



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Oil and Gas Management

ESCGP-3

Oil and Gas Industry Training

September 25, 2018

Dial-in number for Audio: 1-877-668-4493

Event Number: 649 619 207

WebEx Technical Support: 866-229-3239

Note: You will not hear any audio until the beginning of the webinar. To receive a call back, provide your phone number when you join the event.

Tom Wolf, Governor

Patrick McDonnell, Secretary



Oil and Gas Management

ESCGP-2 to ESCGP-3 Background and Process

Regulatory Authority

- 102.5(m) The Department **may issue general permits for activities not subject to NPDES requirements**
 - (1) Authorization – Department may issue a general permit on a regional or statewide basis or limited to specific watersheds, particular categories of streams or designated geographic regions, for a category of activities not subject to the NPDES requirements, but regulated under this chapter if; (*i through iv*).

Regulatory Authority *continued*

- 102.5(c) A person proposing oil and gas activities that involve 5 acres or more of earth disturbance over the life of the project shall obtain an E&S Permit under this chapter prior to commencing the earth disturbance activity.

ESCGP-3

Background

- Based on ESCGP-2
- No significant regulatory changes
- Electronic permit
- Expedited review eligibility and process
- Changes to NOI Form and Instructions

Workgroups

- Permit Documents
 - June 25, 2018
 - September 28, 2018
- Prioritized Review
 - Fall 2018 and continue into 2019
- Beta Testing of ePermit application
 - O&G permit review and administrative staff
 - Industry



Oil and Gas Management

ESCGP-2 to ESCGP-3 Transition Plan



Where to find the General Permit & associated documents

www.dep.pa.gov > [Businesses](#) > [Energy](#) > [Oil and Gas Programs](#) > [Office of Oil and Gas Management](#) > [Public Resources](#)

PUBLIC RESOURCES

EROSION AND SEDIMENT CONTROL GENERAL PERMIT FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR TRANSMISSION FACILITIES (ESCGP-3)

On July 14, 2018 the Department published the notice of availability of the draft Erosion and Sediment Control General Permit for formal public comment, which is available on [the PA Bulletin](#). The formal public comment period on this Authorization of Coverage is open until Monday, August 13. Directions for submitting public comments are in the Bulletin notice, and comments may be submitted through the Department's [eComment system](#). Updated draft versions of the following documents associated with ESCGP-3 are now available for review at the links provided below:

- [the ESCGP-3 Transition Plan \(PDF\)](#),
- [the Notice of Intent \(NOI\) for Coverage under the Erosion and Sediment Control General Permit \(ESCGP-3\) \(PDF\)](#),
- [The Instructions for the Notice of Intent \(NOI\) for Coverage under the Erosion and Sediment Control General Permit \(ESCGP-3\) \(PDF\)](#), and the
- [Notice of Intent \(NOI\) Administrative Completeness Checklist \(PDF\)](#).

RELATED INFORMATION

ABANDONED AND ORPHAN WELL PROGRAM

ADVISORY COMMITTEES

ANNUAL REPORT

CONSERVATION LAW

CONTACTS AND DIRECTIONS

ELECTRONIC SUBMISSION GUIDES

FORMS

ESCGP-2 transition to ESCGP-3

October 2018

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Last day for new ESCGP-2 NOIs

ePermit goes live

ESCGP-3 PA Bulletin

December 2018

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

ESCGP-2 finalize deficiencies

ESCGP-2 Expires

Non-Transmission Projects

Published in PA Bulletin

Last day to submit "new"

Last day to reconcile technical deficiencies

Permit Expires



Published in PA Bulletin

Last day to submit paper ESCGP-3



ePermit available



ESCGP paper vs. electronic

Not To Scale

ESCGP-3 Training Schedule

September 2018

						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

9/11, 12 = DEP BWEW/CDs

9/18 & 19 = DEP O&G

9/19 = Industry ePermit (BIT)

9/25 & 27 = Industry ESCGP-3

9/25 = DEP BCW SCRO Roundtable

October 2018

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

10/2 = DEP BCW NWRO Roundtable

10/3 = DEP BCW SWRO Roundtable

10/10 = Industry - Pittsburgh

10/16 = DEP BCW NERO Roundtable

10/18 = Industry – State College

10/30 = DEP BCW SERO Roundtable

November 2018

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

11/6 = DEP BCW SCRO Roundtable

BLUE = Webinars

YELLOW = In-person training



Oil and Gas Management

ESCGP-3

General Permit and Authorization of Coverage

ESCGP-3

8000-PM-OOGM0006 7/2018

Permit



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF WATER PROGRAMS
OFFICE OF OIL AND GAS MANAGEMENT

AUTHORIZATION OF COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR TRANSMISSION FACILITIES

AUTHORIZATION NUMBER:

Project Name & Location

<input type="text"/>
<input type="text"/>
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Permittee Name & Address

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In compliance with the provisions of Pennsylvania's Clean Streams Law, as amended, 35 P.S. §§ 691.1 *et seq.*, 58 Pa. C.S. §§ 3201-3274 (2012 Oil and Gas Act) and regulations promulgated thereto, including 25 Pa Code Chapters 78, 78a, 93 and 102, and sections 1905-A, 1917-A and 1920-A of the Administrative Code of 1929, 71 P. S. §§ 510-5, 510-17 and 510-20, the Department of Environmental Protection (Department) hereby authorizes the Notice of Intent

PUBLIC RESOURCES

EROSION AND SEDIMENT CONTROL GENERAL PERMIT FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR TRANSMISSION FACILITIES (ESCGP-3)

On July 14, 2018 the Department published the notice of availability of the draft Erosion and Sediment Control General Permit for formal public comment, which is available on [the PA Bulletin](#). The formal public comment period on this Authorization of Coverage is open until Monday, August 13. Directions for submitting public comments are in the Bulletin notice, and comments may be submitted through the Department's [eComment system](#). Updated draft versions of the following documents associated with ESCGP-3 are now available for review at the links provided below:

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FORMS

ESCGP-3

GENERAL PERMIT

Recently Closed Comment Periods

Document Title	Category	PA Bulletin	Period Start	Period End	Action
Federal Consistency Notice under the Coastal Zone Management Act: a proposal to construct a groin on the Lake Erie shoreline at 3777 Lake Front Drive in Millcreek Township, Erie County	Other	 9/1/2018	9/1/2018	9/17/2018	View comments
Final-Omitted Rulemaking: Electronic Submission of Air Quality General Plan Approval and General Operating Permit Applications	Reg	 8/21/2018	8/21/2018	8/21/2018	*
Draft NPDES General Permit for Discharges from Petroleum Product Contaminated Groundwater Remediation Systems (PAG-05)	Other	 7/28/2018	7/28/2018	8/27/2018	View comments
Draft Erosion and Sediment Control General Permit for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities (ESCGP-3)	Other	 7/14/2018	7/14/2018	8/13/2018	View comments
Draft Stream Evaluation Report: Paradise Creek, Monroe County	Other	 7/14/2018	7/14/2018	8/13/2018	View comments
Draft Stream Evaluation Report: Cranberry Creek, Monroe County	Other	 7/14/2018	7/14/2018	8/13/2018	View comments
Draft Stream Evaluation Report: Clyde Run, Elk County	Other	 7/14/2018	7/14/2018	8/13/2018	View comments
Draft Stream Evaluation Report: UNT 28168 to Oley Creek, Luzerne County	Other	 7/14/2018	7/14/2018	8/13/2018	View comments

