

We Make a Difference

November 30, 2018

Fayette County Courthouse 61 East Main Street Uniontown, PA 15401

Subject:

Municipal Notification - ESCGP-3/General Permit Registration

Chevron Appalachia, LLC – Christofel Well Pad A Jefferson Township, Fayette County, Pennsylvania

This municipal notice is to inform you that Chevron Appalachia, LLC (Chevron) is applying for coverage under the Erosion and Sediment Control General Permit (ESCGP-3) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities from the Pennsylvania Department of Environmental Protection (DEP).

Act 14 of the Commonwealth Administration Code requires that each applicant for a DEP permit give written notice to the municipality and the county in which the permitted activity is located. As amended by Acts 67, 68 and 127 of 2000, the Municipalities Planning Code directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105.

Applicant Contact:

Branden Weimer - (724) 564-3745

Project Location:

Jefferson Township, Fayette County, PA

Project Description:

Christofel Well Pad A

Enclosed is copy of the Site Location Map, Notice of Intent (NOI) application and the Erosion and Sediment Control Plan that has been prepared for the project. DEP invites you to review the attached information and comment on the accuracy of answers provided with regard to land use aspects of the project; please be specific to DEP and focus on the relationship to municipal ordinances. If you wish to submit comments to DEP, you must respond within thirty (30) days to the DEP Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

Sincerely,

MICHAEL BAKER INTERNATIONAL

Brandon Fombelle, P.E.

Civil Engineer

Enclosures

100 Airside Drive | Moon Township, PA 15108 Office: 412.269.6300 | Fax: 412.375.3995

MBAKERINTL.COM



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

OFFICIAL USE ONLY	
ID#	
Date Received	
AUTH	
SITE	
CLNT	
APS	
Fee	
Check No.	
Check Date	

NOTICE OF INTENT (NOI) FOR 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

READ THE INSTRUCTIONS PROVIDED IN T FORM. PLEASE PRINT OR TYPE INFORMATI	ON IN BLACK OR B	LUE INK.		
SE	CTION A. APPLICA	TION TYPE		
Check one: NEW ☑ RENEWAL ☐ MAJOR M PHASED ☐ (check only if applicable; note: Mos	ODIFICATIONS (Pro			
Check one:	EXPEDITED	STANDAI	RD 🛛	
If an Expedited Review Process being requested to Section D - Expedited Review Process of the I	, be advised that the l ESCGP-3 NOI Instruc	Expedited Revetions to deter	riew is not a	available for all projects. Refer project is eligible.
SECT	TION B. CLIENT INF	ORMATION		
Applicant's Last Name (If applicable) Weimer	First Name Branden	МІ	Telephon	e No. 412-865-3140
Organization Name or Registered Fictitious Name Chevron Appalachia, LLC	е	•	Telephon	e No.
DEP Client ID No. 279986				
Headquarters Mailing Address 700 Cherrington Parkway	City Coraopolis		State PA	ZIP Code 15108
Email Address bweimer@chevron.com				
Co-Applicant's Last Name (If applicable)	First Name	МІ	Telephone	e No.
Organization Name or Registered Fictitious Name			Telephone	e No.
Address	City		State	ZIP Code
mail Address				

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	SECTION C. SITE INFORMATION							
Is there an existing ESCGP associated with this site? Yes No If yes, Permit No.								
Has a	well permit a	pplication been submi	tted for this site?	Yes 🛛 No If yes, Pe	rmit N	o		
Does	this site have	a 911 address? ⊠ Ye	es 🗌 No If yes, pro	vide site location addr	ess.			
Site N	ame							
Christ	ofel Well Pad	A		-				
Site Lo	ocation			Site No. (if another p	ermit h	nas bee	en issue	ed for the site)
300 Zi	as Road							
55,545,000,000,000,000	ocation - City				State	9	ZIP (Code
Perryo	•				PA		1547	'3
Detaile	ed Written Dir	ections to Site						
straigh ramp t N Faye	Merge onto PA-28 S. Continue onto I-579 S. Merge onto Crosstown Blvd and continue on to the Liberty Bridge. Continue straight through the Liberty Tunnel and continue onto W. Liberty Ave. Merge onto PA-51 S / Saw Mill Run Blvd via the ramp to Uniontown. Continue of PA-51 S until exit on PA-201 N Fayette City Rd. toward Fayette City. Merge onto PA-201 N Fayette City Rd then turn left onto Perry Rd. Turn left onto Zias Road and continue on to the site which will be on the left hand side of the road.							
Primar	Primary Location County Fayette Municipality City Boro Twp.							
	SECTION D. EXPEDITED REVIEW							
I. Ex	pedited Revi	iew Eligibility						
1.	designated to water qua Pa. Code §	use of exceptional val ality standards), in an	ue or high quality pur exceptional value w tershed of an impai	ace water with an exist rsuant to Chapter 93 (retland in accordance valued surface water who	elating	g 5	⊠,	Yes 🗌 No
2.	Will the proj	ect in which the well p	ad will be constructe	d be in or on a floodpla	ain?			Yes 🛚 No
3.	3. Is any earth disturbance located or proposed to be located on land known to be contaminated by the release of regulated substances as defined in Section 103 of Act 2, 35 P.S. § 6026.103? ☐ Yes ☐ No							
4.	project or su			ditions provide hazards itial to cause or contril			×.	Yes No
5.	Do any unre	solved non-compliand	e issues exist with the	ne applicant or the faci	lity?			Yes 🛛 No
6.	Is the projec	t a transmission proje	ct?					Yes 🛭 No
		io you in additional diseases to the second						

