ADDENDUM G – ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT

DEQ Form 606-005B
Oct. 18, 2017

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report (ACSCER) for Stormwater Discharges Associated with Construction Supporting Activity under the OPDES General Permit OKR10

Submission of this ACSCER form is required in ADDENDUM G of this permit for Concrete and Asphalt Plants.
All requested information must be provided on this form. See instructions on Page 5 of this form

DEQ Authorization Number: OKR10_____

Part A: Operator Information and Certification

Section I. Operator Information

Operator Name: _____

Mailing Address: _____ City: _____

County: _____ State: _____ Zip Code: _____

Operator's Point of Contact : _____ Title: _____

Phone: _____ Email: _____

Section II. Facility Information

Facility Name: _____ Phone: _____

Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Latitude: _____ Longitude: _____

Facility's Point of Contact : _____ Title: _____

Phone: _____ E-mail: _____

Section III. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Annual Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2018.

This report is also to be retained as part of the Stormwater Pollution Prevention Plan (SWP3) for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with Addendum F of this Permit as part of the SWP3 will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: _____ Title: _____

Signature: _____ Date: _____

Part B: Annual Comprehensive Site Compliance Evaluation

Reporting period: _____

1. Number of routine facility inspections you performed during the reporting period: _____

2. Dates of the Inspection performed: _____

3. Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?

☐ Yes ☐ No ☐ All BMPs were effective

4. Were all BMPs you indicated you would be using in your SWP3, including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?

☐ Yes ☐ No

5. If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?

☐ Yes ☐ No ☐ All BMPs were being effective

6. Were there additional BMPs needed to address any conditions requiring corrective action?

☐ Yes ☐ No

7. If one or more BMPs were not being implemented, were corrective actions taken after the first inspection to eliminate the problem?

☐ Yes ☐ No ☐ All BMPs were being implemented

8. Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?

☐ Yes ☐ No ☐ No deficiencies noted in any inspection

9. Document any deficiencies identified and any corrective actions implemented to remove the original violation below. Use additional sheets if necessary.

Date	Deficiencies	Corrected		Date of Correction
_____	_____	☐ Yes	☐ No	_____
_____	_____	☐ Yes	☐ No	_____
_____	_____	☐ Yes	☐ No	_____
		☐ Yes	☐ No	

10. What must you do to correct the deficiencies that remain uncorrected?

_____

_____

11. Did any conditions require SWP3 review and revision to eliminate design, selection, installation, and/or implementation problem during the past year? If yes, describe the conditions in brief:

☐ No ☐ Yes

12.	At any time during the reporting period, did you discover any previously unidentified unauthorized non-stormwater discharges from your facility or previously unidentified pollutants in the existing discharges? ☐ Yes ☐ No
13.	Have all unauthorized non-stormwater discharges (including any discovered in previous years) been eliminated or permitted? ☐ Yes ☐ No ☐ Permit applied for ☐ No unauthorized discharges
14.	Have any significant spills or leaks occurred at your facility during the reporting period? ☐ Yes ☐ No
15.	If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with stormwater (as opposed to the spilled material being washed away by stormwater?) ☐ Yes ☐ No
16.	If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in stormwater? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem. ☐ Yes ☐ No ☐ No spills or leaks occurred
17.	Have all known spills or leaks been cleaned up or otherwise prevented from contaminating stormwater that would be discharged under the authority of this permit? ☐ Yes ☐ No ☐ No spills or leaks occurred
18.	How many times did you visually monitor all of your stormwater discharges at all the outfalls during the reporting year? _____
19.	Would the results of your visual monitoring indicate that there are pollutants in your stormwater discharges that are not adequately controlled by your current BMPs? ☐ Yes ☐ No
20.	If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? ☐ New pollutant source (including exposure of previously unexposed material) ☐ Failure to implement or maintain an existing BMP ☐ Less than expected performance from a BMP ☐ No BMP was selected to deal with that problem ☐ N/A (No problems identified)
21.	If your visual monitoring indicated a potential problem, what have you done to resolve the problem? ☐ Eliminated exposure or pollutant source ☐ Modified existing BMPs

	☐ Added a new BMP ☐ Plan to address problem by end of current reporting year ☐ Nothing planned ☐ N/A (No problems identified)
22.	Did any monitoring results exceed a numeric effluent limitation contained in Parts 3.4.1 and F.7.B during the past discharge monitoring period? ☐ Yes ☐ No
23.	If your answer to the previous question was **Yes**, list the dates, name of the pollutants and the test results that exceeded numeric effluent limitations. Use additional sheets if necessary.

Date	Pollutants	Test Results	Date	Pollutants	Test Results

24.	Were there any incidents of noncompliance in the past year or any noncompliance that is currently ongoing? ☐ Yes ☐ No ☐ Compliant with the Permit
25.	Were there any required revisions to the SWP3 resulting from the inspection and/or monitoring? ☐ Yes ☐ No
26.	If your answer to the previous question was **Yes**, list the dates, reason for revision and brief description of the revision. Use additional sheets if necessary.

Date	Reason for Revision	Description of Revision

Instructions for Completing the Annual Comprehensive Site Compliance Evaluation Report (ACSCER) Form 606-005B for Stormwater Discharges Associated with Construction supporting Activity for Concrete or Asphalt Batch Plants

When to File an ACSCER Form

Permittees who are presently covered under OPDES construction general permit OKR10 for stormwater discharges associated with construction supporting activity for concrete or asphalt batch plants must submit an Annual Comprehensive Site Compliance Evaluation Report (ACSCER) form to DEQ by March 1 of each year beginning in 2018. If your authorization becomes effective less than 1 month from the end of the yearly monitoring period, your first monitoring period starts with the next annual monitoring period.

Completing the Form

To complete this form, type or print in the appropriate areas only.

Permit Information

Enter the existing DEQ Authorization assigned to the facility identified in Section I for stormwater discharges from industrial activity.

Part A: Operator Information and Certification

Section I. Operator Information

Provide the legal name of the person, firm, public organization or any other commercial entity that owns or operates the facility described in this application. The name of the operator may or may not be the same name as the facility. An operator is the legal entity that controls the facility's operation, rather than the plant or site manager. Provide complete mailing address including city, county, state, and ZIP code. Include operator's point of contact name, title, telephone number and a valid email address.

Section II. Facility Information:

Enter the facility's official or legal name and complete physical address including city, county, state, and ZIP code. Include facility's point of contact name, telephone number and email address. Indicate the latitude and longitude of the facility to the nearest 15 seconds. . Include facility's point of contact name, title, telephone number and a valid email address.

Section III. Certification

The ACSCER form must be signed by a responsible party - for corporation: by a responsible corporate official, such as: president, vice president, secretary, and treasurer either for a corporation or company; for a partnership or sole proprietorship: by a general partner or the proprietor, respectively. (Note: for limited liability company (LLC): by one of its owners, called managing members/partners of the company); for a municipality, state, Federal, or other public facility: by either a principal executive or ranking elected official.

Part B: Annual Comprehensive Site Compliance Evaluation Report

1. A summary of your past year's routine facility inspection documentation such as control measures' maintenance, repair and/or replacement, any additional control measures needed to comply with the permits;
2. The location(s) of discharges of pollutants from the site, evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall(s);
3. A summary of your past year's corrective action documentation;
4. A summary of your past year's quarterly visual monitoring documentation;
5. A summary of your past year's effluent limitation violations if applicable; and
6. Describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the Permit.