GENERAL PERMIT

Comments Received

- 19 commentators
- 82 comments on the General Permit
- Enhancements to expedited review
- Extension of ESCGP-2
- Support and opposition to electronic permitting
- Act 14 Notifications
- Phased projects

GENERAL PERMIT

Changes from ESCGP-2 to ESCGP-3

- Expedited review process
- ePermit
- Site-specific PPC Plan
- PHMC notification prior to submitting application
- Resource delineation responsibility
- Housekeeping/language edits

GENERAL PERMIT

Changes from ESCGP-2 to ESCGP-3 continued

- Training requirement added (new section 8)
- PHMC (new section 9)
- PNDI T&E Species (new section 10)
- Long term operation and maintenance with no well permit (edited section 23)
- Long term operation and maintenance with well permit (new section 24)

GENERAL PERMIT

Non-Changes from July 14, 2018 to present

- Extend ESCGP-2
- Certification of the General Permit
- Habitat Conservation Plan
- Act 14 Notification

GENERAL PERMIT

4. RENEWAL, MODIFICATION, TERMINATION OR REVOCATION AND REISSUANCE

a. The Department will publish a notice of any draft, renewed, or reissued general permit or of any amendments to this general permit in the *Pennsylvania Bulletin*. After a comment period notice, the final, renewed, reissued or amended general permit will be published in the *Pennsylvania Bulletin*. Any person with an unexpired authorization of coverage under the general permit shall be responsible for complying with the final renewed, reissued or amended general permit. Such persons shall be covered by the general permit even if the permittee has not submitted a separate NOI to be covered by such final renewed, reissued or amended general permit.

b. This general permit may be modified, suspended, revoked, reissued, or terminated during its term for any of the causes specified in 25 Pa. Code Chapter 102, or to require compliance with updated water quality standards or impaired water listings.

GENERAL PERMIT

4. RENEWAL, MODIFICATION, TERMINATION OR REVOCATION AND REISSUANCE

c. The filing of a request by the permittee for an ~~permit~~ **authorization of coverage** under this general permit or coverage modification, revocation, reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not eliminate any existing permit conditions.

d. ~~Permit~~ **Authorization of coverage** under ESCGP-3 modification or revocation will be conducted according to 25 Pa. Code Chapter 102.

ESCGP-2 GENERAL PERMIT

6. NOTICE OF INTENT (NOI) SUBMITTAL

I. Authorization of coverage under this permit does not authorize well site preparation for the following: *(unless a waiver is granted by the Department)*

(1) Well setback - Conventional 100 feet & unconventional 300 feet from solid blue lined stream on USGS Quad.

(2) Unconventional earth disturbance setback 100 feet from the edge of any solid blue lined stream, spring or body of water as identified on USGS Quad.

(3) Unconventional well 300 foot setback from wetlands greater than 1 acre and edge of the disturbed area of any well site must maintain a 100-foot setback from the boundary of the wetlands.

58 Pa.C.S. § 3215(b)(4).

ESCGP-3 GENERAL PERMIT

6. NOTICE OF INTENT (NOI) SUBMITTAL

~~I. Authorization of coverage under this permit does not authorize well site preparation for the following: *(unless a waiver is granted by the Department)*~~

~~(1) Well setback – Conventional 100 feet & unconventional 300 feet from solid blue lined stream on USGS Quad.~~

~~(2) Unconventional earth disturbance setback 100 feet from the edge of any solid blue lined stream, spring or body of water as identified on USGS Quad.~~

~~(3) Unconventional well 300 foot setback from wetlands greater than 1 acre and edge of the disturbed area of any well site must maintain a 100-foot setback from the boundary of the wetlands.~~

~~58 Pa.C.S. § 3215(b)(4).~~

GENERAL PERMIT – Expedited Review

6. NOTICE OF INTENT (NOI) SUBMITTAL

m. The expedited review process will not be available to persons seeking an ESCGP-3 for the following activities:

- (1) HQ & EV Watersheds. ***Exceptional value wetlands (105.17). Impaired surface waters (siltation).***
- (2) Well pad will be constructed in or on a floodplain.
- (3) Earth disturbance on lands known to be currently contaminated by the release of regulated substances as defined in Section 103 of The Pennsylvania Land Recycling and Remediation Standards Act (Act 2)
- (4) ***Hazardous geologic conditions***
- (5) ***An applicant who has existing unresolved non-compliance issues with the Department.***
- (6) ***Project that is part of a transmission pipeline or associated facilities or is regulated by FERC.***

GENERAL PERMIT – Expedited Review

6. NOTICE OF INTENT (NOI) SUBMITTAL

m. The expedited review process will not be available to persons seeking an ESCGP-3 for the following activities:

(4) Hazardous geologic conditions may provide hazards or have the potential to cause or contribute to pollution when disturbed, including, but not limited to:

- land sliding & steep slopes,
- karst/sinkhole formation,
- acid producing rock (including coal seams)
- radioactive or arsenic bearing formations,
- surface mines, deep mines, mine spoil dump area, abandoned mine drainage, or abandoned mine drainage treatment systems.

GENERAL PERMIT – Expedited Review Training

6. NOTICE OF INTENT (NOI) SUBMITTAL

o. NOIs through the expedited permit process shall be prepared and certified by a *licensed professional who has attended up-to-date training* provided by the Department's Office of Oil and Gas Management on erosion and sediment control and post construction stormwater management for oil and gas activities, *including trainings provided on the Department's website.*

GENERAL PERMIT – New Section

8. TRAINING

- a. Permittee must provide training on the requirements of the permit to personnel responsible for;
 - installation maintenance and/or repair of E&S and PCSM BMPs
 - application and storage of treatment chemicals
 - conducting inspections
 - taking corrective actions

- b. Permittee is not required provide or document training for subcontractors, but they are responsible for ensuring that contractors and subcontractors are aware of the permit and its conditions.

GENERAL PERMIT – New Section

8. TRAINING

c. The permittee must provide training to personnel if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections)

- (1) The permit deadlines associated with installation, maintenance, and removal of stormwater controls and with stabilization;
- (2) The location of all stormwater controls on the site required by this permit and how they are to be maintained;
- (3) The proper procedures to follow with implementation of the PPC Plan; and
- (4) When and how to conduct inspections, record applicable findings, and take corrective actions.

GENERAL PERMIT – New Section

8. TRAINING

d. A training log must be kept onsite and made available upon request from the Department or conservation district.

e. All personnel must have access at all times to;

- electronic or paper copy of this permit,
- approved copies of the E&S and PCSM Plans, as well as
- PPC Plans, and
- other relevant documents or information that must be kept with these plans.

