000 M
CHLOROBENZILATE	510-15-6	**[6.6]** **5.9** G	**[31]** **25** G	**[660]** **590** G	**[3,100]** **2,500** G	**[6,600]** **5,900** G	13,000 S
CHLOROBUTANE, 1-	109-69-3	**[1,700]** **1,400** G	**[4,700]** **3,900** G	**[170,000]** **140,000** G	**[470,000]** **390,000** G	**[1,700]** **1,400** G	**[4,700]** **3,900** G
CHLORODIBROMOMETHANE (THM)	124-48-1	80 M	80 M	8,000 M	8,000 M	8,000 M	8,000 M
CHLORODIFLUOROMETHANE	75-45-6	110,000 N	440,000 N	2,900,000 S	2,900,000 S	110,000 N	440,000 N
CHLOROETHANE	75-00-3	**[250]** **21,000** **[G] N**	**[1,200]** **88,000** **[G] N**	**[25,000]** **2,100,000** **[G] N**	**[20,000]** **5,700,000** **[G] S**	**[25,000]** **2,100,000** **[G] N**	**[120,000]** **5,700,000** **[G] S**
CHLOROFORM (THM)	67-66-3	80 M	80 M	8,000 M	8,000 M	800 M	800 M
CHLORONAPHTHALENE, 2-	91-58-7	**[3,300]** **2,800** G	**[9,300]** **7,800** G	12,000 S	12,000 S	**[3,300]** **2,800** G	**[9,300]** **7,800** G
CHLORONITROBENZENE, P-	100-00-5	**[42]** **4.2** **[G] N**	**[120]** **18** **[G] N**	**[4,200]** **420** **[G] N**	**[12,000]** **1,800** **[G] N**	**[42]** **4.2** **[G] N**	**[120]** **18** **[G] N**
CHLOROPHENOL, 2-	95-57-8	40 H	40 H	4,000 H	4,000 H	40 H	40 H
CHLOROPRENE	126-99-8	0.16 N	0.83 N	16 N	83 N	16 N	83 N
CHLOROPROPANE, 2-	75-29-6	210 N	880 N	21,000 N	88,000 N	210 N	880 N

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		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
CHLOROTHALONIL	1897-45-6	[240] 38 G	[600] 160 [S] G	600 S	600 S	[240] 38 G	[600] 160 [S] G
CHLOROTOLUENE, O-	95-49-8	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLOROTOLUENE, P-	106-43-4	100 H	100 H	10,000 H	10,000 H	100 H	100 H
CHLORPYRIFOS	2921-88-2	2 H	2 H	200 H	200 H	2 H	2 H
CHLORSULFURON	64902-72-3	[2,100] 690 G	[5,800] 1,900 G	[190,000] 69,000 [S] G	190,000 [S] G	[2,100] 690 G	[5,800] 1,900 G
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	70 H	70 H	500 S	500 S	500 S	500 S
CHRYSENE	218-01-9	[1.9] 1.8 G	1.9 S	1.9 S	1.9 S	1.9 S	1.9 S
CRESOL(S)	1319-77-3	1,300 N	5,300 N	130,000 N	530,000 N	130,000 N	530,000 N
CRESOL, DINITRO-O-,4,6-	534-52-1	[3.3] 2.8 G	[9.3] 7.8 G	[330] 280 G	[930] 780 G	[3,300] 280 G	[9,300] 780 G
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	[2,100] 1,700 G	[5,800] 4,900 G	[210,000] 170,000 G	[580,000] 490,000 G	[210,000] 170,000 G	[580,000] 490,000 G
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	[2,100] 1,700 G	[5,800] 4,900 G	[210,000] 170,000 G	[580,000] 490,000 G	[2,100,000] 1,700,000 G	2,500,000 S
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	[210] 170 G	[580] 490 G	[21,000] 17,000 G	[58,000] 49,000 G	[210,000] 170,000 G	[580,000] 490,000 G
CRESOL, P-CHLORO-M-	59-50-7	[4,200] 3,500 G	[12,000] 9,700 G	[420,000] 350,000 G	[1,200,000] 970,000 G	[4,200] 3,500 G	[12,000] 9,700 G
CROTONALDEHYDE	4170-30-3	[0.38] 0.34 G	[1.8] 1.4 G	[38] 34 G	[180] 140 G	[38] 34 G	[180] 140 G
CROTONALDEHYDE, TRANS-	123-73-9	[0.38] 0.34 G	[1.8] 1.4 G	[38] 34 G	[180] 140 G	[38] 34 G	[180] 140 G
CUMENE (ISOPROPYL BENZENE)	98-82-8	840 N	3,500 N	50,000 S	50,000 S	50,000 S	50,000 S
CYANAZINE	21725-46-2	1 H	1 H	100 H	100 H	1 H	1 H
CYCLOHEXANE	110-82-7	13,000 N	53,000 N	55,000 S	55,000 S	13,000 N	53,000 N
CYCLOHEXANONE	108-94-1	1,500 N	6,200 N	150,000 N	620,000 N	1,500 N	6,200 N
CYFLUTHRIN	68359-37-5	1 S	1 S	1 S	1 S	1 S	1 S
CYROMAZINE	66215-27-8	[310] 17,000 G	[880] 49,000 G	[31,000] 1,700,000 G	[88,000] 4,900,000 G	[310] 17,000 G	[880] 49,000 G
DDD, 4,4'-	72-54-8	[3] 2.7 G	[14] 11 G	160 S	160 S	160 S	160 S
DDE, 4,4'-	72-55-9	[2.1] 1.9 G	[10] 8 G	40 S	40 S	40 S	40 S
DDT, 4,4'-	50-29-3	[2.1] 1.9 G	5.5 S	5.5 S	5.5 S	5.5 S	5.5 S

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		R	NR	R	NR	R	NR
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	400 M	400 M	40,000 M	40,000 M	200,000 S	200,000 S
DIALLATE	2303-16-4	**[12]** 11 G	**[56]** 45 G	**[1,200]** 1,100 G	**[5,600]** 4,500 G	**[12,000]** 11,000 G	40,000 S
DIAMINOTOLUENE, 2,4-	95-80-7	**[0.18]** 0.16 G	**[0.85]** 0.68 G	**[18]** 16 G	**[85]** 68 G	**[180]** 160 G	**[850]** 680 G
DIAZINON	333-41-5	1 H	1 H	100 H	100 H	1 H	1 H
DIBENZO[A,H]ANTHRACENE	53-70-3	**[0.055]** 0.052 G	0.6 S	0.6 S	0.6 S	0.6 S	0.6 S
DIBENZOFURAN	132-64-9	**[42]** 35 G	**[120]** 97 G	**[4,200]** 3,500 G	4,500 S	**[4,500]** 3,500 **[S]** G	4,500 S
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.2 M	0.2 M	20 M	20 M	20 M	20 M
DIBROMOBENZENE, 1,4-	106-37-6	**[420]** 350 G	**[1,200]** 970 G	20,000 S	20,000 S	**[420]** 350 G	**[1,200]** 970 G
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.05 M	0.05 M	5 M	5 M	5 M	5 M
DIBROMOMETHANE	74-95-3	8.4 N	35 N	840 N	3,500 N	840 N	3,500 N
DIBUTYL PHTHALATE, N-	84-74-2	**[4,200]** 3,500 G	**[12,000]** 9,700 G	**[400,000]** 350,000 **[S]** G	400,000 S	400,000 S	400,000 S
DICAMBA	1918-00-9	4,000 H	4,000 H	400,000 H	400,000 H	4,000 H	4,000 H
DICHLOROACETIC ACID (HAA)	7**[6]**9-43-6	60 M	60 M	6,000 M	6,000 M	60 M	60 M
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.012 N	0.06 N	1.2 N	6 N	0.012 N	0.06 N
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.012 N	0.06 N	1.2 N	6 N	0.012 N	0.06 N
DICHLOROBENZENE, 1,2-	95-50-1	600 M	600 M	60,000 M	60,000 M	60,000 M	60,000 M
DICHLOROBENZENE, 1,3-	541-73-1	600 H	600 H	60,000 H	60,000 H	60,000 H	60,000 H
DICHLOROBENZENE, P-	106-46-7	75 M	75 M	7,500 M	7,500 M	7,500 M	7,500 M
DICHLOROBENZIDINE, 3,3'-	91-94-1	**[1.6]** 1.4 G	**[7.6]** 6 G	**[160]** 140 G	**[760]** 600 G	**[1,600]** 1,400 G	3,100 S
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,000 H	1,000 H	100,000 H	100,000 H	100,000 H	100,000 H
DICHLOROETHANE, 1,1-	75-34-3	31 N	160 N	3,100 N	16,000 N	310 N	1,600 N
DICHLOROETHANE, 1,2-	107-06-2	5 M	5 M	500 M	500 M	50 M	50 M
DICHLOROETHYLENE, 1,1-	75-35-4	7 M	7 M	700 M	700 M	70 M	70 M
DICHLOROETHYLENE, CIS-1,2-	156-59-2	70 M	70 M	7,000 M	7,000 M	700 M	700 M
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	100 M	100 M	10,000 M	10,000 M	1,000 M	1,000 M
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	5 M	5 M	500 M	500 M	500 M	500 M

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		R	NR	R	NR	R	NR
DICHLOROPHENOL, 2,4-	120-83-2	20 H	20 H	2,000 H	2,000 H	20,000 H	20,000 H
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	70 M	70 M	7,000 M	7,000 M	70,000 M	70,000 M
DICHLOROPROPANE, 1,2-	78-87-5	5 M	5 M	500 M	500 M	50 M	50 M
DICHLOROPROPENE, 1,3-	542-75-6	**[7.3] 6.5** G	**[34] 27** G	**[730] 650** G	**[3,400] 2,700** G	**[730] 650** G	**[3,400] 2,700** G
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	200 M	200 M	20,000 M	20,000 M	20,000 M	20,000 M
DICHLORVOS	62-73-7	**[2.5] 2.2** G	**[12] 9.4** G	**[250] 220** G	**[1,200] 940** G	**[2.5] 2.2** G	**[12] 9.4** G
DICYCLOPENTADIENE	77-73-6	0.63 N	2.6 N	63 N	260 N	0.63 N	2.6 N
DIELDRIN	60-57-1	**[0.046] 0.041** G	**[0.21] 0.17** G	**[4.6] 4.1** G	**[21] 17** G	**[46] 41** G	170 S
DIETHYL PHTHALATE	84-66-2	**[33,000] 28,000** G	**[93,000] 78,000** G	1,100,000 S	1,100,000 S	1,100,000 S	1,100,000 S
DIFLUBENZURON	35367-38-5	200 S	200 S	200 S	200 S	200 S	200 S
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	600 H	600 H	60,000 H	60,000 H	600 H	600 H
DIMETHOATE	60-51-5	**[8.3] 76** G	**[23] 210** G	**[830] 7,600** G	**[2,300] 21,000** G	**[8,300] 76,000** G	**[23,000] 210,000** G
DIMETHOXYBENZIDINE, 3,3-	119-90-4	**[0.46] 0.41** G	**[2] 1.7** G	**[46] 41** G	**[210] 170** G	**[460] 410** G	**[2,100] 1,700** G
DIMETHRIN	70-38-2	36 S	36 S	36 S	36 S	36 S	36 S
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	**[0.16] 0.14** G	**[0.74] 0.59** G	**[16] 14** G	**[74] 59** G	**[160] 140** G	**[740] 590** G
DIMETHYLANILINE, N,N-	121-69-7	**[83] 24** G	**[230] 100** G	**[8,300] 2,400** G	**[23,000] 10,000** G	**[8,300] 2,400** G	**[23,000] 10,000** G
DIMETHYLBENZIDINE, 3,3-	119-93-7	**[0.066] 0.059** G	**[0.31] 0.25** G	**[6.6] 5.9** G	**[31] 25** G	**[66] 59** G	**[310] 250** G
DIMETHYL METHYLPHOSPHONATE	756-79-6	100 H	100 H	10,000 H	10,000 H	100 H	100 H
DIMETHYLPHENOL, 2,4-	105-67-9	**[830] 690** G	**[2,300] 1,900** G	**[83,000] 69,000** G	**[230,000] 190,000** G	**[830,000] 690,000** G	**[2,300,000] 1,900,000** G
DINITROBENZENE, 1,3-	99-65-0	1 H	1 H	100 H	100 H	1,000 H	1,000 H
DINITROPHENOL, 2,4-	51-28-5	**[83] 69** G	**[230] 190** G	**[8,300] 6,900** G	**[23,000] 19,000** G	**[83,000] 69,000** G	**[230,000] 190,000** G
DINITROTOLUENE, 2,4-	121-14-2	**[2.4] 2.1** G	**[11] 8.8** G	**[240] 210** G	**[1,100] 880** G	**[2,400] 2,100** G	**[11,000] 8,800** G

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		R	NR	R	NR	R	NR
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	**[0.49] 0.43** G	**[2] 1.8** G	**[49] 43** G	**[230] 180** G	**[490] 430** G	**[2,300] 1,800** G
DINOSEB	88-85-7	7 M	7 M	700 M	700 M	7,000 M	7,000 M
DIOXANE, 1,4-	123-91-1	**[6.4] 6.5 [N] G**	**[32] 27 [N] G**	**[640] 650 [N] G**	**[3,200] 2,700 [N] G**	**[64] 65 [N] G**	**[320] 270 [N] G**
DIPHENAMID	957-51-7	200 H	200 H	20,000 H	20,000 H	200 H	200 H
DIPHENYLAMINE	122-39-4	**[1,000] 3,500** G	**[2,900] 9,700** G	**[100,000] 300,000 [G] S**	**[290,000] 300,000 [G] S**	300,000 S	300,000 S
DIPHENYLHYDRAZINE, 1,2-	122-66-7	**[0.91] 0.22 [G] N**	**[4.3] 1.1 [G] N**	**[91] 22 [G] N**	**[250] 110 [S] N**	**[250] 22 [S] N**	**[250] 110 [S] N**
DIQUAT	85-00-7	20 M	20 M	2,000 M	2,000 M	20 M	20 M
DISULFOTON	298-04-4	0.7 H	0.7 H	70 H	70 H	700 H	700 H
DITHIANE, 1,4-	505-29-3	80 H	80 H	8,000 H	8,000 H	80 H	80 H
DIURON	330-54-1	**[83] 69** G	**[230] 190** G	**[8,300] 6,900** G	**[23,000] 19,000** G	**[83] 69** G	**[230] 190** G
ENDOSULFAN	115-29-7	**[250] 210** G	480 S	480 S	480 S	480 S	480 S
ENDOSULFAN I (APLHA)	959-98-8	**[250] 210** G	500 S	500 S	500 S	**[250] 210** G	500 S
ENDOSULFAN II (BETA)	33213-65-9	**[250] 210** G	450 S	450 S	450 S	**[250] 210** G	450 S
ENDOSULFAN SULFATE	1031-07-8	120 S	120 S	120 S	120 S	120 S	120 S
ENDOTHALL	145-73-3	100 M	100 M	10,000 M	10,000 M	100 M	100 M
ENDRIN	72-20-8	2 M	2 M	200 M	200 M	2 M	2 M
EPICHLOROHYDRIN	106-89-8	2.1 N	8.8 N	210 N	880 N	210 N	880 N
ETHEPHON	16672-87-0	**[210] 170** G	**[580] 490** G	**[21,000] 17,000** G	**[58,000] 49,000** G	**[210] 170** G	**[580] 490** G
ETHION	563-12-2	**[21] 17** G	**[58] 49** G	850 S	850 S	**[21] 17** G	**[58] 49** G
ETHOXYETHANOL, 2- (EGEE)	110-80-5	420 N	1,800 N	42,000 N	180,000 N	42,000 N	180,000 N
ETHYL ACETATE	141-78-6	150 **[G] N**	620 **[G] N**	**[150,000] 15,000 [G] N**	62,000 **[G] N**	**[150,000] 15,000 [G] N**	62,000 **[G] N**

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Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ETHYL ACRYLATE	140-88-5	[15] 14 G	[70] 57 [N] G	[1,500] 1,400 G	[7,000] 5,700 [N] G	[1,500] 1,400 G	[7,000] 5,700 [N] G
ETHYL BENZENE	100-41-4	700 M	700 M	70,000 M	70,000 M	70,000 M	70,000 M
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	[1,000] 1,700 G	[2,900] 4,900 G	[100,000] 170,000 G	[290,000] 370,000 [G] S	[1,000] 1,700 G	[2,900] 4,900 G
ETHYL ETHER	60-29-7	[8,300] 6,900 G	[23,000] 19,000 G	[830,000] 690,000 G	[2,300,000] 1,900,000 G	[8,300] 6,900 G	[23,000] 19,000 G
ETHYL METHACRYLATE	97-63-2	630 N	2,600 N	63,000 N	260,000 N	630 N	2,600 N
ETHYLENE CHLORHYDRIN	107-07-3	[830] 690 G	[2,300] 1,900 G	[83,000] 69,000 G	[230,000] 190,000 G	[830] 690 G	[2,300] 1,900 G
ETHYLENE GLYCOL	107-21-1	14,000 H	14,000 H	1,400,000 H	1,400,000 H	1,400,000 H	1,400,000 H
ETHYLENE THIOUREA (ETU)	96-45-7	[3.3] 2.8 G	[9.3] 7.8 G	[330] 280 G	[930] 780 G	[3,300] 2,800 G	[9,300] 7,800 G
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	[0.42] 0.35 G	[1] 0.97 G	[42] 35 G	[120] 97 G	[0.42] 0.35 G	[1.2] 0.97 G
FENAMIPHOS	22224-92-6	0.7 H	0.7 H	70 H	70 H	0.7 H	0.7 H
FENVALERATE (PYDRIN)	51630-58-1	85 S	85 S	85 S	85 S	85 S	85 S
FLUOMETURON	2164-17-2	90 H	90 H	9,000 H	9,000 H	90 H	90 H
FLUORANTHENE	206-44-0	260 S	260 S	260 S	260 S	260 S	260 S
FLUORENE	86-73-7	[1,700] 1,400 G	1,900 S	1,900 S	1,900 S	1,900 S	1,900 S
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	2,000 H	2,000 H	200,000 H	200,000 H	200,000 H	200,000 H
FONOFOS	944-22-9	10 H	10 H	1,000 H	1,000 H	10 H	10 H
FORMALDEHYDE	50-00-0	1,000 H	1,000 H	100,000 H	100,000 H	100,000 H	100,000 H
FORMIC ACID	64-18-6	0.63 N	2.6 N	63 N	260 N	6.3 N	26 N
FOSETYL-AL	39148-24-8	[130,000] 87,000 G	[350,000] 240,000 G	[13,000,000] 8,700,000 G	[35,000,000] 24,000,000 G	[130,000] 87,000 G	[350,000] 240,000 G
FURAN	110-00-9	[42] 35 G	[120] 97 G	[4,200] 3,500 G	[12,000] 9,700 G	[4,200] 3,500 G	[12,000] 9,700 G

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
FURFURAL	98-01-1	**[110] 19 [N] G**	**[350] 78 G**	**[11,000] 1,900 [N] G**	**[35,000] 7,800 G**	**[110] 19 [N] G**	**[350] 78 G**
GLYPHOSATE	1071-83-6	700 M	700 M	70,000 M	70,000 M	700 M	700 M
HEPTACHLOR	76-44-8	0.4 M	0.4 M	40 M	40 M	180 S	180 S
HEPTACHLOR EPOXIDE	1024-57-3	0.2 M	0.2 M	20 M	20 M	200 M	200 M
HEXACHLOROBENZENE	118-74-1	1 M	1 M	6 S	6 S	6 S	6 S
HEXACHLOROBUTADIENE	87-68-3	**[9.4] 8.4 G**	**[44] 35 G**	**[940] 840 G**	2,900 S	2,900 S	2,900 S
HEXACHLOROCYCLOPENTADIENE	77-47-4	50 M	50 M	1,800 S	1,800 S	1,800 S	1,800 S
HEXACHLOROETHANE	67-72-1	1 H	1 H	100 H	100 H	100 H	100 H
HEXANE	110-54-3	1,500 N	**[6,200] 5,800 [N] G**	9,500 S	9,500 S	1,500 N	**[6,200] 5,800 [N] G**
HEXAZINONE	51235-04-2	400 H	400 H	40,000 H	40,000 H	400 H	400 H
HEXYTHIAZOX (SAVEY)	78587-05-0	500 S	500 S	500 S	500 S	500 S	500 S
HMX	2691-41-0	400 H	400 H	5,000 S	5,000 S	400 H	400 H
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.01 N	0.051 N	1 N	5.1 N	0.1 N	0.51 N
HYDROQUINONE	123-31-9	**[12] 11 G**	**[57] 45 G**	**[1,200] 1,100 G**	**[5,700] 4,500 G**	**[12,000] 11,000 G**	**[57,000] 45,000 G**
INDENO[1,2,3-CD]PYRENE	193-39-5	**[0.19] 0.18 G**	**[2.8] 2.3 G**	**[19] 18 G**	62 S	62 S	62 S
IPRODIONE	36734-19-7	**[1,700] 15 G**	**[4,700] 62 G**	**[13,000] 1,500 [S] G**	**[13,000] 6,200 [S] G**	**[1,700] 15 G**	**[4,700] 62 G**
ISOBUTYL ALCOHOL	78-83-1	**[13,000] 10,000 G**	**[35,000] 29,000 G**	**[1,300,000] 1,000,000 G**	**[3,500,000] 2,900,000 G**	**[1,300,000] 1,000,000 G**	**[3,500,000] 2,900,000 G**
ISOPHORONE	78-59-1	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	700 H	700 H	70,000 H	70,000 H	700 H	700 H
KEPONE	143-50-0	**[0.073] 0.065 G**	**[0.34] 0.27 G**	**[7.3] 6.5 G**	**[34] 27 G**	**[73] 65 G**	**[340] 270 G**
MALATHION	121-75-5	500 H	500 H	50,000 H	50,000 H	140,000 S	140,000 S
MALEIC HYDRAZIDE	123-33-1	4,000 H	4,000 H	400,000 H	400,000 H	4,000 H	4,000 H
MANEB	12427-38-2	**[210] 11 G**	**[580] 45 G**	**[21,000] 1,100 G**	**[23,000] 4,500 [S] G**	**[210] 11 G**	**[580] 45 G**

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
MERPHOS OXIDE	78-48-8	[1.3] 35 G	[3.5] 97 G	[130] 2,300 [G] S	[350] 2,300 [G] S	[1.3] 35 G	[3.5] 97 G
METHACRYLONITRILE	126-98-7	[4.2] 3.5 G	[12] 9.7 G	[420] 350 G	[1,200] 970 G	[4.2] 3.5 G	[12] 9.7 G
METHAMIDOPHOS	10265-92-6	[2.1] 1.7 G	[5.8] 4.9 G	[210] 170 G	[580] 490 G	[2.1] 1.7 G	[5.8] 4.9 G
METHANOL	67-56-1	[8,400] 42,000 N	[35,000] 180,000 N	[840,000] 4,200,000 N	[3,500,000] 18,000,000 N	[840,000] 4,200,000 N	[3,500,000] 18,000,000 N
METHOMYL	16752-77-5	200 H	200 H	20,000 H	20,000 H	200 H	200 H
METHOXYCHLOR	72-43-5	40 M	40 M	45 S	45 S	45 S	45 S
METHOXYETHANOL, 2-	109-86-4	42 N	180 N	4,200 N	18,000 N	[42] 420 N	[180] 1,800 N
METHYL ACETATE	79-20-9	[42,000] 35,000 G	[120,000] 97,000 G	[4,200,000] 3,500,000 G	[12,000,000] 9,700,000 G	[42,000] 35,000 G	[120,000] 97,000 G
METHYL ACRYLATE	96-33-3	42 N	180 N	4,200 N	18,000 N	4,200 N	18,000 N
METHYL CHLORIDE	74-87-3	30 H	30 H	3,000 H	3,000 H	3,000 H	3,000 H
METHYL ETHYL KETONE	78-93-3	4,000 H	4,000 H	400,000 H	400,000 H	400,000 H	400,000 H
METHYL HYDRAZINE	60-34-4	0.042 N	0.18 N	4.2 N	18 N	0.42 N	1.8 N
METHYL ISOBUTYL KETONE	108-10-1	[3,300] 2,800 G	[9,300] 7,800 G	[330,000] 280,000 G	[930,000] 780,000 G	[330,000] 280,000 G	[930,000] 780,000 G
METHYL ISOCYANATE	624-83-9	2.1 N	8.8 N	210 N	880 N	2.1 N	8.8 N
METHYL N-BUTYL KETONE	591-78-6	63 N	260 N	6,300 N	26,000 N	63 N	260 N
METHYL METHACRYLATE	80-62-6	1,500 N	6,200 N	150,000 N	620,000 N	150,000 N	620,000 N
METHYL METHANESULFONATE	66-27-3	[7.4] 6.6 G	[34] 27 G	[740] 660 G	[3,400] 2,700 G	[7.4] 6.6 G	[34] 27 G
METHYL PARATHION	298-00-0	1 H	1 H	100 H	100 H	1,000 H	1,000 H
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	84 N	350 N	8,400 N	35,000 N	84 N	350 N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	20	20	2,000	2,000	200	200
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	30 H	30 H	3,000 H	3,000 H	30,000 H	30,000 H
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[2.3] 2.1 G	[34] 27 G	[230] 210 G	[3,400] 2,700 G	[2.3] 2.1 G	[34] 27 G

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		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
METHYLNAPHTHALENE, 2-	91-57-6	[170] 6.3 [G] N	[470] 26 [G] N	[17,000] 630 [G] N	[25,000] 2,600 [S] N	[170] 6.3 [G] N	[470] 26 [G] N
METHYLSTYRENE, ALPHA	98-83-9	[2,900] 2,400 G	[8,200] 6,800 G	[290,000] 240,000 G	560,000 S	[2,900] 2,400 G	[8,200] 6,800 G
METOLACHLOR	51218-45-2	700 H	700 H	70,000 H	70,000 H	700 H	700 H
METRIBUZIN	21087-64-9	70 H	70 H	7,000 H	7,000 H	70 H	70 H
MEVINPHOS	**7786-34-7**	**0.87 G**	**2.4 G**	**87 G**	**240 G**	**0.87 G**	**2.4 G**
MONOCHLOROACETIC ACID (HAA)	79-11-8	60 H	60 H	6,000 H	6,000 H	60 H	60 H
NAPHTHALENE	91-20-3	100 H	100 H	10,000 H	10,000 H	[30,000] 10,000 [S] H	[30,000] 10,000 [S] H
NAPHTHYLAMINE, 1-	134-32-7	[0.41] 0.36 G	[1.9] 1.5 G	[41] 36 G	[190] 150 G	[410] 36 G	[1,900] 150 G
NAPHTHYLAMINE, 2-	91-59-8	[0.41] 0.36 G	[1.9] 1.5 G	[41] 36 G	[190] 150 G	[410] 360 G	[1,900] 1,500 G
NAPROPAMIDE	15299-99-7	4,200 G	12,000 G	70,000 S	70,000 S	4,200 G	12,000 G
NITROANILINE, O-	88-74-4	[420] 0.11 [G] N	[1,200] 0.44 [G] N	[42,000] 11 [G] N	[120,000] 44 [G] N	[420] 0.11 [G] N	[1,200] 0.44 [G] N
NITROANILINE, P-	100-01-6	[37] 33 G	[170] 140 G	[3,700] 3,300 G	[17,000] 14,000 G	[37] 33 G	[170] 140 G
NITROBENZENE	98-95-3	[83] 1.2 [G] N	[230] 6.3 [G] N	[8,300] 120 [G] N	[23,000] 630 [G] N	[83,000] 120 [G] N	[230,000] 630 [G] N
NITROGUANIDINE	556-88-7	700 H	700 H	70,000 H	70,000 H	700 H	700 H
NITROPHENOL, 2-	88-75-5	[330] 280 G	[930] 780 G	[33,000] 28,000 G	[93,000] 78,000 G	[330,000] 28,000 G	[930,000] 78,000 G
NITROPHENOL, 4-	100-02-7	60 H	60 H	6,000 H	6,000 H	[60,000] 6,000 H	[60,000] 6,000 H
NITROPROPANE, 2-	79-46-9	0.018 N	0.093 N	1.8 N	9.3 N	0.18 N	0.93 N
NITROSODIETHYLAMINE, N-	55-18-5	0.00045 N	0.0058 N	0.045 N	0.58 N	0.0045 N	0.058 N
NITROSODIMETHYLAMINE, N-	62-75-9	0.0014 N	0.018 N	0.14 N	1.8 N	0.014 N	0.18 N