Note: *Please see Part F.5 of CGP OKR10 for detailed scope of Annual Comprehensive Site Compliance Evaluation*

Completed ACSCER form must be submitted to DEQ by March 1 of each year beginning in 2018.

If you need any assistance or have any question, contact the Stormwater Unit of Environmental Complaints and Local Services (ECLS) of DEQ at (405) 702-6100 or email to: ecls-stormwaterpermitting@deq.ok.gov

Where to file an ACSCER Form

Completed ACSCER form must be submitted to the following address:

Stormwater Unit of ECLS
Oklahoma DEQ
P.O. Box 1677
Oklahoma City, OK 73101-1677

or fax it to: (405)702-6226

or email it to: ecls-stormwaterpermitting@deq.ok.gov

*Commencing **December 21, 2020**, NECs must be electronically submitted to DEQ. Instructions on how to access and use the appropriate electronic reporting tool will be made available on DEQ's website prior to the December 21, 2020 compliance deadline.*

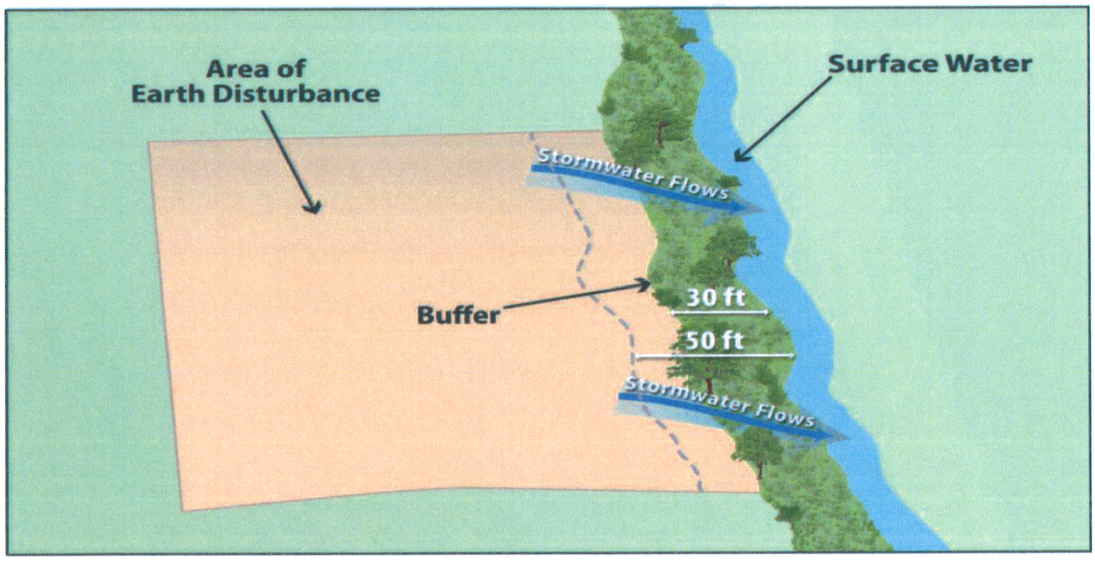
ADDENDUM H – BUFFER REQUIRMENTS

The purpose of this Addendum is to assist you in complying with the requirements in Parts 3.3.1.B and 3.5.2.A of this permit regarding the establishment of natural buffers or equivalent sediment controls.

H.1 Sites that are required to provide and maintain natural buffers and/or equivalent erosion and sediment controls

If the land disturbing activities will occur within the Aquatic Resources of Concern (ARC) which are identified by USFWS and ODWC, a vegetated buffer of at least 100 feet is required between the area disturbed and all perennial or intermittent streams on or adjacent to the construction site, or a vegetated buffer of at least 50 feet is required between the area disturbed and all ephemeral streams. If your disturbing activities will be adjacent to the waters of the State, a vegetated buffer of at least 50 feet is required. Figure H – 1 illustrates when a site would be required to comply with the requirements in Part 3.3.1.D due to their proximity to surface waters. If the surface water is not located within 50 feet of the earth-disturbing activities, Part 3.3.1 does not apply. If you determine that the buffer requirements apply to your site and those buffer requirements cannot be met, you may continue on to Part H. 2 of this Addendum.

Figure H - 1. Example of Earth-Disturbing Activities within 50 feet of surface water.



H.2 Compliance Alternatives to the Buffer Requirements

The following are 3 compliance alternatives from which permittees can choose, unless you qualify for any of the exceptions in Part H.3 of the Addendum:

1. Provide and maintain a 100-foot or 50-foot undisturbed natural buffer; or
2. Provide and maintain an undisturbed natural buffer that is less than 100-feet or 50-feet and is supplemented by additional erosion and sediment controls that achieve the sediment load reduction equivalent to a 100-foot or 50-foot undisturbed natural buffer; or
3. If infeasible to provide and maintain an undisturbed natural buffer of any size, implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 100-foot or 50-foot undisturbed natural buffer.

The compliance alternative selected must be maintained throughout the duration of permit coverage.

H.3 Exceptions to the Compliance Alternatives

The following exceptions apply to the requirement of Parts 3.3.1.B and 3.5.2.A

- Construction approved under a CWA Section 404 permit; or
- Construction of a water-dependent structure or water access areas (e.g., pier, boat ramp, trail); or
- If there is no discharge of stormwater to waters of the State through the area between the disturbed portions of the site and any waters of the State located within 100-feet or 50-feet of the site; or
- Where no natural buffer exists due to preexisting development disturbances (e.g., structures, impervious surfaces) that occurred prior to the initiation of planning for the current development of the site.

You must document in your SWP3 if any disturbances related to any of the above exceptions occurs within the buffer area on your site.

H.4 Requirements for Providing and Maintaining Natural Buffers

This part of the Addendum applies to you if you choose either Compliance Alternative 1 (100-foot or 50-foot buffer) or Compliance Alternative 2 (a buffer of < 100 feet or < 50 feet supplemented by additional erosion and sediment controls that achieve the equivalent sediment load reduction as the 100-foot or 50-foot buffer).

A. Buffer Width Measurement

Where you are retaining a buffer of any size, the buffer should be measured perpendicularly from any of the following points, whichever is further landward from the water:

1. The ordinary high water mark of the water body, defined as the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, and/or the presence of litter and debris; or
2. The edge of the stream or river bank, bluff, or cliff, whichever is applicable.

Refer to Figure H-2 and Figure H-3. You may find that specifically measuring these points is challenging if the flow path of the surface water changes frequently, thereby causing the measurement line for the buffer to fluctuate continuously along the path of the waterbody. Where this is the case, DEQ suggests that rather than measuring each change or deviation along the water's edge, it may be easier to select regular intervals from which to conduct your measurement. For instance, you may elect to conduct your buffer measurement every 5 to 10 feet along the length of the water.

Figure H - 2 Buffer measurements from the ordinary high water mark of the water body, as indicated by a clear natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, and/or the presence of litter/debris.