GENERAL PERMIT – New Section

9. PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION (PHMC) GENERAL CONDITIONS

- a. If the permittee encounters archaeological specimens or historic resources, as defined by 37 Pa.C.S. § 103, during earth disturbance activities, the permittee shall immediately cease earth disturbance activities and shall immediately notify the Department and shall concurrently notify the Pennsylvania Historical and Museum Commission (PHMC) at P.O. Box 1026, Harrisburg, PA 17120-1026, telephone 717.783.8947.
- b. During earth disturbance activities, the permittee shall protect historic, cultural and archaeological sites as identified in the Pennsylvania Inventory of Historical Places and the National Register of Historical Places in accordance with applicable State and Federal laws.

GENERAL PERMIT – New Section

10. THREATENED AND ENDANGERED SPECIES PROTECTION

- a. If applicable, the permittee *shall comply with the provisions of any Habitat Conservation Plan approved by the jurisdictional resource agencies* to protect State or Federal threatened and endangered species.

GENERAL PERMIT – New Section

10. THREATENED AND ENDANGERED SPECIES PROTECTION

- b. If any potential impact is identified on the PNDI receipt to State or Federal threatened or endangered species, the permittee shall implement any avoidance/mitigation measures indicated on the PNDI receipt and/or other measures determined necessary by the resource agencies in a clearance letter, determination or other correspondence to resolve potential species impacts and ensure compliance with applicable State and Federal laws pertaining to the protection of State or Federal threatened and endangered species.
- c. When conducting earth disturbance activities, the permittee has a continuing obligation to ensure compliance with applicable State and Federal laws pertaining to the protection of State or Federal threatened and endangered species.

GENERAL PERMIT

20. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLANS

b. Oil and gas activities associated with unconventional well development PPC Plans must comply with 25 Pa. Code § 78a.55. Under 25 Pa. Code § 78a.55(a), permittees conducting unconventional oil and gas activities shall prepare and implement a site-specific PPC Plan according to 25 Pa. Code §§ 91.34 and 102.5(l). Under 25 Pa. Code § 78a.55(b), in addition an unconventional well operator shall prepare and develop a site-specific PPC Plan prior to storing, using, or generating a regulated substance on an unconventional well site from the drilling, alteration, production, plugging or other activities associated with a gas well or transporting those regulated substances to, on or from an unconventional well site.

GENERAL PERMIT

20. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLANS

c. Under 78a.55(f), copies of an unconventional well operator's PPC Plan shall be provided to the Department, the Fish and Boat Commission or the landowner upon request and shall be available at the site during drilling and completion activities for review.

GENERAL PERMIT

20. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLANS

d. Under 25 Pa. Code § 78.55(a), conventional well operators are required to prepare and implement a control and disposal plan. Conventional operators may meet this regulatory requirement by developing and implementing a site-specific PPC Plan

GENERAL PERMIT

21. POST CONSTRUCTION STORMWATER MANAGEMENT PLANS/SITE RESTORATION

d. In accordance with 25 Pa. Code § 102.8(n), the portion of a site reclamation or restoration plan that identifies PCSM BMPs to manage stormwater from oil and gas activities permitted in accordance with Chapters 78 and 78a, pipelines; or other similar utility infrastructure may be used to satisfy the PCSM requirements if the PCSM, reclamation or restoration plan meets the requirements of §§ 102.8(b), (c), (e), (f), (h), (i) and (l), and when applicable, (m). For unconventional well sites, in accordance with 25 Pa. Code § 78a.65(d), disturbed areas associated with well sites that are not included in a restoration plan, and other remaining impervious surfaces, must comply with all requirements in Chapter 102 (relating to erosion and sediment control). For these projects, the PCSM Plan provisions in 25 Pa. Code § 102.8(n) apply only to the portions of the restoration plan that provide for restoration of disturbed areas to meadow in good condition or better or otherwise incorporate ABACT or nondischarge PCSM BMPs.

GENERAL PERMIT

23. LONG-TERM OPERATION AND MAINTENANCE FOR PROJECTS THAT DO NOT REQUIRE A WELL PERMIT

- a. For projects that do not require a well permit under the 2012 Oil and Gas Act, the permittee shall be responsible for long-term operation and maintenance of PCSM/SR BMPs unless a different person is identified in the NOT and has agreed to long-term operation and maintenance of PCSM/SR BMPs.
- b. For any property containing a PCSM/SR BMP, the permittee shall record an instrument with the recorder of deeds which will assure disclosure of the PCSM/SR BMP and the related obligations in the ordinary course of a title search of the subject property.

GENERAL PERMIT

24. LONG-TERM OPERATION AND MAINTENANCE FOR WELL SITE CONSTRUCTION REQUIRING A WELL PERMIT

- a. For projects requiring a well permit under the 2012 Oil and Gas Act, the permittee must restore the well site within 9 months after the completion of drilling in accordance with the 2012 Oil and Gas Act and Chapters 78 and 78a.
- b. For Commonwealth owned property, a covenant not required until the transfer of the land. Upon transfer of the Commonwealth-owned property containing, the deed must comply with § 102.8(m)(3).

GENERAL PERMIT

24. LONG-TERM OPERATION AND MAINTENANCE FOR WELL SITE CONSTRUCTION REQUIRING A WELL PERMIT

c. Post Drilling Requirements:

(1) Post-drilling Restoration Report must be filed within 60 days after drilling is completed in accordance with § 78.65(3) and § 78a.65(e)

(2) Written Consent of the surface landowner; satisfies post-drilling restoration requirements

Post-Drilling Landowner Waiver of Well Site Restoration Form

GENERAL PERMIT

24. LONG-TERM OPERATION AND MAINTENANCE FOR WELL SITE CONSTRUCTION REQUIRING A WELL PERMIT

d. Post Plugging Requirements:

(1) Post plugging restoration report must be filed within 60 days after plugging in accordance with § 78.65(3) and § 78a.65(f).

(2) Written consent of the surface landowner satisfies post-plugging restoration requirements

Post-Plugging Landowner Waiver of Well Site Restoration Form

PCSM Plan must be provided to the surface landowner

Surface landowner records instrument with the recorder of deeds for remaining PCSM BMPs



Oil and Gas Management

ESCGP-3 Division of Duties

<https://www.epa.gov/npdes/oil-and-gas-stormwater-permitting>

 An official website of the United States government.



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Oil and Gas Stormwater Permitting

Clean Water Act (CWA) section 402(l)(2) provides that EPA shall not require, nor force a state to require a CWA section 402 permit for discharges of stormwater runoff from oil and gas* exploration, production, processing or treatment operations, or transmissions facilities, composed entirely of flows that are from conveyances or systems of conveyances used for collecting and conveying precipitation runoff, and that are not “contaminated by contact with any overburden, raw material, intermediate products, finished product, byproduct or waste products located on the site of such operations.” This exemption applies to both construction and industrial activities associated with oil

Types of Oil and Gas Activities and Facilities that are Either Exempt or Non-Exempt from Stormwater Permitting

Exempt Facilities and Activities

The types of oil and gas facilities and activities subject to the waiver for stormwater permitting fall under “exploration, production, processing or treatment operations, or transmission facilities”.