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If Ex	If yes to any of the above questions the project is not eligible for Expedited Review; If the project is eligible for Expedited Review, all the following items must be completed.			
II.	Ex	pedited Review Process		
	1.	Is the technically and administratively complete and accurate NOI package prepared and certified by a licensed professional?	⊠ Yes □ No	
	2.	Are E&S and PCSM/Site Restoration Plan drawings and narrative prepared and sealed by a licensed professional? (Include interim restoration details when needed)	⊠ Yes □ No	
	3.	Include a Resource Delineation Report and answer the following questions: (If the anskip to #4. If the answer to a. is "No" the applicant must answer "Yes" to at least one to be eligible for expedited review.)	swer to question a. is "Yes" there of the questions, b. through d	
		Were all wetland resources delineated during the growing season?	⊠ Yes □ No	
		b. If not during the growing season, was a follow-up visit conducted during the growing season to verify/adjust boundaries and look for potentially missed resources?	☐ Yes ☐ No	
		c. Was a quality assurance field review conducted at a later date by an independent qualified wetland professional to verify boundaries and look for potentially missed resources? (If yes, attach Quality Assurance Field Review Report)	☐ Yes ☐ No	
		 d. Was a Jurisdictional Determination (JD) or Preliminary JD conducted by the US Army Corps of Engineers on the whole project? (If yes, attach Preliminary or Jurisdictional Determination Report) 	☐ Yes ☐ No	
	4.	If applicable, have you included PNDI clearance letters or other documentation from applicable resource agencies?	⊠ Yes □ No	
	5.	If the project site contains, is along, or within 100 feet of a river, stream, creek, lake, pond or reservoir, will you establish new or preserve existing riparian forest buffer at least 100 feet in width between the top of streambank or normal pool elevation of a lake, pond or reservoir and areas of earth disturbances. If no, will a waiver be obtained? Yes No	☐ Yes ⊠ No	
	6.	Name of Licensed Professional		
		Company Michael Baker International - Brandon Fombelle, P.E.		
		Address 100 Airside Drive, Moon Township, PA 15108		
		Phone 412-269-6300		

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SECTION E. PROJECT INFORMATION							
1. Total Proje	ect Area/Project Site (Ac):	21.3	Total Di	isturbed Area	(Ac):	21.3	
Increased dist	ncreased disturbed acreage (for permit modification only)						
Fee: (For addi	Fee: (For additional information regarding fees, refer to NOI Instructions #3 Permit NOI Filing Fees.) \$						
2. Project Na	me: Christofel Well Pad A						
3. Project Ty	pe (Check all that apply)						
⊠ Oil/Gas	s Well ¹		☐ Tra	ansmission Fa	acility		
☐ Gather	ng Facility		☐ Pro	ocessing Faci	lity		
☐ Treatm	ent Facility		☐ We	ell Developme	ent Impoundme	ent	
☐ Compr	essor Station		☐ No	n-FERC regu	lated Transmis	ssion Facility	
☐ Pipeline	Э		☐ Gr	ound/Surface	Water Withdra	wal Site	
☐ Storage	e Field Facility						
☐ Other							
1 If Oil/Gas We	ell; is the well conventional or unc	onventional?	☐ Co	nventional	\boxtimes	Unconventional	
Project Descrip	<u>otion</u>						
pad and an ap erosion and se	lachia, LLC (Chevron) is proposin proximately 815 foot long perman diment controls, and post-constru nship, Fayette County, Pennsylva	ent well pad action stormw	access road	d. Additional gement facilitie	facilities at the es. The propos	site include stockpiles, sed project is located	
21.3 acres. Ea include suppor Erosion and So	ct area and limit of disturbance as arth disturbance will remain within ting PCSM BMPs, while site resto ediment Control (E&S) Plan drawi	the project li pration has be ings are prov	imit of distur een planned rided in Atta	rbance. The value of the remander of the reman	vell pad and ad ining project ar	ccess road areas will	
and North	e latitude and longitude coordinate American Datum 1983. The coord ects provide the project's termini.						
	D) 40.0380		Longitude (DD) - 79.795	6		
Latitude (D			Longitude (
,	Collection Method: GPS	<u> </u>	1275	.S.G.S. Topog	graphic Map	☑ DEP's eMAP	
	.5 min. topographic quadrangle N		City				
	pject be conducted as a phased pude Master Site Plan Estimated T			⊠ No iects. □	Additional shee	et(s) attached.	
Phase No.							
or Name	Description		Total Area	Area	Start Date	End Date	
						,	
	L						

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7.	List existing and previous land use for a minimum of the previous 5 years. Meadow and forested
8.	Other Pollutants: Will the stormwater discharge contain pollutional substances other than sediment? Yes No If yes, explain and provide any available quantitative data.
9.	Will fuels, chemicals, solvents, other hazardous waste or materials be used or stored on site during earth disturbance activities or will Horizontal Directional Drilling (HDD) activities be conducted? Yes No (If yes, Preparedness, Prevention and Contingency (PPC) Plan must be maintained on site during
	earth disturbance. See NOI Instructions, E.9 PPC Plan Guidance for further information.)
10.	Is the project in the watershed of an impaired surface water where the cause of the impairment is identified as siltation? Yes \boxtimes No \square (If yes, show how the project will not result in a net change in volume, rate or water quality. See section I below, and E.10 of NOI instructions.)
11.	Are there potentially hazardous naturally occurring geological or soil conditions in any portion of the project or surrounding area? Yes \boxtimes No \square
	If yes, do the potentially hazardous geologic or soil conditions have the potential to cause or contribute to pollution as a result of the proposed earth disturbance activities?
	If no, provide an explanation.
	If yes, Geologic Hazard Mitigation Plan must be attached and explain where in this application details are provided.
12.	Has the Act 14 Municipal Notification and proof of receipt of notification been attached to the NOI?
	Yes No (If not, the NOI is not complete, see E.12 and #4 Municipal Notification in the NOI Instructions for additional guidance.)
13.	Has the PNDI receipt been attached to the NOI?
	Yes 🖂 No 🗌 (If not, the NOI is not complete, see E.13 and #5 PNHP in the NOI Instructions for additional guidance.)
14.	Have the E&S Plan and PCSM/SR Plan been planned and designed to be consistent?
	Yes ⊠ No □
15.	Have existing and/or proposed Riparian Forest Buffers been identified?
	Yes N/A (If yes, they must be shown on the E&S Plan as well as the PCSM/SR Plans.)
16.	Have antidegradation implementation requirements for special protection waters been addressed?
	Yes No No N/A (If yes, antidegradation requirements must be included in the plan.)
	Has the seasonal high groundwater level been identified and 20-inch separation established at all excavation locations for pits for conventional operations and Well Development Impoundments for unconventional operations? Yes □ No □ N/A ☒

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18. Receiving Waters	Chapter 93, Designated Use Stream Classification	Chapter 93, Existing Use Stream Classification
Trib 39881 to Little Redstone	☐ HQ ☐ EV ☒ Other <u>WWF</u>	☐ HQ ☐ EV ☒ Other <u>WWF</u>
Creek		⊠ Siltation-impaired
Trib 39971 to Crabapple Run	☐ HQ ☐ EV ☒ Other <u>WWF</u>	☐ HQ ☐ EV ☒ Other <u>WWF</u>
	Siltation-impaired	⊠ Siltation-impaired
Trib 39972 to Crabapple Run	☐ HQ ☐ EV ☒ Other WWF	☐ HQ ☐ EV ☐ Other WWF
THID 33972 to Grabappie Ruit	☐ Siltation-impaired	☐ Siltation-impaired
	Situation-impaired	Ontation impariou
	☐ HQ ☐ EV ☐ Other	☐ HQ ☐ EV ☐ Other
	☐ Siltation-impaired	☐ Siltation-impaired
Secondary Receiving Water	Secondary Chapter 93, Designated Use	Secondary Existing Use
Little Redstone Creek	WWF	WWF
Redstone Creek	WWF	WWF WWF
Monongahela River	WWF	
Name of Municipal or Private Se	parate Storm Sewer Operator, if applicable.	
N/A		
Non-Surface Receiving Water: (i	nclude off-site discharges)	
N/A		