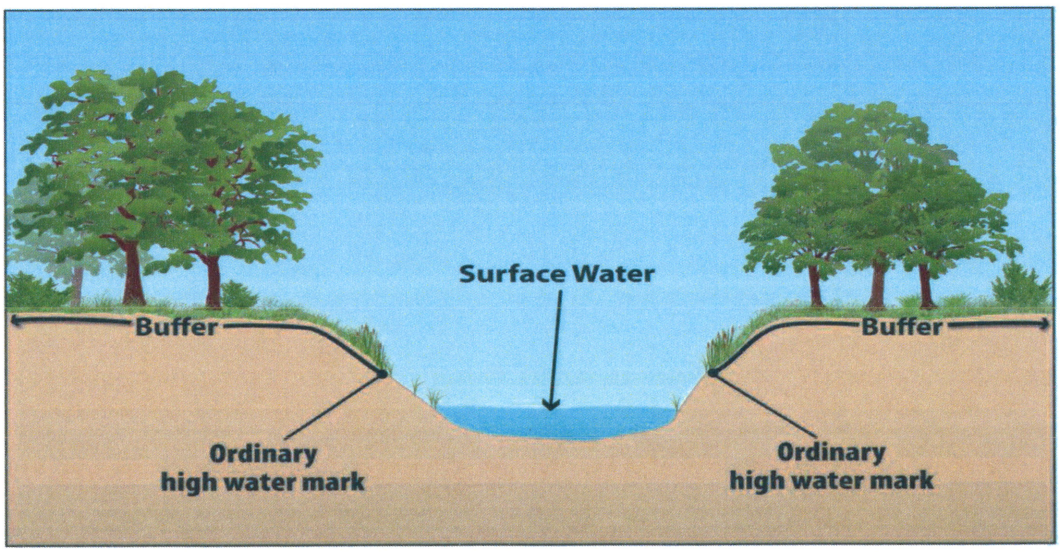
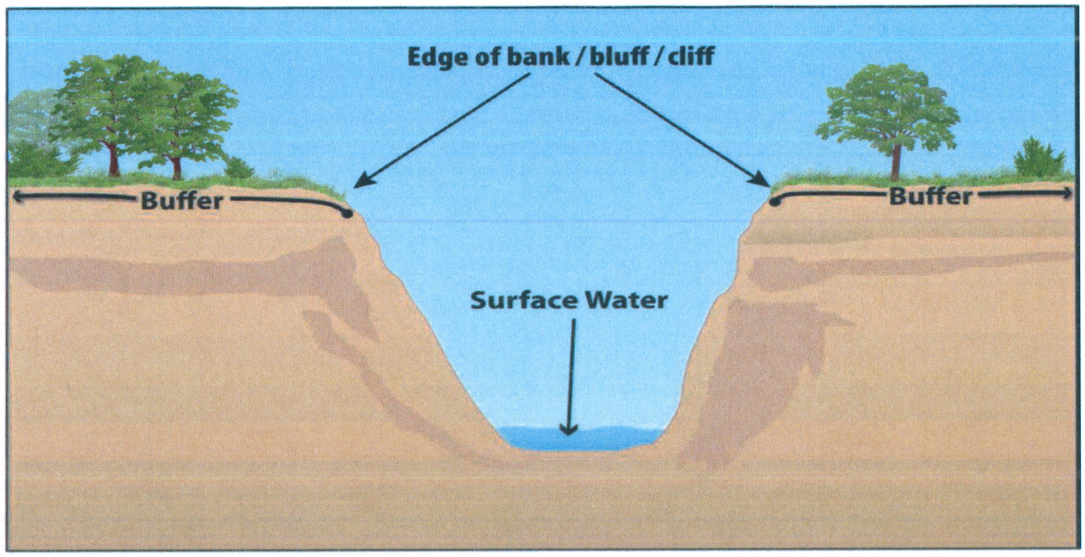


Figure H - 3 Buffer measurements from the edge of the bank, bluff, or cliff, whichever is applicable.



B. Limits to Disturbance within the Buffer

You are considered to be in compliance with this requirement to provide and maintain a natural buffer if you retain and protect from construction activities the natural buffer that existed prior to the commencement of construction. If the buffer area contains no vegetation prior to the commencement of construction (e.g., sand or rocky surface), you are not required to plant vegetation. As noted above, any preexisting structures or impervious surfaces are allowed in the buffer provided you retain and protect from disturbance the vegetation in the buffer outside the preexisting disturbance.

To ensure that the water quality protection benefits of the buffer are retained during construction, you are prohibited from conducting any earth-disturbing activities within the buffer during permit coverage.

C. Discharges to the Buffer

You must ensure that all discharges from the area of earth disturbance to the natural buffer are first treated by the site's erosion and sediment controls (*for example, you must comply with the Part 3.3.1.C requirement to establish sediment controls along any perimeter areas of the site that will receive pollutant discharges*), and if necessary to prevent erosion caused by stormwater flows within the buffer, you must use velocity dissipation devices.

D. SWP3 Documentation

You are required to document in your SWP3 the natural buffer width that is retained. For example, if you are complying with Compliance Alternative 1, you must specify in your SWP3 that you are providing a 100-foot or 50-foot buffer. Or, if you will complying with Compliance Alternative 2, you must document the reduced width of the buffer you will retaining (and you must also describe the erosion and sediment controls you will use to achieve an equivalent sediment reduction, as required in Part H.5 below. Note that you must also show any buffers on your site map in your SWP3. Additionally, if any disturbances related to the exceptions in Part H occur within the buffer area, you must document this in the SWP3.

H.5 Guidance for Providing the Equivalent Sediment Reduction as the 100-foot or 50-foot Buffer

If you are selecting Compliance Alternative 2 (provide and maintain a buffer that is less than 100 feet or 50 feet that is supplemented by erosion and sediment controls that achieve the sediment load reduction equivalent to a 100-foot or 50-foot buffer) or Compliance Alternative 3 (implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 100-foot or 50-foot buffer)

A. Determine whether it is Feasible to Provide a Reduced Buffer

DEQ recognizes that there will be a number of situations in which it will be infeasible to provide and maintain a buffer of any width. While some of these situations may exempt you from the buffer requirement entirely (See H.3), if you do not qualify for one of these exemptions, there still may be conditions or circumstances at your site that make it infeasible to provide a natural buffer. For example, there may be sites where a significant portion of the property on which the earth-disturbing activities will occur is located within the buffer area, thereby precluding the retention of natural buffer areas.