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		R	NR	R	NR	R	NR
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	**[0.14] 0.031** [G] N	**[0.63] 0.16** [G] N	**[14] 3.1** [G] N	**[63] 16** [G] N	**[140] 3.1** [G] N	**[630] 16** [G] N
NITROSODI-N-PROPYLAMINE, N-	621-64-7	**[0.1] 0.025** [G] N	**[0.49] 0.13** [G] N	**[10] 2.5** [G] N	**[49] 13** [G] N	**[100] 0.25** [G] N	**[490] 1.3** [G] N
NITROSODIPHENYLAMINE, N-	86-30-6	**[150] 19** [G] N	**[690] 96** [G] N	**[15,000] 1,900** [G] N	**[35,000] 9,600** [S] N	**[35,000] 1,900** [S] N	**[35,000] 9,600** [S] N
NITROSO-N-ETHYLUREA, N-	759-73-9	**[0.0084] 0.0079** G	**[0.13] 0.1** G	**[0.84] 0.79** G	**[13] 10** G	**[8.4] 7.9** G	**[130] 100** G
OCTYL PHTHALATE, DI-N-	117-84-0	**[420] 350** G	**[1,200] 970** G	3,000 S	3,000 S	3,000 S	3,000 S
OXAMYL (VYDATE)	23135-22-0	200 M	200 M	20,000 M	20,000 M	200 M	200 M
PARAQUAT	1910-42-5	30 H	30 H	3,000 H	3,000 H	30 H	30 H
PARATHION	56-38-2	**[250] 1** G	**[700] 2.9** G	**[20,000] 100** [S] G	**[20,000] 290** [S] G	**[250] 1** G	**[700] 2.9** G
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	**1336-36-3**	**0.5 M**	**0.5 M**	**50 M**	**50 M**	**0.5 M**	**0.5 M**
PCB-1016 (AROCLOR)	12674-11-2	**[0.37] 2.4** G	**[1.7] 6.8** G	**[37] 240** G	**[170] 250** [G] S	**[0.37] 2.4** G	**[1.7] 6.8** G
PCB-1221 (AROCLOR)	11104-28-2	**[0.37] 0.33 G**	**[1.7] 1.4** G	**[37] 33** G	**[170] 140** G	**[0.37] 0.33** G	**[1.7] 1.4** G
PCB-1232 (AROCLOR)	11141-16-5	**[0.37] 0.33 G**	**[1.7] 1.4** G	**[37] 33** G	**[170] 140** G	**[0.37] 0.33** G	**[1.7] 1.4** G
PCB-1242 (AROCLOR)	53469-21-9	**[0.37] 0.33** G	**[1.7] 1.4** G	**[37] 33** G	100 S	**[0.37] 0.33** G	**[1.7] 1.4** G
PCB-1248 (AROCLOR)	12672-29-6	**[0.37] 0.33** G	**[1.7] 1.4** G	**[37] 33** G	54 S	**[0.37] 0.33** G	**[1.7] 1.4** G
PCB-1254 (AROCLOR)	11097-69-1	**[0.37] 0.69** G	**[1.7] 1.9** G	**[37] 57** [G] S	57 S	**[0.37] 0.69** G	**[1.7] 1.9** G
PCB-1260 (AROCLOR)	11096-82-5	**[0.37] 0.33** G	**[1.7] 1.4** G	**[37] 33** G	80 S	**[0.37] 0.33** G	**[1.7] 1.4** G
PEBULATE	1114-71-2	**[2,100] 1,700** G	**[5,800] 4,900** G	92,000 S	92,000 S	**[2,100] 1,700** G	**[5,800] 4,900** G
PENTACHLOROBENZENE	608-93-5	**[33] 28** G	**[93] 78** G	740 S	740 S	740 S	740 S

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		R	NR	R	NR	R	NR
PENTACHLOROETHANE	76-01-7	[8.1] 7.2 G	[38] 30 G	[810] 720 G	[3,800] 3,000 G	[8.1] 7.2 G	[38] 30 G
PENTACHLORONITROBENZENE	82-68-8	[2.8] 2.5 G	[13] 10 G	[280] 250 G	440 S	440 S	440 S
PENTACHLOROPHENOL	87-86-5	1 M	1 M	100 M	100 M	1,000 M	1,000 M
PERFLUOROBUTANE SULFONATE (PFBS)	**375-73-5**	**690 G**	**1,900 G**	**69,000 G**	**190,000 G**	**690 G**	**1,900 G**
PERFLUOROOCTANE SULFONATE (PFOS)	**1763-23-1**	**0.07 H**	**0.07 H**	**7 H**	**7 H**	**0.07 H**	**0.07 H**
PERFLUOROOCTANOIC ACID (PFOA)	**335-67-1**	**0.07 H**	**0.07 H**	**7 H**	**7 H**	**0.07 H**	**0.07 H**
PHENACETIN	62-44-2	[330] 300 G	[1,500] 1,200 G	[33,000] 30,000 G	[150,000] 120,000 G	[330,000] 300,000 G	760,000 S
PHENANTHRENE	85-01-8	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S	1,100 S
PHENOL	108-95-2	2,000 H	2,000 H	200,000 H	200,000 H	200,000 H	200,000 H
PHENYL MERCAPTAN	108-98-5	[42] 35 G	[120] 97 G	[4,200] 3,500 G	[12,000] 9,700 G	[42] 35 G	[120] 97 G
PHENYLENEDIAMINE, M-	108-45-2	[250] 210 G	[700] 580 G	[25,000] 21,000 G	[70,000] 58,000 G	[250,000] 210,000 G	[700,000] 580,000 G
PHENYLPHENOL, 2-	90-43-7	[380] 340 G	[1,800] 1,400 G	[38,000] 34,000 G	[180,000] 140,000 G	[380,000] 340,000 G	700,000 S
PHORATE	298-02-2	[8.3] 6.9 G	[23] 19 G	[830] 690 G	[2,300] 1,900 G	[8.3] 6.9 G	[23] 19 G
PHTHALIC ANHYDRIDE	85-44-9	[83,000] 42 [G] [N]	[230,000] 180 [G] [N]	[6,200,000] 4,200 [S] [N]	[6,200,000] 18,000 [S] [N]	[6,200,000] 4,200 [S] [N]	[6,200,000] 18,000 [S] [N]
PICLORAM	1918-02-1	500 M	500 M	50,000 M	50,000 M	500 M	500 M
[POLYCHLORINATED BIPHENYLS (PCBS)]	**[1336-36-3]**	**[0.5] [M]**	**[0.5] [M]**	**[50] [M]**	**[50] [M]**	**[0.5] [M]**	**[0.5] [M]**
PROMETON	1610-18-0	400 H	400 H	40,000 H	40,000 H	400 H	400 H
PRONAMIDE	23950-58-5	[3,100] 2,600 G	[8,800] 7,300 G	15,000 S	15,000 S	[3,100] 2,600 G	[8,800] 7,300 G
PROPACHLOR	**1918-16-7**	**0.1 H**	**0.1 H**	**10 H**	**10 H**	**10 H**	**10 H**
PROPANIL	709-98-8	[210] 170 G	[580] 490 G	[21,000] 17,000 G	[58,000] 49,000 G	[210] 170 G	[580] 490 G
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	420 N	1,800 N	42,000 N	180,000 N	420 N	1,800 N
PROPAZINE	139-40-2	10 H	10 H	1,000 H	1,000 H	10 H	10 H
PROPHAM	122-42-9	100 H	100 H	10,000 H	10,000 H	100 H	100 H

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NR = Non-Residential G = Ingestion
THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.
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Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
PROPYLBENZENE, N-	103-65-1	2,100 N	8,800 N	52,000 S	52,000 S	2,100 N	8,800 N
PROPYLENE OXIDE	75-56-9	[3] 2.7 G	[14] 11 G	[300] 270 G	[1,400] 1,100 G	[3] 2.7 G	[14] 11 G
PYRENE	129-00-0	130 S	130 S	130 S	130 S	130 S	130 S
PYRETHRUM	**8003-34-7**	**350 S**	**350 S**	**350 S**	**350 S**	**350 S**	**350 S**
PYRIDINE	110-86-1	[42] 35 G	[120] 97 G	[4,200] 3,500 G	[12,000] 9,700 G	[420] 350 G	[1,200] 970 G
QUINOLINE	91-22-5	[0.24] 0.22 G	[1.1] 0.91 G	[24] 22 G	[110] 91 G	[240] 220 G	[1,100] 910 G
QUIZALOFOP (ASSURE)	76578-14-8	300 S	300 S	300 S	300 S	300 S	300 S
RDX	121-82-4	2 H	2 H	200 H	200 H	2 H	2 H
RESORCINOL	108-46-3	[83,000] 69,000 G	[230,000] 190,000 G	[8,300,000] 6,900,000 G	[23,000,000] 19,000,000 G	[83,000] 69,000 G	[230,000] 190,000 G
RONNEL	299-84-3	[2,100] 1,700 G	[5,800] 4,900 G	40,000 S	40,000 S	[2,100] 1,700 G	[5,800] 4,900 G
SIMAZINE	122-34-9	4 M	4 M	400 M	400 M	4 M	4 M
STRYCHNINE	57-24-9	[13] 10 G	[35] 29 G	[1,300] 1,000 G	[3,500] 2,900 G	[13,000] 10,000 G	[35,000] 29,000 G
STYRENE	100-42-5	100 M	100 M	10,000 M	10,000 M	10,000 M	10,000 M
TEBUTHIURON	34014-18-1	500 H	500 H	50,000 H	50,000 H	500 H	500 H
TERBACIL	5902-51-2	90 H	90 H	9,000 H	9,000 H	90 H	90 H
TERBUFOS	13071-79-9	0.4 H	0.4 H	40 H	40 H	0.4 H	0.4 H
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	[13] 10 G	[35] 29 G	580 S	580 S	580 S	580 S
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00003 M	0.00003 M	0.003 M	0.003 M	0.019 S	0.019 S
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	70 H	70 H	7,000 H	7,000 H	7,000 H	7,000 H
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.84 N	4.3 N	84 N	430 N	84 N	430 N
TETRACHLOROETHYLENE (PCE)	127-18-4	5 M	5 M	500 M	500 M	50 M	50 M
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	[1,300] 1,000 G	[3,500] 2,900 G	[130,000] 100,000 G	180,000 S	180,000 S	180,000 S
TETRAETHYL LEAD	78-00-2	[0.0042] 0.0035 G	[0.012] 0.0097 G	[0.42] 0.35 G	[1] 0.97 G	[4.2] 3.5 G	[12] 9.7 G
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	[21] 17 G	[58] 49 G	[2,100] 1,700 G	[5,800] 4,900 G	[21] 17 G	[58] 49 G

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Appendix A

Table 1 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
TETRAHYDROFURAN	109-99-9	**[26] 25** N	130 N	**[2,600] 2,500** N	13,000 N	**[26] 25** N	130 N
THIOFANOX	39196-18-4	**[13] 10** G	**[35] 29** G	**[1,300] 1,000** G	**[3,500] 2,900** G	**[13] 10** G	**[35] 29** G
THIRAM	137-26-8	**[210] 520** G	**[580] 1,500** G	**[21,000] 30,000 [G] S**	30,000 S	**[210] 520** G	**[580] 1,500** G
TOLUENE	108-88-3	1,000 M	1,000 M	100,000 M	100,000 M	100,000 M	100,000 M
TOLUIDINE, M-	108-44-1	**[46] 41** G	**[210] 170** G	**[4,600] 4,100** G	**[21,000] 17,000** G	**[46] 41** G	**[210] 170** G
TOLUIDINE, O	95-53-4	**[46] 41** G	**[210] 170** G	**[4,600] 4,100** G	**[21,000] 17,000** G	**[46,000] 41,000** G	**[210,000] 170,000** G
TOLUIDINE, P-	106-49-0	**[24] 22** G	**[110] 91** G	**[2,400] 2,200** G	**[11,000] 9,100** G	**[24] 22** G	**[110] 91** G
TOXAPHENE	8001-35-2	3 M	3 M	300 M	300 M	3 M	3 M
TRIALLATE	2303-17-5[	**[540] 0.91** G	**[1,500] 3.8** G	**[4,000] 91 [S] G**	**[4,000] 380 [S] G**	**[540] 0.91** G	**[1,500] 3.8** G
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	80 M	80 M	8,000 M	8,000 M	8,000 M	8,000 M
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	**[63,000] 11,000** N	**[170,000] 44,000 [S] N**	170,000 S	170,000 S	170,000 S	170,000 S
TRICHLOROACETIC ACID (HAA)	76-03-9	60 **[H] M**	60 **[H] M**	6,000 **[H] M**	6,000 **[H] M**	60 **[H] M**	60 **[H] M**
TRICHLOROBENZENE, 1,2,4-	120-82-1	70 M	70 M	7,000 M	7,000 M	**[44,000] 7,000 [S] M**	**[44,000] 7,000 [S] M**
TRICHLOROBENZENE, 1,3,5-	108-70-3	40 H	40 H	4,000 H	4,000 H	40 H	40 H
TRICHLOROETHANE, 1,1,1-	71-55-6	200 M	200 M	20,000 M	20,000 M	2,000 M	2,000 M
TRICHLOROETHANE, 1,1,2-	79-00-5	5 M	5 M	500 M	500 M	50 M	50 M
TRICHLOROETHYLENE (TCE)	79-01-6	5 M	5 M	500 M	500 M	50 M	50 M
TRICHLOROPHENOL, 2,4,5-	95-95-4	**[4,200] 3,500** G	**[12,000] 9,700** G	**[420,000] 350,000** G	**[1,000,000] 970,000 [S] G**	1,000,000 S	1,000,000 S

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Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
TRICHLOROPHENOL, 2,4,6-	88-06-2	[42] 35 G	[120] 97 G	[4,200] 3,500 G	[12,000] 9,700 G	[42,000] 35,000 G	[120,000] 97,000 G
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	70 H	70 H	7,000 H	7,000 H	70,000 H	70,000 H
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)	93-72-1	50 M	50 M	5,000 M	5,000 M	50 M	50 M
TRICHLOROPROPANE, 1,1,2-	598-77-6	[210] 170 G	[580] 490 G	[21,000] 17,000 G	[58,000] 49,000 G	[210] 170 G	[580] 490 G
TRICHLOROPROPANE, 1,2,3-	96-18-4	40 H	40 H	4,000 H	4,000 H	4,000 H	4,000 H
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.63 N	2.6 N	63 N	260 N	0.63 N	2.6 N
TRIETHYLAMINE	121-44-8	15 N	62 N	1,500 N	6,200 N	15 N	62 N
TRIETHYLENE GLYCOL	112-27-6	[83,000] 69,000 G	[230,000] 190,000 G	[8,300,000] 6,900,000 G	[23,000,000] 19,000,000 G	[83,000] 69,000 G	[230,000] 190,000 G
TRIFLURALIN	1582-09-8	10 H	10 H	1,000 H	1,000 H	10 H	10 H
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	[15] 130 N	[62] 530 N	[1,500] 13,000 N	[6,200] 53,000 N	[1,500] 13,000 N	[6,200] 53,000 N
TRIMETHYLBENZENE, 1,3,5-	108-67-8	[420] 130 [G] N	[1,200] 530 [G] N	[42,000] 13,000 [G] N	49,000 S	[420] 130 [G] N	[1,200] 530 [G] N
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	5 H	5 H	500 H	500 H	[5] 500 H	[5] 500 H
TRINITROTOLUENE, 2,4,6-	118-96-7	2 H	2 H	200 H	200 H	2 H	2 H
VINYL ACETATE	108-05-4	420 N	1,800 N	42,000 N	180,000 N	420 N	1,800 N
VINYL BROMIDE (BROMOETHENE)	593-60-2	1.5 N	7.8 N	150 N	780 N	15 N	78 N
VINYL CHLORIDE	75-01-4	2 M	2 M	200 M	200 M	20 M	20 M
WARFARIN	81-81-2	[13] 10 G	[35] 29 G	[1,300] 1,000 G	[3,500] 2,900 G	[13,000] 10,000 G	17,000 S
XYLENES (TOTAL)	1330-20-7	10,000 M	10,000 M	180,000 S	180,000 S	180,000 S	180,000 S
ZINEB	12122-67-7	[2,100] 1,700 G	[5,800] 4,900 G	10,000 S	10,000 S	[2,100] 1,700 G	[5,800] 4,900 G

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Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
ANTIMONY	7440-36-0	6 M	6 M	600 M	600 M	6,000 M	6,000 M
ARSENIC	7440-38-2	10 M	10 M	1,000 M	1,000 M	10,000 M	10,000 M
ASBESTOS (fibers/L)	12001-29-5	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M	7,000,000 M
BARIUM AND COMPOUNDS	7440-39-3	2,000 M	2,000 M	200,000 M	200,000 M	2,000,000 M	2,000,000 M
BERYLLIUM	7440-41-7	4 M	4 M	400 M	400 M	4,000 M	4,000 M
BORON AND COMPOUNDS	7440-42-8	6,000 H	6,000 H	600,000 H	600,000 H	6,000,000 H	6,000,000 H
CADMIUM	7440-43-9	5 M	5 M	500 M	500 M	5,000 M	5,000 M
CHROMIUM (TOTAL)	7440-47-3	100 M	100 M	10,000 M	10,000 M	100,000 M	100,000 M
COBALT	7440-48-4	**[13] 10** G	**[35] 29** G	**[1,300] 1,000** G	**[3,500] 2,900** G	**[13,000] 10,000** G	**[35,000] 29,000** G
COPPER	**7440-50-8**	**1,000 M**	**1,000 M**	**100,000 M**	**100,000 M**	**1,000,000 M**	**1,000,000 M**
CYANIDE, FREE	57-12-5	200 M	200 M	20,000 M	20,000 M	200,000 M	200,000 M
FLUORIDE	16984-48-8	4,000 M	4,000 M	400,000 M	400,000 M	4,000,000 M	4,000,000 M
LEAD	7439-92-1	5 M	5 M	500 M	500 M	5,000 M	5,000 M
LITHIUM	7439-93-2	**[83] 69** G	**[230] 190** G	**[8,300] 6,900** G	**[23,000] 19,000** G	**[83,000] 69,000** G	**[230,000] 190,000** G
MANGANESE	7439-96-5	300 H	300 H	30,000 H	30,000 H	300,000 H	300,000 H
MERCURY	7439-97-6	2 M	2 M	200 M	200 M	2,000 M	2,000 M
MOLYBDENUM	7439-98-7	40 H	40 H	4,000 H	4,000 H	40,000 H	40,000 H
NICKEL	7440-02-0	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
NITRATE NITROGEN	14797-55-8	10,000 M	10,000 M	1,000,000 M	1,000,000 M	10,000,000 M	10,000,000 M
NITRITE NITROGEN	14797-65-0	1,000 M	1,000 M	100,000 M	100,000 M	1,000,000 M	1,000,000 M
PERCHLORATE	7790-98-9	15 H	15 H	1,500 H	1,500 H	15,000 H	15,000 H
SELENIUM	7782-49-2	50 M	50 M	5,000 M	5,000 M	50,000 M	50,000 M
SILVER	7440-22-4	100 H	100 H	10,000 H	10,000 H	100,000 H	100,000 H
STRONTIUM	7440-24-6	4,000 H	4,000 H	400,000 H	400,000 H	4,000,000 H	4,000,000 H
THALLIUM	7440-28-0	2 M	2 M	200 M	200 M	2,000 M	2,000 M
TIN	7440-31-5	**[25,000] 21,000** G	**[70,000] 58,000** G	**[2,500,000] 2,100,000** G	**[7,000,000] 5,800,000** G	**[25,000,000] 21,000,000** G	**[70,000,000] 58,000,000** G

All concentrations in µg/L (except asbestos)
M = Maximum Contaminant Level
H = Lifetime Health Advisory Level
SMCL = Secondary Maximum Contaminant Level
G = Ingestion
N = Inhalation
PA State MCL adopted as MSC for Copper and Lead

R = Residential
NR = Nonresidential

Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

Regulated Substance	CASRN	Used Aquifers				Nonuse Aquifers	
		TDS ≤ 2500 mg/L		TDS > 2500 mg/L			
		R	NR	R	NR	R	NR
VANADIUM	7440-62-2	**[2.9] 2.4** G	**[8.2] 6.8** G	**[290] 240** G	**[820] 680** G	**[2,900] 2,400** G	**[8,200] 6,800** G
ZINC AND COMPOUNDS	7440-66-6	2,000 H	2,000 H	200,000 H	200,000 H	2,000,000 H	2,000,000 H

SECONDARY CONTAMINANTS			
REGULATED SUBSTANCE	**CASRN**	**SMCL**	**UNITS**
ALUMINUM	7429-90-5	200	µg/L
CHLORIDE	7647-14-5	250,000	µg/L
[COPPER]	**[7440-50-8]**	**[1000]**	**[µg/L]**
[FLUORIDE]	**[7681-49-4]**	**[2,000]**	**[µg/L]**
IRON	7439-89-6	300	µg/L
[MANGANESE]	**[7439-96-5]**	**[50]**	**[µg/L]**
SULFATE	7757-82-6	250,000	µg/L

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PA State MCL adopted as MSC for Copper and Lead

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Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Nonresidential Surface Soil 0-2 feet		Nonresidential Subsurface Soil 2-15 feet	
ACENAPHTHENE	83-32-9	13,000	G	190,000	C	190,000	C
ACENAPHTHYLENE	208-96-8	13,000	G	190,000	C	190,000	C
ACEPHATE	30560-19-1	**[880] 260**	G	**[10,000] 3,800**	G	190,000	C
ACETALDEHYDE	75-07-0	170	N	**[720] 710**	N	**[830] 820**	N
ACETONE	67-64-1	10,000	C	10,000	C	10,000	C
ACETONITRILE	75-05-8	1,100	N	**[4,800] 4,700**	N	5,500	N
ACETOPHENONE	98-86-2	10,000	C	10,000	C	10,000	C
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	4.9	G	24	G	190,000	C
ACROLEIN	107-02-8	0.38	N	1.6	N	1.8	N
ACRYLAMIDE	79-06-1	1.7	N	22	N	**[26] 25**	N
ACRYLIC ACID	79-10-7	19	N	79	N	91	N
ACRYLONITRILE	107-13-1	**[6.6] 6.5**	N	33	N	**[38] 37**	N
ALACHLOR	15972-60-8	330	G	1,600	G	190,000	C
ALDICARB	116-06-3	220	G	3,200	G	190,000	C
ALDICARB SULFONE	1646-88-4	220	G	3,200	G	190,000	C
ALDICARB SULFOXIDE	1646-87-3	220	G	3,200	G	190,000	C
ALDRIN	309-00-2	1.1	G	5.4	G	190,000	C
ALLYL ALCOHOL	107-18-6	1.9	N	**[8] 7.9**	N	9.1	N
AMETRYN	834-12-8	2,000	G	29,000	G	190,000	C
AMINOBIPHENYL, 4-	92-67-1	0.89	G	4.3	G	190,000	C
AMITROLE	61-82-5	20	G	97	G	190,000	C
AMMONIA	7664-41-7	**[1,900] 9,600**	N	**[8,000] 10,000**	**[N] C**	**[9,100] 10,000**	**[N] C**
AMMONIUM SULFAMATE	7773-06-0	44,000	G	190,000	C	190,000	C
ANILINE	62-53-3	19	N	79	N	**[91] 90**	N
ANTHRACENE	120-12-7	66,000	G	190,000	C	190,000	C
ATRAZINE	1912-24-9	81	G	400	G	190,000	C
AZINPHOS-METHYL (GUTHION)	86-50-0	**[660] 330**	G	**[9,600] 4,800**	G	190,000	C
BAYGON (PROPOXUR)	114-26-1	880	G	13,000	G	190,000	C
BENOMYL	17804-35-2	**[11,000] 7,800**	G	**[160,000] 38,000**	G	190,000	C
BENTAZON	25057-89-0	6,600	G	96,000	G	190,000	C
BENZENE	71-43-2	57	N	**[290] 280**	N	330	N
BENZIDINE	92-87-5	0.018	G	0.4	G	190,000	C
BENZO[A]ANTHRACENE	56-55-3	**[6] 6.1**	G	130	G	190,000	C
BENZO[A]PYRENE	50-32-8	**[0.58] 4.2**	G	**[12] 91**	G	190,000	C
BENZO[B]FLUORANTHENE	205-99-2	3.5	G	76	G	190,000	C
BENZO[GHI]PERYLENE	191-24-2	13,000	G	190,000	C	190,000	C
BENZO[K]FLUORANTHENE	207-08-9	**[4] 3.5**	G	76	G	190,000	C
BENZOIC ACID	65-85-0	190,000	C	190,000	C	190,000	C
BENZOTRICHLORIDE	98-07-7	1.4	G	7	G	10,000	C
BENZYL ALCOHOL	100-51-6	10,000	C	10,000	C	10,000	C
BENZYL CHLORIDE	100-44-7	9	N	45	N	52	N
BETA PROPIOLACTONE	57-57-8	0.11	N	**[0.56] 0.55**	N	**[0.64] 0.63**	N
BHC, ALPHA	319-84-6	3	G	14	G	190,000	C
BHC, BETA-	319-85-7	10	G	51	G	190,000	C
BHC, GAMMA (LINDANE)	58-89-9	17	G	83	G	190,000	C

All concentrations in mg/kg
G – Ingestion
N- Inhalation
C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Nonresidential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
BIPHENYL, 1,1-	92-52-4	**[2,300] 8.2**	**[G] N**	**[11,000] 34**	**[G] N**	**[190,000] 40**	**[C] N**
BIS(2-CHLOROETHOXY)METHANE	111-91-1	660	G	9,600	G	10,000	C
BIS(2-CHLOROETHYL)ETHER	111-44-4	1.3	N	6.7	N	**[7.7] 7.6**	N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	44	N	220	N	250	N
BIS(CHLOROMETHYL)ETHER	542-88-1	**[0.0072] 0.0071**	N	0.036	N	0.041	N
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	1,300	G	6,500	G	10,000	C
BISPHENOL A	80-05-7	11,000	G	160,000	G	190,000	C
BROMACIL	314-40-9	22,000	G	190,000	C	190,000	C
BROMOBENZENE	**108-86-1**	**1,100**	**N**	**4,700**	**N**	**5,400**	**N**
BROMOCHLOROMETHANE	74-97-5	**[770] 760**	N	3,200	N	3,600	N
BROMODICHLOROMETHANE	75-27-4	12	N	60	N	69	N
BROMOMETHANE	74-83-9	**[96] 95**	N	400	N	460	N
BROMOXYNIL	1689-84-5	**[4,400] 180**	G	**[64,000] 880**	G	190,000	C
BROMOXYNIL OCTANOATE	1689-99-2	**[4,400] 180**	G	**[64,000] 880**	G	190,000	C
BUTADIENE, 1,3-	106-99-0	**[5.5] 15**	**[G] N**	**[27] 74**	**[G] N**	85	N
BUTYL ALCOHOL, N-	71-36-3	10,000	C	10,000	C	10,000	C
BUTYLATE	2008-41-5	10,000	C	10,000	C	10,000	C
BUTYLBENZENE, N-	104-51-8	10,000	C	10,000	C	10,000	C
BUTYLBENZENE, SEC-	135-98-8	10,000	C	10,000	C	10,000	C
BUTYLBENZENE, TERT-	98-06-6	10,000	C	10,000	C	10,000	C
BUTYLBENZYL PHTHALATE	85-68-7	9,800	G	10,000	C	10,000	C
CAPTAN	133-06-2	8,100	G	40,000	G	190,000	C
CARBARYL	63-25-2	22,000	G	190,000	C	190,000	C
CARBAZOLE	86-74-8	930	G	4,600	G	190,000	C
CARBOFURAN	1563-66-2	1,100	G	16,000	G	190,000	C
CARBON DISULFIDE	75-15-0	10,000	C	10,000	C	10,000	C
CARBON TETRACHLORIDE	56-23-5	**[74] 75**	N	370	N	430	N
CARBOXIN	5234-68-4	22,000	G	190,000	C	190,000	C
CHLORAMBEN	133-90-4	3,300	G	48,000	G	190,000	C
CHLORDANE	57-74-9	53	G	260	G	190,000	C
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000	C	10,000	C	10,000	C
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	19	N	80	N	**[91] 92**	N
CHLOROACETALDEHYDE	107-20-0	**[62] 69**	G	**[300] 340**	G	10,000	C
CHLOROACETOPHENONE, 2-	532-27-4	190,000	C	190,000	C	190,000	C
CHLOROANILINE, P-	106-47-8	93	G	460	G	190,000	C
CHLOROBENZENE	108-90-7	**[960] 950**	N	**[4,000] 3,900**	N	**[4,600] 4,500**	N
CHLOROBENZILATE	510-15-6	170	G	830	G	190,000	C
CHLOROBUTANE, 1-	109-69-3	8,800	G	10,000	C	10,000	C
CHLORODIBROMOMETHANE	124-48-1	**[17] 220**	**[N] G**	**[82] 1,100**	**[N] G**	**[95] 10,000**	**[N] C**
CHLORODIFLUOROMETHANE	75-45-6	10,000	C	10,000	C	10,000	C
CHLOROETHANE	75-00-3	**[6,400] 10,000**	**[G] C**	10,000	C	10,000	C
CHLOROFORM	67-66-3	19	N	**[97] 96**	N	110	N
CHLORONAPHTHALENE, 2-	91-58-7	18,000	G	190,000	C	190,000	C