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SECTION F. EROSION AND SEDIMENT CONTROL (E&S) PLAN See the attached Instructions for additional guidance with E&S Plans

Erosion and Sediment Control Plan BMPs should be designed to minimize accelerated erosion and sedimentation through limiting the extent and duration of earth disturbance, protection of existing drainage and vegetation, limiting soil compaction and controlling the generation of increased runoff. The Department recommends the use of the *Pennsylvania Erosion & Sedimentation Pollution Control Program Manual (E&S Manual)* (363-2134-008) to achieve this goal. The E&S Plan must meet the requirements of Pa. Code § 102.4(b) and submitted with the NOI. Also, see section 2. of the NOI instruction for detailed information on completing the E&S plan and additional requirements.

a. E&S Plan Summary

Provide a summary of proposed E&S BMPs and their performance to manage E&S for the project.

Rock Construction Entrance - installed to minimize erosion and sedimentation from the entrance to the site;

Sediment Barrier - Compost filter sock used as perimeter controls for protection against sediment conveyance;

Pumped Water Filter Bags - used to filter water pumped from disturbed areas prior to down stream discharge;

Vegetative Stabilization - installed to stabilized areas of disturbed earth to prevent erosion and sedimentation;

Rock Filter Outlet - installed, as necessary, to replace sediment barrier sections that become compromised;

Erosion Control Blanket - installed to stabilize slope areas until vegetation becomes established;

Riprap Aprons – installed downslope of channel and culvert outfalls to prevent erosion due to concentrated flows;

Ditch Linings – erosion control blankets, turf reinforcement mats, and appropriately sized riprap will be installed within the channels to prevent erosion and protect the channels.

Sediment Basin - An impoundment being used to remove sediment from runoff.

Compost Sock Sediment Trap - Stacked compost filter sock being used to remove sediment from runoff.

b. E&S Plan BMP Design

Check those that apply:

(Proposing the use of the Alternative Rock Construction Entrance as an ABACT BMP)

Note: NOI packages submitted with alternate BMPs not approved by the Department will be returned to the Applicant.

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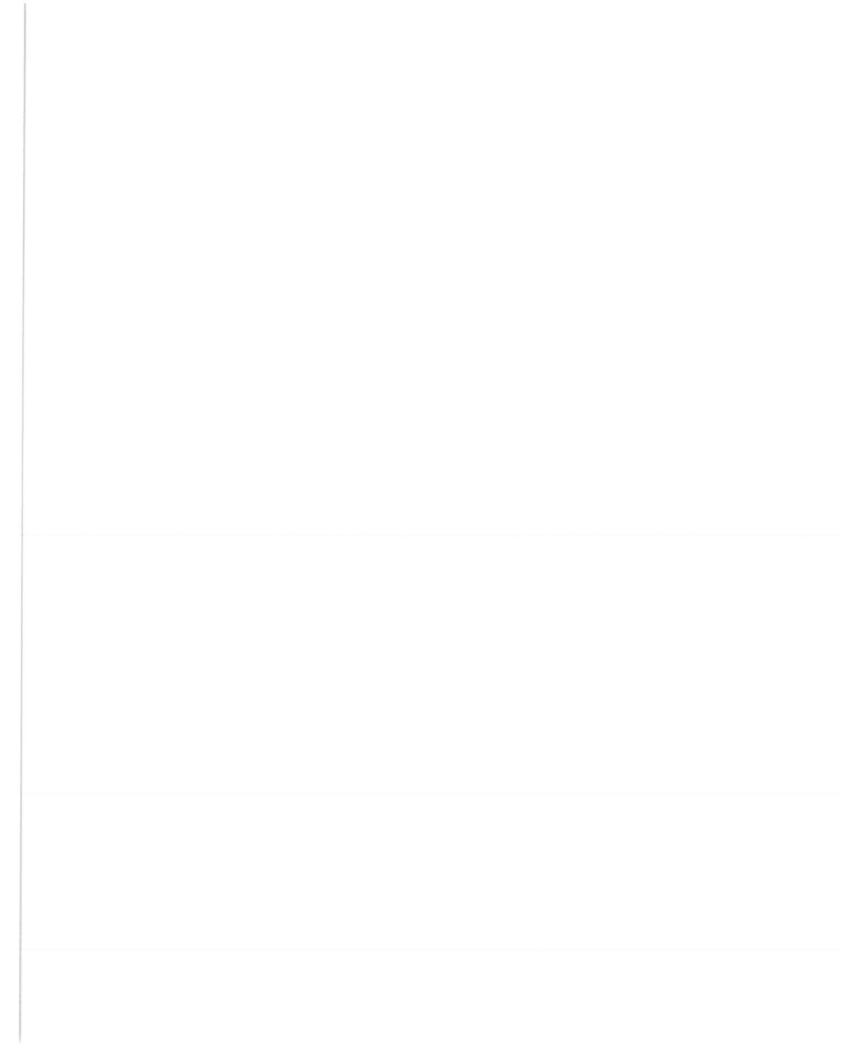
C.	Do you have any information regarding riparian buffer which differs from Section G, Riparian Buffer?
	Yes ☐ No ☒
	Explain: N/A
d.	Thermal Impacts Analysis
	Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.
	For this project, thermal impacts have been avoided, minimized, or mitigated to the greatest extent possible. The Post
	Construction Stormwater Management/Site Restoration Plan prepared for this project minimizes permanent pool, avoids
	concrete channels, and allows discharged stormwater to flow across vegetated terrain to promote cooling prior to entering downstream water courses.
	downstream water courses.
e.	Off-Site Discharge Analysis
	Does the activity propose any off-site discharges to areas other than surface waters? Yes No
	If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.
	The applicant must provide a demonstration in both E&S and PCSM/SR plans that the discharge will not cause erosion,
	damage, or a nuisance to off-site properties.