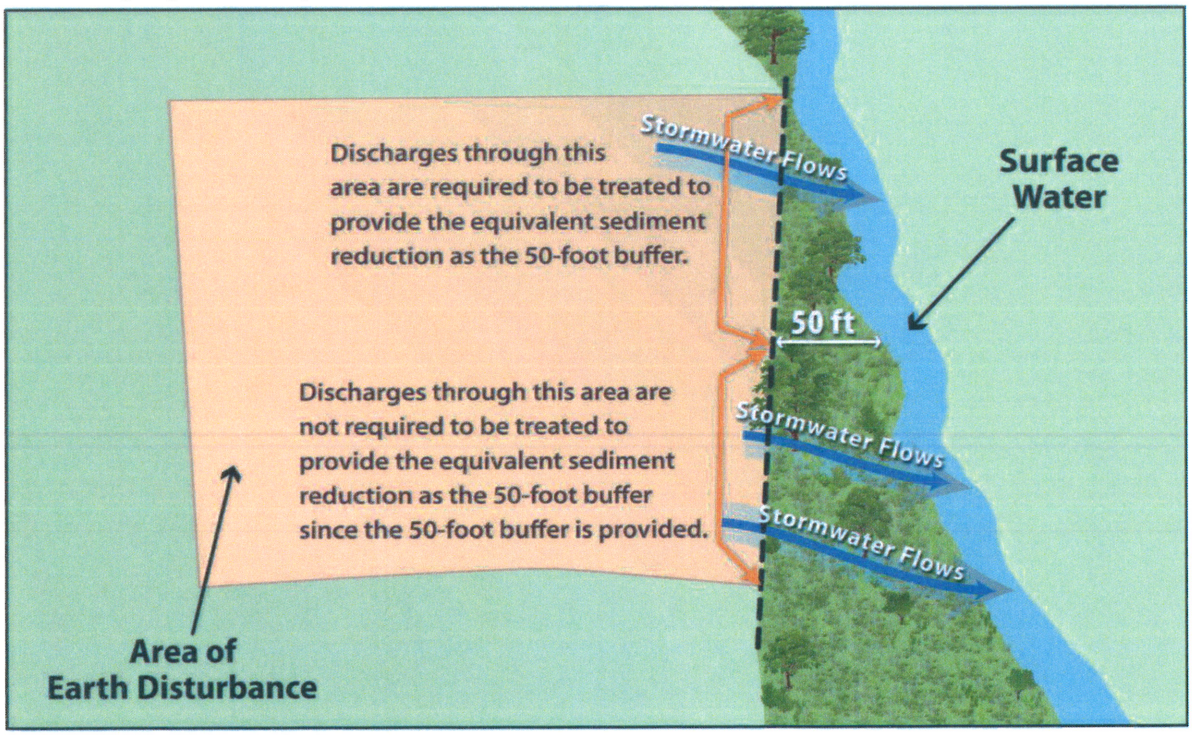
Therefore, you should choose Compliance Alternative 2 if it is feasible for you to retain some natural buffer on your site. (Note: For any buffer width retained, you are required to comply with the requirements in Part H.4, above, concerning the retention of vegetation and restricting earth disturbances.) Similarly, if you determine that it is infeasible to provide a natural buffer of any size during construction, you should choose Compliance Alternative 3.

B. Design Controls That Provide Equivalent Sediment Reduction as 100-foot or 50-foot Buffer

You must next determine what additional controls must be implemented on your site that alone, or in combination with any retained natural buffer, achieve a reduction in sediment equivalent to that achieved by a 100-foot or 50-foot buffer.

Note that if only a portion of the natural buffer is less than 50 feet, you are only required to implement erosion and sediment controls that achieve the sediment load reduction equivalent to the 50-foot buffer for discharges through that area. You would not be required to provide additional treatment of stormwater discharges that flow through 50 feet or more of natural buffer. See Figure H - 4.

Figure H - 4 Example of how to comply with the requirement to provide the equivalent sediment reduction when only a portion of your earth-disturbances discharge to a buffer of less than 50 feet.



Steps to help you meet Compliance Alternative 2 and 3 requirements are provided below:

Step 1 - Estimate the Sediment Reduction from the 100-foot or 50-foot Buffer

In order to design controls that match the sediment removal efficiency of a 100-foot or 50- foot buffer, you first need to know what this efficiency is for your site. The sediment removal efficiencies of natural buffers vary according to a number of site-specific factors, including precipitation, soil type, land cover, slope length, width, steepness, and the types of sediment controls used to reduce the

discharge of sediment prior to the buffer. DEQ has simplified this calculation by developing buffer performance tables covering a range of vegetation and soil types for the areas covered by the permit. See Attachment 1, Tables H - 1 through H - 4.

Note: buffer performance values in Tables H - 1 through H - 4 represent the percent of sediment captured through the use of perimeter controls (e.g., silt fences) and 100-foot or 50-foot buffers at disturbed sites of fixed proportions and slopes. Using Tables H - 1 through H - 4 (see Attachment 1), you can determine the sediment removal efficiency of a 100-foot or 50-foot buffer for your geographic area by matching the vegetative cover type and the type of soils that predominate at your site. For example, if your site is located in Oklahoma City (see Table H - 1), and your buffer vegetation corresponds most closely with that of fescue grass, and the soil type at your site is best typified as sand, your site's sediment removal efficiency would be 90 percent.

In this step, you should choose the vegetation type in the tables that most closely matches the vegetation that would exist naturally in the buffer area on your site regardless of the condition of the buffer. However, because you are not required to plant any additional vegetation in the buffer area, in determining what controls are necessary to meet this sediment removal equivalency in Step 2 below, you will be able to take credit for this area as a fully vegetated "natural buffer."

Similarly, if a portion of the buffer area adjacent to the surface water is owned by another party and is not under your control, you can treat the area of land not under control as having the equivalent vegetative cover and soil type that predominates on the portion of the property on which your construction activities are occurring. *For example, if your earth-disturbances occur within 50 feet of a surface water, but the 10 feet of land immediately adjacent to the surface water is owned by a different party than the land on which your construction activities are taking place and you do not have control over that land, you can treat the 10 foot area adjacent to the stream as having the equivalent soil and vegetation type that predominates in the 40 foot area under your control. You would then make the same assumption in Step 2 for purposes of determining the equivalent sediment removal.*

Alternatively, you may do your own calculation of the effectiveness of the 50-foot buffer based upon your site-specific conditions, and may use this number as your sediment removal equivalency standard to meet instead of using Tables H – 1 through H - 4. This calculation must be documented in your SWP3.

Step 2 - Design Controls That Match the Sediment Removal Efficiency of the 100-foot or 50-foot Buffer

Once you have determined the estimated sediment removal efficiency of a 100-foot or 50-foot buffer for your site in Step 1, you must next select stormwater controls that will provide an equivalent sediment load reductions.

To make the determination that your controls and/or buffer area achieve an equivalent sediment load reduction as the 100-foot or 50-foot buffer, you may use stormwater controls listed in Tables H-1 through H-4 to select a single designed control, such as 12" or 6" wattle, roll material, silt fence or straw mulch or gravel bag berm (see Attachment 1), or you will use a model or other type of calculator. There are a variety of models available that can be used to support your calculation, including USDA's RUSLE-series programs and the WEPP erosion model, SEDCAD, SEDIMOT, or other models.

Alternatively, you may elect to install a combination of stormwater controls and to retain some amount of a buffer. Whichever control(s) you select, you must demonstrate in your SWP3 that the controls will provide at a minimum the same sediment removal capabilities as the 100-foot or 50-foot buffer (Step 1). You are allowed to take credit for the removal efficiencies of your required perimeter controls in your calculation of equivalency, because these were included in calculating the buffer removal efficiencies in Tables H - 1 through H - 4. (Note: You are reminded that the controls must be kept in effective operating condition until you have completed final stabilization on the disturbed portions of the site discharging to the surface water.)

If you are retaining a buffer of less than 100 feet or 50 feet, you may take credit for the removal that will occur from the reduced buffer and only need to provide additional controls to make up the difference between the removal efficiency of a 100-foot or 50-foot buffer and the removal efficiency of the narrower buffer. For example, if you are retaining a 30-foot buffer, you can account for the

sediment removal provided by the 30-foot buffer retained, and you will only need to design controls to make up for the additional removal provided by the 20-foot of buffer that is not being provided. To do this, you would plug the width of the buffer that is retained into RUSLE or another model, along with other stormwater controls that will together achieve a sediment reduction equivalent to a natural 50-foot buffer.

As described in Step 1 above, you can take credit for the area you have retained as a "natural buffer" as being fully vegetated, regardless of the condition of the buffer area.