These terms are further explained in [Amendments to the National Pollutant Discharge Elimination System \(NPDES\) Regulations for Storm Water Discharges Associated With Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities](#) (bottom page 33635). The list of exempt facilities/activities includes (list not exhaustive):

- [Well sites and drill pads](#)
- Access and maintenance roads including haul / maintenance roads solely servicing exempt activities
- Local “borrow pits” to provide sand, gravel, and soil for maintenance of service roads and infrastructure necessary to operate producing oil and gas fields, crude oil pipelines, and natural gas transmission lines. To receive the exemption the facility can only supply material to the exempt oil and gas project.
- [Gathering line systems](#)
- [Transmission line systems](#)
- Staging areas for oil and gas operations that are contiguous to the exempt project (areas/locations where pipe, sand, etc., are staged for drilling activities)
- Water lines, electric utility lines and railroad infrastructure servicing field exploration and production activities
- Storage tanks and oil-water separators
- Midstream processing plants

- Newly constructed offshore “islands” used as platforms for Alaskan exploration and production drilling operations
- Central liquid waste treatment set up on a drill pad even if it takes waste from other drill pads

Non-Exempt Facilities and Activities

The following facilities and activities (list may not be exhaustive) are not exempt and must have CWA section 402 permit coverage to discharge stormwater (if they do not qualify for the conditional no exposure waiver). These are typically downstream from an oil and gas exploration, production, processing or treatment operation, or transmission facility, and they involve or support the physical and/or chemical transformation of raw materials into final manufactured products for sale.

- Improvements to public roads for access to projects
- LNG re-gasification terminals
- Conventional petroleum and petrochemical refineries (as defined in 40 CFR 419)
- Fischer-Tropsche “Clean Fuels” synthetic fuel plants
- Ethanol plants
- Oil shale refineries, Cracking Plants
- Natural gas utility or city-owned “end-user” distribution systems connecting industrial, commercial and residential customers
- Offshore jack-up rigs, semi-submersible drill ships, dynamically positioned drill ships, production platforms and LNG re-gasification terminals subject to regulation of deck drainage (40 CFR 435) and Ocean Discharge Criteria (CWA 403)
- Refined products pipelines (connecting refineries with local and distant product storage facilities)
- Company and/or privately owned hotels, RV parks, campgrounds, worker camps, barracks and airport facilities servicing oil and gas exploration drilling and production operations
- Centralized equipment maintenance and storage facilities owned by oil and gas drilling contractors, oilfield service companies (for example, Halliburton, Baker-Hughes, Schlumberger) and operating companies (for example, Devon Energy, BP-Amoco, El Paso) that are not contiguous to an exempt facility/activity

Program Duties Related to Oil and Gas Development

This is for visual reference/guide. See narrative for additional explanation and guidance.
 Permit requirements shown below are subject to regulatory requirements and may not be required in all situations.