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	SECTION G. RIPARIAN BUFFER
1.	Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this project? Yes No
	If yes, as part of the PCSM/SR Plan, provide a Buffer Management Plan.
2.	Will proposed earth disturbance activities be conducted in an EV or HQ watershed AND within 150 feet of a perennial or intermittent river, stream, or creek, or lake, pond, or reservoir? \square Yes \boxtimes No
	If no, proceed to the next section/module.
3.	Does this project qualify for an exception (see § 102.14(d)(1))? ☐ Yes ☐ No
i.	If yes, indicate below the type of project for which the exception applies by marking the appropriate box.
	Oil and gas activities for which site reclamation or restoration is part of the permit authorization in Chapter 78 and 78a.
	Road maintenance activities.
	☐ The repair or maintenance of existing pipelines and utilities.
	☐ Other (see §102.14(d)(1))
	If exceptions are checked, explain how existing riparian buffer will be undisturbed to the extent practicable. Provide a demonstration that the requirements of §102.14(b) are met, or provide the necessary information to request a riparian buffer waiver.
4.	Are you requesting a riparian buffer waiver for this project (see § 102.14(d)(2))? ☐ Yes ☒ No
	If yes, indicate below the type of project for which you are requesting a waiver by marking the appropriate box.
	☐ Linear project that may include pipelines, public roadways, rail lines, or utility lines.
	Project is of a temporary nature where the site will be fully restored to its preexisting conditions during the ESCGP permit term.
	Project where compliance with mandatory riparian buffers is not appropriate or feasible due to site characteristics or existing structures at the project site.
	Other (see §102.14(d)(2)):
	If waivers are checked, explain how existing riparian buffers will be undisturbed to the extent practicable.
	Note: If "Yes" to #2 AND "No" to #3 and #4, provide an attachment to demonstrate how the requirements of §102.14 are met.

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SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) AND/OR SITE RESTORATION(SR) PLAN See NOI Instructions for additional guidance with PCSM Plans PCSM/SR BMPs should be designed to use natural measures to eliminate pollution, infiltrate runoff, not require extensive construction/maintenance, promote pollutant reduction, and preserve the integrity of stream channels. All PCSM/SR BMPs proposed in the PCSM/SR Plan must be designed in accordance with Ch. 102, Ch. 78a for unconventional operations, Ch. 78 for conventional operations and the Pennsylvania Stormwater Best Management Practices Manual (Stormwater BMP Manual) (363-0300-002). If alternate design criteria are utilized for the proposed project, they must have prior approval by the Department, or the NOI Application will be returned to the Applicant. After construction is completed, how much of the entire disturbed area will be restored to meadow in good condition or better, or existing conditions? All Partial None Include PCSM narrative and drawings for remaining impervious area. Also include a map showing the proposed contours of the site restoration plan. If there are additional stages of the project prior to permit termination or expiration, list the stages and provide the documents required by subsection 'a' to section 'g' for each stage (e.g. partial restoration or changes to the amount of compacted areas, gravel, and/or impervious areas). Upload a narrative for each additional stage in addition to the drawings. **EXAMPLE PCSM Plan** SR Plan Stage No **Stage Name** Stage 1 Stage 2 Stage 3 Stage 4 Act 167 Consistency. Check those that apply. Is there an Act 167 Plan? ☐ Yes ☐ No The attached PCSM/SR Plan is consistent with an applicable approved Act 167 Plan. Complete the following for all approved Act 167 Stormwater Management Plans. (Use additional sheets if necessary) Consistency Letter Included Act 167 Plan Name Date Adopted June 2010 County of Fayetter Stormwater Verification Report Included Management Plan Act 167 Note: A consistency letter is not required if a verification report is provided. See NOI Instructions. The PCSM/SR Plan must satisfy either sub paragraph 1, 2, or 3 below. Check those that apply.

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W P	act 167 Plan approvals on or after January 2005 – The attached PCSM/SR Plan, in its entirety, is consistent with all requirements pertaining to rate, volume, and water quality from an Act 167 Stormwater Management Plan approved by DEP on or after January 2005. Box 1 must be checked if a current, DEP approved Act 167 lan exists.					
B C m	The PCSM/SR Plan meets the standard design criteria from sections 102.8(g)(2) and (3) and the Stormwater BMP Manual. For projects involving oil and gas activities authorized by a permit issued under Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure, post construction stormwater nanagement requirements are met for all areas that are restored to preconstruction conditions or to a condition of meadow in good condition or better. [Note: PCSM plans must meet both the volume and rate requirements in the regulations, which are provided in the 2 sections mentioned in this paragraph].					
in be	Iternative Design Standard – The attached PCSM/SR Plan was developed using approaches as provided in 102.8(g)(2)(iv) and 102.8(g)(3)(iii). Demonstrate/explain in the space provided below how this standard will be either more protective than what is required in 102.8(g)(2) and 102.8(g)(3) or will maintain and protect existing water quality and existing and designated uses.					
PCSM/SR BMP A	Alternative Standards:					
Has the alternative	ve BMP or design standard been approved by the Department?					
⊠ Yes						
	ubmit the ESCGP-3 application and see Section (H) of the NOI Instructions concerning the alternative BMP al process.					
Water Quality C	ompliance:					
	SR plan comply with requirements for volume control?					
If yes, is at least 90% of the disturbed area controlled by a PCSM BMP? ☑ Yes ☐ No						
If yes, do you hav ⊠ Yes ☐ No	ve the Standard PCSM Worksheet # 10 attached to show water quality compliance has achieved?					
If no, attach Standard PCSM Worksheets # 12 and #13 to show water quality compliance has achieved.						
	is not complying with the requirements for volume control, attach Standard PCSM Worksheets # 11, # 12 water quality compliance has achieved.					
a. PCSM/SR PI	an Summary					
Provide a sur	mmary of proposed BMPs and their performance to manage PCSM/SR for the project.					
treatment and more forebay generally be seed mixes a rate mitigatio	BMP 4): Wet Detention Ponds are stormwater basins that include a permanent pool for water quality d additional capacity above the permanent pool for temporary storage. Wet Ponds should include one or is that trap course sediment, prevent short-circuiting, and facilitate maintenance. The pond perimeter should covered by a dense stand of emergent wetland vegetation. The wet pond shall be stabilized with native according to the zones detailed on the drawings. Wet ponds can be effective for pollutant removal and peak in. Wet Ponds (WPs) can also provide aesthetic and wildlife benefits. WPs require an adequate source of intain the permanent water surface.					
located along earthen embastormwater flaton a flat land emphasize lathrough wood can serve mu	etentive Grading Berm (BMP 1, 2 & 3): Infiltration/Retentive Grading Berms are linear landscape features g (i.e. parallel to) existing site contours in a moderately sloping area. They can be described as built-up ankments with sloping sides, which function to divert, retain and promote infiltration, slow down, or divert ows. Berms are also utilized for reasons independent of stormwater management, such as to add interest scape, create a noise or wind barrier, separate land uses, screen undesirable views or to enhance or andscape designs. Berms are often used in conjunction with recreational features, such as pathways dlands. Therefore, when used for stormwater management, berms and other retentive grading techniques ultifunctional purposes and are easily incorporated into the landscape.					
Check all tha	t apply 🛛 PCSM BMPs 🖾 SR BMPs					