For example, if your earth-disturbances occur within 30 feet of a surface water, but the 10 feet of land immediately adjacent to the surface water is owned by a different party than the land on which your construction activities are taking place and you do not have control over that land, you can treat the 10-foot area adjacent to the stream as having the equivalent soil and vegetation type a natural buffer, regardless of the activities that are taking place in the area. Therefore, you can assume (for purposes of your equivalency calculation) that your site is providing the sediment removal equivalent of a 30-foot buffer, and you will only need to design controls to make up for the additional removal provided by the 20- foot of buffer that is not being provided.

Step 3 - Document How Site-Specific Controls Will Achieve the Sediment Removal Efficiency of the 100-foot or 50-foot Buffer

In Steps 1 and 2, you determined both the expected sediment removal efficiency of a 100-foot or 50-foot buffer at your site, and you used this number as a performance standard to design controls to be installed at your site, which alone or in combination with any retained natural buffer, achieves the expected sediment removal efficiency of a 100-foot or 50-foot buffer at your site. The final step is to document in your SWP3 the information you relied on to calculate the equivalent sediment reduction as an undisturbed natural buffer. DEQ will consider your documentation to be sufficient if it generally meets the following:

For Step 1: refer to the Table in Attachment 1 that you used to derive your estimated 100-foot or 50-foot buffer sediment removal efficiency performance. Include information about the buffer vegetation and soil type that predominate at your site, which you used to select the sediment load reduction value in Tables H - 1 through H - 4. Or, if you conducted a site-specific calculation for sediment removal efficiency, provide the specific removal efficiency, and the information you relied on to make your site-specific calculation.

For Step 2: (1) Specify a single designed stormwater control (see Table H-1 – H-4) or other stormwater controls that you used to estimate sediment load reductions from your site. Specify a model or other type of calculator that you used to support your calculation if any; and (2) the results of calculations showing how your controls will meet or exceed the sediment removal efficiency from Step 1. If you choose Compliance Alternative 3, you must also include in your SWP3 a description of why it is infeasible for you to provide and maintain an undisturbed natural buffer of any size.

ATTACHMENT 1

Sediment Removal Efficiency Tables: Percent of sediment removal was calculated for a 200-foot runoff area with a 100-foot buffer, and a 100-foot runoff area with a 50-foot buffer. DEQ recognizes that very high removal efficiencies, even where theoretically achievable by a 50-foot or 100-foot buffer, may be very difficult to achieve in practice using alternative controls. Therefore in the tables below, DEQ has limited the removal efficiencies to a maximum of 90%. Efficiencies that were calculated at greater than 90% are shown as 90%, and this is the minimum percent removal that must be achieved by alternative controls. When more than one alternative BMP must be used to compensate for the loss of the buffer strip, this amount should be calculated using the following formula:

$$Removal\ Rate_{total} = Removal\ Rate_1 + (1 - Removal\ Rate_1)(Removal\ Rate_2)$$

For example, if we are installing two BMPs that both have a 70% removal rate, the total removal rate is:

$$0.70 + (1 - 0.70)(0.70) = 0.91 = 91\%$$

Best Management Practices Defined:

- Fescue: Buffer strip (100 feet or 50 feet) at the end of the overland flow path of Fescue grass, the area has not been grazed
- Grama Grass: Buffer strip (100 feet or 50 feet) at the end of the overland flow path of Grama grass, at least the third year after seeding
- Range Grass: Buffer zone (100 feet or 50 feet) at the end of the overland flow path of a generic low production range grass
- Weeds: Buffer zone (100 feet or 50 feet) at the end of the overland flow path of at least 5 years of growth of generic weeds started from volunteer germination
- 12" Wattle: 12 inch straw sock or wattle installed at the base of the runoff area
- 6" Wattle: 6 inch straw sock or wattle installed at the end of the overland flow path
- Roll Material: Erosion control blanket placed over the disturbed area
- Silt Fence: Full retardance fabric silt fence installed at the end of the overland flow path
- Straw Mulch: Straw mulch applied over the disturbed area, 4000 lbs/acre
- Gravel Berm: Gravel bag berm installed on a level contour to intercept sheet flows.

Soils Defined:

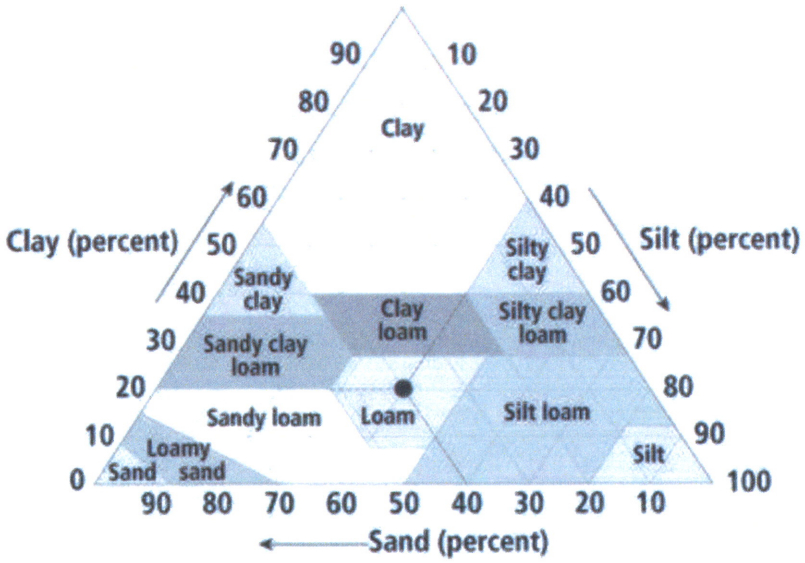


Table H-1 Estimated Buffer Performance of Blade Fill in Oklahoma County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	80	83	81	82	81	81	80	79	82	85	87
Grama Grass (50' Buffer)	79	79	82	80	81	80	80	79	80	83	76
Range Grass (100' Buffer)	89	87	90	90	90	90	90	90	90	90	89
Range Grass (50' Buffer)	88	86	90	90	90	90	90	90	90	98	87
Weeds (100' Buffer)	68	67	70	71	71	72	73	72	73	73	63
Weeds (50' Buffer)	67	65	69	68	70	71	71	70	72	67	53
12" Wattle	71	61	56	67	45	57	70	20	76	82	73
6" Wattle	61	52	48	59	41	52	68	20	73	66	29
Roll Material	90	90	90	90	90	90	90	90	90	90	90
Silt Fence	61	52	48	59	41	52	68	20	73	66	66
Straw Mulch	76	75	77	73	78	75	77	81	76	77	88
Gravel Bag Berm	80	68	64	75	50	62	74	27	80	84	86

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

Table H-2 Estimated Buffer Performance of Blade Cut in Oklahoma County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	60	58	74	69	78	77	73	74	72	57	16
Grama Grass (50' Buffer)	59	53	67	62	74	30	69	74	70	38	11
Range Grass (100' Buffer)	87	85	89	90	90	90	90	89	89	86	86
Range Grass (50' Buffer)	85	84	88	89	90	90	90	89	87	84	84
Weeds (100' Buffer)	57	52	62	63	64	64	66	62	26	52	43
Weeds (50' Buffer)	53	51	58	58	62	64	66	62	58	46	39
12" Wattle	63	53	55	65	46	62	75	20	77	54	11
6" Wattle	28	26	45	46	42	58	63	17	38	7	1
Roll Material	83	84	85	83	86	85	85	90	85	86	86
Silt Fence	28	26	45	46	42	58	63	17	38	7	1
Straw Mulch	44	42	45	42	46	44	46	55	43	48	47
Gravel Bag Berm	76	65	61	72	48	62	73	22	77	82	82