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CHLORONITROBENZENE, P-	100-00-5	**[220] 39**	**[G] N**	**[3,200] 160**	**[G] N**	**[190,000] 180**	**[C] N**
CHLOROPHENOL, 2-	95-57-8	1,100	G	10,000	C	10,000	C
CHLOROPRENE	126-99-8	1.5	N	7.4	N	8.5	N
CHLOROPROPANE, 2-	75-29-6	1,900	N	**[8,000] 7,900**	N	9,100	N
CHLOROTHALONIL	1897-45-6	**[3,300] 1,100**	G	**[29,000] 5,400**	G	190,000	C
CHLOROTOLUENE, O-	95-49-8	4,400	G	10,000	C	10,000	C
CHLOROTOLUENE, P-	106-43-4	4,400	C	10,000	C	10,000	C
CHLORPYRIFOS	2921-88-2	220	G	3,200	G	190,000	C
CHLORSULFURON	64902-72-3	**[11,000] 4,400**	G	**[160,000] 64,000**	G	190,000	C
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	2,200	G	32,000	G	190,000	C
CHRYSENE	218-01-9	35	G	760	G	190,000	C
CRESOL(S)	1319-77-3	10,000	C	10,000	C	10,000	C
CRESOL, 4,6-DINITRO-O-	534-52-1	18	G	260	G	190,000	C
CRESOL, O- (2-METHYLPHENOL)	95-48-7	11,000	G	160,000	G	190,000	C
CRESOL, M- (3-METHYLPHENOL)	108-39-4	10,000	C	10,000	C	10,000	C
CRESOL, P- (4-METHYLPHENOL)	106-44-5	1,100	G	16,000	G	190,000	C
CRESOL, P-CHLORO-M-	59-50-7	22,000	G	190,000	G	190,000	C
CROTONALDEHYDE	4170-30-3	9.8	G	48	G	10,000	C
CROTONALDEHYDE, TRANS-	123-73-9	9.8	G	48	G	10,000	C
CUMENE (ISOPROPYL BENZENE)	98-82-8	**[7,700] 7,600**	N	10,000	C	10,000	C
CYANAZINE	21725-46-2	22	G	110	G	190,000	C
CYCLOHEXANE	110-82-7	10,000	C	10,000	C	10,000	C
CYCLOHEXANONE	108-94-1	10,000	C	10,000	C	10,000	C
CYFLUTHRIN	68359-37-5	5,500	G	80,000	G	190,000	C
CYROMAZINE	66215-27-8	**[1,700] 110,000**	G	**[24,000] 190,000**	**[G] C**	190,000	C
DDD, 4,4'-	72-54-8	78	G	380	G	190,000	C
DDE, 4,4'-	72-55-9	55	G	270	G	190,000	C
DDT, 4,4'-	50-29-3	55	G	270	G	190,000	C
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10,000	C	10,000	C	10,000	C
DIALLATE	2303-16-4	300	G	1,500	G	10,000	C
DIAMINOTOLUENE, 2,4-	95-80-7	4.7	G	23	G	190,000	C
DIAZINON	333-41-5	150	G	2,200	G	10,000	C
DIBENZO[A,H]ANTHRACENE	53-70-3	1	G	22	G	190,000	C
DIBENZOFURAN	132-64-9	220	G	3,200	G	190,000	C
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.029	N	0.37	N	**[0.43] 0.42**	N
DIBROMOBENZENE, 1,4-	106-37-6	2,200	G	32,000	G	190,000	C
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.74	N	3.7	N	**[4.3] 4.2**	N
DIBROMOMETHANE	74-95-3	**[77] 76**	N	**[320] 310**	N	**[370] 360**	N
DIBUTYL PHTHALATE, N-	84-74-2	10,000	C	10,000	C	10,000	C
DICAMBA	1918-00-9	6,600	G	96,000	G	190,000	C
DICHLOROACETIC ACID	76-43-6	370	G	1,800	G	10,000	C
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.11	N	**[0.53] 0.52**	N	**[0.61] 0.6**	N
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	**[0.1] 0.11**	N	0.52	N	0.6	N
DICHLOROBENZENE, 1,2-	95-50-1	3,800	N	10,000	C	10,000	C

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DICHLOROBENZENE, 1,3-	541-73-1	10,000	C	10,000	C	10,000	C
DICHLOROBENZENE, P-	106-46-7	40	N	200	N	230	N
DICHLOROBENZIDINE, 3,3'-	91-94-1	41	G	200	G	190,000	C
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	1,900	N	8,000	N	9,100	N
DICHLOROETHANE, 1,1-	75-34-3	280	N	1,400	N	1,600	N
DICHLOROETHANE, 1,2-	107-06-2	17	N	**[86] 85**	N	98	N
DICHLOROETHYLENE, 1,1-	75-35-4	3,800	N	10,000	C	10,000	C
DICHLOROETHYLENE, CIS-1,2-	156-59-2	440	G	6,400	G	10,000	C
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	**[1,100] 4,400**	**[N] G**	**[4,800] 10,000**	**[N] C**	**[5,500] 10,000**	**[N] C**
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	1,300	G	10,000	C	10,000	C
DICHLOROPHENOL, 2,4-	120-83-2	660	G	9,600	G	190,000	C
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	2,200	G	32,000	G	190,000	C
DICHLOROPROPANE, 1,2-	78-87-5	**[45] 0.12**	N	**[220] 0.6**	N	**[260] 0.69**	N
DICHLOROPROPENE, 1,3-	542-75-6	110	N	**[560] 550**	N	640	N
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	6,600	G	10,000	C	10,000	C
DICHLORVOS	62-73-7	64	G	310	G	10,000	C
DICYCLOPENTADIENE	77-73-6	**[6] 5.7**	N	24	N	27	N
DIELDRIN	60-57-1	1.2	G	**[6] 5.7**	G	190,000	C
DIETHANOLAMINE	111-42-2	440	G	6,400	G	10,000	C
DIETHYL PHTHALATE	84-66-2	10,000	C	10,000	C	10,000	C
DIFLUBENZURON	35367-38-5	4,400	G	64,000	G	190,000	C
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	10,000	C	10,000	C	10,000	C
DIMETHOATE	60-51-5	**[44] 480**	G	**[40] 7,000**	G	190,000	C
DIMETHOXYBENZIDINE, 3,3-	119-90-4	**[1,300] 12**	G	**[6,500] 57**	G	190,000	C
DIMETHRIN	70-38-2	66,000	G	190,000	C	190,000	C
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	4	G	20	G	190,000	C
DIMETHYLANILINE, N,N-	121-69-7	440	G	**[6,400] 3,400**	G	10,000	C
DIMETHYLBENZIDINE, 3,3-	119-93-7	1.7	G	8.3	G	190,000	C
DIMETHYL METHYLPHOSPHONATE	756-79-6	10,000	C	10,000	C	10,000	C
DIMETHYLPHENOL, 2,4-	105-67-9	4,400	G	10,000	C	10,000	C
DINITROBENZENE, 1,3-	99-65-0	22	G	320	G	190,000	C
DINITROPHENOL, 2,4-	51-28-5	440	G	6,400	G	190,000	C
DINITROTOLUENE, 2,4-	121-14-2	60	G	290	G	190,000	C
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	12	G	61	G	190,000	C
DINOSEB	88-85-7	220	G	3,200	G	190,000	C
DIOXANE, 1,4-	123-91-1	**[58] 89**	N	**[290] 440**	N	**[330] 510**	N
DIPHENAMID	957-51-7	6,600	G	96,000	G	190,000	C
DIPHENYLAMINE	122-39-4	**[5,500] 22,000**	G	**[80,000] 190,000**	**[G] C**	190,000	C
DIPHENYLHYDRAZINE, 1,2-	122-66-7	**[23] 2.1**	**[G] N**	**[110] 10**	**[G] N**	**[190,000] 12**	**[C] N**
DIQUAT	85-00-7	480	G	7,000	G	190,000	C
DISULFOTON	298-04-4	8.8	G	130	G	10,000	C
DITHIANE, 1,4-	505-29-3	2,200	G	32,000	G	190,000	C
DIURON	330-54-1	440	G	6,400	G	190,000	C
ENDOSULFAN	115-29-7	1,300	G	19,000	G	190,000	C
ENDOSULFAN I (ALPHA)	959-98-8	1,300	G	19,000	G	190,000	C
ENDOSULFAN II (BETA)	33213-65-9	1,300	G	19,000	G	190,000	C
ENDOSULFAN SULFATE	1031-07-8	1,300	G	19,000	G	190,000	C

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ENDOTHALL	145-73-3	4,400	G	64,000	G	190,000	C
ENDRIN	72-20-8	66	G	960	G	190,000	C
EPICHLOROHYDRIN	106-89-8	19	N	79	N	91	N
ETHEPHON	16672-87-0	1,100	G	16,000	G	190,000	C
ETHION	563-12-2	110	G	1,600	G	10,000	C
ETHOXYETHANOL, 2- (EGEE)	110-80-5	**[3,900] 3,800**	N	10,000	C	10,000	C
ETHYL ACETATE	141-78-6	1,300	N	**[5,600] 5,500**	N	**[6,400] 6,300**	N
ETHYL ACRYLATE	140-88-5	150	N	**[640] 630**	N	**[730] 720**	N
ETHYL BENZENE	100-41-4	180	N	**[890] 880**	N	1,000	N
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	**[5,500] 10,000**	**[G] C**	10,000	C	10,000	C
ETHYL ETHER	60-29-7	10,000	C	10,000	C	10,000	C
ETHYL METHACRYLATE	97-63-2	5,700	N	10,000	C	10,000	C
ETHYLENE CHLORHYDRIN	107-07-3	4,400	G	10,000	C	10,000	C
ETHYLENE GLYCOL	107-21-1	**[7,700] 7,600**	N	10,000	C	10,000	C
ETHYLENE THIOUREA (ETU)	96-45-7	18	G	260	G	190,000	C
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	2.2	G	32	G	190,000	C
FENAMIPHOS	22224-92-6	55	G	800	G	190,000	C
FENVALERATE (PYDRIN)	51630-58-1	5,500	G	10,000	C	10,000	C
FLUOMETURON	2164-17-2	2,900	G	42,000	G	190,000	C
FLUORANTHENE	206-44-0	8,800	G	130,000	G	190,000	C
FLUORENE	86-73-7	8,800	G	130,000	G	190,000	C
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	10,000	C	10,000	C	10,000	C
FONOFOS	944-22-9	440	G	6,400	G	10,000	C
FORMALDEHYDE	50-00-0	34	N	170	N	200	N
FORMIC ACID	64-18-6	**[6] 5.7**	N	24	N	27	N
FOSETYL-AL	39148-24-8	190,000	C	190,000	C	190,000	C
FURAN	110-00-9	220	G	3,200	G	10,000	C
FURFURAL	98-01-1	**[660] 530**	G	**[4,000] 2,600**	**[N] G**	4,500	N
GLYPHOSATE	1071-83-6	22,000	G	190,000	C	190,000	C
HEPTACHLOR	76-44-8	**[4] 4.1**	G	20	G	190,000	C
HEPTACHLOR EPOXIDE	1024-57-3	2	G	10	G	190,000	C
HEXACHLOROBENZENE	118-74-1	12	G	57	G	190,000	C
HEXACHLOROBUTADIENE	87-68-3	220	G	1,200	G	10,000	C
HEXACHLOROCYCLOPENTADIENE	77-47-4	1,300	G	10,000	C	10,000	C
HEXACHLOROETHANE	67-72-1	**[44] 46**	N	**[220] 230**	N	**[260] 270**	N
HEXANE	110-54-3	10,000	C	10,000	C	10,000	C
HEXAZINONE	51235-04-2	7,300	G	110,000	G	190,000	C
HEXYTHIAZOX (SAVEY)	78587-05-0	5,500	G	80,000	G	190,000	C
HMX	2691-41-0	11,000	G	160,000	G	190,000	C
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	**[0.09] 0.091**	N	0.45	N	0.52	N
HYDROQUINONE	123-31-9	310	G	1,500	G	190,000	C
INDENO[1,2,3-CD]PYRENE	193-39-5	3.5	G	76	G	190,000	C
IPRODIONE	36734-19-7	**[8,800] 420**	G	**[130,000] 2,100**	G	190,000	C
ISOBUTYL ALCOHOL	78-83-1	10,000	C	10,000	C	10,000	C

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ISOPHORONE	78-59-1	10,000	C	10,000	C	10,000	C
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	10,000	C	10,000	C	10,000	C
KEPONE	143-50-0	1.9	G	9.1	G	190,000	C
MALATHION	121-75-5	4,400	G	10,000	C	10,000	C
MALEIC HYDRAZIDE	123-33-1	110,000	G	190,000	C	190,000	C
MANEB	12427-38-2	**[1,100] 310**	G	**[16,000] 1,500**	G	190,000	C
MERPHOS OXIDE	78-48-8	**[6.6] 220**	G	**[96] 3,200**	G	10,000	C
METHACRYLONITRILE	126-98-7	22	G	320	G	**[2,800] 2,700**	N
METHAMIDOPHOS	10265-92-6	11	G	160	G	190,000	C
METHANOL	67-56-1	10,000	C	10,000	C	10,000	C
METHOMYL	16752-77-5	5,500	G	80,000	G	190,000	C
METHOXYCHLOR	72-43-5	1,100	G	16,000	G	190,000	C
METHOXYETHANOL, 2-	109-86-4	380	N	1,600	N	1,800	N
METHYL ACETATE	79-20-9	10,000	C	10,000	C	10,000	C
METHYL ACRYLATE	96-33-3	380	N	1,600	N	1,800	N
METHYL CHLORIDE	74-87-3	250	N	1,200	N	1,400	N
METHYL ETHYL KETONE	78-93-3	10,000	C	10,000	C	10,000	C
METHYL HYDRAZINE	60-34-4	0.38	N	1.6	N	1.8	N
METHYL ISOBUTYL KETONE	108-10-1	10,000	C	10,000	C	10,000	C
METHYL ISOCYANATE	624-83-9	19	N	79	N	91	N
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	570	N	2,400	N	**[2,800] 2,700**	N
METHYL METHACRYLATE	80-62-6	10,000	C	10,000	C	10,000	C
METHYL METHANESULFONATE	66-27-3	190	G	920	G	10,000	C
METHYL PARATHION	298-00-0	55	G	800	G	190,000	C
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	**[770] 760**	N	**[3,200] 3,100**	N	3,600	N
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1,700	N	**[8,600] 8,500**	N	**[9,900] 9,800**	N
METHYLCHLOROPHENOXYACETIC ACD (MCPA)	94-74-6	110	G	1,600	C	190,000	C
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	42	G	910	G	190,000	C
METHYLNAPHTHALENE, 2-	91-57-6	**[880] 57**	**[G] N**	**[13,000] 240**	**[G] N**	**[190,000] 270**	**[C] N**
METHYLSTYRENE, ALPHA	98-83-9	10,000	C	10,000	C	10,000	C
METOLACHLOR	51218-45-2	10,000	C	10,000	C	10,000	C
METRIBUZIN	21087-64-9	5,500	G	80,000	G	190,000	C
MEVINPHOS	**7786-34-7**	**5.5**	**G**	**80**	**G**	**190,000**	**C**
MONOCHLOROACETIC ACID	79-11-8	440	G	6,400	G	190,000	C
NAPHTHALENE	91-20-3	**[160] 13**	**[G] N**	**[760] 66**	**[G] N**	**[190,000] 77**	**[C] N**
NAPHTHYLAMINE, 1-	134-32-7	10	G	51	G	190,000	C
NAPHTHYLAMINE, 2-	91-59-8	10	G	51	G	190,000	C
NAPROPAMIDE	15299-99-7	**[22,000] 26,000**	G	190,000	C	190,000	C
NITROANILINE, O-	88-74-4	**[2,200] 0.95**	**[G] N**	**[32,000] 3.9**	**[G] N**	**[190,000] 4.5**	**[C] N**
NITROANILINE, P-	100-01-6	880	G	4,600	G	190,000	C
NITROBENZENE	98-95-3	**[440] 11**	**[G] N**	**[6,400] 55**	**[G] N**	**[10,000] 63**	**[C] N**
NITROGUANIDINE	556-88-7	22,000	G	190,000	C	190,000	C

All concentrations in mg/kg
G – Ingestion
N- Inhalation
C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Nonresidential Surface Soil 0-2 feet		Nonresidential Subsurface Soil 2-15 feet	
NITROPHENOL, 2-	88-75-5	1,800	G	26,000	G	190,000	C
NITROPHENOL, 4-	100-02-7	1,800	G	26,000	G	190,000	C
NITROPROPANE, 2-	79-46-9	0.16	N	0.82	N	0.94	N
NITROSODIETHYLAMINE, N-	55-18-5	0.0041	N	0.051	N	0.059	N
NITROSODIMETHYLAMINE, N-	62-75-9	0.012	N	0.16	N	0.18	N
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	**[3.4] 0.28**	**[G] N**	**[17] 1.4**	**[G] N**	**[10,000] 1.6**	**[C] N**
NITROSODI-N-PROPYLAMINE, N-	621-64-7	**[2.7] 0.22**	**[G] N**	**[13] 1.1**	**[G] N**	**[10,000] 1.3**	**[C] N**
NITROSODIPHENYLAMINE, N-	86-30-6	**[3,800] 170**	**[G] N**	**[19,000] 860**	**[G] N**	**[190,000] 990**	**[C] N**
NITROSO-N-ETHYLUREA, N-	759-73-9	0.16	G	3.4	G	190,000	C
OCTYL PHTHALATE, DI-N-	117-84-0	2,200	G	10,000	C	10,000	C
OXAMYL (VYDATE)	23135-22-0	5,500	G	80,000	G	190,000	C
PARAQUAT	1910-42-5	990	G	14,000	G	190,000	C
PARATHION	56-38-2	**[1,300] 6.6**	G	**[10,000] 96**	**[C] G**	10,000	C
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	**1336-36-3**	**9.3**	**G**	**46**	**G**	**190,000**	**C**
PCB-1016 (AROCLOR)	12674-11-2	**[9] 15**	G	**[46] 220**	G	10,000	C
PCB-1221 (AROCLOR)	11104-28-2	**[9] 4.7**	**[G] N**	**[46] 23**	**[G] N**	**[10,000] 27**	**[C] N**
PCB-1232 (AROCLOR)	11141-16-5	**[9] 9.3**	G	46	G	10,000	C
PCB-1242 (AROCLOR)	53469-21-9	**[9] 9.3**	G	46	G	10,000	C
PCB-1248 (AROCLOR)	12672-29-6	9.3	G	46	G	10,000	C
PCB-1254 (AROCLOR)	11097-69-1	4.4	G	**[46] 64**	G	10,000	C
PCB-1260 (AROCLOR)	11096-82-5	**[9] 9.3**	G	46	G	190,000	C
PEBULATE	1114-71-2	10,000	C	10,000	C	10,000	C
PENTACHLOROBENZENE	608-93-5	180	G	2,600	G	190,000	C
PENTACHLOROETHANE	76-01-7	210	G	1,000	G	10,000	C
PENTACHLORONITROBENZENE	82-68-8	72	G	350	G	190,000	C
PENTACHLOROPHENOL	87-86-5	47	G	230	G	190,000	C
PERFLUOROBUTANE SULFONATE (PFBS)	**375-73-5**	**4,400**	**G**	**10,000**	**C**	**10,000**	**C**
PERFLUOROOCTANE SULFONATE (PFOS)	**1763-23-1**	**4.4**	**G**	**64**	**G**	**190,000**	**C**
PERFLUOROOCTANOIC ACID (PFOA)	**335-67-1**	**4.4**	**G**	**64**	**G**	**190,000**	**C**
PHENACETIN	62-44-2	8,500	G	41,000	G	190,000	C
PHENANTHRENE	85-01-8	66,000	G	190,000	C	190,000	C
PHENOL	108-95-2	3,800	N	16,000	N	18,000	N
PHENYL MERCAPTAN	108-98-5	220	G	3,200	G	10,000	C
PHENYLENEDIAMINE, M-	108-45-2	1,300	G	19,000	G	190,000	C
PHENYLPHENOL, 2-	90-43-7	**[9,800] 9,600**	G	**[48,000] 47,000**	G	190,000	C
PHORATE	298-02-2	44	G	640	G	10,000	C
PHTHALIC ANHYDRIDE	85-44-9	**[190,000] 380**	**[C] N**	**[190,000] 1,600**	**[C] N**	**[190,000] 1,800**	**[C] N**
PICLORAM	1918-02-1	15,000	G	190,000	C	190,000	C
PROMETON	1610-18-0	3,300	G	48,000	G	190,000	C
PRONAMIDE	23950-58-5	17,000	G	190,000	C	190,000	C
PROPACHLOR	**1918-16-7**	**2,900**	**G**	**42,000**	**G**	**190,000**	**C**
PROPANIL	709-98-8	1,100	G	16,000	G	190,000	C
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	3,800	N	10,000	C	10,000	C
PROPAZINE	139-40-2	4,400	G	10,000	C	10,000	C

All concentrations in mg/kg
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Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Nonresidential			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
PROPHAM	122-42-9	4,400	G	64,000	G	190,000	C
PROPYLBENZENE, N-	103-65-1	10,000	C	10,000	C	10,000	C
PROPYLENE OXIDE	75-56-9	78	G	380	G	690	N
PYRENE	129-00-0	6,600	G	96,000	G	190,000	C
PYRETHRUM	**8003-34-7**	**220**	**G**	**3,200**	**G**	**10,000**	**C**
PYRIDINE	110-86-1	220	G	3,200	G	10,000	C
QUINOLINE	91-22-5	**[6] 6.2**	G	30	G	10,000	C
QUIZALOFOP (ASSURE)	76578-14-8	2,000	G	29,000	G	190,000	C
RDX	121-82-4	**[170] 230**	G	**[830] 1,100**	G	190,000	C
RESORCINOL	108-46-3	190,000	C	190,000	C	190,000	C
RONNEL	299-84-3	11,000	G	160,000	G	190,000	C
SIMAZINE	122-34-9	160	G	760	G	190,000	C
STRYCHNINE	57-24-9	66	G	960	G	190,000	C
STYRENE	100-42-5	10,000	C	10,000	C	10,000	C
TEBUTHIURON	34014-18-1	15,000	G	190,000	C	190,000	C
TERBACIL	5902-51-2	2,900	G	42,000	G	190,000	C
TERBUFOS	13071-79-9	5.5	G	80	G	10,000	C
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	66	G	960	G	190,000	C
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00014	G	0.0007	G	190,000	C
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	60	N	300	N	340	N
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	**[7.7] 7.6**	N	38	N	44	N
TETRACHLOROETHYLENE (PCE)	127-18-4	**[770] 760**	N	3,200	N	3,600	N
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	6,600	G	96,000	G	190,000	C
TETRAETHYL LEAD	78-00-2	0.022	G	0.32	G	10,000	C
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	110	G	1,600	G	10,000	C
TETRAHYDROFURAN	109-99-9	**[240] 230**	N	**[1,200] 1,100**	N	**[1,400] 1,300**	N
THIOFANOX	39196-18-4	66	G	960	G	190,000	C
THIRAM	137-26-8	**[1,100] 3,300**	G	**[16,000] 48,000**	G	190,000	C
TOLUENE	108-88-3	10,000	C	10,000	C	10,000	C
TOLUIDINE, M-	108-44-1	1,200	G	5,700	G	10,000	C
TOLUIDINE, O-	95-53-4	1,200	G	5,700	G	10,000	C
TOLUIDINE, P-	106-49-0	620	G	3,000	G	190,000	C
TOXAPHENE	8001-35-2	17	G	83	G	190,000	C
TRIALLATE	2303-17-5	**[2,900] 26**	G	**[10,000] 130**	**[C] G**	10,000	C
TRIBROMOMETHANE (BROMOFORM)	75-25-2	**[410] 400**	N	2,000	N	2,300	N
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	10,000	C	10,000	C	10,000	C
TRICHLOROACETIC ACID	76-03-9	270	G	1,300	G	190,000	C
TRICHLOROBENZENE, 1,2,4-	120-82-1	**[640] 39**	**[G] N**	**[3,100] 160**	**[G] N**	**[10,000] 190**	**[C] N**
TRICHLOROBENZENE, 1,3,5-	108-70-3	**[1,300] 46**	**[G] N**	**[19,000] 190**	**[G] N**	**[190,000] 230**	**[C] N**
TRICHLOROETHANE, 1,1,1-	71-55-6	10,000	C	10,000	C	10,000	C
TRICHLOROETHANE, 1,1,2-	79-00-5	**[4] 3.8**	N	16	N	18	N
TRICHLOROETHYLENE (TCE)	79-01-6	38	N	160	N	180	N
TRICHLOROPHENOL, 2,4,5-	95-95-4	22,000	G	190,000	C	190,000	C
TRICHLOROPHENOL, 2,4,6-	88-06-2	220	G	3,200	G	190,000	C
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	2,200	G	32,000	G	190,000	C

All concentrations in mg/kg
G – Ingestion
N- Inhalation
C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0-15 feet		Nonresidential Surface Soil 0-2 feet		Nonresidential Subsurface Soil 2-15 feet	
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5-(2,4,5-TP)(SILVEX)	93-72-1	1,800	G	26,000	G	190,000	C
TRICHLOROPROPANE, 1,1,2-	598-77-6	1,100	G	10,000	C	10,000	C
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.14	G	3.0	G	**[28] 27**	N
TRICHLOROPROPENE, 1,2,3-	96-19-5	5.7	N	24	N	27	N
TRIETHYLAMINE	121-44-8	130	N	**[560] 550**	N	**[640] 630**	N
TRIETHYLENE GLYCOL	112-27-6	10,000	C	10,000	C	10,000	C
TRIFLURALIN	1582-09-8	1,700	G	12,000	G	190,000	C
TRIMETHYLBENZENE, 1,3,4-(TRIMETHYLBENZENE, 1,2,4-)	95-63-6	**[130] 1,100**	N	**[560] 4,700**	N	**[640] 5,400**	N
TRIMETHYLBENZENE, 1,3,5-	108-67-8	**[2,200] 1,100**	**[G] N**	**[10,000] 4,700**	**[C] N**	**[10,000] 5,400**	**[C] N**
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	22	G	320	G	10,000	C
TRINITROTOLUENE, 2,4,6-	118-96-7	110	G	1,600	G	190,000	C
VINYL ACETATE	108-05-4	**[3,900] 3,800**	N	10,000	C	10,000	C
VINYL BROMIDE (BROMOETHENE)	593-60-2	14	N	70	N	80	N
VINYL CHLORIDE	75-01-4	**[0.9] 0.93**	G	61	G	**[280] 290**	N
WARFARIN	81-81-2	66	G	960	G	190,000	C
XYLENES (TOTAL)	1330-20-7	1,900	N	**[8,000] 7,900**	N	9,100	N
ZINEB	12122-67-7	11,000	G	160,000	G	190,000	C

All concentrations in mg/kg
G – Ingestion
N- Inhalation
C- Cap

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L														
		Residential				Nonresidential				Residential				Nonresidential				Residential				Nonresidential				
		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		
ACENAPHTHENE	83-32-9	**[250] 210**		**[3,100] 2,600**	E	380		4,700	E	380		4,700	E	380		4,700	E	380		4,700	E	380		4,700	E	15
ACENAPHTHYLENE	208-96-8	**[250] 210**		**[2,800] 2,400**	E	**[700] 580**		**[8,000] 6,600**	E	1,600		18,000	E	1,600		18,000	E	1,600		18,000	E	1,600		18,000	E	15
ACEPHATE	30560-19-1	**[8.4] 4.2**		**[1.0] 0.5**	E	**[39] 12**		**[4.6] 1.4**	E	**[840] 420**		**[100] 50**	E	**[3,900] 1,200**		**[460] 140**	E	**[8.4] 4.2**		**[1.0] 0.5**	E	**[39] 12**		**[4.6] 1.4**	E	NA
ACETALDEHYDE	75-07-0	1.9		0.23	E	7.9		0.96	E	190		23	E	790		96	E	1.9		0.23	E	7.9		0.96	E	NA
ACETONE	67-64-1	**[3,800] 3,100**		**[430] 350**	E	**[10,000] 8,800**		**[1,200] 980**	E	10,000		10,000	C	10,000		10,000	C	10,000		**[4,300] 3,500**	E	10,000		**[10,000] 9,800**	**[C] E**	NA
ACETONITRILE	75-05-8	13		1.5	E	53		6	E	1,300		150	E	5,300		600	E	130		15	E	530		60	E	NA
ACETOPHENONE	98-86-2	**[420] 350**		**[230] 190**	E	**[1,200] 970**		**[640] 520**	E	10,000		10,000	C	10,000		10,000	C	**[420] 350**		**[230] 190**	E	**[1,200] 970**		**[640] 520**	E	NA
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	**[0.019] 0.017**		**[0.08] 0.07**	E	**[0.089] 0.072**		**[0.37] 0.3**	E	**[1.9] 1.7**		**[8] 7**	E	**[8.9] 7.2**		**[37] 30**	E	**[19] 17**		**[78] 70**	E	**[89] 72**		**[370] 300**	E	20
ACROLEIN	107-02-8	0.0042		0.00047	E	0.018		0.002	E	0.42		0.047	E	1.8		0.2	E	0.042		0.0047	E	0.18		0.02	E	NA
ACRYLAMIDE	79-06-1	0.019		0.0033	E	0.25		0.043	E	1.9		0.33	E	25		4.3	E	0.019		0.0033	E	0.25		0.043	E	NA
ACRYLIC ACID	79-10-7	0.21		0.039	E	0.88		0.16	E	21		3.9	E	88		16	E	21		3.9	E	88		16	E	NA
ACRYLONITRILE	107-13-1	0.072		0.01	E	0.37		0.051	E	7.2		1	E	37		5.1	E	7.2		1	E	37		5.1	E	NA
ALACHLOR	15972-60-8	0.2		0.077	E	0.2		0.077	E	20		7.7	E	20		7.7	E	0.2		0.077	E	0.2		0.077	E	NA
ALDICARB	116-06-3	0.3		0.05	E	0.3		0.05	E	30		5	E	30		5	E	300		50	E	300		50	E	NA
ALDICARB SULFONE	1646-88-4	0.2		0.027	E	0.2		0.027	E	20		2.7	E	20		2.7	E	0.2		0.027	E	0.2		0.027	E	NA
ALDICARB SULFOXIDE	1646-87-3	0.4		0.045	E	0.4		0.045	E	40		4.5	E	40		4.5	E	0.4		0.045	E	0.4		0.045	E	NA
ALDRIN	309-00-2	**[0.0043] 0.0038**		**[0.52] 0.46**	E	**[0.02] 0.016**		**[2.4] 1.9**	E	**[0.43] 0.38**		**[52] 46**	E	**[2.0] 1.6**		**[240] 190**	E	2		240	E	2		240	E	10
ALLYL ALCOHOL	107-18-6	0.021		0.0025	E	0.088		0.01	E	2.1		0.25	E	**[9] 8.8**		1	E	2.1		0.25	E	**[9] 8.8**		1	E	NA
AMETRYN	834-12-8	6		6.5	E	6		6.5	E	600		650	E	600		650	E	6		6.5	E	6		6.5	E	NA
AMINOBIPHENYL, 4-	92-67-1	**[0.0035] 0.0031**		**[0.0014] 0.0012**	E	**[0.016] 0.013**		**[0.0062] 0.005**	E	**[0.35] 0.31**		**[0.14] 0.12**	E	**[1.6] 1.3**		**[0.62] 0.5**	E	**[3.5] 3.1**		**[1.4] 1.2**	E	**[16] 13**		**[6.2] 5**	E	NA

[1] For other options see Section 250.308
All concentrations in mg/kg
E – Number calculated by the soil to groundwater equation **[is]** **in** section 250.308
C – Cap
NA – The soil buffer distance option is not available for this substance
[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]
[HAAs – The values listed for haloacetic acids (HAAs) are the total for all HAAs combined.]

Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
AMITROLE	61-82-5	[0.078] 0.069	[0.032] 0.028	E	[0.36] 0.29	[0.15] 0.12	E	[8] 6.9	[3.2] 2.8	E	[36] 29	[15] 12	E	[78] 69	[32] 28	E	[360] 290	[150] 120	E	NA
AMMONIA	7664-41-7	3,000	360	E	3,000	360	E	10,000	10,000	C	10,000	10,000	C	3,000	360	E	3,000	360	E	NA
AMMONIUM SULFAMATE	7773-06-0	200	24	E	200	24	E	20,000	2,400	E	20,000	2,400	E	200	24	E	200	24	E	NA
ANILINE	62-53-3	0.21	0.12	E	0.88	0.52	E	21	12	E	88	52	E	0.21	0.12	E	0.88	0.52	E	NA
ANTHRACENE	120-12-7	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	6.6	350	E	10
ATRAZINE	1912-24-9	0.3	0.13	E	0.3	0.13	E	30	13	E	30	13	E	0.3	0.13	E	0.3	0.13	E	NA
AZINPHOS-METHYL (GUTHION)	86-50-0	[13] 5.2	[15] 5.9	E	[35] 15	[40] 17	E	[1,300] 520	[1,500] 590	E	[3,200] 1,500	[3,600] 1,700	E	[13] 5.2	[15] 5.9	E	[35] 15	[40] 17	E	NA
BAYGON (PROPOXUR)	114-26-1	0.3	0.057	E	0.3	0.057	E	30	5.7	E	30	5.7	E	300	57	E	300	57	E	NA
BENOMYL	17804-35-2	[200] 27	[970] 130	E	[200] 110	[970] 530	E	200	970	E	200	970	E	[200] 27	[970] 130	E	[200] 110	[970] 530	E	20
BENTAZON	25057-89-0	20	2.9	E	20	2.9	E	2,000	290	E	2,000	290	E	20	2.9	E	20	2.9	E	NA
BENZENE	71-43-2	0.5	0.13	E	0.5	0.13	E	50	13	E	50	13	E	50	13	E	50	13	E	NA
BENZIDINE	92-87-5	[0.000098] 0.000092	[0.13] 0.12	E	[0.0015] 0.0012	[2] 1.6	E	[0.0098] 0.0092	[13] 12	E	[0.15] 0.12	[200] 160	E	[0.098] 0.092	[130] 120	E	[1.5] 1.2	[2,000] 1,600	E	5
BENZO[A]ANTHRACENE	56-55-3	[0.032] 0.03	[28] 26	E	[0.49] 0.39	[430] 340	E	1.1	960	E	1.1	960	E	1.1	960	E	1.1	960	E	5
BENZO[A]PYRENE	50-32-8	0.02	46	E	0.02	46	E	0.38	860	E	0.38	860	E	0.38	860	E	0.38	860	E	5
BENZO[B]FLUORANTHENE	205-99-2	[0.019] 0.018	[26] 25	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	0.12	170	E	5
BENZO[GHI]PERYLENE	191-24-2	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	0.026	180	E	5
BENZO[K]FLUORANTHENE	207-08-9	[0.019] 0.018	[210] 200	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	0.055	610	E	5
BENZOIC ACID	65-85-0	[17,000] 14,000	[3,200] 2,700	E	[47,000] 39,000	[9,000] 7,500	E	190,000	52,000	E	190,000	52,000	E	[17,000] 14,000	[3,200] 2,700	E	[47,000] 39,000	[9,000] 7,500	E	NA
BENZOTRICHLORIDE	98-07-7	[0.0056] 0.005	[0.014] 0.012	E	[0.026] 0.021	[0.063] 0.051	E	[0.56] 0.5	[1.4] 1.2	E	[3] 2.1	[6.3] 5.1	E	[5.6] 0.5	[14] 1.2	E	[26] 2.1	[63] 5.1	E	30

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential				Nonresidential			Residential			Nonresidential			Residential			Nonresidential		
		100 X GW MSC	Generic Value			100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
BENZYL ALCOHOL	100-51-6	**[420] 350**	**[150] 130**	E	**[1,200] 970**	**[430] 350**	E	10,000	10,000	C	10,000	10,000	C	**[420] 350**	**[150] 130**	E	**[1,200] 970**	**[430] 350**	E	NA
BENZYL CHLORIDE	100-44-7	0.1	0.059	E	0.51	0.3	E	10	5.9	E	51	30	E	10	5.9	E	51	30	E	NA
BETA PROPIOLACTONE	57-57-8	0.0012	0.00015	E	0.006 3	0.0007 6	E	**[0.1] 0.12**	0.015	E	0.63	0.076	E	0.012	0.0015	E	0.063	0.0076	E	NA
BHC, ALPHA	319-84-6	**[0.012] 0.01**	**[0.055] 0.046**	E	**[0.054] 0.043**	**[0.25] 0.2**	E	1	**[5.5] 4.6**	E	**[5.4] 4.3**	**[25] 20**	E	**[12] 10**	**[55] 46**	E	**[54] 43**	**[250] 200**	E	20
BHC, BETA-	319-85-7	**[0.041] 0.036**	**[0.24] 0.21**	E	**[0.19] 0.15**	**[1.1] 0.88**	E	**[4.1] 3.6**	**[24] 21**	E	10	59	E	10	59	E	10	59	E	15
BHC, GAMMA (LINDANE)	58-89-9	0.02	0.072	E	0.02	0.072	E	2	7.2	E	2	7.2	E	20	72	E	20	72	E	20
BIPHENYL, 1,1-	92-52-4	**[9.1] 0.084**	**[40] 0.37**	E	**[43] 0.35**	**[190] 1.5**	E	**[720] 8.4**	**[3,100] 37**	E	**[720] 35**	**[3,100] 150**	E	**[720] 8.4**	**[3,100] 37**	E	**[720] 35**	**[3,100] 150**	E	20
BIS(2-CHLOROETHOXY) METHANE	111-91-1	**[13] 10**	**[3.4] 2.6**	E	**[35] 29**	**[9.2] 7.6**	E	**[1,300] 1,000**	**[340] 260**	E	**[3,500] 2,900**	**[920] 760**	E	**[13] 10**	**[3.4] 2.6**	E	**[35] 29**	**[9.2] 7.6**	E	NA
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.015	0.0045	E	0.076	0.023	E	1.5	0.45	E	7.6	2.3	E	1.5	0.45	E	7.6	2.3	E	NA
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	30	8	E	30	8	E	3,000	800	E	3,000	800	E	3,000	800	E	3,000	800	E	NA
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0000 79	0.000012	E	0.000 4	0.0000 6	E	0.0079	**[0.001] 0.0012**	E	0.04	0.006	E	0.0079	**[0.001] 0.0012**	E	0.04	0.006	E	NA
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.6	130	E	0.6	130	E	29	6,300	E	29	6,300	E	29	6,300	E	29	6,300	E	10
BISPHENOL A	80-05-7	**[210] 170**	**[810] 660**	E	**[580] 490**	**[2,200] 1,900**	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	12,000	46,000	E	20
BROMACIL	314-40-9	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7	1.8	E	7	1.8	E	NA
BROMOBENZENE	**108-86-1**	**0.006**	**0.0047**	**E**	**0.006**	**0.0047**	**E**	**0.6**	**0.47**	**E**	**0.6**	**0.47**	**E**	**0.006**	**0.0047**	**E**	**0.006**	**0.0047**	**E**	**NA**
BROMOCHLOROMETHANE	74-97-5	9	1.6	E	9	1.6	E	900	160	E	900	160	E	9	1.6	E	9	1.6	E	NA
BROMODICHLORO METHANE (THM)	75-27-4	8	2.7	E	8	2.7	E	800	270	E	800	270	E	8	2.7	E	8	2.7	E	NA
BROMOMETHANE	74-83-9	1	0.54	E	1	0.54	E	100	54	E	100	54	E	100	54	E	100	54	E	NA
BROMOXYNIL	1689-84-5	**[83] 0.63**	**[71] 0.54**	E	**[230] 2.6**	**[200] 2.2**	E	**[8,300] 63**	**[7,100] 54**	E	**[13,00 0] 260**	**[11,000] 220**	E	**[83] 0.63**	**[71] 0.54**	E	**[230] 2.6**	**[200] 2.2**	E	NA
BROMOXYNIL OCTANOATE	1689-99-2	**[8] 0.63**	**[360] 28**	E	**[8] 2.6**	**[360] 120**	E	8	360	E	8	360	E	8	360	E	8	360	E	15

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L														
		Residential				Nonresidential				Residential				Nonresidential				Residential				Nonresidential				
		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		
BUTADIENE, 1,3-	106-99-0	**[0.021] 0.11**		**[0.0086] 0.045**	E	**[0.1] 0.45**		**[0.041] 0.19**	E	**[2.1] 11**		**[0.86] 4.5**	E	**[10] 45**		**[4.1] 19**	E	**[2.1] 11**		**[0.86] 4.5**	E	**[10] 45**		**[4.1] 19**	E	NA
BUTYL ALCOHOL, N-	71-36-3	**[420] 350**		**[50] 42**	E	**[1,200] 970**		**[140] 120**	E	10,000		**[5,000] 4,200**	E	10,000		10,000	C	**[4,200] 3,500**		**[500] 420**	E	**[10,000] 9,700**		**[1,400] 1,200**	E	NA
BUTYLATE	2008-41-5	40		58	E	40		58	E	4,000		5,800	E	4,000		5,800	E	40		58	E	40		58	E	30
BUTYLBENZENE, N-	104-51-8	**[210] 170**		**[1,300] 1,100**	E	**[580] 490**		**[3,700] 3,100**	E	1,500		9,500	E	1,500		9,500	E	**[210] 170**		**[1,300] 1,100**	E	**[580] 490**		**[3,700] 3,100**	E	15
BUTYLBENZENE, SEC-	135-98-8	**[420] 350**		**[980] 820**	E	**[1,200] 970**		**[2,800] 2,300**	E	1,700		4,000	E	1,700		4,000	E	**[420] 350**		**[980] 820**	E	**[1,200] 970**		**[2,800] 2,300**	E	30
BUTYLBENZENE, TERT-	98-06-6	**[420] 350**		**[760] 630**	E	**[1,200] 970**		**[2,200] 1,800**	E	3,000		5,400	E	3,000		5,400	E	**[420] 350**		**[760] 630**	E	**[1,200] 970**		**[2,200] 1,800**	E	30
BUTYLBENZYL PHTHALATE	85-68-7	**[38] 34**		**[3,200] 2,900**	E	**[180] 140**		10,000	C	270		10,000	C	270		10,000	C	270		10,000	C	270		10,000	C	10
CAPTAN	133-06-2	**[32] 28**		**[20] 17**	E	50		31	E	50		31	E	50		31	E	50		31	E	50		31	E	NA
CARBARYL	63-25-2	**[420] 350**		**[250] 210**	E	**[1,200] 970**		**[700] 570**	E	12,000		7,000	E	12,000		7,000	E	12,000		7,000	E	12,000		7,000	E	NA
CARBAZOLE	86-74-8	**[3.7] 3.3**		**[24] 21**	E	**[17] 14**		**[110] 89**	E	120		760	E	120		760	E	**[4] 3.3**		**[24] 21**	E	**[17] 14**		**[110] 89**	E	15
CARBOFURAN	1563-66-2	4		0.87	E	4		0.87	E	400		87	E	400		87	E	4		0.87	E	4		0.87	E	NA
CARBON DISULFIDE	75-15-0	150		130	E	620		530	E	10,000		10,000	C	10,000		10,000	C	150		130	E	620		530	E	NA
CARBON TETRACHLORIDE	56-23-5	0.5		0.26	E	0.5		0.26	E	50		26	E	50		26	E	5		2.6	E	5		2.6	E	NA
CARBOXIN	5234-68-4	70		53	E	70		53	E	7,000		5,300	E	7,000		5,300	E	70		53	E	70		53	E	NA
CHLORAMBEN	133-90-4	10		1.6	E	10		1.6	E	1,000		160	E	1,000		160	E	10		1.6	E	10		1.6	E	NA
CHLORDANE	57-74-9	0.2		49	E	0.2		49	E	5.6		1,400	E	5.6		1,400	E	5.6		1,400	E	5.6		1,400	E	10
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	10,000		1,800	E	10,000		7,300	E	10,000		10,000	C	10,000		10,000	C	10,000		1,800	E	10,000		7,300	E	NA
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	0.21		0.049	E	0.88		0.2	E	21		4.9	E	88		20	E	21		4.9	E	88		20	E	NA
CHLOROACETALDEHYDE	107-20-0	0.24		0.029	E	**[1.1] 1**		**[0.13] 0.12**	E	24		2.9	E	**[110] 100**		**[13] 12**	E	0.24		0.029	E	**[1.1] 1**		**[0.1] 0.12**	E	NA
[CHLOROACETOPHENONE, 2-]	**[532-27-4]**	**[0.13]**		**[0.039]**	**[E]**	**[0.35]**		**[0.11]**	**[E]**	**[13]**		**[3.9]**	**[E]**	**[35]**		**[11.0]**	**[E]**	**[130]**		**[39]**	**[E]**	**[350]**		**[110]**	**[E]**	**[NA]**

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		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
CHLOROANILINE, P-	106-47-8	**[0.37] 0.33**	**[0.47] 0.42**	E	**[1.7] 1.4**	**[2.1] 1.8**	E	**[37] 33**	**[47] 42**	E	**[170] 140**	**[210] 180**	E	**[0.37] 0.33**	**[0.47] 0.42**	E	**[1.7] 1.4**	**[2.1] 1.8**	E	NA
CHLOROBENZENE	108-90-7	10	6.1	E	10	6.1	E	1,000	610	E	1,000	610	E	1,000	610	E	1,000	610	E	NA
CHLOROBENZILATE	510-15-6	**[0.66] 0.59**	**[4.4] 3.9**	E	**[3.1] 2.5**	**[20] 17**	E	**[66] 59**	**[440] 390**	E	**[310] 250**	**[2,000] 1,700**	E	**[660] 590**	**[4,400] 3,900**	E	1,300	8,600	E	15
CHLOROBUTANE, 1-	109-69-3	**[170] 140**	**[270] 220**	E	**[470] 390**	**[730] 610**	E	10,000	10,000	C	10,000	10,000	C	**[170] 140**	**[270] 220**	E	**[470] 390**	**[730] 610**	E	30
CHLORODIBROMO METHANE (THM)	124-48-1	8	2.5	E	8	2.5	E	800	250	E	800	250	E	800	250	E	800	250	E	NA
CHLORODIFLUORO METHANE (THM)	75-45-6	10,000	2,800	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	2,800	E	10,000	10,000	C	NA
CHLOROETHANE	75-00-3	**[25] 2,100**	**[5.4] 450**	E	**[120] 8,800**	**[26] 1,900**	E	**[2,500] 10,000**	**[540] 10,000**	**[E] C**	10,000	**[2,600] 10,000**	**[E] C**	**[2,500] 10,000**	**[540] 10,000**	**[E] C**	10,000	**[2,600] 10,000**	**[E] C**	NA
CHLOROFORM (THM)	67-66-3	8	2	E	8	2	E	800	200	E	800	200	E	80	20	E	80	20	E	NA
CHLORONAPHTHALENE, 2-	91-58-7	**[330] 280**	**[7,000] 6,000**	E	**[930] 780**	**[20,000] 17,000**	E	1,200	26,000	E	1,200	26,000	E	**[330] 280**	**[7,000] 6,000**	E	**[930] 780**	**[20,000] 17,000**	E	15
CHLORONITROBENZENE, P-	100-00-5	**[4.2] 0.42**	**[5.5] 0.55**	E	**[12] 1.8**	**[16] 2.4**	E	**[420] 42**	**[550] 55**	E	**[1,200] 180**	**[1,600] 240**	E	**[4.2] 0.42**	**[5.5] 0.55**	E	**[12] 1.8**	**[16] 2.4**	E	NA
CHLOROPHENOL, 2-	95-57-8	4	4.4	E	4	4.4	E	400	440	E	400	440	E	4	4.4	E	4	4.4	E	NA
CHLOROPRENE	126-99-8	0.016	0.0038	E	0.083	0.02	E	1.6	0.38	E	8.3	2	E	1.6	0.38	E	8.3	2	E	NA
CHLOROPROPANE, 2-	75-29-6	21	16	E	88	67	E	2,100	1,600	E	8,800	6,700	E	21	16	E	88	67	E	NA
CHLOROTHALONIL	1897-45-6	**[24] 3.8**	**[61] 9.7**	E	**[60] 16**	**[150] 41**	E	60	150	E	60	150	E	**[24] 3.8**	**[61] 9.7**	E	**[60] 16**	**[150] 41**	E	30
CHLOROTOLUENE, O-	95-49-8	10	20	E	10	20	E	1,000	2,000	E	1,000	2,000	E	10	20	E	10	20	E	30
CHLOROTOLUENE, P-	106-43-4	10	10	E	10	10	E	1,000	1,000	E	1,000	1,000	E	10	10	E	10	10	E	NA
CHLORPYRIFOS	2921-88-2	0.2	2.3	E	0.2	2.3	E	20	230	E	20	230	E	0.2	2.3	E	0.2	2.3	E	15
CHLORSULFURON	64902-72-3	**[210] 69**	**[29] 9.6**	E	**[580] 190**	**[80] 26**	E	**[19,000] 6,900**	**[2,600] 960**	E	19,000	2,600	E	**[210] 69**	**[29] 9.6**	E	**[580] 190**	**[80] 26**	E	NA
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	7	110	E	7	110	E	50	820	E	50	820	E	50	820	E	50	820	E	15

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		Residential				Nonresidential				Residential				Nonresidential				Residential				Nonresidential				
		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		
CHRYSENE	218-01-9	**[0.19] 0.18**		**[230] 220**	E	0.19		230	E	0.19		230	E	0.19		230	E	0.19		230	E	0.19		230	E	5
CRESOL(S)	1319-77-3	130		23	E	530		92	E	10,000		2,300	E	10,000		9,200	E	10,000		2,300	E	10,000		9,200	E	NA
CRESOL, 4,6-DINITRO-O-	534-52-1	**[0.33] 0.28**		**[0.25] 0.21**	E	**[0.93] 0.78**		**[0.7] 0.59**	E	**[33] 28**		**[25] 21**	E	**[93] 78**		**[70] 59**	E	**[330] 28**		**[250] 21**	E	**[930] 78**		**[700] 59**	E	NA
CRESOL, O- (2-METHYLPHENOL)	95-48-7	**[210] 170**		**[35] 28**	E	**[580] 490**		**[96] 81**	E	**[21,000] 17,000**		**[3,500] 2,800**	E	**[58,000]49,000**		**[9,600] 8,100**	E	**[21,000] 17,000**		**[3,500] 2,800**	E	**[58,000] 49,000**		**[9,600] 8,100**	E	NA
CRESOL, M- (3-METHYLPHENOL)	108-39-4	**[210] 170**		**[41] 34**	E	**[580] 490**		**[110] 97**	E	10,000		**[4,100] 3,400**	E	10,000		**[10,000] 9,700**	**[C] E**	10,000		10,000	C	10,000		10,000	C	NA
CRESOL, P- (4-METHYLPHENOL)	106-44-5	**[21] 17**		**[4.9] 4**	E	**[58] 49**		**[14] 11**	E	**[2,100] 1,700**		**[490] 400**	E	**[5,800] 4,900**		**[1,400] 1,100**	E	**[21,000] 17,000**		**[4,900] 4,000**	E	**[58,000] 49,000**		**[14,000] 11,000**	E	NA
CRESOL, P-CHLORO-M-	59-50-7	**[420] 350**		**[870] 720**	E	**[1,200] 970**		**[2,500] 2,000**	E	**[42,000] 35,000**		**[87,000] 72,000**	E	**[120,000] 97,000**		190,000	C	**[420] 350**		**[870] 720**	E	**[1,200] 970**		**[2,500] 2,000**	E	30
CROTONALDEHYDE	4170-30-3	**[0.038] 0.034**		**[0.0048] 0.0043**	E	**[0.18] 0.14**		**[0.023] 0.018**	E	**[3.8] 3.4**		**[0.48] 0.43**	E	**[18] 14**		**[2.3] 1.8**	E	**[3.8] 3.4**		**[0.48] 0.43**	E	**[18] 14**		**[2.3] 1.8**	E	NA
CROTONALDEHYDE, TRANS-	123-73-9	**[0.038] 0.034**		**[0.0048] 0.0043**	E	**[0.18] 0.14**		**[0.023] 0.018**	E	**[3.8] 3.4**		**[0.48] 0.43**	E	**[18] 14**		**[2.3] 1.8**	E	**[3.8] 3.4**		**[0.48] 0.43**	E	**[18] 14**		**[2.3] 1.8**	E	NA
CUMENE (ISOPROPYL BENZENE)	98-82-8	84		600	E	350		2,500	E	5,000		10,000	C	5,000		10,000	C	5,000		10,000	C	5,000		10,000	C	15
CYANAZINE	21725-46-2	0.1		0.061	E	0.1		0.061	E	10		6.1	E	10		6.1	E	0.1		0.061	E	0.1		0.061	E	NA
CYCLOHEXANE	110-82-7	1,300		1,700	E	5,300		6,900	E	5,500		7,200	E	5,500		7,200	E	1,300		1,700	E	5,300		6,900	E	NA
CYCLOHEXANONE	108-94-1	150		41	E	620		170	E	10,000		4,100	E	10,000		10,000	C	150		41	E	620		170	E	NA
CYFLUTHRIN	68359-37-5	0.1		33	E	0.1		33	E	0.1		33	E	0.1		33	E	0.1		33	E	0.1		33	E	10
CYROMAZINE	66215-27-8	**[31] 1,700**		**[96] 5,300**	E	**[88] 4,900**		**[270] 15,000**	E	**[3,100] 170,000**		**[9,600] 190,000**	**[E] C**	**[8,800] 190,000**		**[27,000] 190,000**	**[E] C**	**[31] 1,700**		**[96] 5,300**	E	**[88] 4,900**		**[270] 15,000**	E	20
DDD, 4,4'-	72-54-8	**[0.3] 0.27**		**[33] 30**	E	**[1.4] 1.1**		**[150] 120**	E	16		1,800	E	16		1,800	E	16		1,800	E	16		1,800	E	10

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L				Residential			Nonresidential							
		Residential		Nonresidential		Residential		Nonresidential												
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		100 X GW MSC	Generic Value						
DDE, 4,4'-	72-55-9	**[0.21] 0.19**	**[46] 41** E	**[1] 0.8**	**[220] 170** E	4	870 E	4	870 E	4	870 E		4	870 E		4	870 E		10
DDT, 4,4'-	50-29-3	**[0.21] 0.19**	**[130] 110** E	0.55	330 E	0.55	330 E	0.55	330 E	0.55	330 E		0.55	330 E		0.55	330 E		5
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	40	10,000 C	40	10,000 C	4,000	10,000 C	4,000	10,000 C	10,000	10,000 C		10,000	10,000 C		10,000	10,000 C		5
DIALLATE	2303-16-4	**[1.2] 1.1**	**[0.7] 0.64** E	**[5.6] 4.5**	**[3.3] 2.6** E	**[120] 110**	**[70] 64** E	**[560] 450**	**[330] 260** E	**[1,200] 1,100**	**[700] 640** E		**[4,000] 4,000**	**[2,300] 2,300** E		NA			
DIAMINOTOLUENE, 2,4-	95-80-7	**[0.018] 0.016**	**[0.0036] 0.0032** E	**[0.085] 0.068**	**[0.017] 0.014** E	**[1.8] 1.6**	**[0.36] 0.32** E	**[8.5] 6.8**	**[1.7] 1.4** E	**[18] 16**	**[3.6] 3.2** E		**[85] 68**	**[17] 14** E		NA			
DIAZINON	333-41-5	0.1	0.14 E	0.1	0.14 E	10	14 E	10	14 E	0.1	0.14 E		0.1	0.14 E		30			
DIBENZO[A,H] ANTHRACENE	53-70-3	**[0.0055] 0.0052**	**[25] 23** E	0.06	270 E	0.06	270 E	0.06	270 E	0.06	270 E		0.06	270 E		5			
DIBENZOFURAN	132-64-9	**[4.2] 3.5**	**[110] 90** E	**[12] 9.7**	**[310] 250** E	**[420] 350**	**[11,000] 9,000** E	450	12,000 E	**[450] 350**	**[12,000] 9,000** E		450	12,000 E		15			
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.02	0.0092 E	0.02	0.0092 E	2	0.92 E	2	0.92 E	2	0.92 E		2	0.92 E		2	0.92 E		NA
DIBROMOBENZENE, 1,4-	106-37-6	**[42] 35**	**[170] 140** E	**[120] 97**	**[490] 400** E	2,000	8,200 E	2,000	8,200 E	**[42] 35**	**[170] 140** E		**[120] 97**	**[490] 400** E		20			
DIBROMOETHANE, 1,2-(ETHYLENE DIBROMIDE)	106-93-4	0.005	0.0012 E	0.005	0.0012 E	0.5	0.12 E	0.5	0.12 E	0.5	0.12 E		0.5	0.12 E		NA			
DIBROMOMETHANE	74-95-3	0.84	0.32 E	3.5	1.4 E	84	32 E	350	140 E	84	32 E		350	140 E		NA			
DIBUTYL PHTHALATE, N-	84-74-2	**[420] 350**	**[1,700] 1,400** E	**[1,200] 970**	**[4,900] 4,000** E	10,000	10,000 C	10,000	10,000 C	10,000	10,000 C		10,000	10,000 C		20			
DICAMBA	1918-00-9	400	45 E	400	45 E	40,000	4,500 E	40,000	4,500 E	400	45 E		400	45 E		NA			
DICHLOROACETIC ACID (HAA)	76-43-6	6	0.79 E	6	0.79 E	600	79 E	600	79 E	6	0.79 E		6	0.79 E		NA			
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.0012	0.00067 E	0.006	0.0034 E	0.12	**[0.07] 0.067** E	0.6	0.34 E	0.0012	**[0.0007] 0.00067** E		0.006	0.0034 E		NA			