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b.	Do you have any information regarding riparian buffer which differs from what was submitted in the Section G, Riparian Buffer?
	☐ Yes ⊠ No
	Explain:
C.	Thermal Impacts Analysis
	Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.
	For this project, thermal impacts have been avoided, minimized, or mitigated to the greatest extent possible. The Post Construction Stormwater Management/Site Restoration Plan prepared for this project minimizes permanent pool, avoids concrete channels, and allows discharged stormwater to flow across vegetated terrain to promote cooling prior to entering downstream water courses.
d.	Off-Site Discharge Analysis.
	Does the activity propose any off-site discharges to areas other than surface waters? Yes No If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.
	The Applicant must provide a demonstration in both the E&S and PCSM/SR Plans that the discharge will not cause erosion, damage, or a nuisance to off-site properties.
e.	Summary Table for Supporting Calculation and Measurement Data (See NOI Instructions for additional guidance with this section)
	The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: POI 1 (PCSM & SR)			
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.070	0.000	-0.070
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.140	0.050	-0.091
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.050	-0.091
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	1.33	0.72	-0.61
2) 10-Year/24-Hour	3.92	1.73	-2.19
3) 50-year/24-Hour	7.70	3.12	-4.58
4) 100-year/24-Hour	9.68	3.84	-5.84

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Watershed Name:	F	POI 2 (PCSM & SR)	
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.000	0.000	0.000
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.016	0.040	0.024
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.004	-0.012
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.05	0.05	0.00
2) 10-Year/24-Hour	0.73	0.20	-0.53
3) 50-year/24-Hour	2.12	0.52	-1.60
4) 100-year/24-Hour	2.91	0.71	-2.20

Watershed Name:	F	POI 3 (PCSM & SR)	
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.000	0.000	0.000
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.011	0.006	-0.006
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.006	-0.006
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.06	0.03	-0.03
2) 10-Year/24-Hour	0.61	0.23	-0.38
3) 50-year/24-Hour	1.58	0.58	-1.00
4) 100-year/24-Hour	2.13	0.77	-1.36

Watershed Name:	F	POI 4 (PCSM & SR)	
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.000	0.070	0.070
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.216	0.182	-0.035
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.182	-0.035
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	2.50	1.37	-1.13
2) 10-Year/24-Hour	6.57	2.90	-3.67
3) 50-year/24-Hour	12.31	4.98	-7.33
4) 100-year/24-Hour	15.30	6.03	-9.27

Watershed Name:	F	POI 5 (PCSM & SR)	
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.000	0.000	0.000
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.305	0.272	-0.033
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.272	-0.033
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	5.61	2.99	-2.62
2) 10-Year/24-Hour	11.65	6.25	-5.40
3) 50-year/24-Hour	19.55	10.55	-9.00
4) 100-year/24-Hour	23.52	12.71	-10.81

Watershed Name:	F	POI 6 (PCSM & SR)	
Volume Control design storm frequency 2	Pre- construction	Post Construction	Net Change
Rainfall amount 2.43 inches			
Impervious area (acres)	0.000	4.470	4.470
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.175	1.043	0.868
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.136	-0.039
Stormwater discharge rate for the design frequency storm	Pre- construction	Post Construction	Net Change
1) 2-Year/24-Hour	2.32	1.10	-1.22
2) 10-Year/24-Hour	5.74	2.63	-3.11
3) 50-year/24-Hour	10.49	3.80	-6.69
4) 100-year/24-Hour	12.95	4.91	-8.04

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f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

rey for Bivir purpose(s). vo = voic	The Control To Thate			
ВМР	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	□ VC □ RC ⊠ WQ		<u>16.4 ac</u>
Bio-infiltration areas ☐ Infiltration Trench ☐ Infiltration Bed ☐ Infiltration Basin ☐ Rain Garden/ Bioretention ☐ Infiltration Berm	Infiltration/Recharge	VC	2 year = 0.023 af 100 year = 0.146 af	 1.03 ac
Natural Area Conservation Streamside Buffer Zone Wetland Buffer Zone Sensitive Area Buffer Zone Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	VC RC WQ VC RC WQ VC RC WQ VC RC WQ		<u> </u>
Stormwater Retention Constructed Wetlands Wet Ponds Retention Basin	Detention/Retention	UC RC WQ VC RC WQ VC RC WQ	2 year = 0.826 af 100 year = 2.593 af	9.33 ac
Sediment and Pollutant Removal Vegetated Filter Strips Compost Filter Sock Detention Basins	Water Quality Treatment			21.3 ac
Access Road Design ☐ Road Crowning ☑ Ditches ☐ Turnouts ☑ Culverts ☐ Roadside Vegetated Filter Strips	Infiltration/Recharge	VC		9.878 ac 1.016 ac

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Stormwater Energy Dissipaters	Infiltration/Recharge			
☐ Level Spreaders☑ Riprap Aprons☐ Upslope Diversions☐ Other		VC RC WQ VC RC WQ VC RC WQ VC RC WQ		9.878 ac ———
g. Critical PCSM Plan stage	s			
Identify and list critical stages present on site.	of implementation of the	e PCSM Plan for which a l	icensed professional or	designee shall be
A licensed professional or a e PCSM Plan. The critical stage pond, etc.), structurally engin professional or designee shall	s include the installatior neered BMPs, or other	n of conveyance systems, r BMPs as deemed app	installation of the storage	ge BMPs (i.e., wet

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SECTION I. ANTIDEGRADATION ANALYSIS

This section must be completed where earth disturbance activities will be conducted in the watershed of a surface water with an existing or designated use of exceptional value or high quality pursuant to Chapter 93 (relating to water quality standards), projects where any part is located in an exceptional value wetland in accordance with 25 Pa. Code § 105.17, and projects where any part is located in the watershed of an impaired surface water where the cause of impairment is identified as siltation.