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

Table H-3 Estimated Buffer Performance of Blade Fill Tulsa County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	81	82	82	82	81	81	80	79	82	85	87
Grama Grass (50' Buffer)	79	80	82	82	81	81	80	78	80	84	76
Range Grass (100' Buffer)	90	87	90	90	90	90	90	89	90	90	89
Range Grass (50' Buffer)	88	86	89	90	90	90	90	90	90	88	86
Weeds (100' Buffer)	50	50	48	51	50	50	49	47	51	51	48
Weeds (50' Buffer)	43	48	47	49	48	47	49	45	49	44	40
12" Wattle	68	60	53	658	44	57	69	18	73	80	71
6" Wattle	57	50	47	58	40	53	66	18	71	62	30
Roll Material	90	90	90	90	90	90	90	90	90	90	90
Silt Fence	57	50	47	58	40	53	66	18	71	62	30
Straw Mulch	72	75	75	73	76	74	74	79	92	75	76
Gravel Bag Berm	77	66	60	71	49	62	72	24	77	82	84

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

Table H-4 Estimated Buffer Performance of Blade Cut in Tulsa County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	89	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	60	59	73	68	78	77	73	88	72	56	13
Grama Grass (50' Buffer)	58	55	68	63	76	75	70	73	69	39	11
Range Grass (100' Buffer)	87	85	89	90	90	90	90	87	90	86	85
Range Grass (50' Buffer)	85	84	88	89	90	90	90	88	87	84	84
Weeds (100' Buffer)	52	50	58	59	63	64	66	63	56	42	40
Weeds (50' Buffer)	49	45	45	56	59	61	59	56	49	41	36
12" Wattle	62	55	55	63	45	61	75	20	77	55	8
6" Wattle	25	27	45	50	41	57	63	198	38	6	1
Roll Material	82	83	84	80	86	90	85	90	84	86	86
Silt Fence	40	27	45	50	74	57	63	18	38	6	1
Straw Mulch	35	41	42	27	43	39	40	51	42	43	44
Gravel Bag Berm	73	63	58	69	47	61	70	20	74	79	82

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

ADDENDUM I – STORMWATER RUNOFF COEFFICIENTS

Typical Runoff Coefficients for 5 to 10 year Frequency Design*

	Description of Area	Runoff Coefficients
	Business	
1	Downtown areas	0.70-0.95
2	Neighborhood areas	0.50-0.70
	Residential	
3	Single-family areas	0.30-0.50
4	Multi-units, detached	0.40-0.60
5	Multi-units, attached	0.60-0.75
6	Residential (suburban)	0.25-0.40
7	Apartment dwelling areas	0.50-0.70
	Industrial	
8	Light areas	0.50-0.80
9	Heavy areas	0.60-0.90
10	Parks, cemeteries	0.10-0.23
11	Playgrounds	0.20-0.35
12	Railroad yard areas	0.20-0.40
13	Unimproved areas	0.10-0.30
	Streets	
14	Asphalt	0.70-0.95
15	Concrete	0.80-0.95
16	Brick	0.70-0.85
17	Drives and walks	0.75-0.85
18	Roofs	0.75-0.95
	Lawns, Sandy soil	
19	Flat, 2%	0.05-0.10
20	Average, 2-7%	0.10-0.15
21	Steep, 7%	0.15-0.20
	Lawns, Heavy soil	
22	Flat, 2%	0.13-0.17
23	Average, 2-7%	0.18-0.22
24	Steep, 7%	0.25-0.35

*Viessman, W., Jr., G. L. Lewis, J. W. Knapp, 1989, *Introduction to Hydrology,* 3rd ed., Harper and Row, New York.

ADDENDUM J – NOTIFICATIO OF CHANGE OF OWNERSHIP

_____

(Project Name and permit authorization number #)

I, _____, operator of a larger common plan of development or sale,
(Name of Permittee)

located at _____ and authorized under DEQ's Construction
(Subdivision Name)

General Permit (CGP) OKR10, have notified the new owner/operator, _____,
(Name of New Owner/Operator)

who can be reached at _____and _____,
(Phone Number) (Email Address)

of an individual lot # _____, Block #_____ of_____,
(Lot Number) (Block Number) (Subdivision Name)

of the stormwater permitting requirements for his/her construction site(s).

DEQ CGP OKR10 requires this new owner/operator to submit a NOI and prepare a SWP3 prior to commencement of any construction activity for this lot(s). I understand that with the sale of this lot to the new owner(s)/operator(s); I must notify the new owner(s)/operator(s) of their obligation to obtain their own permit coverage with DEQ prior to commencement of construction activity.

Signature:_____Title:_____

Print Name:_____Date:_____

APPENDIX B - NOTICE OF INTENT AND AUTHORIZATION

DEQ Form 606-002A Oct 18, 2017

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Notice of Intent (NOI)
for Stormwater Discharges Associated with Construction Activity under the OPDES Construction General Permit OKR10

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized by DEQ for stormwater discharges associated with construction activity on land disturbance of equal to or greater than 1 or more acres, or less than 1 acre of total land area that is part of a larger common plan of development or sale in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the OKR10 permit. To obtain an authorization from DEQ, this form must be complete with all the pertinent information.
All associated fees must be submitted with this NOI. See instructions for completing the NOI on pages 3 and 4 of this form.

☐NEW APPLICATION, ☐MODIFICATION or ☒RENEWAL of current permit, enter the authorization number: OKR10 27644

I. Operator Information

Operator Name: Burns & McDonnell Engineering Company, Inc Phone: (314) 682-1560

Mailing Address: 9400 Ward Parkway

City: Kansas City State: MO Zip Code: 64114

Operator's Point of Contact : John Hesemann Title: Regional Manager

Phone: (314) 682-1560 E-mail: jhesemann@burnsmcd.com

II. Site/Project Information

Site/Project Name: Groundwater Remediation Project Phone:

Site/Project Address: 100 North Highway 74

City: Guthrie County: Logan State: OK Zip Code: 73044

Site/Project's Point of Contact : Jeff Lux Title: Project Manager

Phone: (405) 642-5152 E-mail: jlux@envpm.com

Site/Project's purpose: ☐Road/Bridge ☐Wind Farm ☐Residential Subdivision ☐Commercial Building ☒Others

Latitude: 35°53'00.84"N Longitude: 97°34'34.03"W at the center of the Site/Project or starting and ending points for Linear Project

Latitude: Longitude:

Estimated construction start date: 09/18/2017 Estimated construction end date: 12/12/2017

Total area of the construction site: 665.00 (acres) Estimated area to be disturbed: 1.00 (acres)

Current total impervious area: 662.00 (acres) Post-construction total impervious area: 662.00 (acres)

Post –construction runoff coefficient of the site: 0.22 Soil and fill material description: sandy clay loam-silty clay loa

Is this site part of the common plan of development or sales? ☐ Yes ☒ No

Endangered Species Eligibility

a.☐ My site/project is not located within any of the corridors of Federal and State identified Aquatic Resources of Concern (ARC);

b.☒ My site/project is located within a corridor of Federal and State identified ARC and I agree to implement the control measures specified in Step 2 of Part 10.2 of the OKR10 permit;

c.☐ If one of eligibility criteria cannot be met, I may use Addendum H for equivalent sediment controls or contact DEQ at (405)702-8100 for further assistance;

d.☐ I am required to have an Endangered Species Act Section 7 consultation process and

e.☐ I am relying on another permittee's certification of eligibility and agree to comply with the conditions of that certification.