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6	0.0012	0.00078	E	0.006	0.0039	E	0.12	0.078	E	0.6	0.39	E	0.0012	0.00078	E	0.006	0.0039	E	NA
DICHLOROBENZENE, 1,2-	95-50-1	60	59	E	60	59	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	6,000	5,900	E	NA
DICHLOROBENZENE, 1,3-	541-73-1	60	61	E	60	61	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	6,000	6,100	E	NA
DICHLOROBENZENE, P-	106-46-7	7.5	10	E	7.5	10	E	750	1,000	E	750	1,000	E	750	1,000	E	750	1,000	E	30
DICHLOROBENZIDINE, 3,3'-	91-94-1	**[0.16] 0.14**	**[8.8] 7.7**	E	**[0.76] 0.6**	**[42] 33**	E	**[16] 14**	**[880] 770**	E	**[76] 60**	**[4,200] 3,300**	E	**[160] 140**	**[8,800] 7,700**	E	310	17,000	E	10
DICHLORODIFLUORO-METHANE (FREON 12)	75-71-8	100	100	E	100	100	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
DICHLOROETHANE, 1,1-	75-34-3	3.1	0.75	E	16	3.9	E	310	75	E	1,600	390	E	31	7.5	E	160	39	E	NA
DICHLOROETHANE, 1,2-	107-06-2	0.5	0.1	E	0.5	0.1	E	50	10	E	50	10	E	5	1	E	5	1	E	NA
DICHLOROETHYLENE, 1,1-	75-35-4	0.7	0.19	E	0.7	0.19	E	70	19	E	70	19	E	7	1.9	E	7	1.9	E	NA
DICHLOROETHYLENE, CIS-1,2-	156-59-2	7	1.6	E	7	1.6	E	700	160	E	700	160	E	70	16	E	70	16	E	NA
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	10	2.3	E	10	2.3	E	1,000	230	E	1,000	230	E	100	23	E	100	23	E	NA
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.5	0.076	E	0.5	0.076	E	50	7.6	E	50	7.6	E	50	7.6	E	50	7.6	E	NA
DICHLOROPHENOL, 2,4-	120-83-2	2	1	E	2	1	E	200	100	E	200	100	E	2,000	1,000	E	2,000	1,000	E	NA
DICHLOROPHENOXY ACETIC ACID, 2,4- (2,4-D)	94-75-7	7	1.8	E	7	1.8	E	700	180	E	700	180	E	7,000	1,800	E	7,000	1,800	E	NA
DICHLOROPROPANE, 1,2-	78-87-5	0.5	0.11	E	0.5	0.11	E	50	11	E	50	11	E	5	1.1	E	5	1.1	E	NA
DICHLOROPROPENE, 1,3-	542-75-6	**[0.73] 0.65**	**[0.13] 0.12**	E	**[3.4] 2.7**	**[0.61] 0.48**	E	**[73] 65**	**[13] 12**	E	**[340] 270**	**[61] 48**	E	**[73] 65**	**[13] 12**	E	**[340] 270**	**[61] 48**	E	NA
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	20	5.3	E	20	5.3	E	2,000	530	E	2,000	530	E	2,000	530	E	2,000	530	E	NA
DICHLORVOS	62-73-7	**[0.25] 0.22**	**[0.059] 0.052**	E	**[1.2] 0.94**	**[0.28] 0.22**	E	**[25] 22**	**[5.9] 5.2**	E	**[120] 94**	**[28] 22**	E	**[0.25] 0.22**	**[0.059] 0.052**	E	**[1.2] 0.94**	**[0.28] 0.22**	E	NA
DICYCLOPENTADIENE	77-73-6	0.063	0.13	E	0.26	0.56	E	**[6] 6.3**	13	E	26	56	E	**[0.1] 0.063**	**[0.1] 0.13**	E	**[0.3] 0.26**	**[1] 0.56**	E	30
DIELDRIN	60-57-1	**[0.0046] 0.0041**	**[0.13] 0.11**	E	**[0.021] 0.017**	**[0.58] 0.47**	E	**[0.46] 0.41**	**[13] 11**	E	**[2.1] 1.7**	**[58] 47**	E	**[4.6] 4.1**	**[130] 110**	E	**[17] 17**	**[470] 470**	E	15
[DIETHANOLAMINE]	**[111-42-2]**	**[NA]**	**[NA]**		**[NA]**	**[NA]**		**[NA]**	**[NA]**		**[NA]**	**[NA]**		**[NA]**	**[NA]**		**[NA]**	**[NA]**		**[NA]**

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L														
		Residential				Nonresidential				Residential				Nonresidential				Residential				Nonresidential				
		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		
DIETHYL PHTHALATE	84-66-2	[3,300] 2,800		[1,000] 880	E	[9,300] 7,800		[2,900] 2,400	E	10,000		10,000	C	10,000		10,000	C	10,000		10,000	C	10,000		10,000	C	NA
DIFLUBENZURON	35367-38-5	20		52	E	20		52	E	20		52	E	20		52	E	20		52	E	20		52	E	20
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	60		8.2	E	60		8.2	E	6,000		820	E	6,000		820	E	60		8.2	E	60		8.2	E	NA
DIMETHOATE	60-51-5	[0.83] 7.6		[0.32] 2.9	E	[2.3] 21		[0.89] 8.1	E	[83] 760		[32] 290	E	[230] 2,100		[89] 810	E	[830] 7,600		[320] 2,900	E	[2,300] 21,000		[890] 8,100	E	NA
DIMETHOXYBENZIDINE, 3,3-	119-90-4	[0.046] 0.041		[0.15] 0.14	E	[0.21] 0.17		[0.71] 0.57	E	[5] 4.1		[15] 14	E	[21] 17		[71] 57	E	[46] 41		[150] 140	E	[210] 170		[710] 570	E	20
DIMETHRIN	70-38-2	3.6		240	E	3.6		240	E	3.6		240	E	3.6		240	E	3.6		240	E	3.6		240	E	10
DIMETHYLAMINOAZO BENZENE, P-	60-11-7	[0.016] 0.014		[0.042] 0.037	E	[0.074] 0.059		[0.19] 0.15	E	[1.6] 1.4		[4.2] 3.7	E	[7.4] 5.9		[19] 15	E	[16] 14		[42] 37	E	[74] 59		[190] 150	E	20
DIMETHYLANILINE, N,N-	121-69-7	[8.3] 2.4		[4.7] 1.3	E	[23] 10		[13] 5.6	E	[830] 240		[470] 130	E	[2,300] 1,000		[1,300] 560	E	[830] 240		[470] 130	E	[2,300] 1,000		[1,300] 560	E	NA
DIMETHYLBENZIDINE, 3,3-	119-93-7	[0.0066] 0.0059		[0.36] 0.33	E	[0.031] 0.025		[1.7] 1.4	E	[0.7] 0.59		[36] 33	E	[3.1] 2.5		[170] 140	E	[7] 5.9		[360] 330	E	[31] 25		[1,700] 1,400	E	10
DIMETHYL METHYLPHOSPHONATE	756-79-6	10		1.2	E	10		1.2	E	1,000		120	E	1,000		120	E	10		1.2	E	10		1.2	E	NA
DIMETHYLPHENOL, 2,4-	105-67-9	[83] 69		[36] 30	E	[230] 190		[100] 83	E	[8,300] 6,900		[3,600] 3,000	E	10,000		[10,000] 8,300	[C] E	10,000		10,000	C	10,000		10,000	C	NA
DINITROBENZENE, 1,3-	99-65-0	0.1		0.049	E	0.1		0.049	E	10		4.9	E	10		4.9	E	100		49	E	100		49	E	NA
DINITROPHENOL, 2,4-	51-28-5	[8.3] 6.9		[0.94] 0.78	E	[23] 19		[2.6] 2.1	E	[830] 690		[94] 78	E	[2,300] 1,900		[260] 210	E	[8,300] 6,900		[940] 780	E	[23,000] 19,000		[2,600] 2,100	E	NA
DINITROTOLUENE, 2,4-	121-14-2	[0.24] 0.21		[0.057] 0.05	E	[1.1] 0.88		[0.26] 0.21	E	[24] 21		[6] 5	E	[110] 88		[26] 21	E	[240] 210		[57] 50	E	[1,100] 880		[260] 210	E	NA
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	[0.049] 0.043		[0.015] 0.013	E	[0.23] 0.18		[0.068] 0.053	E	[5] 4.3		[2] 1.3	E	[23] 18		[7] 5.3	E	[49] 43		[15] 13	E	[230] 180		[68] 53	E	NA
DINOSEB	88-85-7	0.7		0.29	E	0.7		0.29	E	70		29	E	70		29	E	700		290	E	700		290	E	NA

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L								
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
DIOXANE, 1,4-	123-91-1	**[0.64] 0.65**	**[0.084] 0.085** E	**[3.2] 2.7**	**[0.42] 0.35** E	**[64] 65**	**[8.4] 8.5** E	**[320] 270**	**[42] 35** E	**[6.4] 6.5**	**[0.84] 0.85** E	**[32] 27**	**[4.2] 3.5** E	NA
DIPHENAMID	957-51-7	20	12 E	20	12 E	2,000	1,200 E	2,000	1,200 E	20	12 E	20	12 E	NA
DIPHENYLAMINE	122-39-4	**[100] 350**	**[59] 210** E	**[290] 970**	**[170] 570** E	**[10,000] 30,000**	**[5,900] 18,000** E	**[29,000] 30,000**	**[17,000] 18,000** E	30,000	18,000 E	30,000	18,000 E	NA
DIPHENYLHYDRAZINE, 1,2-	122-66-7	**[0.091] 0.022**	**[0.16] 0.039** E	**[0.43] 0.11**	**[0.76] 0.19** E	**[9.1] 2.2**	**[16] 3.9** E	**[25] 11**	**[44] 19** E	**[25] 2.2**	**[44] 3.9** E	**[25] 11**	**[44] 19** E	30
DIQUAT	85-00-7	2	0.24 E	2	0.24 E	200	24 E	200	24 E	2	0.24 E	2	0.24 E	NA
DISULFOTON	298-04-4	0.07	0.18 E	0.07	0.18 E	7	18 E	7	18 E	70	180 E	70	180 E	20
DITHIANE, 1,4-	505-29-3	8	1.3 E	8	1.3 E	800	130 E	800	130 E	8	1.3 E	8	1.3 E	NA
DIURON	330-54-1	**[8.3] 6.9**	**[7.1] 5.9** E	**[23] 19**	**[20] 16** E	**[830] 690**	**[710] 590** E	**[2,300] 1,900**	**[2,000] 1,600** E	**[8.3] 6.9**	**[7.1] 5.9** E	**[23] 19**	**[20] 16** E	NA
ENDOSULFAN	115-29-7	**[25] 21**	**[130] 110** E	48	250 E	48	250 E	48	250 E	48	250 E	48	250 E	15
ENDOSULFAN I (ALPHA)	959-98-8	**[25] 21**	**[130] 110** E	50	260 E	50	260 E	50	260 E	**[25] 21**	**[130] 110** E	50	260 E	15
ENDOSULFAN II (BETA)	33213-65-9	**[25] 21**	**[150] 120** E	45	260 E	45	260 E	45	260 E	**[25] 21**	**[150] 120** E	45	260 E	15
ENDOSULFAN SULFATE	1031-07-8	12	70 E	12	70 E	12	70 E	12	70 E	12	70 E	12	70 E	15
ENDOTHALL	145-73-3	10	4.1 E	10	4.1 E	1,000	410 E	1,000	410 E	10	4.1 E	10	4.1 E	NA
ENDRIN	72-20-8	0.2	5.5 E	0.2	5.5 E	20	550 E	20	550 E	0.2	5.5 E	0.2	5.5 E	15
EPICHLOROHYDRIN	106-89-8	0.21	0.042 E	0.88	0.17 E	21	4.2 E	88	17 E	21	4.2 E	88	17 E	NA
ETHEPHON	16672-87-0	**[21] 17**	**[2.4] 2** E	**[58] 49**	**[6.7] 5.7** E	**[2,100] 1,700**	**[240] 200** E	**[5,800] 4,900**	**[670] 570** E	**[21] 17**	**[2.4] 2** E	**[58] 49**	**[6.7] 5.7** E	NA
ETHION	563-12-2	**[2.1] 1.7**	**[46] 37** E	**[5.8] 4.9**	**[130] 110** E	85	1,900 E	85	1,900 E	**[2.1] 1.7**	**[46] 37** E	**[5.8] 4.9**	**[130] 110** E	15
ETHOXYETHANOL, 2- (EGEE)	110-80-5	42	5.9 E	180	25 E	4,200	590 E	10,000	2,500 E	4,200	590 E	10,000	2,500 E	NA
ETHYL ACETATE	141-78-6	15	3.9 E	62	16 E	1,500	390 E	6,200	1,600 E	1,500	390 E	6,200	1,600 E	NA
ETHYL ACRYLATE	140-88-5	**[1.5] 1.4**	**[0.58] 0.54** E	**[7.0] 5.7**	**[2.7] 2.2** E	**[150] 140**	**[58] 54** E	**[700] 570**	**[270] 220** E	**[150] 140**	**[58] 54** E	**[700] 570**	**[270] 220** E	NA
ETHYL BENZENE	100-41-4	70	46 E	70	46 E	7,000	4,600 E	7,000	4,600 E	7,000	4,600 E	7,000	4,600 E	NA

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REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L												
		Residential		Nonresidential		Residential			Nonresidential			Residential		Nonresidential				
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
ETHYL DIPROPYL THIOCARBAMATE, S-(EPTC)	759-94-4	**[100] 170**	**[71] 120** E	**[290] 490**	**[210] 350** E	10,000	**[7,100] 10,000**	**[E] C**	10,000	10,000 C		**[100] 170**	**[71] 120** E	**[290] 490**	**[210] 350** E			NA
ETHYL ETHER	60-29-7	**[830] 690**	**[230] 190** E	**[2,300] 1,900**	**[650] 530** E	10,000	10,000 C		10,000	10,000 C		**[830] 690**	**[230] 190** E	**[2,300] 1,900**	**[650] 530** E			NA
ETHYL METHACRYLATE	97-63-2	63	10 E	260	43 E	6,300	1,000 E		10,000	4,300 E		63	10 E	260	43 E			NA
ETHYLENE CHLORHYDRIN	107-07-3	**[83] 69**	**[10] 7.9** E	**[230] 190**	**[26] 22** E	**[8,300] 6,900**	**[950] 790** E		10,000	**[2,600] 2,200** E		**[83] 69**	**[10] 7.9** E	**[230] 190**	**[26] 22** E			NA
ETHYLENE GLYCOL	107-21-1	1,400	170 E	1,400	170 E	10,000	10,000 C		10,000	10,000 C		10,000	10,000 C	10,000	10,000 C			NA
ETHYLENE THIOUREA (ETU)	96-45-7	**[0.33] 0.28**	**[0.037] 0.031** E	**[0.93] 0.78**	**[0.1] 0.087** E	**[33] 28**	**[3.7] 3.1** E		**[93] 78**	**[10] 8.7** E		**[330] 280**	**[37] 31** E	**[930] 780**	**[100] 87** E			NA
ETHYLP-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	**[0.042] 0.035**	**[0.13] 0.11** E	**[0.12] 0.097**	**[0.37] 0.3** E	**[4.2] 3.5**	**[13] 11** E		**[12] 9.7**	**[37] 30** E		**[0.042] 0.035**	**[0.13] 0.11** E	**[0.12] 0.097**	**[0.37] 0.3** E			20
FENAMIPHOS	22224-92-6	0.07	0.06 E	0.07	0.06 E	7	6 E		7	6 E		0.07	0.06 E	0.07	0.06 E			NA
FENVALERATE (PYDRIN)	51630-58-1	8.5	94 E	8.5	94 E	8.5	94 E		8.5	94 E		8.5	94 E	8.5	94 E			15
FLUOMETURON	2164-17-2	9	2.5 E	9	2.5 E	900	250 E		900	250 E		9	2.5 E	9	2.5 E			NA
FLUORANTHENE	206-44-0	26	3,200 E	26	3,200 E	26	3,200 E		26	3,200 E		26	3,200 E	26	3,200 E			10
FLUORENE	86-73-7	**[170] 140**	**[3,400] 2,800** E	190	3,800 E	190	3,800 E		190	3,800 E		190	3,800 E	190	3,800 E			15
FLUOROTRICHLORO METHANE (FREON 11)	75-69-4	200	87 E	200	87 E	10,000	8,700 E		10,000	8,700 E		10,000	8,700 E	10,000	8,700 E			NA
FONOFOS	944-22-9	1	2.9 E	1	2.9 E	100	290 E		100	290 E		1	2.9 E	1	2.9 E			20
FORMALDEHYDE	50-00-0	100	12 E	100	12 E	10,000	1,200 E		10,000	1,200 E		10,000	1,200 E	10,000	1,200 E			NA
FORMIC ACID	64-18-6	0.063	0.0071 E	0.26	0.029 E	6.3	0.71 E		26	2.9 E		0.63	0.071 E	2.6	0.29 E			NA
FOSETYL-AL	39148-24-8	**[13,000] 8,700**	**[12,000] 7,700** E	**[35,000] 24,000**	**[31,000] 21,000** E	190,000	190,000 C		190,000	190,000 C		**[13,000] 8,700**	**[12,000] 7,700** E	**[35,000] 24,000**	**[31,000] 21,000** E			NA
FURAN	110-00-9	**[4.2] 3.5**	**[1.8] 1.5** E	**[12] 9.7**	**[5.2] 4.2** E	**[420] 350**	**[180] 150** E		**[1,200] 970**	**[520] 420** E		**[420] 350**	**[180] 150** E	**[1,200] 970**	**[520] 420** E			NA

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L												
		Residential		Nonresidential		Residential		Nonresidential				Residential		Nonresidential				
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
FURFURAL	98-01-1	**[11] 1.9**	**[1.4] 0.24**	E	**[35] 7.8**	**[4.4] 0.99**	E	**[1,100] 190**	**[140] 24**	E	**[3,500] 780**	**[440] 99**	E	**[11] 1.9**	**[1.4] 0.24**	E	**[35] 7.8**	**[4.4] 0.99**	E	NA
GLYPHOSATE	1071-83-6	70	620	E	70	620	E	7,000	62,000	E	7,000	62,000	E	70	620	E	70	620	E	15
HEPTACHLOR	76-44-8	0.04	0.68	E	0.04	0.68	E	4	68	E	4	68	E	18	310	E	18	310	E	15
HEPTACHLOR EPOXIDE	1024-57-3	0.02	1.1	E	0.02	1.1	E	2	110	E	2	110	E	20	1,100	E	20	1,100	E	10
HEXACHLOROBENZENE	118-74-1	0.1	0.96	E	0.1	0.96	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	0.6	5.8	E	15
HEXACHLOROBUTADIENE	87-68-3	**[0.94] 0.84**	**[11] 10**	E	**[4.4] 3.5**	**[52] 42**	E	**[94] 84**	**[1,100] 1,000**	E	290	3,400	E	290	3,400	E	290	3,400	E	15
HEXACHLOROCYCLO PENTADIENE	77-47-4	5	91	E	5	91	E	180	3,300	E	180	3,300	E	180	3,300	E	180	3,300	E	15
HEXACHLOROETHANE	67-72-1	0.1	0.56	E	0.1	0.56	E	10	56	E	10	56	E	10	56	E	10	56	E	15
HEXANE	110-54-3	150	1,400	E	**[620] 580**	**[5,600] 5,300**	E	950	8,700	E	950	8,700	E	150	1,400	E	**[620] 580**	**[5,600] 5,300**	E	15
HEXAZINONE	51235-04-2	40	8.5	E	40	8.5	E	4,000	850	E	4,000	850	E	40	8.5	E	40	8.5	E	NA
HEXYTHIAZOX (SAVEY)	78587-05-0	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	50	820	E	15
HMX	2691-41-0	40	4.8	E	40	4.8	E	500	60	E	500	60	E	40	4.8	E	40	4.8	E	NA
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.001	0.00011	E	0.0051	0.00057	E	0.1	0.011	E	0.51	0.057	E	0.01	0.0011	E	0.051	0.0057	E	NA
HYDROQUINONE	123-31-9	**[1.2] 1.1**	**[0.16] 0.15**	E	**[5.7] 4.5**	**[0.77] 0.61**	E	**[120] 110**	**[16] 15**	E	**[570] 450**	**[77] 61**	E	**[1,200] 1,100**	**[160] 150**	E	**[5,700] 4,500**	**[770] 610**	E	NA
INDENO[1,2,3-CD]PYRENE	193-39-5	**[0.019] 0.018**	**[1,500] 1,400**	E	**[0.28] 0.23**	**[22,000] 18,000**	E	**[1.9] 1.8**	**[150,000] 140,000**	E	6.2	190,000	C	6.2	190,000	C	6.2	190,000	C	5
IPRODIONE	36734-19-7	**[170] 1.5**	**[490] 4.3**	E	**[470] 6.2**	**[1,300] 18**	E	**[1,300] 150**	**[3,700] 430**	E	**[1,300] 620**	**[3,700] 1,800**	E	**[170] 1.5**	**[490] 4.3**	E	**[470] 6.2**	**[1,300] 18**	E	20
ISOBUTYL ALCOHOL	78-83-1	**[1,300] 1,000**	**[340] 260**	E	**[3,500] 2,900**	**[910] 760**	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ISOPHORONE	78-59-1	10	1.9	E	10	1.9	E	1,000	190	E	1,000	190	E	10,000	1,900	E	10,000	1,900	E	NA
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	70	8.1	E	70	8.1	E	7,000	810	E	7,000	810	E	70	8.1	E	70	8.1	E	NA

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
KEPONE	143-50-0	[0.0073] 0.0065	[1] 0.89	E	[0.034] 0.027	[4.7] 3.7	E	[0.73] 0.65	[100] 89	E	[3.4] 2.7	[470] 370	E	[7.3] 6.5	[1,000] 890	E	[34] 27	[4,700] 3,700	E	10
MALATHION	121-75-5	50	170	E	50	170	E	5,000	10,000	C	5,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20
MALEIC HYDRAZIDE	123-33-1	400	47	E	400	47	E	40,000	4,700	E	40,000	4,700	E	400	47	E	400	47	E	NA
MANEB	12427-38-2	[21] 1.1	[2] 0.12	E	[58] 4.5	[6.6] 0.51	E	[2,100] 110	[240] 12	E	[2,300] 450	[260] 51	E	[21] 1.1	[2] 0.12	E	[58] 4.5	[6.6] 0.51	E	NA
MERPHOS OXIDE	78-48-8	[0.13] 3.5	[17] 460	E	[0.35] 9.7	[46] 1,300	E	[13] 230	[1,700] 10,000	[E] C	[35] 230	[4,600] 10,000	[E] C	[0.13] 3.5	[17] 460	E	[0.35] 9.7	[46] 1,300	E	10
METHACRYLONITRILE	126-98-7	[0.42] 0.35	[0.069] 0.057	E	[1.2] 0.97	[0.2] 0.16	E	[42] 35	[6.9] 5.7	E	[120] 97	[20] 16	E	[0.42] 0.35	[0.069] 0.057	E	[1.2] 0.97	[0.2] 0.16	E	NA
METHAMIDOPHOS	10265-92-6	[0.21] 0.17	[0.026] 0.021	E	[0.58] 0.49	[0.072] 0.061	E	[21] 17	[2.6] 2.1	E	[58] 49	[7.2] 6.1	E	[0.21] 0.17	[0.026] 0.021	E	[0.58] 0.49	[0.072] 0.061	E	NA
METHANOL	67-56-1	[840] 4,200	[99] 500	E	[3,500] 10,000	[410] 2,100	E	10,000	[9,900] 10,000	[E] C	10,000	10,000	C	10,000	[9,900] 10,000	[E] C	10,000	10,000	C	NA
METHOMYL	16752-77-5	20	3.2	E	20	3.2	E	2,000	320	E	2,000	320	E	20	3.2	E	20	3.2	E	NA
METHOXYCHLOR	72-43-5	4	630	E	4	630	E	4.5	710	E	4.5	710	E	4.5	710	E	4.5	710	E	10
METHOXYETHANOL, 2-	109-86-4	4.2	0.48	E	18	2	E	420	48	E	1,800	200	E	42	4.8	E	180	20	E	NA
METHYL ACETATE	79-20-9	[4,200] 3,500	[780] 650	E	[10,000] 9,700	[2,200] 1,800	E	10,000	10,000	C	10,000	10,000	C	[4,200] 3,500	[780] 650	E	[10,000] 9,700	[2,200] 1,800	E	NA
METHYL ACRYLATE	96-33-3	[4] 4.2	1	E	18	[5] 4.5	E	420	100	E	1,800	450	E	420	100	E	1,800	450	E	NA
METHYL CHLORIDE	74-87-3	3	0.38	E	3	0.38	E	300	38	E	300	38	E	300	38	E	300	38	E	NA
METHYL ETHYL KETONE	78-93-3	400	76	E	400	76	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	10,000	7,600	E	NA
METHYL HYDRAZINE	60-34-4	0.0042	0.00048	E	0.018	0.002	E	0.42	0.048	E	1.8	0.2	E	0.042	0.0048	E	0.18	0.02	E	NA
METHYL ISOBUTYL KETONE	108-10-1	[330] 280	[51] 43	E	[930] 780	[140] 120	E	10,000	[5,100] 4,300	E	10,000	10,000	C	10,000	[5,100] 4,300	E	10,000	10,000	C	NA
METHYL ISOCYANATE	624-83-9	0.21	0.029	E	0.88	0.12	E	21	2.9	E	88	12	E	0.21	0.029	E	0.88	0.12	E	NA
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	6.3	1.6	E	26	6.4	E	630	160	E	2,600	640	E	6.3	1.6	E	26	6.4	E	NA

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		TDS ≤ 2500 mg/L				TDS > 2500 mg/L								
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
METHYL METHACRYLATE	80-62-6	150	20 E	620	84 E	10,000	2,000 E	10,000	8,400 E	10,000	2,000 E	10,000	8,400 E	NA
METHYL METHANESULFONATE	66-27-3	**[0.74] 0.66**	**[0.092] 0.082** E	**[3.4] 2.7**	**[0.42] 0.34** E	**[74] 66**	**[9.2] 8.2** E	**[340] 270**	**[42] 34** E	**[0.74] 0.66**	**[0.092] 0.082** E	**[3.4] 2.7**	**[0.42] 0.34** E	NA
METHYL PARATHION	298-00-0	0.1	0.21 E	0.1	0.21 E	10	21 E	10	21 E	100	210 E	100	210 E	30
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	8.4	47 E	35	200 E	840	4,700 E	3,500	10,000 C	8.4	47 E	35	200 E	15
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	2	0.28 E	2	0.28 E	200	28 E	200	28 E	20	2.8 E	20	2.8 E	NA
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	3	1.2 E	3	1.2 E	300	120 E	300	120 E	3,000	1,200 E	3,000	1,200 E	NA
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	**[0.23] 0.21**	**[1.8] 1.6** E	**[3.4] 2.7**	**[26] 21** E	**[23] 21**	**[180] 160** E	**[340] 270**	**[2,600] 2,100** E	**[0.23] 0.21**	**[1.8] 1.6** E	**[3.4] 2.7**	**[26] 21** E	15
METHYLNAPHTHALENE, 2-	91-57-6	**[17] 0.63**	**[680] 25** E	**[47] 2.6**	**[1,900] 100** E	**[1,700] 63**	**[68,000] 2,500** E	**[2,500] 260**	**[100,000] 10,000** E	**[17] 0.63**	**[680] 25** E	**[47] 2.6**	**[1,900] 100** E	15
METHYLSTYRENE, ALPHA	98-83-9	**[290] 240**	**[510] 420** E	**[820] 680**	**[1,400] 1,200** E	10,000	10,000 C	10,000	10,000 C	**[290] 240**	**[510] 420** E	**[820] 680**	**[1,400] 1,200** E	30
METOLACHLOR	51218-45-2	70	40 E	70	40 E	7,000	4,000 E	7,000	4,000 E	70	40 E	70	40 E	NA
METRIBUZIN	21087-64-9	7	2.4 E	7	2.4 E	700	240 E	700	240 E	7	2.4 E	7	2.4 E	NA
MEVINPHOS	**7786-34-7**	**0.087**	**0.019 E**	**0.24**	**0.053 E**	**8.7**	**1.9 E**	**24**	**5.3 E**	**0.087**	**0.019 E**	**0.24**	**0.053 E**	**NA**
MONOCHLOROACETIC ACID (HAA)	79-11-8	6	0.67 E	6	0.67 E	600	67 E	600	67 E	6	0.67 E	6	0.67 E	NA
NAPHTHALENE	91-20-3	10	25 E	10	25 E	1,000	2,500 E	1,000	2,500 E	**[3,000] 1,000**	**[7,500] 2,500** E	**[3,000] 1,000**	**[7,500] 2,500** E	30
NAPHTHYLAMINE, 1-	134-32-7	**[0.041] 0.036**	**[0.33] 0.29** E	**[0.19] 0.15**	**[1.5] 1.2** E	**[4.1] 3.6**	**[33] 29** E	**[19] 15**	**[150] 120** E	**[41] 3.6**	**[330] 29** E	**[190] 15**	**[1,500] 120** E	15
NAPHTHYLAMINE, 2-	91-59-8	**[0.041] 0.036**	**[0.013] 0.012** E	**[0.19] 0.15**	**[0.062] 0.049** E	**[4.1] 3.6**	**[1.3] 1.2** E	**[19] 15**	**[6.2] 4.9** E	**[41] 36**	**[13] 12** E	**[190] 150**	**[62] 49** E	NA
NAPROPAMIDE	15299-99-7	420	970 E	1,200	2,800 E	7,000	16,000 E	7,000	16,000 E	420	970 E	1,200	2,800 E	30
NITROANILINE, O-	88-74-4	**[42] 0.011**	**[8] 0.002** E	**[120] 0.044**	**[21] 0.0079** E	**[4,200] 1.1**	**[750] 0.2** E	**[12,000] 4.4**	**[2,100] 0.79** E	**[42] 0.011**	**[8] 0.002** E	**[120] 0.044**	**[21] 0.0079** E	NA
NITROANILINE, P-	100-01-6	**[3.7] 3.3**	**[0.55] 0.49** E	**[17] 14**	**[2.5] 2.1** E	**[370] 330**	**[55] 49** E	**[1,700] 1,400**	**[250] 210** E	**[3.7] 3.3**	**[0.55] 0.49** E	**[17] 14**	**[2.5] 2.1** E	NA