Part 1 - NONDISCHARGE ALTERNATIVES EVALUATION

The applicant must consider and describe any and all non-discharge alternatives for the entire project area which are environmentally sound and will:

- Minimize accelerated erosion and sedimentation during the earth disturbance activity
- Achieve no not change from pre-development to nost-development volume, rate and concentration of pollutants in

 Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality 		
E & S Plan	PCSM/SR Plan	
Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used prior to, during, and after earth disturbance activities that have been incorporated into your E & S Plan based on the site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)	Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into the PCSM/SR Plan based on your site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)	
Alternative siting, locations and configurations were utilized to minimize aquatic resource impacts. Disturbed areas will be minimized to help prevent sedimentation and erosion. Sequencing of the well site construction will be utilized to limit the extent and duration of land disturbance to help prevent sedimentation and erosion.	Soils that have become compacted and areas where construction traffic is allowed shall be scarified to loosen soil to a minimum of 20 inches. Existing site topsoil stockpiled during construction shall be redistributed, seeded and mulched to project specifications. All other project areas will be restored to meadow, good condition or existing.	
Nondischarge BMPs Alternative Siting Alternative location Alternative configuration Alternative location of discharge Limited Disturbed Area Limiting Extent & Duration of Disturbance (Phasing, Sequencing) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Other	Nondischarge BMPs Alternative Siting Alternative location Alternative configuration Alternative location of discharge Low Impact Development (LID / BSD) Riparian Buffers (150 ft. min.) Riparian Forest Buffer (150 ft. min.) Infiltration Water Reuse Other	
Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality during construction? ☐ Yes ☐ No	Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality after construction? ☐ Yes ☐ No	
If yes, antidegradation analysis is complete. If no, proceed to Part 2.	If yes, antidegradation analysis is complete. If no, proceed to Part 2.	

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PART 2 - ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TEC	HNOLOGIES	(ABACT)
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If the net change in stormwater discharge from or after construction is not fully managed by nondischarge BMPs, the applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will occur during construction, post-construction or both, and identify the technologies that will be used to ensure that the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to:

non-degrading discharge. ABACT BMPs include but are not	limited to:
E & S Plan	PCSM/SR Plan
☑ Treatment BMPs: ☐ Sediment basin with skimmer ☐ Sediment basin ratio of 4:1 or greater (flow length to basin width) ☑ Sediment basin with 4-7 day detention ☐ Flocculants ☑ Compost Filter Socks ☑ Compost Filter Sock Sediment Basin ☑ RCE w/ Wash Rack ☑ Land disposal: ☐ Vegetated filters ☐ Riparian buffers <150ft.	 ☑ Treatment BMPs: ☑ Infiltration Practices ☑ Wet ponds ☐ Created wetland treatment systems ☐ Vegetated swales ☐ Manufactured devices ☐ Bio-retention/infiltration ☐ Green Roofs ☐ Land disposal: ☐ Vegetated filters ☐ Riparian Buffers <150ft. ☐ Disconnection of roof drainage ☐ Bio-retention/bio-infiltration ☑ Pollution prevention: ☐ Street sweeping ☐ Nutrient, pesticide, herbicide or other chemical application plan alternatives ☑ PPC Plans ☐ Non-structural Practices ☑ Restoration BMPs ☐ Stormwater reuse technologies: ☐ Divert rainwater into impoundment ☐ Underground storage ☐ Spray/Drip Irrigation ☐ Other
Are the ABACT BMPs selected sufficient to minimize E&S discharges to the extent that existing or designated surface water uses are protected? Yes No If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.	Are the ABACT BMPs selected sufficient to achieve no net change and assure that existing or designated surface water uses are protected? Yes No If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.

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SECTION J. COMPLIA	ANCE HISTORY REVIEW	
Is/was the applicant(s) in violation of any Department regulation, order, schedule of compliance or permit or in violation of any department regulated activities within the past five years? ☑ Yes □ No		
	iption of the violation, the compliance schedule (including dates e status. (Attach additional information on a separate sheet,	
Permit Program or Activity: Attachment F Brief Description of non-compliance: Please refer to Attachment F	Permit Number (if applicable): Attachment F	
Steps taken to achieve compliance	Date(s) compliance achieved	
Please refer to Attachment F	Please refer to Attachment F	
Current Compliance Status: ⊠ In-Compliance □	In Non-Compliance	
If in non-compliance, attach schedule for achieving compliance	e.	

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SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name Brandon R. Fombelle, P.E.	Signature		Professional Seal
Company Michael Baker International			
Address 100 Airside Drive, Moon Township, PA 15108			
Phone 412-269-6300			
Most Recent DEP Training Attended	Location	Date	
ESCGP-3 Oil and Gas Training	Webinar	11/29/2018	
e-Mail Address brandon.fombelle@mbake	erintl.com		

EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

Individual; proceed to signature portion.

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

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	The second secon	and the second s
(choose one of the following;	not applicable for individuals):	
☐ The responsible corporate ☐ treasure of	officer president vice	president
	Entity name	
☐ The ☐ member or ☐ ma	nager of	LLC
☐ The general partner of	partnersl intity name	hip/LP/LLP
☐ The principal executive off	icer or ranking elected official	of Municipality/State/Federal/other public agency Entity name
Power of Attorney/delegati be provided) for		ocumentation supporting delegation of contracting authority mus
	Entity name	
Print Name and Title of Applicant		Print Name and Title of Co-Applicant (if applicable)
Signature	of Applicant	Signature of Co-Applicant
Date Applic	ation Signed	Date Application Signed
Notarization		Comments of Dames have
Sworn to and subscribed to be		Commonwealth of Pennsylvania
day of	, 20	County of
Notary Public		My Commission expires
Notary Fublic		
AFFIX SEAL		

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SECTION M. ADDITIONAL CONTACT INFORMATION					
Contact's Last Name	First Name	МІ	Phone	(412) 269-6300	
Fombelle	Brandon	R	FAX		
Mailing Address	City	*	State	ZIP + 4	
100 Airside Drive	Moon Township		PA	15108	
e-Mail Address brandon.fombelle@m	nbakerintl.com				

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	Structural Structural bio-Infiltration BMPs (site specific)	Infiltration Berm
	Measured Infiltration Rate ¹ (in./hr)	Avg = 2.88
Infil	Hactor of safety (min. of 2)	ω
Infiltration Information	Design Infiltration rate (in./hr)	0.96
mation	De-watering time ² (hr)	14
	Elevation of limiting zone-water table bedrock, etc. ³	1236.1 & 1235.8
	Total drainage area to BMP (sq. ft)	1.03
Drainage Information	Total impervious drainage area to BMP (sq. ft)	9,353
Drainage Information	Infiltration BMP Surface area (sq. ft)	1,963
	Volume of runoff tributary to BMP during the 2yr/24 hr design storm ⁴ (cf)	1,554
	Calculated removed volume (cf)	1,554
BM	Maximum water surface elevation in BMP from 2yr storm ⁶	1,239.02
BMP Information	Infiltration elevation bottom of bed/basin ⁶	VARIES (Mimics existing grade)
5	Elevation of infiltration test?	1238.6 & 1238.4
	Elevation of E&S sediment basin bottom (if applies)	N/A

Any deviation from the recommendations above should be adequately justified by a qualified professional and included with the application.