III. Site/Project Discharge Information

Does the facility discharge stormwater into a MS4? ☐ Yes ☒ No, If yes, name of the MS4 Operator: _____

Receiving Water Information (note: use additional sheet of paper if necessary)

Name of the Receiving Waterbody	Is this waterbody impaired? If so, what are its impairments?	Is there a TMDL for that impairment?
Cimarron River (OK620910010010_	☐ Yes ☒ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No

IV. Stormwater Pollution Prevention Plan (SWP3) Information

Has the SWP3 been prepared and available on site? ☒ Yes ☐ No

Is the operator registered for construction activities with the Secretary of State of Oklahoma? ☒ Yes ☐ No

Proposed Best Management Practices to control pollution in the stormwater discharges, check all that apply:

☐ Construction phased	☐ Sediment basin/trap	☑ Mulching/seeding/sodding	☑ Vegetated buffer
☐ Vehicle/concrete wash-out	☑ Site inspection	☐ Diversion dikes	☐ Inlet protection
☐ Construction entrances	☑ Silt fence	☐ Waste management	☐ Stream crossings
☑ Spill prevention/cleanup	☑ Employee training	☐ Compost blanket/geotextiles	☐ Check dams
☐ Construction sequencing	☐ Riprap	☐ Gradient terraces	☐ Silt dikes

Other BMPs: _____

Post-construction Best Management Practices for construction activities, Check all that apply:

☐ Narrow street/turnaround	☐ Wet/dry pond	☐ Protected natural features	☐ Vegetated filter trips
☐ Eliminated curbs & gutters	☐ Wetland	☐ Infiltration basin/trench	☐ Porous pavement
☐ Bio-retention/rain gardens	☐ Riparian	☐ Redevelopment/retrofit	☐ Grassed swales
☐ Low impact development	☐ Green designs	☐ Conservation easements	☐ Retrofit

Other BMPs: _____

V. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my 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. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: John Hesemann Title: Regional Manager

Signature: _____ Date: 11/06/2017

For DEQ use only: Assigned Authorization Number: OKR10_____

Instructions for Completing NOI Form 606-002A for Stormwater Discharges Associated with Construction Activity on Sites of One or more acres under the OPDES Construction General Permit OKR10

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Who Must File an NOI Form

Under Section 402(p) of the Clean Water Act and regulation at 40 CFR § 122.26, adopted and incorporated by reference in Oklahoma Administrative Code (OAC) 252:606-1-3(b)(3)(L), stormwater discharges associated with construction activities are prohibited to waters of Oklahoma State unless authorized under an Oklahoma Pollutant Discharge Elimination System (OPDES) permit from Oklahoma Department of Environmental Quality (DEQ). Operators of construction sites where one or more acres are disturbed, smaller sites that are part of a larger common plan of development or sale where there is a cumulative disturbance of at least one acre must obtain coverage under the OPDES Construction General Permit (CGP) OKR10 by submitting a completed NOI to DEQ. If you have questions regarding permit coverage under the Stormwater Program, you may call the Stormwater Unit of Environmental Complaints and Local Services (ECLS) of DEQ at (405) 702-6100 or email to ecls-stormwaterpermitting@deq.ok.gov.

Completing the NOI Form

To complete an NOI form, type or print in all the appropriate places of the form. Check the appropriate box whether you are filing for a new application or modification or renewal of your current permit. Enter your current authorization number, if you are applying for permit modification or renewal.

Section I. Operator Information

Provide the legal name, mailing address and telephone number of the company/firm, public organization, or any other entity that either individually or together meets the following two criteria: (1) have operational control over construction plans and specifications, including that the ability to make modifications to those plans and specifications (e.g., in most cases this is the owner of the site); and/or (2) have the day-to-day operational control of those activities at the site necessary to ensure compliance with Stormwater Pollution Prevention Plan (SWP3) and/or other permit conditions (e.g., they are authorized to direct worker at a site to carry out activities required by the permit; in most cases this the general contractor of the project).

Also enter the name, title, phone number, and email address for the operator's point of contact.

Section II. Site/Project Information

Provide the site/project's official or legal name, phone number and street address or general location information (e.g., Intersection of State Highways 61 and 34). Also provide the name, title, phone number, and email address for the site/project's point of contact.

Indicate the purpose of the project (i.e., residential subdivision, commercial building, road and/or bridges, wind farm, etc.).

Provide Latitude and Longitude of the construction project or site (at the center of the site). Latitude and Longitude can be obtained online at DEQ and USGS's websites or other mapping tools.

Provide the estimated starting and ending dates of the construction or site or project. The date must be provided in DD-MM-YYYY where YY is the year, MM is the month and DD is the date.

Provide total area of construction site, and estimated area to be disturbed in acres.

Provide total impervious area (pre-construction) and total imperious area construction completed (post-construction) in acres.

Provide post-construction runoff coefficient of the site after the construction addressed in the NOI is completed. Operator may use recommended runoff coefficients in Addendum I of this permit. Average coefficients for composite area may be calculated on an area weighted basis from $C=\sum CiAi/\sum Ai$ Where Ci is the coefficient applicable to the area Ai.

Descript the nature of fill material and existing soil data describing soils (i.e., coarse-grained soils: gravels, sands, or fine-grained soils: silts and clays, silts and clays, and highly organic soils etc.). Operator may use soil classification chart in Attachment 1 of Addendum H to determine the types of the soils on the sites.

Indicate whether this is the site of the common plan of development or sale.

Complete the section on Endangered Species Eligibility by checking the appropriate box: (a) the site/project is not located within any of the corridors of the Federal or State identified Aquatic Resources of Concern (ARC) and further investigation is not required; or (b) the site/project is located within a corridor of a Federal or State identified ARC. Operator agrees to implement the control measures specified in Step 2 of Part 10.2 of this permit; or (c) If one of those eligibility criteria under Part 1.2.2.E.2.b, d, or e cannot be met, operator may use Addendum H Buffer Requirements to evaluate alternatives of buffer requirements and select equivalent sediment controls or contact DEQ for further consultation; or (d) operator's federally approved construction activities are authorized by the appropriate Federal or State agency and that authorization addresses the Endangered Species Act Section 7 consultation for the operator's stormwater discharge or stormwater-related activities. Operator selecting option d must include documentation from US Fish and Wildlife Service (USFWS) or a qualified biologist that demonstrates Section 7 consultation has been completed. The SWP3 must include any conditions resulting from that consultation; or (e) operator's stormwater discharges and stormwater-related activities were already addressed in another operator's certification of eligibility under Part 1.3.2E.2.d that included the proposed site/project area. Operator agrees to comply with any conditions attached to that certification.

Section III. Site/Project Discharge Information

Indicate whether the site/project discharges stormwater to a Municipal Separate Storm Sewer System (MS4), if yes; enter the name of the MS4 operator. A MS4 is defined as a conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that are owned or operated by a state, city, town, borough, parish, district, association, or other public body which is designed or used for collecting or conveying stormwater.

Identify all the receiving waterbodies from the sites that discharge stormwater, including names of those waterbodies. Check appropriate box if the receiving waterbody is listed in DEQ 303(d) impaired waterbodies or drained to the watershed with approved Total Maximum Daily Loads (TMDL) report. Identified the pollutant(s) for which the waterbody is impaired.