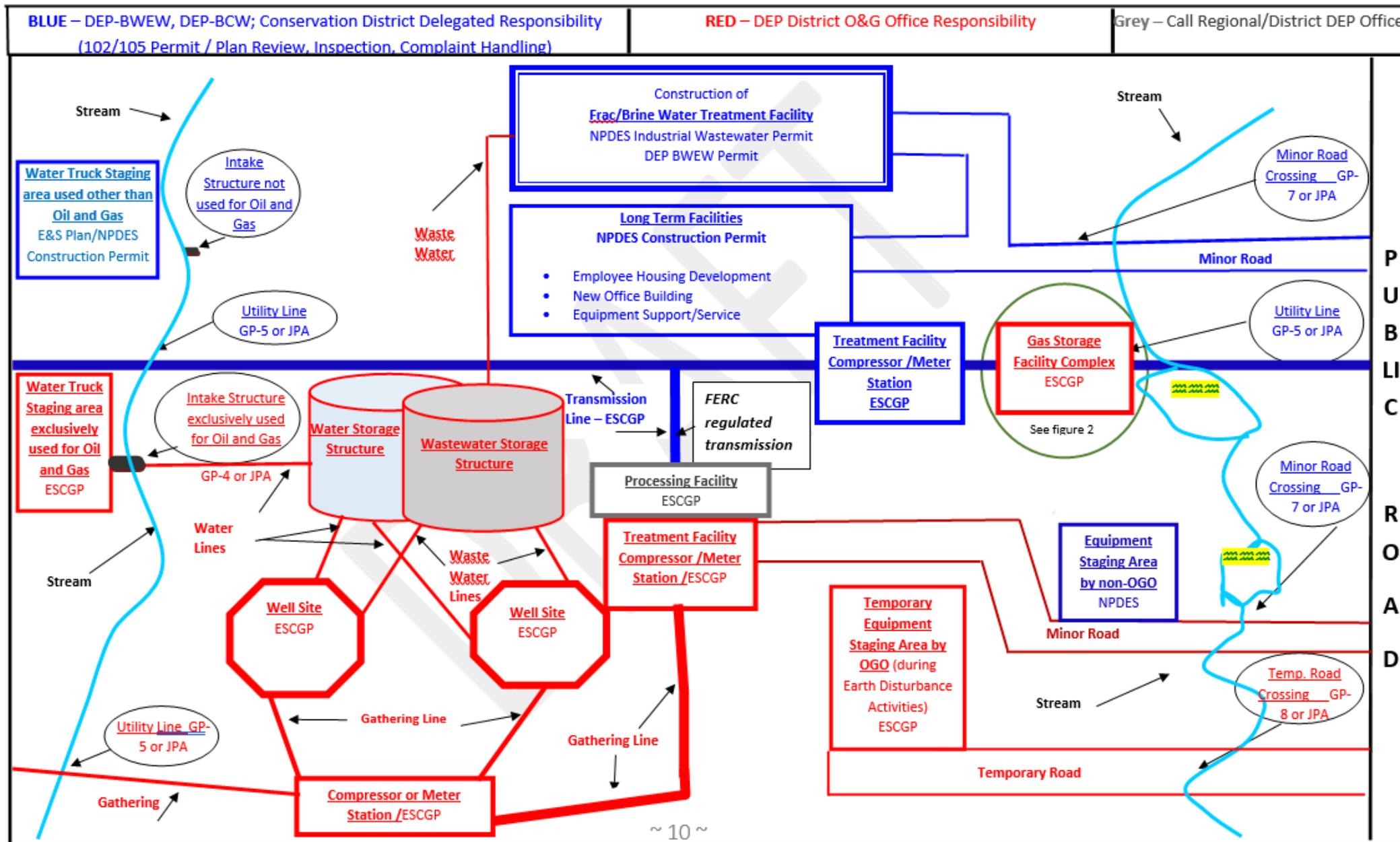
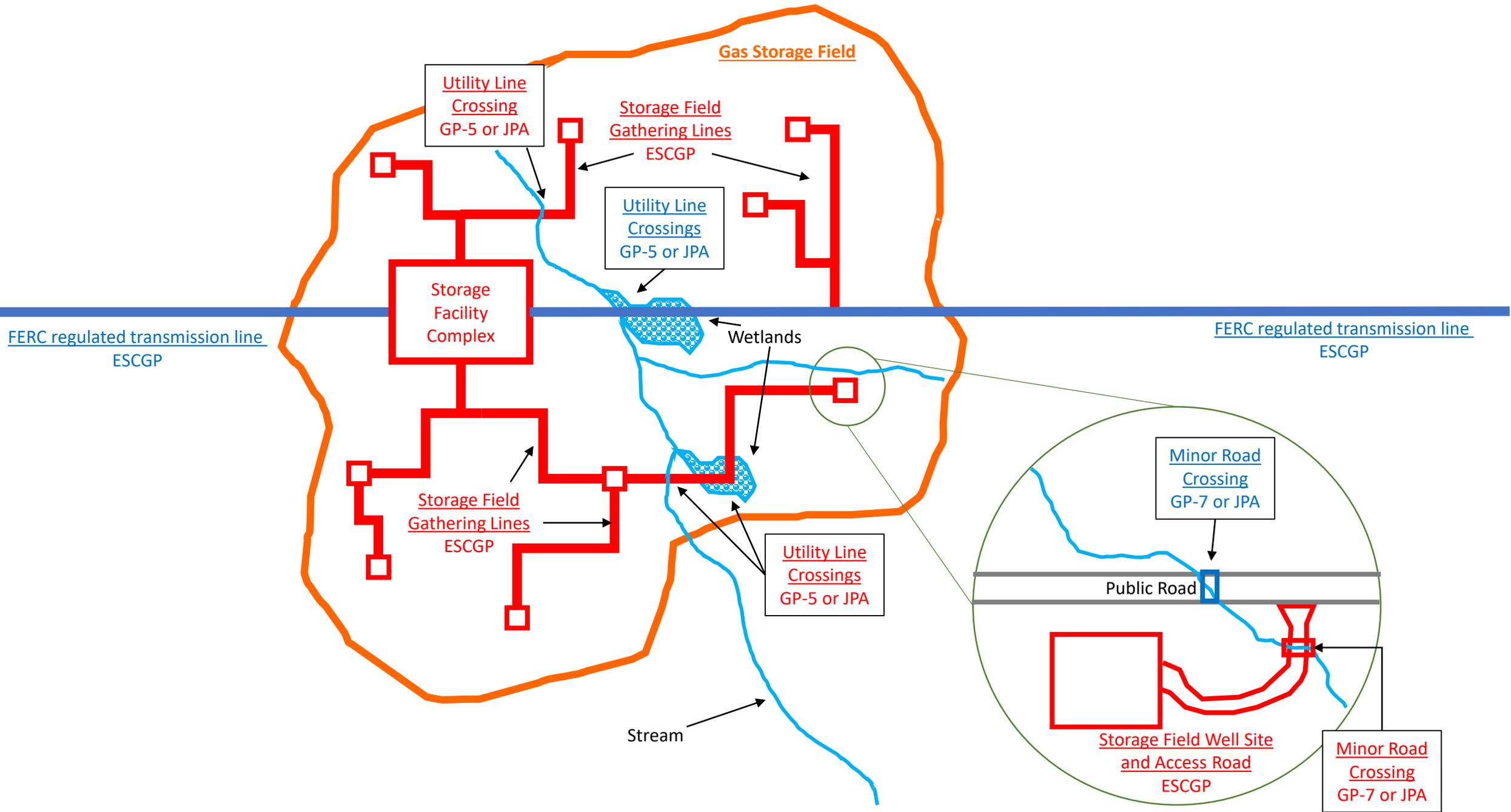
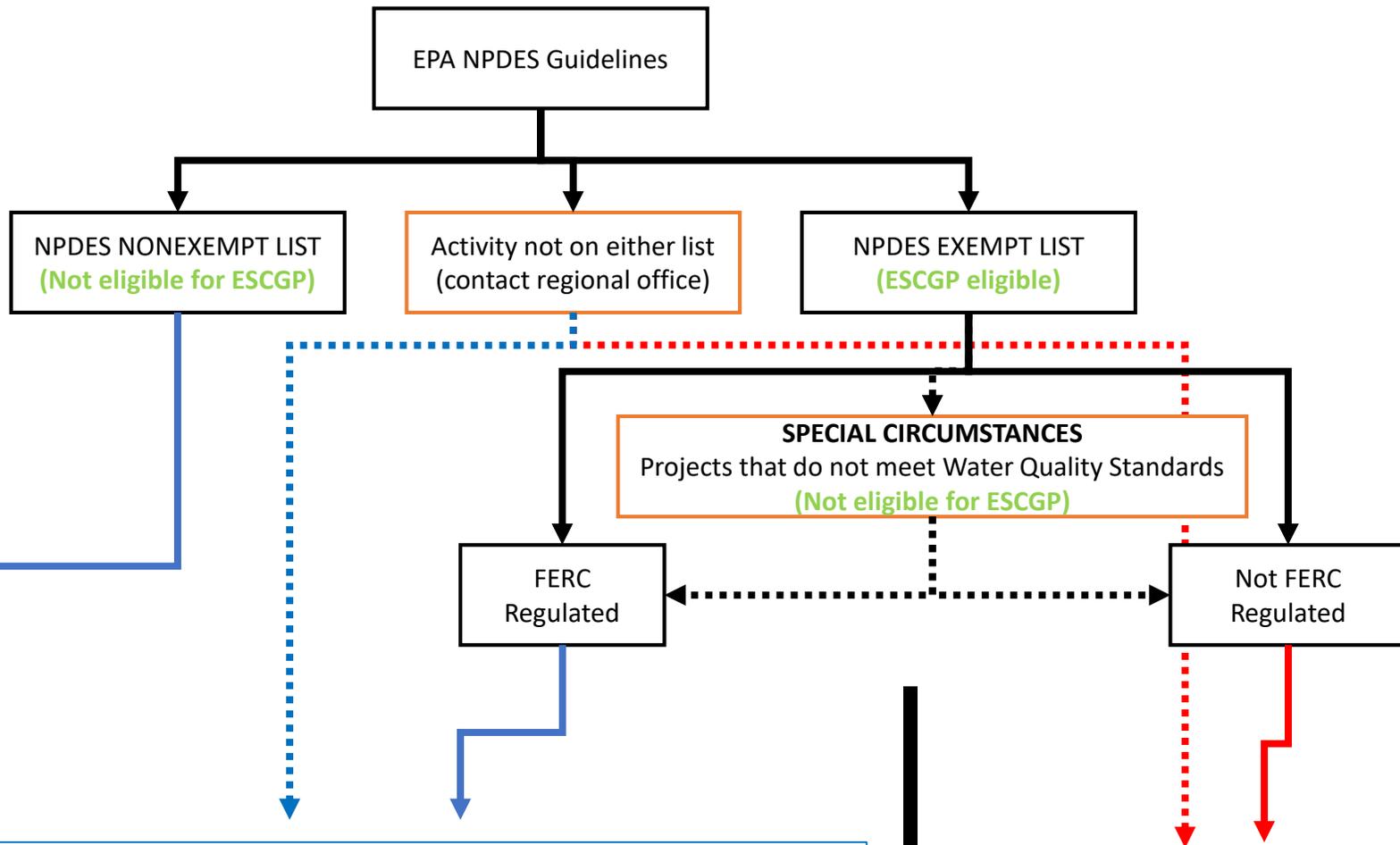