Note: This chart is for summary purposes only and should be consistent with all design calculations and worksheets.

All information should be based on the 2-yr/24-hr storm.

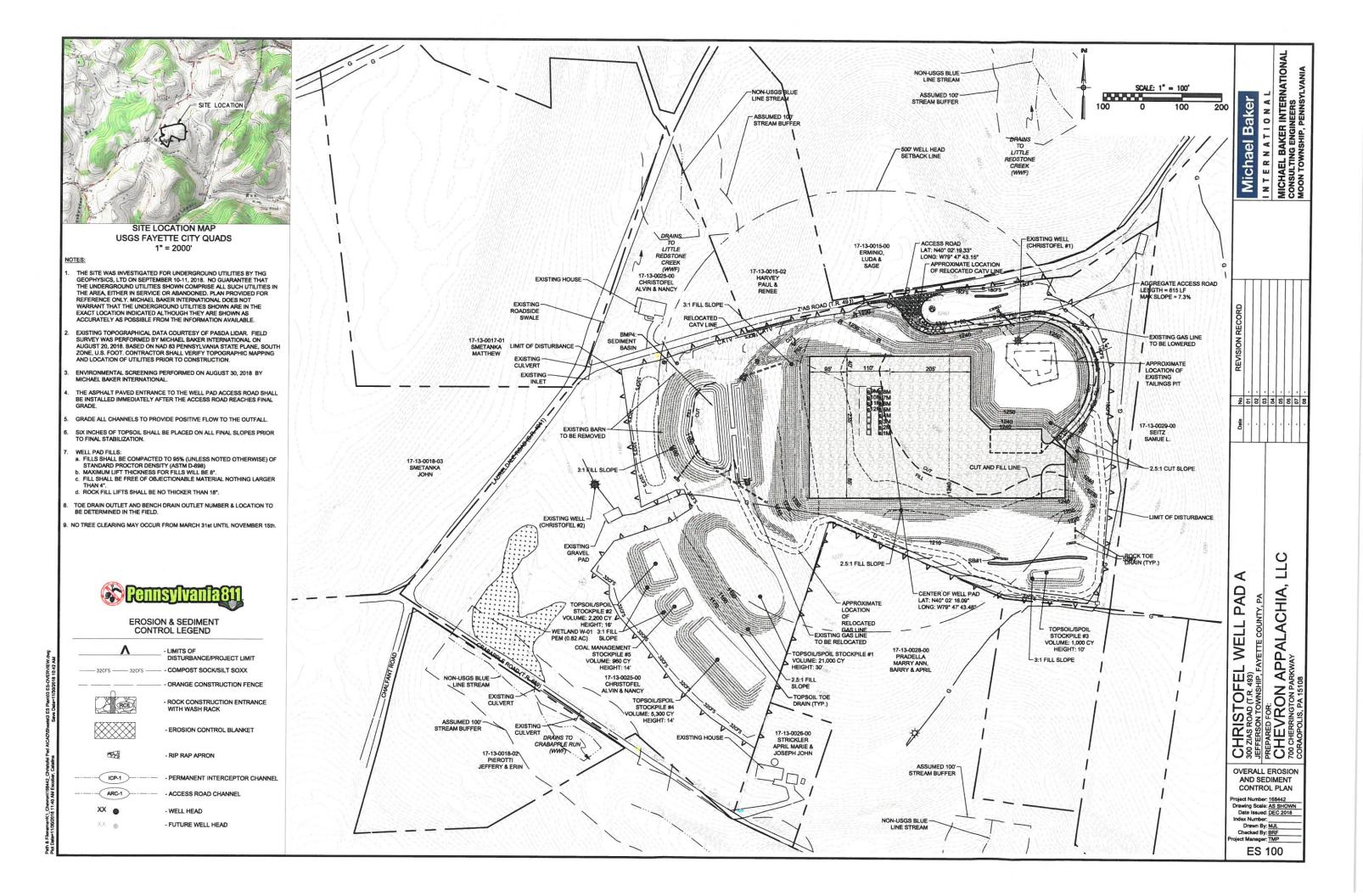
Provide page numbers from the stormwater narrative identifying the location of the above information.