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REGULATED SUBSTANCE	CASRN	Used Aquifers										Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L												
		Residential		Nonresidential		Residential		Nonresidential				Residential		Nonresidential				
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			100 X GW MSC	Generic Value	100 X GW MSC	Generic Value			
NITROBENZENE	98-95-3	**[8.3] 0.12**	**[3.6] 0.052**	E	**[23] 0.63**	**[10] 0.27**	E	**[830] 12**	**[360] 5.2**	E	**[2,300] 63**	**[1,000] 27**	E	**[8,300] 12**	**[3,600] 5.2**	E	**[10,000] 63**	**[10,000] 27**	C	NA
NITROGUANIDINE	556-88-7	70	7.8	E	70	7.8	E	7,000	780	E	7,000	780	E	70	7.8	E	70	7.8	E	NA
NITROPHENOL, 2-	88-75-5	**[33] 28**	**[6.7] 5.7**	E	**[93] 78**	**[19] 16**	E	**[3,300] 2,800**	**[670] 570**	E	**[9,300] 7,800**	**[1,900] 1,600**	E	**[33,000] 2,800**	**[6,700] 570**	E	**[93,000] 7,800**	**[19,000] 1,600**	E	NA
NITROPHENOL, 4-	100-02-7	6	4.1	E	6	4.1	E	600	410	E	600	410	E	**[6,000] 600**	**[4,100] 410**	E	**[6,000] 600**	**[4,100] 410**	E	NA
NITROPROPANE, 2-	79-46-9	0.0018	0.00029	E	0.0093	0.0015	E	0.18	0.029	E	0.93	0.15	E	0.018	0.0029	E	0.093	0.015	E	NA
NITROSODIETHYLAMINE, N-	55-18-5	0.000045	0.0000079	E	0.00058	0.0001	E	0.0045	**[0.0008] 0.00079**	E	0.058	0.01	E	0.00045	**[0.00008] 0.000079**	E	0.0058	0.001	E	NA
NITROSODIMETHYLAMINE, N-	62-75-9	0.00014	0.000019	E	0.0018	0.00024	E	0.014	0.0019	E	0.18	0.024	E	0.0014	0.00019	E	0.018	0.0024	E	NA
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	**[0.014] 0.0031**	**[0.017] 0.0038**	E	**[0.063] 0.016**	**[0.078] 0.02**	E	**[1.4] 0.31**	**[1.7] 0.38**	E	**[6.3] 1.6**	**[7.8] 2**	E	**[14] 0.31**	**[17] 0.38**	E	**[63] 1.6**	**[78] 2**	E	NA
NITROSODI-N-PROPYLAMINE, N-	621-64-7	**[0.01] 0.0025**	**[0.0014] 0.00035**	E	**[0.049] 0.013**	**[0.0068] 0.0018**	E	**[1] 0.25**	**[0.14] 0.035**	E	**[4.9] 1.3**	**[0.68] 0.18**	E	**[10] 0.025**	**[1.4] 0.0035**	E	**[49] 0.13**	**[6.8] 0.018**	E	NA
NITROSODIPHENYLAMINE, N-	86-30-6	**[15] 1.9**	**[23] 3**	E	**[69] 9.6**	**[110] 15**	E	**[1,500] 190**	**[2,300] 300**	E	**[3,500] 960**	**[5,500] 1,500**	E	**[3,500] 190**	**[5,500] 300**	E	**[3,500] 960**	**[5,500] 1,500**	E	30
NITROSO-N-ETHYLUREA, N-	759-73-9	**[0.00084] 0.00079**	**[0.000097] 0.000091**	E	**[0.013] 0.01**	**[0.0015] 0.0012**	E	**[0.08] 0.079**	**[0.0097] 0.0091**	E	**[1.3] 1**	**[0.15] 0.12**	E	**[0.8] 0.79**	**[0.097] 0.091**	E	**[13] 10**	**[1.5] 1.2**	E	NA
OCTYL PHTHALATE, DI-N-	117-84-0	**[42] 35**	10,000	C	**[120] 97**	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	300	10,000	C	5
OXAMYL (VYDATE)	23135-22-0	20	2.6	E	20	2.6	E	2,000	260	E	2,000	260	E	20	2.6	E	20	2.6	E	NA
PARAQUAT	1910-42-5	3	120	E	3	120	E	300	12,000	E	300	12,000	E	3	120	E	3	120	E	15

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential				Nonresidential			Residential			Nonresidential			Residential			Nonresidential		
		100 X GW MSC	Generic Value			100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
PARATHION	56-38-2	[25] 0.1	[150] 0.59	E	[70] 0.29	[410] 1.7	E	[2,000] 10	[10,000] 59	[C] E	[2,000] 29	[10,000] 170	[C] E	[25] 0.1	[150] 0.59	E	[70] 0.29	[410] 1.7	E	15
PCBS, TOTAL (POLYCHLORINATED BIPHENLYS) (AROCLORS)	**1336-36-3**	**0.05**	**9.8**	**E**	**0.05**	**9.8**	**E**	**5**	**980**	**E**	**5**	**980**	**E**	**0.05**	**9.8**	**E**	**0.05**	**9.8**	**E**	**10**
PCB-1016 (AROCLOR)	12674-11-2	[0.037] 0.24	[10] 66	E	[0.17] 0.68	[47] 190	E	[4] 24	[1,000] 6,600	E	[17] 25	[4,700] 6,900	E	[0.04] 0.24	[10] 66	E	[0.17] 0.68	[47] 190	E	10
PCB-1221 (AROCLOR)	11104-28-2	[0.037] 0.033	[0.18] 0.16	E	[0.17] 0.14	[0.83] 0.68	E	[3.7] 3.3	[18] 16	E	[17] 14	[83] 68	E	[0.037] 0.033	[0.18] 0.16	E	[0.17] 0.14	[0.83] 0.68	E	20
PCB-1232 (AROCLOR)	11141-16-5	[0.037] 0.033	[0.14] 0.13	E	[0.17] 0.14	[0.7] 0.54	E	[3.7] 3.3	[14] 13	E	[17] 14	[66] 54	E	[0.037] 0.033	[0.14] 0.13	E	[0.17] 0.14	[0.7] 0.54	E	20
PCB-1242 (AROCLOR)	53469-21-9	[0.037] 0.033	4	E	[0.17] 0.14	[20] 17	E	[3.7] 3.3	[440] 400	E	10	1,200	E	[0.037] 0.033	4	E	[0.17] 0.14	[20] 17	E	10
PCB-1248 (AROCLOR)	12672-29-6	[0.037] 0.033	[18] 16	E	[0.17] 0.14	[81] 67	E	[3.7] 3.3	[1,800] 1,600	E	5.4	2,600	E	[0.037] 0.033	[18] 16	E	[0.17] 0.14	[81] 67	E	10
PCB-1254 (AROCLOR)	11097-69-1	[0.037] 0.069	[75] 140	E	[0.17] 0.19	[340] 380	E	[3.7] 5.7	[7,500] 10,000	[E] C	5.7	10,000	C	[0.037] 0.069	[75] 140	E	[0.17] 0.19	[340] 380	E	5
PCB-1260 (AROCLOR)	11096-82-5	[0.037] 0.033	[170] 150	E	[0.17] 0.14	[770] 630	E	[3.7] 3.3	[17,000] 15,000	E	8	36,000	E	[0.037] 0.033	[170] 150	E	[0.17] 0.14	[770] 630	E	5
PEBULATE	1114-71-2	[210] 170	[350] 290	E	[580] 490	[980] 830	E	9,200	10,000	C	9,200	10,000	C	[210] 170	[350] 290	E	[580] 490	[980] 830	E	30
PENTACHLOROBENZENE	608-93-5	[3.3] 2.8	[260] 220	E	[9.3] 7.8	[750] 620	E	74	5,900	E	74	5,900	E	74	5,900	E	74	5,900	E	10
PENTACHLOROETHANE	76-01-7	[0.81] 0.72	[3.9] 3.5	E	[3.8] 3	[19] 15	E	[81] 72	[390] 350	E	[380] 300	[1,900] 1,500	E	[0.81] 0.72	[3.9] 3.5	E	[3.8] 3	[19] 15	E	20
PENTACHLORO NITROBENZENE	82-68-8	[0.28] 0.25	[6] 5	E	1	[26] 20	E	[28] 25	[560] 500	E	44	870	E	44	870	E	44	870	E	15
PENTACHLOROPHENOL	87-86-5	0.1	5	E	0.1	5	E	10	500	E	10	500	E	100	5,000	E	100	5,000	E	10

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		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
PERFLUOROBUTANE SULFONATE (PFBS)	**375-73-5**	**69**	**NA**	**C**	**190**	**NA**	**C**	**6,900**	**NA**	**C**	**10,000**	**NA**	**C**	**69**	**NA**	**C**	**190**	**NA**	**C**	**NA**
PERFLUOROOCTANE SULFONATE (PFOS)	**1763-23-1**	**0.007**	**NA**	**E**	**0.007**	**NA**	**E**	**0.7**	**NA**	**E**	**0.7**	**NA**	**E**	**0.007**	**NA**	**E**	**0.007**	**NA**	**E**	**NA**
PERFLUOROOCTANOIC ACID (PFOA)	**335-67-1**	**0.007**	**NA**	**E**	**0.007**	**NA**	**E**	**0.7**	**NA**	**E**	**0.7**	**NA**	**E**	**0.007**	**NA**	**E**	**0.007**	**NA**	**E**	**NA**
PHENACETIN	62-44-2	**[33] 30**	**[13] 12**	E	**[150] 120**	**[58] 46**	E	**[3,300] 3,000**	**[1,300] 1,200**	E	**[15,000] 12,000**	**[5,800] 4,600**	E	**[33,000] 30,000**	**[13,000] 12,000**	E	76,000	29,000	E	NA
PHENANTHRENE	85-01-8	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	110	10,000	E	10
PHENOL	108-95-2	200	33	E	200	33	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	20,000	3,300	E	NA
PHENYL MERCAPTAN	108-98-5	**[4,200] 3.5**	**[6,400] 5.3**	E	**[12] 9.7**	**[18] 15**	E	**[420] 350**	**[640] 530**	E	**[1,200] 970**	**[1,800] 1,500**	E	**[4.2] 3.5**	**[6.4] 5.3**	E	**[12] 9.7**	**[18] 15**	E	30
PHENYLENEDIAMINE, M-	108-45-2	**[25] 21**	**[3.5] 3**	E	**[70] 58**	**[9.9] 8.2**	E	**[2,500] 2,100**	**[350] 300**	E	**[7,000] 5,800**	**[990] 820**	E	**[25,000] 21,000**	**[3,500] 3,000**	E	**[70,000] 58,000**	**[9,900] 8,200**	E	NA
PHENYLPHENOL, 2-	90-43-7	**[38] 34**	**[550] 490**	E	**[180] 140**	**[2,600] 2,000**	E	**[3,800] 3,400**	**[55,000] 49,000**	E	**[18,000] 14,000**	190,000	C	**[38,000] 34,000**	190,000	C	70,000	190,000	C	15
PHORATE	298-02-2	**[0.83] 0.69**	**[1.8] 1.5**	E	**[2] 1.9**	**[4.9] 4.1**	E	**[83] 69**	**[180] 150**	E	**[230] 190**	**[490] 410**	E	**[0.83] 0.69**	**[1.8] 1.5**	E	**[2] 1.9**	**[4.9] 4.1**	E	30
PHTHALIC ANHYDRIDE	85-44-9	**[8,300] 4.2**	**[2,600] 1.3**	E	**[23,000] 18**	**[7,100] 5.6**	E	**[190,000] 420**	**[190,000] 130**	**[C] E**	**[190,000] 1,800**	**[190,000] 560**	**[C] E**	**[190,000] 420**	**[190,000] 130**	**[C] E**	**[190,000] 1,800**	**[190,000] 560**	C	NA
PICLORAM	1918-02-1	50	7.4	E	50	7.4	E	5,000	740	E	5,000	740	E	50	7.4	E	50	7.4	E	NA
PROMETON	1610-18-0	40	39	E	40	39	E	4,000	3,900	E	4,000	3,900	E	40	39	E	40	39	E	NA
PRONAMIDE	23950-58-5	**[310] 260**	**[190] 160**	E	**[880] 730**	**[540] 450**	E	1,500	920	E	1,500	920	E	**[310] 260**	**[190] 160**	E	**[880] 730**	**[540] 450**	E	NA
PROPACHLOR	**1918-16-7**	**0.01**	**0.0046**	**E**	**0.01**	**0.0046**	**E**	**1**	**0.46**	**E**	**1**	**0.46**	**E**	**1**	**0.46**	**E**	**1**	**0.46**	**E**	**NA**
PROPANIL	709-98-8	**[21] 17**	**[11] 8.7**	E	**[58] 49**	**[30] 25**	E	**[2,100] 1,700**	**[1,100] 870**	E	**[5,800] 4,900**	**[3,000] 2,500**	E	**[21] 17**	**[11] 8.7**	E	**[58] 49**	**[30] 25**	E	NA
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	42	7.3	E	180	31	E	4,200	730	E	10,000	3,100	E	42	**[7] 7.3**	E	180	31	E	NA

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		Residential				Nonresidential				Residential				Nonresidential				Residential				Nonresidential				
		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		100 X GW MSC		Generic Value		
PROPAZINE	139-40-2	1		0.5	E	1		0.5	E	100		50	E	100		50	E	1		0.5	E	1		0.5	E	NA
PROPHAM	122-42-9	10		2.4	E	10		2.4	E	1,000		240	E	1,000		240	E	10		2.4	E	10		2.4	E	NA
PROPYLBENZENE, N-	103-65-1	210		400	E	880		1,700	E	5,200		9,900	E	5,200		9,900	E	210		400	E	880		1,700	E	30
PROPYLENE OXIDE	75-56-9	**[0.3] 0.27**		**[0.052] 0.047**	E	**[1.4] 1.1**		**[0.24] 0.19**	E	**[30] 27**		**[5.2] 4.7**	E	**[140] 110**		**[24] 19**	E	**[0.3] 0.27**		**[0.052] 0.047**	E	**[1.4] 1.1**		**[0.24] 0.19**	E	NA
PYRENE	129-00-0	13		2,200	E	13		2,200	E	13		2,200	E	13		2,200	E	13		2,200	E	13		2,200	E	10
PYRETHRUM	**8003-34-7**	**35**		**4.4**	**E**	**35**		**4.4**	**E**	**35**		**4.4**	**E**	**35**		**4.4**	**E**	**35**		**4.4**	**E**	**35**		**4.4**	**E**	**NA**
PYRIDINE	110-86-1	**[4.2] 3.4**		**[0.47] 0.39**	E	**[12] 9.7**		**[1.3] 1.1**	E	**[420] 350**		**[47] 39**	E	**[1,200] 970**		**[130] 110**	E	**[42] 35**		**[4.7] 3.9**	E	**[120] 97**		**[13] 11**	E	NA
QUINOLINE	91-22-5	**[0.024] 0.022**		**[0.081] 0.074**	E	**[0.11] 0.091**		**[0.37] 0.31**	E	**[2.4] 2.2**		**[8.1] 7.4**	E	**[11] 9.1**		**[37] 31**	E	**[24] 22**		**[81] 74**	E	**[110] 91**		**[370] 310**	E	20
QUIZALOFOP (ASSURE)	76578-14-8	30		47	E	30		47	E	30		47	E	30		47	E	30		47	E	30		47	E	30
RDX	121-82-4	0.2		0.057	E	0.2		0.057	E	20		5.7	E	20		5.7	E	0.2		0.057	E	0.2		0.057	E	NA
RESORCINOL	108-46-3	**[8,300] 6,900**		**[970] 800**	E	**[23,000] 19,000**		**[2,700] 2,200**	E	190,000		**[97,000] 80,000**	E	190,000		190,000	C	**[8,300] 6,900**		**[970] 800**	E	**[23,000] 19,000**		**[2,700] 2,200**	E	NA
RONNEL	299-84-3	**[210] 170**		**[330] 270**	E	**[580] 490**		**[910] 760**	E	4,000		6,200	E	4,000		6,200	E	**[210] 170**		**[330] 270**	E	**[580] 490**		**[910] 760**	E	30
SIMAZINE	122-34-9	0.4		0.15	E	0.4		0.15	E	40		15	E	40		15	E	0.4		0.15	E	0.4		0.15	E	NA
STRYCHNINE	57-24-9	**[1.3] 1**		**[1.1] 0.81**	E	**[3.5] 2.9**		**[2.8] 2.4**	E	**[130] 100**		**[110] 81**	E	**[350] 290**		**[280] 240**	E	**[1,300] 1,000**		**[1,100] 810**	E	**[3,500] 2,900**		**[2,800] 2,400**	E	NA
STYRENE	100-42-5	10		24	E	10		24	E	1,000		2,400	E	1,000		2,400	E	1,000		2,400	E	1,000		2,400	E	30
TEBUTHIURON	34014-18-1	50		83	E	50		83	E	5,000		8,300	E	5,000		8,300	E	50		83	E	50		83	E	30
TERBACIL	5902-51-2	9		2.2	E	9		2.2	E	900		220	E	900		220	E	9		2.2	E	9		2.2	E	NA
TERBUFOS	13071-79-9	0.04		0.055	E	0.04		0.055	E	4		5.5	E	4		5.5	E	0.04		0.055	E	0.04		0.055	E	30
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	**[1.3] 1**		**[6] 4.6**	E	**[3.5] 2.9**		**[16] 13**	E	58		270	E	58		270	E	58		270	E	58		270	E	20
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.000003		0.032	E	0.000003		0.032	E	0.0003		3.2	E	0.0003		3.2	E	0.0019		20	E	0.0019		20	E	5
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	7		18	E	7		18	E	700		1,800	E	700		1,800	E	700		1,800	E	700		1,800	E	30
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	**[0.08] 0.084**		0.026	E	0.43		0.13	E	**[8] 8.4**		2.6	E	43		13	E	**[8] 8.4**		2.6	E	43		13	E	NA

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All concentrations in mg/kg
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[THMs – The values listed for trihalomethanes (THMs) are the total for all THMs combined.]
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Appendix A
Table 3 – Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
TETRACHLOROETHYLENE (PCE)	127-18-4	0.5	0.43	E	0.5	0.43	E	50	43	E	50	43	E	5	4.3	E	5	4.3	E	NA
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	**[130] 100**	**[2,000] 1,600**	E	**[350] 290**	**[5,500] 4,500**	E	**[13,000] 10,000**	**[190,000] 160,000**	**[C] E**	18,000	190,000	C	18,000	190,000	C	18,000	190,000	C	15
TETRAETHYL LEAD	78-00-2	**[0.00042] 0.00035**	**[0.0052] 0.0043**	E	**[0.0012] 0.00097**	**[0.015] 0.012**	E	**[0.042] 0.035**	**[0.52] 0.43**	E	**[0.1] 0.097**	**[1.5] 1.2**	E	**[0.42] 0.35**	**[0.52] 4.3**	E	**[1] 0.97**	**[15] 12**	E	15
TETRAETHYLDITHIO PYROPHOSPHATE	3689-24-5	**[2.1] 1.7**	**[3.1] 2.5**	E	**[5.8] 4.9**	**[8.6] 7.3**	E	**[210] 170**	**[310] 250**	E	**[580] 490**	**[860] 730**	E	**[2.1] 1.7**	**[3.1] 2.5**	E	**[5.8] 4.9**	**[8.6] 7.3**	E	30
TETRAHYDROFURAN	109-99-9	**[2.6] 2.5**	**[0.57] 0.55**	E	13	2.8	E	**[260] 250**	**[57] 55**	E	1,300	280	E	**[2.6] 2.5**	**[0.57] 0.55**	E	13	2.8	E	NA
THIOFANOX	39196-18-4	**[1.3] 1**	**[0.14] 0.11**	E	**[3.5] 2.9**	**[0.39] 0.32**	E	**[130] 100**	**[14] 11**	E	**[350] 290**	**[39] 32**	E	**[1.3] 1**	**[0.14] 0.11**	E	**[3.5] 2.9**	**[0.39] 0.32**	E	NA
THIRAM	137-26-8	**[21] 52**	**[55] 140**	E	**[58] 150**	**[150] 390**	E	**[2,100] 3,000**	**[5,500] 7,800**	E	3,000	7,800	E	**[21] 52**	**[55] 140**	E	**[58] 150**	**[150] 390**	E	20
TOLUENE	108-88-3	100	44	E	100	44	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	10,000	4,400	E	NA
TOLUIDINE, M-	108-44-1	**[4.6] 4.1**	**[2.1] 1.9**	E	**[21] 17**	**[9.7] 7.8**	E	**[460] 410**	**[210] 190**	E	**[2,100] 1,700**	**[970] 780**	E	**[4.6] 4.1**	**[2.1] 1.9**	E	**[21] 17**	**[9.7] 7.8**	E	NA
TOLUIDINE, O-	95-53-4	**[4.6] 4.1**	**[5.2] 4.7**	E	**[21] 17**	**[24] 19**	E	**[460] 410**	**[520] 470**	E	**[2,100] 1,700**	**[2,400] 1,900**	E	**[4,600] 4,100**	**[5,200] 4,700**	E	10,000	10,000	C	NA
TOLUIDINE, P-	106-49-0	**[2.4] 2.2**	**[2.2] 2**	E	**[11] 9.1**	**[10] 8.3**	E	**[240] 220**	**[220] 200**	E	**[1,100] 910**	**[1,000] 830**	E	**[2.4] 2.2**	**[2.2] 2**	E	**[11] 9.1**	**[10] 8.3**	E	NA
TOXAPHENE	8001-35-2	0.3	1.2	E	0.3	1.2	E	30	120	E	30	120	E	0.3	1.2	E	0.3	1.2	E	20
TRIALLATE	2303-17-5	**[54] 0.091**	**[280] 0.47**	E	**[150] 0.38**	**[770] 1.9**	E	**[400] 9.1**	**[2,000] 47**	E	**[400] 38**	**[2,000] 190**	E	**[54] 0.091**	**[280] 0.47**	E	**[150] 0.38**	**[770] 1.9**	E	15
TRIBROMOMETHANE (BROMOFORM) (THM)	75-25-2	8	3.5	E	8	3.5	E	800	350	E	800	350	E	800	350	E	800	350	E	NA
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	**[6,300] 1,100**	**[10,000] 3,400**	**[C] E**	**[10,000] 4,400**	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	20

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B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L				Residential				Nonresidential						
		Residential		Nonresidential		Residential		Nonresidential		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value			
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value											
TRICHLOROACETIC ACID (HAA)	76-03-9	**[2] 6**	**[0.32] 0.97** E	**[2] 6**	**[0.32] 0.97** E	**[200] 600**	**[32] 97** E	**[200] 600**	**[32] 97** E	**[2] 6**	**[0.32] 0.97**	E	**[2] 6**	**[0.32] 0.97**	E					NA
TRICHLOROBENZENE, 1,2,4-	120-82-1	7	27 E	7	27 E	700	2,700 E	700	2,700 E	**[4,400] 700**	**[10,000] 2,700**	**[C] E**	**[4,400] 700**	**[10,000] 2,700**	**[C] E**					20
TRICHLOROBENZENE, 1,3,5-	108-70-3	4	31 E	4	31 E	400	3,100 E	400	3,100 E	4	31	E	4	31	E					15
TRICHLOROETHANE, 1,1,1-	71-55-6	20	7.2 E	20	7.2 E	2,000	720 E	2,000	720 E	200	72	E	200	72	E					NA
TRICHLOROETHANE, 1,1,2-	79-00-5	0.5	0.15 E	0.5	0.15 E	50	15 E	50	15 E	5	1.5	E	5	1.5	E					NA
TRICHLOROETHYLENE (TCE)	79-01-6	0.5	0.17 E	0.5	0.17 E	50	17 E	50	17 E	5	1.7	E	5	1.7	E					NA
TRICHLOROPHENOL, 2,4,5-	95-95-4	**[420] 350**	**[2,600] 2,100** E	**[1,200] 970**	**[7,300] 5,900** E	**[42,000] 35,000**	190,000 C	**[100,000] 97,000**	190,000 C	100,000	190,000	C	100,000	190,000	C					15
TRICHLOROPHENOL, 2,4,6-	88-06-2	**[4.2] 3.5**	**[12] 10** E	**[12] 9.7**	**[34] 28** E	**[420] 350**	**[1,200] 1,000** E	**[1,200] 970**	**[3,400] 2,800** E	**[4,200] 3,500**	**[12,000] 10,000**	E	**[12,000] 9,700**	**[34,000] 28,000**	E					20
TRICHLOROPHENOXY ACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	7	1.5 E	7	1.5 E	700	150 E	700	150 E	7,000	1,500	E	7,000	1,500	E					NA
TRICHLOROPHENOXY PROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	5	22 E	5	22 E	500	2,200 E	500	2,200 E	5	22	E	5	22	E					20
TRICHLOROPROPANE, 1,1,2-	598-77-6	**[21] 17**	**[3.6] 2.9** E	**[58] 49**	**[9.9] 8.4** E	**[2,100] 1,700**	**[360] 290** E	**[5,800] 4,900**	**[990] 840** E	**[21] 17**	**[3.6] 2.9**	E	**[58] 49**	**[9.9] 8.4**	E					NA
TRICHLOROPROPANE, 1,2,3-	96-18-4	4	3.2 E	4	3.2 E	400	320 E	400	320 E	400	320	E	400	320	E					NA
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.063	0.037 E	0.26	0.15 E	6.3	3.7 E	26	15 E	0.063	0.037	E	0.26	0.15	E					NA
TRIETHYLAMINE	121-44-8	1.5	0.36 E	6.2	1.5 E	150	36 E	620	150 E	1.5	0.36	E	6.2	1.5	E					NA
TRIETHYLENE GLYCOL	112-27-6	**[8,300] 6,900**	**[1,000] 870** E	10,000	**[2,900] 2,400** E	10,000	10,000 C	10,000	10,000 C	**[8,300] 6,900**	**[1,000] 870**	E	10,000	**[2,900] 2,400**	E					NA
TRIFLURALIN	1582-09-8	1	1.9 E	1	1.9 E	100	190 E	100	190 E	1	1.9	E	1	1.9	E					30
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	**[1.5] 13**	**[8.4] 73** E	**[6.2] 53**	**[35] 300** E	**[150] 1,300**	**[840] 7,300** E	**[620] 5,300**	**[3,500] 10,000** **[E] C**	**[150] 1,300**	**[840] 7,300**	E	**[620] 5,300**	**[3,500] 10,000**	**[E] C**					15

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B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers												Nonuse Aquifers						Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L						TDS > 2500 mg/L												
		Residential			Nonresidential			Residential			Nonresidential			Residential			Nonresidential			
		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		100 X GW MSC	Generic Value		
TRIMETHYLBENZENE, 1,3,5-	108-67-8	**[42] 13**	**[74] 23**	E	**[120] 53**	**[210] 93**	E	**[4,200] 1,300**	**[7,400] 2,300**	E	4,900	8,600	E	**[42] 13**	**[74] 23**	E	**[120] 53**	**[210] 93**	E	30
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.5	0.2	E	0.5	0.2	E	50	20	E	50	20	E	50	20	E	50	20	E	NA
TRINITROTOLUENE, 2,4,6-	118-96-7	0.2	0.023	E	0.2	0.023	E	20	2.3	E	20	2.3	E	0.2	0.023	E	0.2	0.023	E	NA
VINYL ACETATE	108-05-4	42	5	E	180	21	E	4,200	500	E	10,000	2,100	E	42	5	E	180	21	E	NA
VINYL BROMIDE (BROMOETHENE)	593-60-2	0.15	0.073	E	0.78	0.38	E	15	7.3	E	78	38	E	1.5	0.73	E	7.8	3.8	E	NA
VINYL CHLORIDE	75-01-4	0.2	0.027	E	0.2	0.027	E	20	2.7	E	20	2.7	E	2	0.27	E	2	0.27	E	NA
WARFARIN	81-81-2	**[1.3] 1**	**[3.1] 2.4**	E	**[3.5] 2.9**	**[8.4] 6.9**	E	**[130] 100**	**[310] 240**	E	**[350] 290**	**[840] 690**	E	**[1,300] 1,000**	**[3,100] 2,400**	E	1,700	4,100	E	30
XYLENES (TOTAL)	1330-20-7	1,000	990	E	1,000	990	E	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	10,000	10,000	C	NA
ZINEB	12122-67-7	**[210] 170**	**[33] 27**	E	**[580] 490**	**[92] 78**	E	1,000	160	E	1,000	160	E	**[210] 170**	**[33] 27**	E	**[580] 490**	**[92] 78**	E	NA

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Appendix A
Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential MSC 0-15 feet		Nonresidential MSCs			
				Surface Soil 0-2 feet		Subsurface Soil 2-15 feet	
ALUMINUM	7429-90-5	190,000	C	190,000	C	190,000	C
ANTIMONY	7440-36-0	88	G	1,300	G	190,000	C
ARSENIC	7440-38-2	12	G	61	G	190,000	C
BARIUM AND COMPOUNDS	7440-39-3	44,000	G	190,000	C	190,000	C
BERYLLIUM	7440-41-7	440	G	6,400	G	190,000	C
BORON AND COMPOUNDS	7440-42-8	44,000	G	190,000	C	190,000	C
CADMIUM	7440-43-9	110	G	1,600	G	190,000	C
CHROMIUM III	16065-83-1	190,000	C	190,000	C	190,000	C
CHROMIUM VI	18540-29-9	**[4] 37**	G	**[220] 180**	G	**[20,000] 140,000**	N
COBALT	7440-48-4	66	G	960	G	190,000	N
COPPER	7440-50-8	**[8,100] 7,200**	G	**[120,000] 100,000**	G	190,000	C
CYANIDE, FREE	57-12-5	130	G	1,900	G	190,000	C
FLUORIDE	16984-48-8	8,800	G	130,000	G	190,000	C
IRON	7439-89-6	150,000	G	190,000	C	190,000	C
LEAD	7439-92-1	**[500] 420**	U	**[1,000] 2,500**	**[S] A**	190,000	C
LITHIUM	7439-93-2	440	G	6,400	G	190,000	C
MANGANESE	7439-96-5	**[10,000] 31,000**	G	**[150,000] 190,000**	**[G] C**	190,000	C
MERCURY	7439-97-6	35	G	510	G	190,000	C
MOLYBDENUM	7439-98-7	1,100	G	16,000	G	190,000	C
NICKEL	7440-02-0	4,400	G	64,000	G	190,000	C
PERCHLORATE	7790-98-9	150	G	2,200	G	190,000	C
SELENIUM	7782-49-2	1,100	G	16,000	G	190,000	C
SILVER	7440-22-4	1,100	G	16,000	G	190,000	C
STRONTIUM	7440-24-6	130,000	G	190,000	C	190,000	C
THALLIUM	7440-28-0	**[2] 2.2**	G	32	G	190,000	C
TIN	7440-31-5	130,000	G	190,000	C	190,000	C
VANADIUM	7440-62-2	15	G	220	G	190,000	C
ZINC	7440-66-6	66,000	G	190,000	C	190,000	C