Figure 1: Illustration of division of program duties related to oil and gas activities



Project Types and Division of Duties for Oil & Gas Related Projects



Chapter 102 permit/authorization
¹Bureau of Clean Water / delegated County Conservation District

Chapter 105 permit/authorization
¹Bureau of Waterways Engineering & Wetlands / delegated County Conservation District

¹Chapter 102 and 105 responsibilities are combined in the Waterways & Wetlands Program in the regional offices

Chapter 102 permit/authorization
 District Oil & Gas Operations

Chapter 105 permit/authorization
 District Oil & Gas Operations

TYPICAL OIL & GAS PROGRAM RESPONSIBILITIES INCLUDE

Utility Lines:
 Gathering Pipeline
 Storage Field Pipeline
 Well Development Pipeline
 Wastewater Transfer Pipeline
 Water Transfer Pipeline (buried)
 Fiberoptic/Electrical

Other Facilities:
 Well Pad
 Storage Facility Site
 Well Development Impoundments
 1-2-3 Permitted Waste Facilities
 Waste Transfer Stations
 Mine Influenced Water Impoundment
 Freshwater Impoundment
 Tank Farms
 Compressor Stations
 Meter Stations
 Valve Sites
 Pig Launchers

Other petroleum treatment, processing, storage, etc. (pre-transmission point of sale)

DEP GIS



DEP > Data and Tools > GIS

GEOGRAPHIC INFORMATION SYSTEMS (GIS) MAPPING TOOLS

[OPEN DATA PORTAL](#)



PA DEP's GIS open data portal provides access to all of our publicly published, non-sensitive GIS data, which includes over 300 data layers relative to abandoned mine lands, air quality, water pollution control, coal mining, hazardous waste, operations, oil & gas, streams and lakes, industrial minerals mining, integrated report, municipal waste, radiation, storage tanks, stormwater, Chapter 93, TMDLs, water resources, and more! Select a category by clicking on the data topics to the left or right or use the search tool above to discover our data

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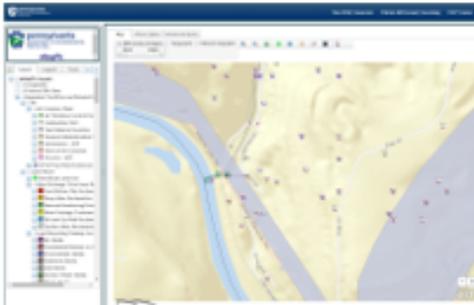
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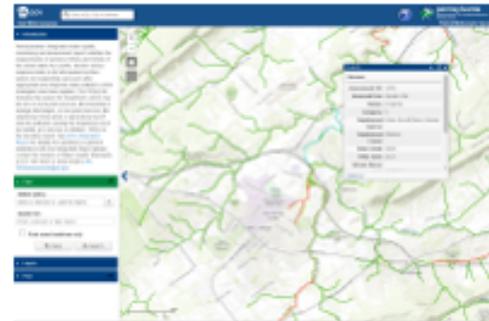
Additional Sources of Information

eMAP PA



eMapPA is a GIS based display of environmental contractors and the over 50 map layers and demographics, transportation network buffering, and address matching are available for C

2016 INTEGRATED WATER QUALITY REPORT MAP VIEWER



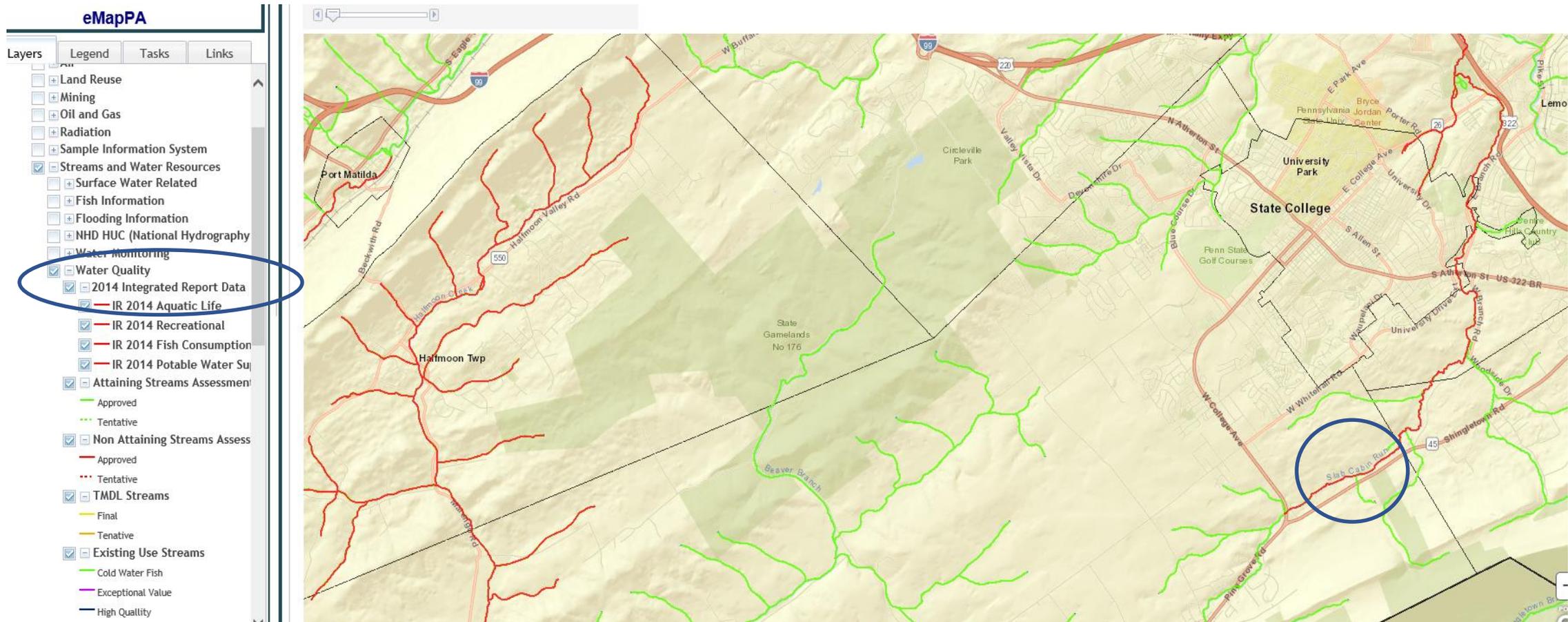
This interactive web mapping application shows the location of streams in Pennsylvania, which corresponds to the Water Quality Monitoring and Assessment Report. In addition, the user can see the impairment sources and causes, the stream names, and much more. The user can print or export the information into a pdf. The user can