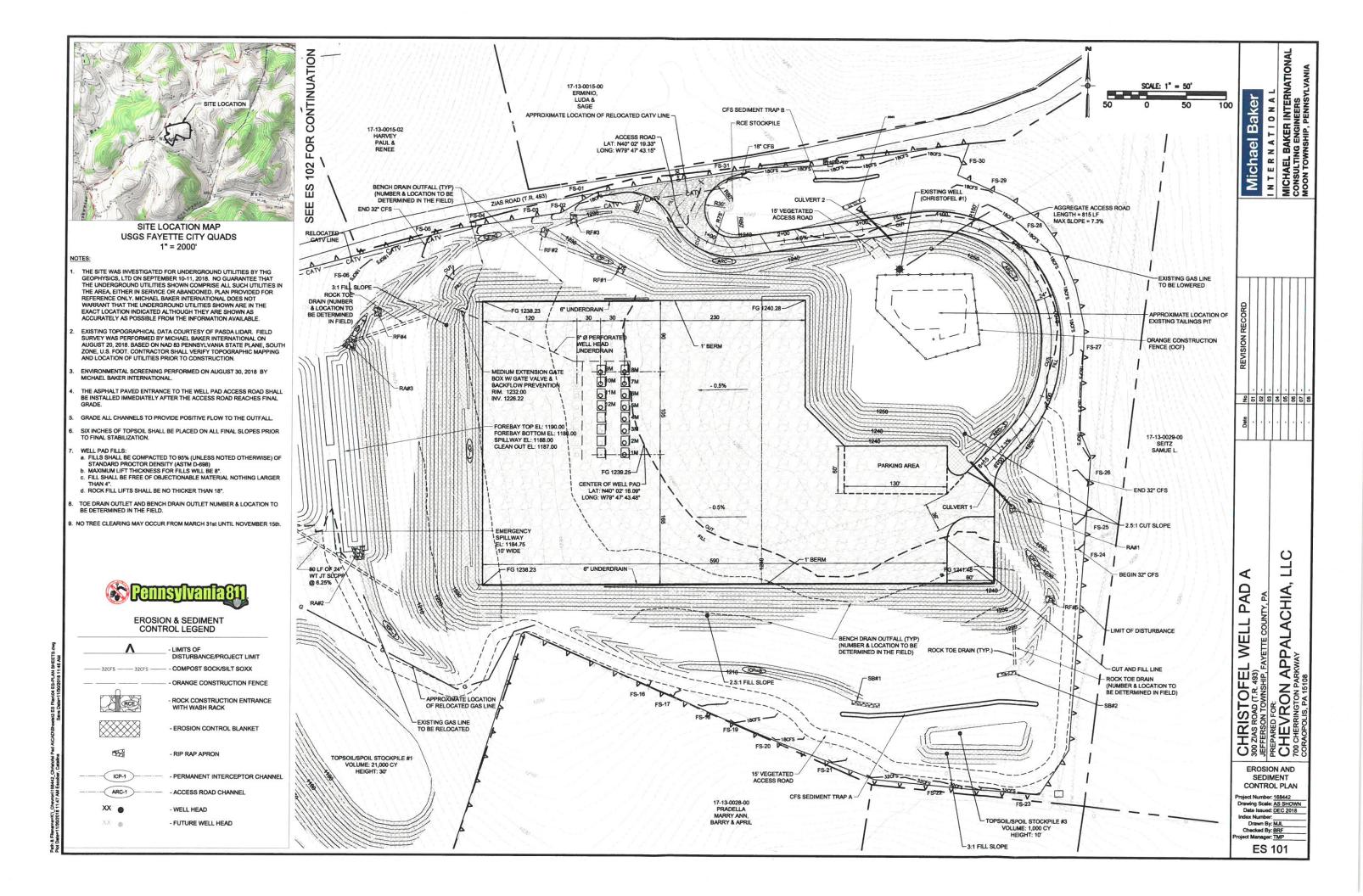
¹The infiltration testing information should be located on the plan view of the PCSM plan and should include infiltration test elevation and rate ²Can include active infiltration time-dewatering time should not exceed 72 hours after the 2-yr/24-hr storm ³Depth to limiting zone is recommended to be at least 2 ft below infiltration ⁴The value should be greater than or equal to the volume to be infiltrated or managed by the BMP ⁶A maximum of 2 ft hydraulic head is recommended ⁷Provide supporting field notes/documentation from soil evaluation

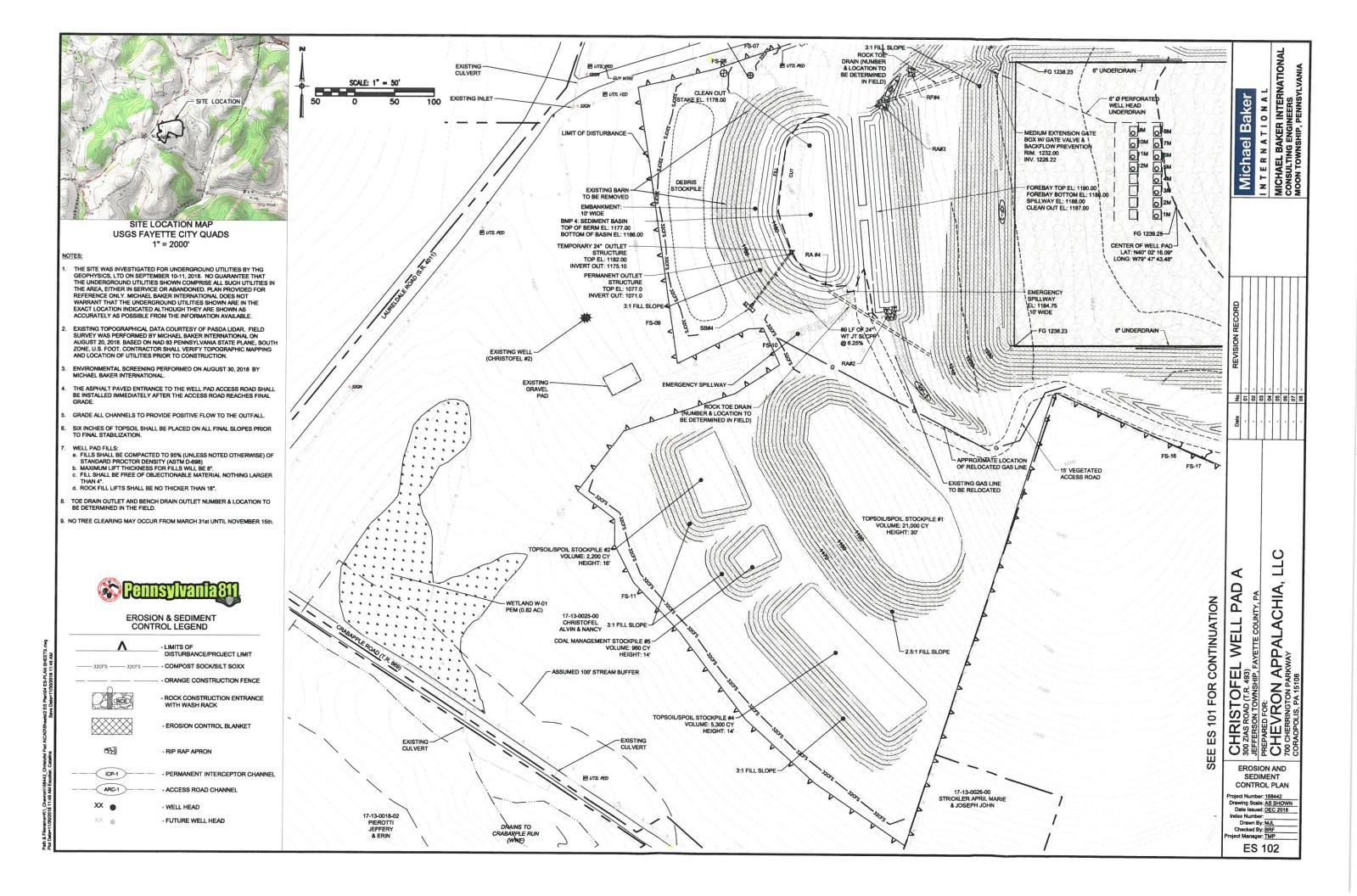


Michael Baker International ATTACHMENT A1

E&S Plan Drawings









Michael Baker International

ATTACHMENT A2

Site Location Map