All concentrations in mg/kg
R – Residential
NR – Non-Residential
G – Ingestion
N – Inhalation
C- Cap
U – **[UBK Model]** **IEUBK Model**
[S – SEGH Model] **A – Adult Lead Model**
NA – Not Applicable

Appendix A
Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L								
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
[ALUMINUM]	**[7429-90-5]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**
ANTIMONY	7440-36-0	0.6	27	0.6	27	60	2,700	60	2,700	600	27,000	600	27,000	15
ARSENIC	7440-38-2	1	29	1	29	100	2,900	100	2,900	1,000	29,000	1,000	29,000	15
BARIUM AND COMPOUNDS	7440-39-3	200	8,200	200	8,200	20,000	190,000	20,000	190,000	190,000	190,000	190,000	190,000	15
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32,000	40	32,000	400	190,000	400	190,000	10
BORON AND COMPOUNDS	7440-42-8	600	1,900	600	1,900	60,000	190,000	60,000	190,000	190,000	190,000	190,000	190,000	30
CADMIUM	7440-43-9	0.5	38	0.5	38	50	3,800	50	3,800	500	38,000	500	38,000	15
CHROMIUM (III)	16065-83-1	10	190,000	10	190,000	1,000	190,000	1,000	190,000	10,000	190,000	10,000	190,000	5
CHROMIUM (VI)	18540-29-9	10	190	10	190	1,000	19,000	1,000	19,000	10,000	190,000	10,000	190,000	15
COBALT	7440-48-4	1	**[59] 45**	**[4] 2.9**	**[160] 130**	**[130] 100**	**[5,900] 4,500**	**[350] 290**	**[16,000] 13,000**	**[1,300] 1,000**	**[59,000] 45,000**	**[3,500] 2,900**	**[160,000] 130,000**	15
COPPER	7440-50-8	**[NA] 100**	**[NA] 43,000**	**[NA] 100**	**[NA] 43,000**	**[NA] 10,000**	**[NA] 190,000**	**[NA] 10,000**	**[NA] 190,000**	**[NA] 100,000**	**[NA] 190,000**	**[NA] 100,000**	**[NA] 190,000**	**[NA] 10**
CYANIDE, FREE	57-12-5	20	200	20	200	2,000	20,000	2,000	20,000	20,000	190,000	20,000	190,000	20
FLUORIDE	16984-48-8	400	44	400	44	40,000	4,400	40,000	4,400	190,000	44,000	190,000	44,000	NA
[IRON]	**[7439-89-6]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**	**[NA]**
LEAD	7439-92-1	0.5	450	0.5	450	50	45,000	50	45,000	500	190,000	500	190,000	10
LITHIUM	7439-93-2	**[8] 6.9**	**[2,500] 2,100**	**[23] 19**	**[6,900] 5,700**	**[830] 690**	190,000	**[2,300] 1,900**	190,000	**[8,300] 6,900**	190,000	**[23,000] 19,000**	190,000	10
MANGANESE	7439-96-5	30	2,000	30	2,000	3,000	190,000	3,000	190,000	30,000	190,000	30,000	190,000	15
MERCURY	7439-97-6	0.2	10	0.2	10	20	1,000	20	1,000	200	10,000	200	10,000	15
MOLYBDENUM	7439-98-7	4	650	4	650	400	65,000	400	65,000	4,000	190,000	4,000	190,000	15
NICKEL	7440-02-0	10	650	10	650	1,000	65,000	1,000	65,000	10,000	190,000	10,000	190,000	15
PERCHLORATE	7790-98-9	1.5	0.17	1.5	0.17	150	17	150	17	1,500	170	1,500	170	NA
SELENIUM	7782-49-2	5	26	5	26	500	2,600	500	2,600	5,000	26,000	5,000	26,000	20
SILVER	7440-22-4	10	84	10	84	1,000	8,400	1,000	8,400	10,000	84,000	10,000	84,000	20

[1]For other options see Section 250.308
All concentrations in mg/kg
R – Residential
NR – Non-Residential
NA – Not Applicable

Appendix A
Table 4 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values[1]

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L								
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
STRONTIUM	7440-24-6	400	44	400	44	40,000	4,400	40,000	4,400	190,000	44,000	190,000	44,000	NA
THALLIUM	7440-28-0	0.2	14	0.2	14	20	1,400	20	1,400	200	14,000	200	14,000	15
TIN	7440-31-5	**[2,500] 2,100**	190,000	**[7,000] 5,800**	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	190,000	10
VANADIUM	7440-62-2	**[0.29] 0.24**	**[290] 240**	**[0.82] 0.68**	**[820] 680**	**[29] 24**	**[29,000] 24,000**	**[82] 68**	**[82,000] 68,000**	**[290] 240**	190,000	**[820] 680**	190,000	5
ZINC	440-66-6	200	12,000	200	12,000	20,000	190,000	20,000	190,000	190,000	190,000	190,000	190,000	15

[1]For other options see Section 250.308
All concentrations in mg/kg
R – Residential
NR – Non-Residential
NA – Not Applicable

Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
ACENAPHTHENE	83-32-9	0.06	I							4900	X	3.8	1,5,6	17220	20833		279	1.24
ACENAPHTHYLENE	208-96-8	0.06	S							4500	X	16.1	5,6,7	16493	19776		280	2.11
ACEPHATE	30560-19-1	[0.004] 0.0012	[I] O	[0.0087]	[I]					3		818000	6				340	
ACETALDEHYDE	75-07-0					0.009	I	0.0000022	I	4.1	X	1000000	1	[13100] 13010	[15100] 14945	X	20	
ACETONE	67-64-1	0.9	I			31	D			0.31	X	1000000	1	[13100] 13007	[15000] 14942	X	56	18.07
ACETONITRILE	75-05-8					0.06	I			0.5	X	1000000	1	[13100] 13020	[15000] 14958	X	82	4.50
ACETOPHENONE	98-86-2	0.1	I							170		5500	1			X	203	
ACETYLAMINO-FLUORENE, 2- (2AAF)	53-96-3			3.8	C			0.0013	C	1600		10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005	I			0.00002	I			0.56	X	208000	1,2,4	[13100] 13012	[15100] 14948	X	53	4.50
ACRYLAMIDE	79-06-1	0.002	I	0.5	I	0.006	I	0.0001	I	25	X	2151000	4	[13000] 12981	[15000] 14906		193	
ACRYLIC ACID	79-10-7	0.5	I			0.001	I			29	X	1000000	2	[13000] 12978	[14900] 14902	X	141	1.39
ACRYLONITRILE	107-13-1	0.04	D	0.54	I	0.002	I	0.000068	I	11	X	73500	1	[13100] 13004	[15100] 14939	X	77	5.50
ALACHLOR	15972-60-8	0.01	I	0.056	C					110		140	2				378	
ALDICARB	116-06-3	0.001	I							22		6000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001	I							10		8000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001	M							0.22		330000	5				307	
ALDRIN	309-00-2	0.00003	I	17	I			0.0049	I	48000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005	I			0.0001	X			3.2	X	1000000	2	[13100] 13003	[15000] 14937	X	97	18.07
AMETRYN	834-12-8	0.009	I							389		185	5				345	
AMINOBIPHENYL, 4-	92-67-1			21	C			0.006	C	110		1200	5				302	18.07
AMITROLE	61-82-5			0.94	C			0.00027	C	120		280000	4				258	0.69
AMMONIA	7664-41-7	[0.97] 0.85	H			[0.1] 0.5	I			3	X	310000	2,5,7	[13100] 13098	[15000] 15059	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2	I							3		2160000	10				603	
ANILINE	62-53-3	0.007	P	0.0057	I	0.001	I	0.0000016	C	190	X	33800	1	[13000] 12959	[14900] 14876	X	184	
ANTHRACENE	120-12-7	0.3	I							21000	X	0.066	1,5,6,7,8,9	30838	44562		340	0.28
ATRAZINE	1912-24-9	0.035	I	0.23	C					130		70	2,4,5				313	

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Toxicity Value Sources:
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Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
AZINPHOS-METHYL (GUTHION)	86-50-0	**[0.003] 0.0015**	**[D] O**			0.01	D			407.4		31.5	1, 2				421	
BAYGON (PROPOXUR)	114-26-1	0.004	I							31		2000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05	I	**0.0024**	**O**					1,900		2	5				520	
BENTAZON	25057-89-0	0.03	I							13		500	2				415	
BENZENE	71-43-2	0.004	I	0.055	I	0.03	I	0.0000078	I	58	X	1780.5	1,2,3,4	**[13100] 13053**	15000	X	81	0.35
BENZIDINE	92-87-5	0.003	I	230	I			0.067	I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3			0.7	X			0.00011	C	350000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8	**0.0003**	**I**	**[7.3] 1**	I	**0.000002**	**I**	**[0.0011] 0.0006**	**[C]I**	910000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2			1.2	C			0.00011	C	550000		0.0012	5,6,7				357	0.21
BENZO[GHI]PERYLENE	191-24-2	0.06	S							2800000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9			1.2	C			0.00011	C	4400000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4	I							32	**X**	2700	2,3,4,5	**12985**	**14913**		249	
BENZOTRICHLORIDE	98-07-7			13	I					920	**X**	53	1,5,13	**13494**	**15606**	X	221	121413.60
BENZYL ALCOHOL	100-51-6	0.1	P							100		40000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002	P	0.17	I	0.001	P	0.000049	C	190	X	493	1	**[13000] 12940**	**[15000] 14846**	X	179	20.90
BETA PROPIOLACTONE	57-57-8			14	C			0.004	C	4	X	370000	2	**[13100] 13008**	**[15000] 14937**	X	162	0.01
BHC, ALPHA	319-84-6	0.008	D	6.3	I			0.0018	I	1800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7			1.8	I			0.00053	I	2300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003	I	1.1	C			0.00031	C	1400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05	I	0.008	**[X] I**	0.0004	X			1,700	**X**	7.2	1	**14027**	**16325**		255	18.07
BIS(2-CHLORO ETHOXY)METHANE	111-91-1	0.003	P							61		100500	4,6,7,9,10,11			X	218	
BIS(2-CHLOROETHYL)ETHER	111-44-4			1.1	I			0.00033	I	76	X	10200	1,4,5	**[13000] 12942**	**[14900] 14849**	X	179	0.69
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	0.04	I	0.07	H			0.00001	H	62	X	1700	5	**[13000] 12947**	**[14900] 14856**	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1			220	I			0.062	I	16	X	22000	6	**[13100] 12992**	**[15100] 14922**	X	105	57270.57
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.02	I	0.014	I			0.0000024	C	87000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05	I							1,500		120	4				220	0.69

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Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
BROMACIL	314-40-9	0.1	M							58		815	2				421	
BROMOBENZENE	**108-86-1**	**0.008**	**I**			**0.06**	**I**			**268**	**X**	**445**	**1,2**	**12954**	**14866**	**X**	**156.1**	
BROMOCHLOROMETHANE	74-97-5	0.01	M			0.04	X			27	X	16700	4	**[13100] 13007**	**[15000] 14942**	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02	I	0.062	I			0.000037	C	93	X	4500	6	**[13100] 12984**	**[15000] 14910**	X	87	
BROMOMETHANE	74-83-9	0.0014	I			0.005	I			170	X	17500	2	**[13100] 13039**	**[15000] 14981**	X	4	6.66
BROMOXYNIL	1689-84-5	**[0.02] 0.015**	**[I] O**	**0.103**	**O**					300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	**[0.02] 0.015**	**[I] O**	**0.103**	**O**					18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0			**[3.4] 0.6**	C	0.002	I	0.00003	I	120	X	735	1	**[13200] 13115**	**[15000] 15041**	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1	I							3.2	X	74000	1	**[13000] 12998**	**[14900] 14930**	X	118	4.68
BUTYLATE	2008-41-5	0.05	I							540	X	45	2	**[13200] 13430**	**[15200] 15519**	X	138	
BUTYLBENZENE, N-	104-51-8	0.05	P							2,500	X	15	1,6,7	**[13100] 12943**	**[15100] 14851**	X	183	
BUTYLBENZENE, SEC-	135-98-8	0.1	X							890	X	17	1,6,7	**[13100] 12983**	**[15000] 14910**	X	174	
BUTYLBENZENE, TERT-	98-06-6	0.1	X							680	X	30	1,6,7	**[13100] 12979**	**[15000] 14904**	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2	I	0.0019	P					34000		2.69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13	I	0.0023	C			0.00000066	C	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1	I							190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8			0.02	H					2,500		1.2	1,5,6				355	
CARBOFURAN	1563-66-2	0.005	I							43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1	I			0.7	I			300	X	2100	1,2,3	**[13100] 13022**	**[15100] 14961**	X	46	
CARBON TETRACHLORIDE	56-23-5	0.004	I	0.07	I	0.1	I	0.000006	I	160	X	795	1,2,3	**[13100] 13117**	**[15000] 15083**	X	77	0.07
CARBOXIN	5234-68-4	0.1	I							260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015	I							20		700	2				210	
CHLORDANE	57-74-9	0.0005	I	0.35	I	0.0007	I	0.0001	I	98000		0.056	4,5,7				351	0.09

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3					50	I			22	X	1400	4	[13100] 13117	[15000] 15041	X	-9	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1			0.021	C	0.001	I	0.000006	C	48	X	3300	1,3,5,7,10	[13100] 13142	[15000] 15116	X	45	18.07
CHLOROACETALDEHYDE	107-20-0			[0.3] 0.27	X					3.2	X	1000000	9	[13000] 13004	[14900] 14938	X	85	
CHLOROACETOPHENONE, 2-	532-27-4					0.00003	I			76		1100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	I	0.2	P					460	X	3900	1	13139	15127		232	
CHLOROBENZENE	108-90-7	0.02	I			0.05	P			200	X	490	3	[13100] 12992	[15000] 14922	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02	I	0.11	C			0.000031	C	2600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	0.04	P							580	X	680	1,2,3,4	[13200] 13007	[15000] 14942	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02	I	0.084	I			[0.000027]	[C]	83	X	4200	4,6,7,9	[13100] 12973	[15100] 14895	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6					50	I			59	X	2899	4	[13200] 13141	[15000] 15113	X	-41	
CHLOROETHANE	75-00-3	[0.4]	[N]	[0.0029]	[N]	10	I			42	X	5700	1	[13100] 13101	[15000] 15038	X	12	4.50
CHLOROFORM	67-66-3	0.01	I	[0.019] 0.031	C	[0.098] 0.3	[D] C	0.000023	I	56	X	8000	1,2,3	[13100] 13044	[15000] 14988	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08	I							8500	X	11.7	1	19021	23532		256	
CHLORONITROBENZENE, P-	100-00-5	[0.001] 0.0007	P	[0.0063] 0.06	P	[0.0006] 0.002	P			480	X	220	1	13190	15196		242	
CHLOROPHENOL, 2-	95-57-8	0.005	I							400	X	24000	1,3,4	[12900] 13053	[14900] 15009	X	175	
CHLOROPRENE	126-99-8	0.02	H			0.02	I	0.0003	I	50	X	1736	9	[13100] 13116	[15000] 15075	X	59	0.69
CHLOROPROPANE, 2-	75-29-6					[0.1] 0.1001	H			260	X	3100	1,3,5	[13200] 13055	[15000] 15002	X	47	
CHLOROTHALONIL	1897-45-6	0.015	I	[0.0031] 0.017	C			[0.00000089]	[C]	980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02	I							760	X	422	1,4,5	[13100] 12941	[15000] 14848	X	159	
CHLOROTOLUENE, P-	106-43-4	0.02	X							375	X	106	12	[13000] 12961	[14900] 14877	X	162	
CHLORPYRIFOS	2921-88-2	0.001	D							4600		1.12	2,4,6,7				377	

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CHLORSULFURON	64902-72-3	**[0.05]** **0.02**	**[I] O**							11		192	2,5,6,8,9				531	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.01	I							6,500		0.5	2,5,7				360	1.37
CHRYSENE	218-01-9			0.12	C			0.000011	C	490000		0.0019	1				448	0.13
CRESOL(S)	1319-77-3	0.1	D			0.06	C			25	X	20000	2	**[13000]** **12976**	**[14900]** **14899**	X	139	5.16
CRESOL, DINITRO-O-, 4,6-	534-52-1	**[0.0001]** **0.00008**	**[P] X**							257	**X**	150	4	**13025**	**14970**		312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05	I							22	X	2500	3,5,6	**[13000]** **12974**	**[14900]** **14896**		191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05	I							35		2500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005	H							49		22000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	0.1	X							780		3846	2				235	
CROTONALDEHYDE	4170-30-3	**0.001**	**S**	1.9	S					5.6	X	180000	3	**[13000]** **12998**	**[14900]** **14931**	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9	0.001	P	1.9	H					6.1	X	156000	1	**[13100]** **13006**	**[15100]** **14940**	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1	I			0.4	I			2800	X	50	1,5,6	**[13100]** **12940**	**[15100]** **14846**	X	152	15.81
CYANAZINE	21725-46-2	0.002	**[M] H**	0.84	H					199		171	2,5				369	
CYCLOHEXANE	110-82-7					6	I			479	X	55	1,2,4,5,6	**[13100]** **13140**	**[15100]** **15112**	X	81	
CYCLOHEXANONE	108-94-1	5	I			0.7	P			66	X	36500	1,2,4,5	**[13000]** **12949**	**[14900]** **14858**	X	157	
CYFLUTHRIN	68359-37-5	0.025	I							130,000		0.001	2				448	
CYROMAZINE	66215-27-8	**[0.0075]** **0.5**	**[I] O**							1,200		11000	12				222	
DDD, 4,4'-	72-54-8	**0.003**	**X**	0.24	I			0.000069	C	44000		0.16	5,6,7				350	0.02
DDE, 4,4'-	72-55-9	**0.0003**	**X**	0.34	I			0.000097	C	87000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005	I	0.34	I			0.000097	I	240000		0.0055	5,6,7				260	0.02
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	0.6	I	0.0012	I					47,000,000		200	5			X	214	4.50
DIALLATE	2303-16-4			0.061	H					190		40	2,4,6,8			X	328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7			4	C			0.0011	C	36		7470	4				292	0.69
DIAZINON	333-41-5	0.0007	D							500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3			4.1	C			0.0012	C	1800000		0.0006	1,5,6				524	0.13

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DIBENZOFURAN	132-64-9	0.001	X							10233	X	4.48	1,6,7,9	23885	31445		287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0002	P	0.8	P	0.0002	I	0.006	P	140	X	1000	4	[13000] 12946	[15000] 14856	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01	I							1,600		20	1				220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.009	I	2	I	0.009	I	0.0006	I	54	X	4150	1,2,3,5	[13100] 12972	[15100] 14893	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01	H			0.004	X			110	X	11400	1	[13100] 12948	[15100] 14858	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1	I							1600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03	I							0.27		5600	4,5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004	I	0.05	I					8.1	X	1000000	1	[12900] 12994	[14900] 14924	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0							0.0042	P	180	X	850	9	[13100] 12943	[15000] 14851	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6							0.0042	[S]P	215	X	850	9	[12900] 12940	[14800] 14847	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09	I			0.2	H			350	X	147	1,4,5,6,7	[13100] 12946	[15100] 14855	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.09	M							360	X	106	1	[13100] 12942	[15100] 14849	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07	D	0.0054	C	0.8	I	0.000011	C	510	X	82.9	1	[12900] 12943	[14900] 14850		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1			0.45	I			0.00034	C	22000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2	I			0.1	X			360	X	280	1	[13200] 13115	[15000] 15041	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2	P	0.0057	C	0.5	H	0.0000016	C	52	X	5000	2	[13100] 13051	[15000] 14998	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	0.006	X	0.091	I	0.007	P	0.000026	I	38	X	8412	1,2,3,4	[13100] 13010	[15000] 14945	X	83	0.07
DICHLOROETHYLENE, 1,1-	75-35-4	0.05	I			0.2	I			65	X	2500	1,4,5	[13100] 13145	[15000] 15119	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	0.002	I							49	X	3500	1	[13100] 13037	[15000] 14979	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02	I			[0.06]	[P]			47	X	6300	1	[13100] 13053	15000	X	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.006	I	0.002	I	0.6	I	0.00000001	I	16	X	20000	1,2,3	[13100] 13071	[15000] 15023	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003	I							160		4500	1				210	5.88

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DICHLOROPHENOXYACETIC ACID, 2,4-(2,4-D)	94-75-7	0.01	I							59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	**[0.09]** 0.04	**[D]** P	**[0.036]** 0.037	**[C]** P	0.004	I	**[0.00001]** 0.0037	**[C]**P	47	X	2700	1,3,4	**[13100]** 13016	**[15000]** 14954	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03	I	0.1	I	0.02	I	0.000004	I	27	X	2700	6	**[13100]** 13038	**[15000]** 14981	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	0.03	I							62	X	500000	5	**[13000]** 12949	**[14900]** 14860	X	190	2.11
DICHLORVOS	62-73-7	0.0005	I	0.29	I	0.0005	I	0.000083	C	50		10000	2,4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008	P			0.0003	X			810	X	40	5	**[13000]** 12957	**[14900]** 14870		167	
DIELDRIN	60-57-1	0.00005	I	16	I			0.0046	I	11000		0.17	4,5,6				385	0.12
DIETHANOLAMINE	111-42-2	0.002	P			0.0002	P			4		1000000	2,3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8	I							81		1080	4,5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02	I							1,000		0.2	2				201	
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08	I							10	X	160000	9	**[13000]** 12978	**[14900]** 14903	X	190	
DIMETHOATE	60-51-5	**[0.0002]** 0.0022	**[I]** O							110		25000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4			1.6	P					1,300		60	9				331	0.69
DIMETHRIN	70-38-2	0.3	M							27,000		0.036	13				353	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7			4.6	C			0.0013	C	1000		13.6	7				335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002	I	0.027	P					180	X	1200	5,6,7,9	**[13000]** 12944	**[14900]** 14852	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7			11	P					22,000		1300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06	P	0.0017	P					5	X	1000000	14	**[13000]** 12998	**[14900]** 14930	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02	I							130		7869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001	I							150		523	3,5,6,7				291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002	I							0.79		5600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	I	0.31	C			0.000089	C	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.0003	X	1.5	P					74		200	6				300	0.69
DINOSEB	88-85-7	0.001	I							120		50	5				223	1.03
DIOXANE, 1,4-	123-91-1	0.03	I	0.1	I	**[0.11]** 0.03	**[D]** I	**[0.0000077]** 0.000005	**[C]**I	7.8	X	1000000	5	**[13000]** 12996	**[14900]** 14928	X	101	0.69
DIPHENAMID	957-51-7	0.03	I							200		260	5				210	

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DIPHENYLAMINE	122-39-4	**[0.025]** 0.1	**[I]** O							190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7			0.8	I			0.00022	I	660	X	0.252	6	13375	15446		309	0.69
DIQUAT	85-00-7	0.0022	I							2.6		700000	5				355	
DISULFOTON	298-04-4	0.00004	I							1000		25	4,5,6			X	332	6.02
DITHIANE, 1,4-	505-29-3	0.01	I							22.7	X	3000	15	**[13000]** 12976	**[14900]** 14899		199	
DIURON	330-54-1	0.002	I							300		42	2,4,5				354	
ENDOSULFAN	115-29-7	0.006	I							2,000		0.48	4				401	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006	S							2000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006	S							2300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006	S							2300		0.117	7,9				409	
ENDOTHALL	145-73-3	0.02	I							120		100000	2				350	
ENDRIN	72-20-8	0.0003	I							11000		0.23	4,6,7,9				245	
EPICHLOROHYDRIN	106-89-8	0.006	P	0.0099	I	0.001	I	0.0000012	I	35	X	65800	1,3,4	**[13000]** 12972	**[14900]** 14893	X	116	4.50
ETHEPHON	16672-87-0	0.005	I							2		1240000	12				201	
ETHION	563-12-2	0.0005	I							8700		0.85	4,6,9,10			X	415	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	0.09	P			0.2	I			12	X	1000000	2	**[13200]** 13100	**[15000]** 15040	X	136	4.50
ETHYL ACETATE	141-78-6	0.9	I			0.07	P			59	X	80800	1,2,3,4,5,6	**[13100]** 12963	**[15000]** 14881	X	77	18.07
ETHYL ACRYLATE	140-88-5	0.005	P	0.048	H	0.008	P			110	X	15000	1,2,6	**[13100]** 12951	**[15100]** 14863	X	100	18.07
ETHYL BENZENE	100-41-4	0.1	I	0.011	C	1	I	0.0000025	C	220	X	161	1,3,4	**[13100]** 13004	15000	X	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S-(EPTC)	759-94-4	**[0.025]** 0.05	**[I]**O							240	X	365	2	**[12900]** 13056	**[14900]** 15014	X	127	
ETHYL ETHER	60-29-7	0.2	I							68	X	60400	1	**[13100]** 12982	**[15100]** 14908	X	35	
ETHYL METHACRYLATE	97-63-2	0.09	H			0.3	P			22	X	4635.5	9,10	**[13100]** 12991	**[15000]** 14921	X	117	
ETHYLENE CHLORHYDRIN	107-07-3	0.02	P							1	X	1000000	9	**[13000]** 13006	**[14900]** 14941	X	128	
ETHYLENE GLYCOL	107-21-1	2	I			0.4	C			4.4	X	1000000	2	**[13100]** 13004	**[15100]** 14938	X	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008	I	0.045	C			0.000013	C	0.23		20000	2				347	4.50

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Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
ETHYL P-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	0.00001	I							1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025	I							300		329	2				390	
FENVALERATE (PYDRIN)	51630-58-1	0.025	I							4,400		0.085	5			X	300	
FLUOMETURON	2164-17-2	0.013	I							68		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04	I							49000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04	I							7900	**X**	1.9	1	**20155**	**25294**		298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3	I			0.7	H			130	X	1090	1,4,5,6	**[13100] 13107**	**[15000] 15060**	X	24	0.35
FONOFOS	944-22-9	0.002	I							1100		13	5,6,8			X	324	
FORMALDEHYDE	50-00-0	0.2	I	**0.021**	**C**	**[0.0098] 0.009**	**[D] C**	0.000013	I	3.6	X	55000	1	**[13100] 13046**	**[15100] 14990**	X	-21	18.07
FORMIC ACID	64-18-6	0.9	P			0.0003	X			0.54	X	1000000	2	**[13000] 12940**	**[14900] 14846**	X	101	18.07
FOSETYL-AL	39148-24-8	**[3] 2.5**	**[I] O**							310		120000	2				464	
FURAN	110-00-9	0.001	I							130	X	10000	1	**[13100] 13019**	**[15000] 14956**	X	31	2.25
FURFURAL	98-01-1	0.003	I	**0.0349**	**O**	0.05	H			6.3	X	91000	1,2,3	**[13000] 12998**	**[14900] 14930**	X	162	
GLYPHOSATE	1071-83-6	0.1	I							3500		12000	1,5,6				417	
HEPTACHLOR	76-44-8	0.0005	I	4.5	I			0.0013	I	6800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013	I	9.1	I			0.0026	I	21000		0.311	4,6,7,9				341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	I	1.6	I			0.00046	I	3800		0.006	1,4,5				319	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001	P	0.078	I			0.000022	I	4700		2.89	4,5,6,7			X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006	I			0.0002	I			7200		1.8	5,6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.0007	I	0.04	I	0.03	I	**[0.00001] 0.000011**	C	2200	X	50	1	**[13000] 14825**	**[15000] 17421**		187	0.69
HEXANE	110-54-3	0.06	H			0.7	I			3600	X	9.5	1,5,6	**[13100] 13105**	**[15000] 15056**	X	69	
HEXAZINONE	51235-04-2	0.033	I							41		330000	1,2				408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025	I							6,500		0.5	2				539	
HMX	2691-41-0	0.05	I							4		5	16				436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2			3	I	0.00003	P	0.0049	I	0.0053	X	1000000	2	**[13000] 13026**	**[15000] 14966**	X	114	18.07
HYDROQUINONE	123-31-9	0.04	P	0.06	P					10		70000	2,3,5				285	18.07