WAVE TOOL



WAVE is the GIS based website related resources within the Commonwealth. For best results, Internet Explorer should

eMapPA



DEP GIS

eMapPA

The screenshot displays the eMapPA web application interface. On the left is a legend panel with a tree view of layers. The 'Water Quality' layer is selected and circled in blue. Underneath it, the '2014 Integrated Report Data' layer is also selected and circled. A popup window titled 'IR 2014 Aquatic Life (1 of 7)' is open over a specific stream segment on the map, which is also circled in blue. The popup contains the following information:

- Assessment ID: 1849
- Assessed Use: Aquatic Life
- Status: Impaired
- Category: 5
- Impairment Source: Grazing Related Agric
- Impairment Cause: Siltation
- Date Listed: 2004
- Stream Name: Slab Cabin Run
- HUC: 02050204
- HUC Name: Bald Eagle
- County: Centre
- Zip Code: 16801
- Municipality: FERGUSON
- Municipality Type: TWP

At the bottom of the popup, there is a 'Zoom to' link. The map background shows a topographic view of the State College area, including roads like I-99 and I-220, and landmarks like University Park and State College.

Integrated Waters Viewer

Report for details. For questions or general assistance with the Integrated Report please contact the Division of Water Quality Standards at 717-787-9637 or send email to RA-WQAssessments@pa.gov.

Layers

Integrated Report Streams

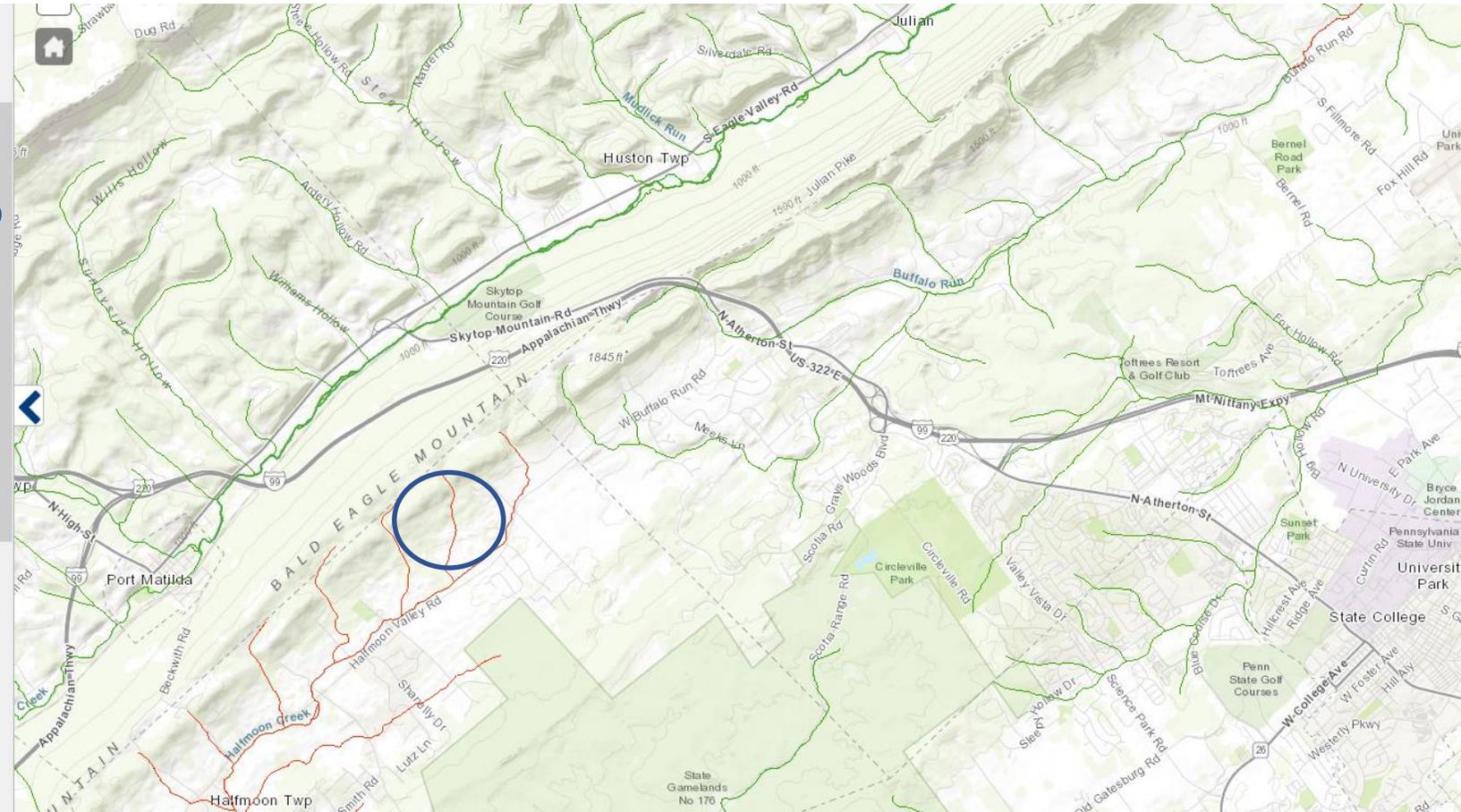
- Aquatic Life - Impaired
- Aquatic Life - Supporting
- Aquatic Life - Unassessed
- Recreational - Impaired
- Recreational - Supporting
- Fish Consumption - Impaired
- Fish Consumption - Supporting
- Potable Water Supply - Impaired
- Potable Water Supply - Supporting

Integrated Report Lakes

- Impaired
- Supporting

Boundaries

- Hydrologic Unit Code (HUC) 8
- County Boundaries
- Municipalities

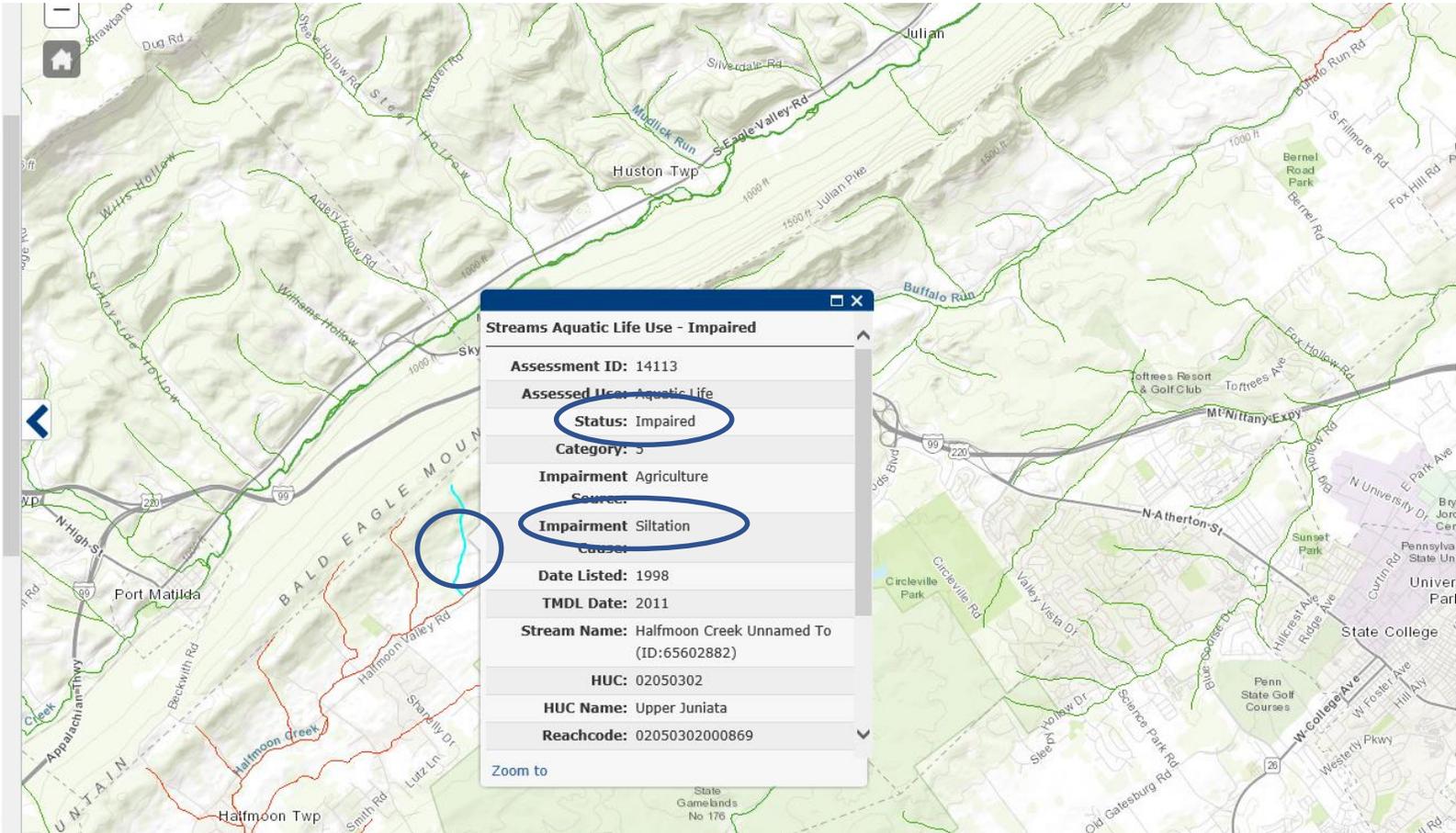


Integrated Water Report Map Viewer

See the narrative report. See [2016 Integrated Report](#) for details. For questions or general assistance with the Integrated Report please contact the Division of Water Quality Standards at 717-787-9637 or send email to RA-VQAssessments@pa.gov.

Layers

- Integrated Report Streams**
 - Aquatic Life - Impaired
 - Aquatic Life - Supporting
 - Aquatic Life - Unassessed
 - Recreational - Impaired
 - Recreational - Supporting
 - Fish Consumption - Impaired
 - Fish Consumption - Supporting
 - Potable Water Supply - Impaired
 - Potable Water Supply - Supporting
- Integrated Report Lakes**
 - Impaired
 - Supporting
- Boundaries**
 - Hydrologic Unit Code (HUC) 8
 - County Boundaries
 - Municipalities



Water Attribute Viewer for the Enterprise (WAVE)

The screenshot displays the WAVE web application interface. On the left, there is a navigation panel with the Pennsylvania Department of Environmental Protection logo and the title "WAVE Water Attribute Viewer for the Enterprise". Below this, there are tabs for "Subject Area", "Legend", "Metadata", and "Links". The "Subject Area" tab is active, showing a list of categories such as "Geopolitical and Floodplains", "Land/Soil Related", and "Water Quality Assessment". Under "Water Quality Assessment", several items are listed, with "Stream Assessments - Attain" and "Stream Assessments - Non Attain" circled in blue. At the bottom left, a "Map Scale" is shown as 128309.884852681.

The main area is a map of Pennsylvania with a toolbar at the top. The "Current Tool: Identify" is selected. A popup window titled "Identify" is open, showing a table of data for a selected stream assessment. The table has the following data:

(1) Stream Assessments - Non Attain-51573501	
Reachcode	02050302000869
COMID	65602882
Length Miles	0.986642
HUC	08060302
Assessed Use Description	Aquatic Life
Attain Use Description	Impaired
Source Cause	Agriculture - Siltation
Attained	N
GIS Key	20071026-0840-smeans
Date Created	10/25/2007

WAVE

 **pennsylvania**
DEPARTMENT OF ENVIRONMENTAL PROTECTION

WAVE
Water Attribute Viewer for the Enterprise

Subject Area Legend Metadata Links

Custom US EPA Permanent Layers
Geopolitical and Floodplains Habitat/Recreation Use
Land/Soil Related Water Withdrawal/Use/Discharge

Water Quality Assessment

- Permanent Layers
- Subject Area Layers
 - Chapter 93 Designated Use
 - Chapter 93 Designated Use Lakes
 - Chapter 93 Designated Use Migratory Fish
 - Chapter 93 Existing Use
 - Chapter 93 Existing Use Lakes
 - Chapter 93 Existing Use Migratory Fish
 - Class A Streams
 - Groundwater Monitoring Network
 - Lake Assessments - Attain
 - Lake Assessments - Non Attain
 - SIS Monitoring Points
 - SIS Sample Points
 - Stations

Map Scale 64154.9424263429
Enter Scale:

Map Search

Current Tool: Identify

ESRI Street and Imagery ESRI Topo
ESRI Streets ESRI Imagery

Identify

All Visible Layers All Visible Subject Layers Select Layer

Click on map to identify all visible subject layers.

Identify

(1) Chapter 93 Designated Use-22952725

Des Use ID	4
Designated Use	6
Reach Code	02050302000869
COMID	65602882
Length Miles	0.987
Map Symbology	HQ
GNIS ID	Null
GNIS Name	Null
Use Description	HQ-CWF(HIGH QUALITY-COLD WATER FISHES)

1km



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Oil and Gas Management

QUESTIONS ?

Joe Kelly

Office of Oil and Gas Management

Bureau of Oil and Gas Planning and Program Management

Well Development and Surface Activities Division

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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Oil and Gas Management

PLEASE STAND BY

We will be back shortly