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INDENO[1,2,3-CD]PYRENE	193-39-5			1.2	C			0.00011	C	31000000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04	I	**0.0439**	**O**					1,100		2					545	
ISOBUTYL ALCOHOL	78-83-1	0.3	I							60	X	81000	1,2,3,4,5	**[13000] 12954**	**[14900] 14866**	X	108	17.57
ISOPHORONE	78-59-1	0.2	I	0.00095	I	2	C			31		12000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1	I							1.84		50000	13			X	230	
KEPONE	143-50-0	0.0003	I	10	I			0.0046	C	55000		7.6	4				350	0.17
MALATHION	121-75-5	0.02	I							1300		143	4			X	351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5	I							2.8		6000	4				260	
MANEB	12427-38-2	0.005	I	**0.0601**	**O**					1		23	9,13				351	
MERPHOS OXIDE	78-48-8	**[0.00003] 0.001**	**[I] O**							53,000		2.3	8,10,12			X	392	
METHACRYLONITRILE	126-98-7	0.0001	I			0.03	P			21	X	25700	1	**[13100] 12994**	**[15100] 14925**	X	90	
METHAMIDOPHOS	10265-92-6	0.00005	I							5		2000000	5				223	
METHANOL	67-56-1	**[0.5] 2**	I			**[4] 20**	**[C] I**			2.8	X	1000000	2	**[13100] 13025**	**[15100] 14964**	X	65	36.14
METHOMYL	16752-77-5	0.025	I							20		58000	2				228	
METHOXYCHLOR	72-43-5	0.005	I							63000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	0.005	P			0.02	I			1	X	1000000	2	**[13100] 13141**	**[15000] 15115**	X	124	4.50
METHYL ACETATE	79-20-9	1	**[H] X**							30	X	243500	4,5,6	**[13100] 12982**	**[15100] 14908**	X	57	
METHYL ACRYLATE	96-33-3	0.03	H			0.02	P			55	X	52000	1,2,5	**[13100] 12971**	**[15100] 14892**	X	70	18.07
METHYL CHLORIDE	74-87-3			0.013	H	0.09	I	0.0000018	H	6	X	6180	1,2,3,4	**[13200] 13103**	**[15000] 15038**	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6	I			5	I			32	X	275000	1,2,3,4,5	**[13100] 12974**	**[15100] 14897**	X	80	2.57
METHYL HYDRAZINE	60-34-4	0.001	P			0.00002	X	0.001	X	1	X	1000000	2	**[1300] 13011**	**[14900] 14947**	X	88	5.27
METHYL ISOBUTYL KETONE	108-10-1	0.08	H			3	I			17	X	19550	1,2,4,5	**[13100] 12983**	**[15100] 14910**	X	117	18.07
METHYL ISOCYANATE	624-83-9					0.001	C			10	X	100000	7	**[13000] 13021**	**[15000] 14959**	X	40	
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	0.005	I			0.03	I			54	X	17500	1	**[13100] 12955**	**[15100] 14868**	X	128	

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METHYL METHACRYLATE	80-62-6	1.4	I			0.7	I			10	X	15600	1	**[13100] 13001**	**[15100] 14934**	X	100	4.50
METHYL METHANESULFONATE	66-27-3			0.099	C			0.000028	C	5.2		200000	2			X	203	
METHYL PARATHION	298-00-0	0.00025	I							790		25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006	H			0.04	H			2,200	X	89	9	**[13100] 12945**	**[15000] 14853**	X	163	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4			0.0018	C	3	I	0.00000026	C	12	X	45000	1,2,4,6	**[13100] 13014**	**[15100] 14950**	X	55	0.69
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	0.0005	I							112		1000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.002	P	0.1	P			0.00043	C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	0.004	I			0.003	S			16000	**X**	25	1	**12955**	**14870**		241	
METHYLSTYRENE, ALPHA	98-83-9	0.07	H							660	X	560	9	**[13100] 12942**	**[15100] 14850**	X	165	
METOLACHLOR	51218-45-2	0.15	I							182	X	530	1,5	**[13000] 13035**	**[15000] 14985**	X	100	
METRIBUZIN	21087-64-9	0.025	I							95		1200	1,5				367	
MEVINPHOS	**7786-34-7**	**0.000025**	**O**							**44**	**X**	**600000**	**6**	**12947**	**14856**			
MONOCHLOROACETIC ACID	79-11-8	0.002	H							0.24	X	858000	17	**[13000] 13008**	**[14900] 14943**		189	
NAPHTHALENE	91-20-3	0.02	I	0.12	C	0.003	I	0.000034	C	950	**X**	30	3	**13284**	**15323**		218	0.98
NAPHTHYLAMINE, 1-	134-32-7			1.8	**[S] C**			**[0.00051]**	**[S]**	3200	**X**	1690	2	**15517**	**18386**		301	0.69
NAPHTHYLAMINE, 2-	91-59-8			1.8	C			**[0.00051]**	**[C]**	87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	**[0.1] 0.12**	**[I] O**							880		70	2				399	
NITROANILINE, O-	88-74-4	0.01	X			0.00005	X			27	**X**	1200	6	**12967**	**14886**		284	
NITROANILINE, P-	100-01-6	0.004	P	0.02	P	0.006	P			15		800	2				332	
NITROBENZENE	98-95-3	0.002	I			0.009	I	0.00004	I	130	**X**	2000	2	**12940**	**14847**	X	211	0.64
NITROGUANIDINE	556-88-7	0.1	I							0.13		4400	9				231	
NITROPHENOL, 2-	88-75-5	0.008	S							37	**X**	2100	1,2,3,4,5,6	**12966**	**14884**		215	9.01
NITROPHENOL, 4-	100-02-7	0.008	**[N] M**							230	**X**	16000	2	**12960**	**14878**		279	25.81
NITROPROPANE, 2-	79-46-9					0.02	I	0.0027	H	20	X	16700	1,3,4,5	**[13000] 12984**	**[14900] 14911**	X	120	0.69

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NITROSODIETHYLAMINE, N-	55-18-5			150	I			0.043	I	26	X	93000	10	[13000] 12974	[14900] 14896	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.000008	P	51	I	0.00004	X	0.014	I	8.5	X	1000000	2	[13000] 13001	[14900] 14934	X	154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3			5.4	I			0.0016	I	450	X	1200	9, 10, 11	13008	14946	X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7			7	I			0.002	C	11	X	9900	6	12986	14914	X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6			0.0049	I			0.0000026	C	580	X	35	1	13148	15140		269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9			27	C			0.0077	C	2		13000	9				223	1734.48
OCTYL PHTHALATE, DI-N-	117-84-0	0.01	P							980000000		3	5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025	I							7.1		280000	2				334	
PARAQUAT	1910-42-5	0.0045	I							16200		660000	6,8				352	
PARATHION	56-38-2	[0.006] 0.00003	[H] O							2300		20	2,4,5,6,7			X	375	
PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)	1336-36-3			2	I			0.0001	I	78100		0.0505	10,13				360	
PCB-1016 (AROCLOR)	12674-11-2	0.00007	I	[2]	[S]			[0.00057]	[S]	110000		0.25	5			X	325	
[PCB-1221 (AROCLOR)]	[11104-28-2]			[2]	[S]			[0.00057]	[S]	[1900]		[0.59]	[5]			[X]	[275]	
[PCB-1232 (AROCLOR)]	[11141-16-5]			[2]	[S]			[0.00057]	[S]	[1500]		[1.45]	[7]			[X]	[290]	
[PCB-1242 (AROCLOR)]	[53469-21-9]			[2]	[S]			[0.00057]	[S]	[48000]		[0.1]	[5]			[X]	[325]	
[PCB-1248 (AROCLOR)]	[12672-29-6]			[2]	[S]			[0.00057]	[S]	[190000]		[0.054]	[7,9,11]			[X]	[340]	
PCB-1254 (AROCLOR)	11097-69-1	0.00002	I	[2]	[S]			[0.00057]	[S]	810000		0.057	5			X	365	
[PCB-1260 (AROCLOR)]	[11096-82-5]			[2]	[S]			[0.00057]	[S]	[1800000]		[0.08]	[5]				[385]	
PEBULATE	1114-71-2	0.05	H							630		92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008	I							32000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7			0.09	P					1905	X	480	1,3	[13100] 13120	[15100] 15102	X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	I	0.26	H					7900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.005	I	0.4	I			[0.0000046] 0.0000051	C	20000		14	1,2,4,5				310	0.17
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	0.02	P							61.7		56600	9			X	211	

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PERFLUOROOCTANE SULFONATE (PFOS)	**1763-23-1**	**0.00002**	**M**	**0.07**	**M**					**2.57**		**680**	**19,20,21,22,23**				**258**	
PERFLUOROOCTANOIC ACID (PFOA)	**335-67-1**	**0.00002**	**M**							**2.06**		**9500**	**24**				**192**	
PHENACETIN	62-44-2			0.0022	C			0.00000063	C	110		763	2,3,9				341	4.50
PHENANTHRENE	85-01-8	0.3	S							38000	**X**	1.1	1,4,5	**41808**	**70721**		341	0.63
PHENOL	108-95-2	0.3	I			0.2	C			22	X	84300	1,2,3,4	**[13000] 12977**	**[14900] 14901**		182	36.14
PHENYL MERCAPTAN	108-98-5	0.001	P							562	X	653	5,9	**[13000] 13039**	**[15000] 14989**	X	170	
PHENYLENEDIAMINE, M-	108-45-2	0.006	I							12		351000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7			**[0.0019] 0.00194**	H					5,700		700	5				280	18.07
PHORATE	298-02-2	0.0002	**[H] O**							810		50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2	I			0.02	C			79	**X**	6170	2	**13018**	**14956**		285	13490.40
PICLORAM	1918-02-1	0.07	I							15		430	2				373	
[POLYCHLORINATED BIPHENYLS (AROCLORS) (PCBS)]	**[1336-36-3]**			**[2]**	**[I]**			**[0.00057]**	**[I]**			**[0.0505]**	**[10,13]**				**[360]**	
PROMETON	1610-18-0	0.015	I							346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075	I							200		15	2				321	
PROPACHLOR	**1918-16-7**	**0.013**	**I**							**139**	**X**			**12952**	**14865**		**110**	**1.73**
PROPANIL	709-98-8	0.005	I							160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	2	P			0.2	P			25	X	1000000	2	**[13000] 12981**	**[14900] 14906**	X	82	
PROPAZINE	139-40-2	0.02	I							155		8.6	1,5			X	318	
PROPHAM	122-42-9	0.02	I							51		250	5				257	
PROPYLBENZENE, N-	103-65-1	0.1	X			1	X			720	X	52	6	**[13100] 12971**	**[15100] 14891**	X	159	
PROPYLENE OXIDE	75-56-9	**0.001**	**O**	0.24	I	0.03	I	0.0000037	I	25	X	405000	1	**[13100] 13239**	**[15000] 15057**	X	34	
PYRENE	129-00-0	0.03	I							68000		0.132	1				393	0.07
PYRETHRUM	**8003-34-7**	**0.044**	**O**							**5.62**	**X**	**0.35**	**13**			**X**	**170**	
PYRIDINE	110-86-1	0.001	I							0.0066	X	1000000	2	**[13100] 13142**	**[15000] 15114**	X	115	18.07
QUINOLINE	91-22-5			3	I					1,300		60000	1,3,5			X	238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009	I							580		0.3	2				220	

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Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
RDX	121-82-4	[0.003] 0.004	I	[0.11] 0.08	I					70		59.9	1,9				353	
RESORCINOL	108-46-3	2	TE							2		717000					280	
RONNEL	299-84-3	0.05	H							580		40	2				349	
SIMAZINE	122-34-9	0.005	I	0.12	H					110		5	5				225	
STRYCHNINE	57-24-9	0.0003	I							280		143	5				270	4.50
STYRENE	100-42-5	0.2	I			1	I			910	X	300	5	[13100] 12942	[15100] 14850	X	145	1.20
TEBUTHIURON	34014-18-1	0.07	I							620		2500	2				394	
TERBACIL	5902-51-2	0.013	I							53		710	2				396	
TERBUFOS	13071-79-9	0.000025	H							510		5	6			X	332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003	I							1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.0000000007	[D] I	130000	C	0.00000004	C	38	C	4300000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03	I	0.026	I			0.0000074	I	980	X	1100	1	[13000] 12990	[14600] 14921	X	131	3.79
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.02	I	0.2	I			0.000058	I	79	X	2860	2	[13100] 12957	[15100] 14871	X	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.006	I	0.0021	I	0.04	I	0.00000026	I	300	X	162	1,2,3,4,5	[13100] 13017	[15000] 14955	X	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03	I							6200		183	6				288	0.69
TETRAETHYL LEAD	78-00-2	0.0000001	I							4900		0.8	5			X	202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005	I							550		25	2			X	349	
TETRAHYDROFURAN	109-99-9	0.9	I	0.0076	[N] I	2	I	0.00000194	[N]I	43	X	300000	1,6,7	[13100] 12970	[15100] 14891	X	66	
THIOFANOX	39196-18-4	0.0003	H							0.022		5200	9				280	
THIRAM	137-26-8	[0.005] 0.015	[I] O							1000		30	4				339	
TOLUENE	108-88-3	0.08	I			5	I			130	X	532.4	1,2,3,4	[13100] 13016	[15000] 14953	X	111	9.01
TOLUIDINE, M-	108-44-1			0.016	S			0.000051	S	140		15030	6			X	203	
TOLUIDINE, O-	95-53-4			0.016	P			0.000051	C	410		15000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0	0.004	X	0.03	P					320		7410	1,2,3				200	
TOXAPHENE	8001-35-2	[0.0004] 0.00009	[M] P	1.1	I			0.00032	I	1500		3	2,4,5				432	
TRIALLATE	2303-17-5	[0.013] 0.025	[I] O	0.717	O					2,000		4	5			X	343	

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Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02	I	0.0079	I			0.0000011	I	130	X	3050	1,2,3,4	**[13100] 12942**	**[15100] 14849**	X	149	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30	I			**[30] 5**	**[H] P**			1,200	X	170	1	**[13100] 13064**	**[15000] 15014**	X	48	0.35
TRICHLOROACETIC ACID	76-03-9	0.02	I	0.07	I					20	X	1200000	2,3,5,9	**13291**	**15077**		196	
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01	I	0.029	P	0.002	P			1500	**X**	44.4	1,4,6,7	**13217**	**15233**	X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006	M			0.002	S			3100	**X**	5.8	5	**15677**	**18611**		208	
TRICHLOROETHANE, 1,1,1-	71-55-6	2	I			5	I			100	X	1495	1,4,5,6	**[13100] 13116**	**[15000] 15082**	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	I	0.057	I	0.0002	X	0.000016	I	76	X	4420	1	**[13100] 12982**	**[15100] 14909**	X	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.0005	I	**[0.05] 0.046**	I	0.002	I	0.000004	I	93	X	1100	1	**[13100] 13070**	**[15000] 15022**	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1	I							2400		1000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001	P	0.011	I			0.0000031	I	1100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01	I							43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008	I							1700		140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005	I							24	X	2700	14	**[13100] 13145**	**[15000] 15119**	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.004	I	30	I	0.0003	I			280	X	1896	1,4,6	**[13100] 12974**	**[15100] 14896**	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.003	X			0.0003	P			190	X	2700	14	**[13100] 13047**	**[15000] 14992**	X	142	
TRIETHYLAMINE	121-44-8					0.007	I			51	X	55000	1,4	**[13100] 12951**	**[15100] 14862**	X	90	
TRIETHYLENE GLYCOL	112-27-6	2	P							6		1000000	12			X	285	
TRIFLURALIN	1582-09-8	0.0075	I	0.0077	I					720		4	2,5,6,7				382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	**0.01**	**I**			**[0.007] 0.06**	**[P] I**			2,200	X	56	1	**[13100] 12978**	**[15000] 14904**	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.01	**[X] I**			**0.06**	**I**			660	X	48.9	1	**[13100] 12961**	**[15100] 14876**	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001	P	0.017	P					116	X	1800	2,3,5	**[13000] 12941**	**[15000] 14848**	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005	I	0.03	I					1		100	2				240	
VINYL ACETATE	108-05-4	1	H			0.2	I			2.8	X	20000	1	**[13200] 13017**	**[15000] 14955**	X	73	

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Appendix A
Table 5 – Physical and Toxicological Properties
A. Organic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d)$^{-1}$		RfCi (mg/m^3)		IUR (µg/m^3)$^{-1}$		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference[1]	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr^{-1})
VINYL BROMIDE (BROMOETHENE)	593-60-2					0.003	I	0.000032	H	150	X	4180	12	**[13100] 13086**	**[15000] 15043**	X	16	0.09
VINYL CHLORIDE	75-01-4	0.003	I	1.5	I	0.1	I	**[0.000009] 0.0000088**	I	10	X	2700	1	**[13200] 13109**	**[15000] 15040**	X	-13	0.09
WARFARIN	81-81-2	0.0003	I							910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2	I			0.1	I			350	X	175	13	**[13100] 12982**	**[15000] 14909**	X	140	0.69
ZINEB	12122-67-7	0.05	I							19		10	4				474	

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Appendix A
Table 5 – Physical and Toxicological Properties
B. Inorganic Regulated Substances

Regulated Substance	CAS	RfDo (mg/kg-d)		CSFo $(mg/kg\text{-}d)^{-1}$		RfCi (mg/m^3)		IUR $(ug/m^3)^{-1}$		Kd
ALUMINUM	7429-90-5	1	P			0.005	P			9.9
ANTIMONY	7440-36-0	0.0004	I							45
ARSENIC	7440-38-2	0.0003	I	1.5	I	0.000015	C	0.0043	I	29
BARIUM AND COMPOUNDS	7440-39-3	0.2	I			0.0005	H			41
BERYLLIUM	7440-41-7	0.002	I			0.00002	I	0.0024	I	790
BORON AND COMPOUNDS	7440-42-8	0.2	I			0.02	H			3
CADMIUM	7440-43-9	0.0005	I			0.00001	D	0.0018	I	75
CHROMIUM III	16065-83-1	1.5	I							1,800,000
CHROMIUM VI	18540-29-9	0.003	I	**[0.42] 0.5**	C	0.000008	I	**[0.084] 0.012**	I	19
COBALT	7440-48-4	0.0003	P			0.000006	P	0.009	P	45
COPPER	7440-50-8	**[0.037] 0.0325**	H							430
CYANIDE, FREE	57-12-5	0.0006	I			0.0008	I			9.9
FLUORIDE	16984-48-8	0.04	C			0.013	C			
IRON	7439-89-6	0.7	P							25
LEAD	7439-92-1			0.0085	C			0.000012	C	900
LITHIUM	7439-93-2	0.002	P							300
MANGANESE	7439-96-5	**[0.047] 0.14**	I			0.00005	I			65
MERCURY	7439-97-6	0.00016	C			0.0003	I			52
MOLYBDENUM	7439-98-7	0.005	I							20
NICKEL	7440-02-0	0.02	I			0.00009	D	0.00024	Is	65
NITRATE NITROGEN	14797-55-8	1.6	I							
NITRITE NITROGEN	14797-65-0	0.1	I							
PERCHLORATE	7790-98-9	0.0007	I							0
SELENIUM	7782-49-2	0.005	I			0.02	C			5
SILVER	7440-22-4	0.005	I							8.3
STRONTIUM	7440-24-6	**[0.06] 0.6**	I							
THALLIUM	7440-28-0	0.00001	X							71
TIN	7440-31-5	0.6	H							250
VANADIUM	7440-62-2	0.00007	P			0.0001	D			1,000
ZINC	7440-66-6	0.3	I							62

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s = surrogate

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	*CASRN*	*ALL AQUIFER GROUNDWATER MSC (µg/L)*	*Residential Soil MSC (mg/kg) 0-15 feet*	*Non-Residential Soil MSCs*		*Soil to Groundwater[1] (mg/kg)*
				Surface Soil (mg/kg) 0-2 feet	*Subsurface Soil (mg/kg) 2-15 feet*	
ACETIC ACID	64-19-7	5	100	100	100	0.5
ACETIC ANHYDRIDE	108-24-7	5	100	100	100	0.5
AMYL ACETATE, N-	628-63-7	5	100	100	100	0.5
AMYL ACETATE, SEC-	626-38-0	5	100	100	100	0.5
ANTU (ALPHA-NAPHTHYLTHIOUREA)	86-88-4	5	100	100	100	0.5
BHC, DELTA	319-86-8	5	100	100	100	0.5
BROMOPHENYL PHENYL ETHER, 4-	101-55-3	5	100	100	100	0.5
BUTYL ACETATE, N-	123-86-4	5	100	100	100	0.5
BUTYL ACETATE, SEC-	105-46-4	5	100	100	100	0.5
BUTYL ACETATE, TERT-	540-88-5	5	100	100	100	0.5
BUTYLAMINE, N-	109-73-9	5	100	100	100	0.5
CALCIUM CHROMATE	13765-19-0	5	100	100	100	0.5
CALCIUM CYANAMIDE	156-62-7	5	100	100	100	0.5
CARBONYL FLUORIDE	353-50-4	5	100	100	100	0.5
CATECHOL	120-80-9	5	100	100	100	0.5
CHLOROETHYL VINYL ETHER, 2-	110-75-8	5	100	100	100	0.5
CHLOROPHENYL PHENYL ETHER, 4-	7005-72-3	5	100	100	100	0.5
DECABORANE	17702-41-9	5	100	100	100	0.5
DIETHYLAMINE	109-89-7	5	100	100	100	0.5
DIGLYCIDYL ETHER (DGE)	7/5/2238	5	100	100	100	0.5
DIMETHYL PHTHALATE	131-11-3	5	100	100	100	0.5
DIMETHYL SULFATE	77-78-1	5	100	100	100	0.5
DIMETHYLPHENETHYLAMINE, ALPHA, ALPHA-	122-09-8	5	100	100	100	0.5
DIOXATHION	78-34-2	5	100	100	100	0.5
ETHYL METHANESULFONATE	62-50-0	5	100	100	100	0.5
ETHYLAMINE	75-04-7	5	100	100	100	0.5
[ETHYLENE CHLORHYDRIN]	**[107-07-3]**	**[5]**	**[100]**	**[100]**	**[100]**	**[0.5]**
FAMPHUR	52-85-7	5	100	100	100	0.5

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	*CASRN*	*ALL AQUIFER GROUNDWATER MSC (µg/L)*	*Residential Soil MSC (mg/kg) 0-15 feet*	*Non-Residential Soil MSCs*		*Soil to Groundwater[1] (mg/kg)*
				Surface Soil (mg/kg) 0-2 feet	*Subsurface Soil (mg/kg) 2-15 feet*	
FENSULFOTHION	115-90-2	5	100	100	100	0.5
HEXACHLOROPROPENE	1888-71-7	5	100	100	100	0.5
IODOMETHANE	74-88-4	5	100	100	100	0.5
ISOAMYL ACETATE	123-92-2	5	100	100	100	0.5
ISOBUTYL ACETATE	110-19-0	5	100	100	100	0.5
ISODRIN	465-73-6	5	100	100	100	0.5
ISOPHORONE DIISOCYANATE	4098-71-9	5	100	100	100	0.5
ISOSAFROLE	120-58-1	5	100	100	100	0.5
LITHIUM HYDRIDE	7580-67-8	5	100	100	100	0.5
MANGANESE CYCLOPENTADIENYL TRICARBONYL	12079-65-1	5	100	100	100	0.5
METHYL ISOAMYL KETONE	110-12-3	5	100	100	100	0.5
METHYL MERCAPTAN	74-93-1	5	100	100	100	0.5
METHYLAMINE	74-89-5	5	100	100	100	0.5
[MEVINPHOS]	**[7786-34-7]**	**[5]**	**[100]**	**[100]**	**[100]**	**[0.5]**
MONOCROTOPHOS	6923-22-4	5	100	100	100	0.5
NAPHTHOQUINONE, 1,4-	130-15-4	5	100	100	100	0.5
NITRIC ACID	7697-37-2	5	100	100	100	0.5
NITROQUINOLINE-1-OXIDE, 4-	56-57-5	5	100	100	100	0.5
OSMIUM TETROXIDE	20816-12-0	5	100	100	100	0.5
PENTABORANE	19624-22-7	5	100	100	100	0.5
PERCHLOROMETHYL MERCAPTAN	594-42-3	5	100	100	100	0.5
PICOLINE, 2-	109-06-8	5	100	100	100	0.5
PROPANOL, 1-	71-23-8	5	100	100	100	0.5
PROPIONIC ACID	79-09-4	5	100	100	100	0.5
PROPIONITRILE (ETHYL CYANIDE)	107-12-0	5	100	100	100	0.5
PROPYLENE IMINE	75-55-8	5	100	100	100	0.5
[PYRETHRUM]	**[8003-34-7]**	**[5]**	**[100]**	**[100]**	**[100]**	**[0.5]**
QUINONE (p-BENZOQUINONE)	106-51-4	5	100	100	100	0.5

Appendix A

Table 6 – Threshold of Regulation Compounds

REGULATED SUBSTANCE	*CASRN*	*ALL AQUIFER GROUNDWATER MSC (µg/L)*	*Residential Soil MSC (mg/kg) 0-15 feet*	*Non-Residential Soil MSCs*		*Soil to Groundwater[1] (mg/kg)*
				Surface Soil (mg/kg) 0-2 feet	*Subsurface Soil (mg/kg) 2-15 feet*	
SELENIUM HEXAFLUORIDE	7783-79-1	5	100	100	100	0.5
SODIUM BISULFITE	7631-90-5	5	100	100	100	0.5
SULFIDE	18496-25-8	5	100	100	100	0.5
SULFUR MONOCHLORIDE	10025-67-9	5	100	100	100	0.5
SULFURIC ACID	7664-93-9	5	100	100	100	0.5
TELLURIUM	13494-80-9	5	100	100	100	0.5
TELLURIUM HEXAFLUORIDE	7783-80-4	5	100	100	100	0.5
TEPP (TETRAETHYL PYROPHOSPHATE)	107-49-3	5	100	100	100	0.5
TETRANITROMETHANE	509-14-8	5	100	100	100	0.5
THIONAZIN	297-97-2	5	100	100	100	0.5
TRIETHYLPHOSPHOROTHIOATE, O,O,O-	126-68-1	5	100	100	100	0.5

[1] The value in the table is 100 time the groundwater MSC.
The option to use the SPLP is also available to calculate the soil to groundwater numeric value (See §250.310)

APPENDIX A
Table 7
DEFAULT VALUES FOR CALCULATING MEDIUM-SPECIFIC CONCENTRATIONS FOR LEAD

[Input Values Used in UBK Model for Lead
[(for residential exposure scenario)

Geometric Standard Deviation (GSD)	1.42 (default)	Drinking water intake	Model default
Outdoor air lead concentration	0.2 μg/m^3 (default)	Soil lead level	495 μg/g
Indoor air lead concentration (% of outdoor)	30	Indoor dust lead level	495 μg/g
Time spent outdoors	Model default	Soil/dust ingestion weighting factor (%)	45
Ventilation rate	Model default	Paint lead intake	Model default
Lung absorption	Model default	Maternal contribution method	Infant model
Dietary lead intake	Model default	Mother's blood lead at birth	7.5 μg/dL blood (model default)
GI method/bioavailability	Non-linear	Target blood lead level	10 μg/dL blood
Lead concentration in drinking water	4.00 μg/L (default)]		

[Input Values Used in SEGH Equation
(for nonresidential exposure scenario)

Concentration of lead in soil (S)	987 μg/g
Target blood lead level in adults (T)	20 μg/dL blood
Geometric standard deviation of blood lead distribution (G)	1.4
Baseline blood lead level in target population (B)	4 μg/dL blood
Number of standard deviations corresponding to degree of protection required for the target population (n)	1.645 (for 95% of population)
Slope of blood lead to soil lead relationship (δ)	7.5 μg/dL blood per μg/g soil]

[REFERENCE

WIXSON, B.G. (1991). The Society for Environmental Geochemistry and Health (SEGH) Task Force Approach to the Assessment of Lead in Soil. Trace Substances in Environmental Health . 11-20.]

Input Values Used in IEUBK Model for Lead (for residential exposure scenario)		
Parameter	Value	
Outdoor Air Pb Concentration (µg/m^3)	Constant Value: 0.1	
Dietary Lead Intake (µg/day)	Age (Years)	Input
	0-1	2.26
	1-2	1.96
	2-3	2.13
	3-4	2.04
	4-5	1.95
	5-6	2.05
	6-7	2.22
Water Consumption (L/day)	Age (Years)	Input
	0-1	0.2
	1-2	0.5
	2-3	0.52
	3-4	0.53
	4-5	0.55
	5-6	0.58
	6-7	0.59
Use Alternate Water Value?	NO	
Lead concentration in drinking water (µg/L)	4	
MEDIA	ABSORPTION FRACTION PERCENT	
Soil	30	
Dust	30	
Water	50	
Diet	50	
Alternate	0	
Calculate PRG		
Select Age Group for Graph	0 to 84 months	
Change Cutoff	TBD	
Change GSD	1.6	
Probability of Exceeding the Cutoff	5	

Input Values Used in the Adult Lead Model (ALM) (for non-residential exposure scenario)			
Variable	Description of Variable	Units	Value
$PbB_{fetal, 0.95}$	Target PbB in fetus	µg/dL	TBD
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	µg/dL per µg/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	µg/dL	0.6
IR_S	Soil ingestion rate	g/day	0.050
$AF_{S, D}$	Absorption fraction	--	0.12
$EF_{S, D}$	Exposure frequency	days/yr	219
$AT_{S, D}$	Averaging time	days/yr	365

[Pa.B. Doc. No. 20-238. Filed for public inspection February 14, 2020, 9:00 a.m.]