Instructions for Completing NOI Form 606-002A for Stormwater Discharges Associated with Construction Activity on Sites of One or more acres under the OPDES Construction General Permit OKR10

Section IV. Stormwater Pollution Prevention Plan (SWP3) Information

All site/projects eligible for coverage under the CGP OKR10 permit must prepare a SWP3 prior to submitting the NOI to DEQ. The SWP3 is intended to document the selection, design, and installation of different control measures to meet the permit's non-numeric technology based effluent limitations, if applicable, numeric effluent limitations, and water quality based effluent limitations contained in Part 3 of the Permit as well as to document compliance with other permit requirements. The SWP3 must be prepared in accordance with good engineering practices and to industry standards.

Check appropriate box whether the SWP3 has been prepared and is available on site.

Check appropriate box if the operator has registered for construction activities with the Secretary of State of Oklahoma.

List all the proposed Best Management Practices (BMPs) for construction activities. Operator must describe the proposed measures, including BMPs to control pollutants in stormwater discharges during construction. Specify any BMPs to be used if additional erosion and sediment controls are required by local government or due to specific site conditions.

List all the post-construction proposed Best Management Practices (BMPs) for construction activities. Operator must describe the proposed measures to be used to control pollutants in stormwater discharges that will occur after construction operations have been complete, including any BMPs to be used if additional erosion and sediment controls are required by local government or due to specific site conditions.

Section V. Certification

Federal regulations require all permit applications and report shall be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental law and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents had been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietors, respectively (*Note: for limited liability company (LLC) - by one of its owners, called managing members/partners of the company*); or

For a municipality, state, Federal, or other public facility: by either a principal executive or ranking elected official.

Modifying Existing Notice Of Intent (NOI)

After issuance of an authorization, an amended NOI may be submitted by a permittee if circumstances change (e.g., the area to be disturbed has been changed from 20 acres to 40 acres). However, the modification of an NOI cannot be used if the area to be disturbed has been changed from 40 acres to 20 acres. The amended NOI shall include the operator's assigned authorization number and request a change.

The original authorization number will be retained. DEQ will provide an acknowledgement by either mail or email that the amended NOI has been received and processed. Permittees must update their SWP3 to reflect the modification.

Submitting Your NOI Form

Completed NOI form must be submitted to the following address:

Stormwater Unit of ECLS
Oklahoma DEQ
P.O. Box 1677, Oklahoma City, OK 73101-1677
or fax it to: (405)702-6226
or email it to: ecls-stormwaterpermitting@deq.ok.gov

All applicable fees must be submitted with this NOI, including:

- Renewal NOI - $100 application fee
- New NOI - $447.71 ($100 application fee and $347.71 annual permit fee)

Note: Commencing December 21, 2020, NOI must be electronically submitted to DEQ. Instructions on how to access and use the appropriate electronic reporting tool will be made available on DEQ's website prior to the December 21, 2020 compliance deadline.

Do not submit an SWP3 with the NOI unless the site/project is located (1) within Outstanding Resource Waters (ORW), or (2) within a Federal and State ARC, or (3) within a Watershed that is subject to an approved TMDL, and/or watershed plan and/or local compliance plan and such site to be disturbed is about 5 acres or more, or (4) within a larger site which is disturbing land of 40 or more acres.

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

March 9, 2017

John R Hesemann
Burns & McDonnell Engineering Co., Inc.
9400 Ward Pkwy
Kansas City, MO 64114

Re: Authorization for Stormwater Discharge from Construction or Land Disturbing Activity
DEQ Authorization Number: OKR1027644

Dear Mr. Hesemann:

The new Notice of Intent for the facility listed below was received on February 9, 2017 and processed by the Oklahoma Department of Environmental Quality (DEQ). Enclosed is an authorization allowing you to discharge stormwater associated with construction or land disturbing activities under the terms and conditions of OPDES General Permit OKR10 for stormwater discharges from construction activities from the following site located in Logan County.

Facility:
Groundwater Remediation Project
100 N Hwy 74
Guthrie, OK 73044

All applicable fees associated with this authorization have been paid. Site that remains active one year from the effective date of the authorization will be invoiced for the next full permit year. Once this project is completed and stabilized, you must submit a Notice of Termination form to DEQ to terminate this authorization. Please note that your authorization will expire on September 12, 2017.

If you have any question regarding this Authorization or the Stormwater Program, please call me at (405)702-8193.

Sincerely,

Ismat Esrar, P.E.
Municipal Discharge & Stormwater Permitting
Water Quality Division

Oklahoma Department of Environmental Quality
Authorization to Discharge under the OPDES Stormwater Construction General Permit OKR10

AUTHORIZATION NO. **OKR1027644**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Burns & McDonnell Engineering Co., Inc.
9400 Ward Pkwy
Kansas City, MO 64114

is authorized to discharge stormwater from a construction site located in Logan County at

Groundwater Remediation Project
100 N Hwy 74
Guthrie, OK 73044

The receiving body of water is Cimarron River.
This facility discharges into an aquatic resource of concern.

The OPDES permit requires permittee to have a Stormwater Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.
The authorization shall become effective **March 10, 2017** and will expire at midnight September 12, 2017.

All terms and conditions of the OPDES Stormwater Construction General Permit OKR10, as published on September 13, 2012, shall apply to the recipient of this authorization.

Micheal Jordan, P.E., Engineering Manager
Municipal Discharge & Stormwater Permitting
Water Quality Division

APPENDIX C - CONSTRUCTION SITE NOTICE

Groundwater Remediation Project

CONSTRUCTION SITE NOTICE

For Storm Water Discharges Associated with Construction Activity Authorized by the Oklahoma Department of Environmental Quality under the National Pollutant Discharge Elimination System

Permittee:	Environmental Properties Management, LLC
Project Name:	Groundwater Remediation Project
General Permit No.:	OKR1027644
Facility and SWP3 Contact Name:	Jeff Lux, Project Manager (405) 642-5152
Project Description:	The Project will construct four injection trenches and one extraction trench in Logan County, Oklahoma (35°53'00.84"N, 97°34'34.03"W) to test the groundwater injection and extraction efficiency as part of final design for a groundwater remediation project. The goal of the groundwater remediation project is to reduce the concentration of contaminates (e.g., uranium, nitrates, and fluorides) in the groundwater to levels that will allow unrestricted release of the site and license termination from the U.S. Nuclear Regulatory Commission and the Oklahoma DEQ. Major soil-disturbing activities associated with the Project include trenching, excavation, backfilling, and vehicular traffic. The Project site is approximately 665 acres, of which an estimated 1 acre will be disturbed. Construction is scheduled to begin on September 18, 2017, with an estimated completion date of January 15, 2018.
The construction plan is located and available onsite in the site manager's truck. The Notice of Intent is attached to this document.	

APPENDIX D - NOTICE OF TERMINATION

Instructions for Completing NOT Form 606-003 for Stormwater Discharges Associated with Industrial or Construction Activity

Who May File a Notice of Termination Form

The Permittee currently covered by the OKR05 (Industrial) or OKR10 (Construction) General Permit for stormwater discharges associated with industrial or construction activity must submit a Notice of Termination (NOT) within 30 days after one or more of the following conditions have been met:

- A new owner or operator has taken over responsibility for the facility or site or project, and has submitted an NOI for permit coverage.
- Stormwater discharge from industrial activity is being terminated under the OKR05 permit.
- All construction activities have completed and met all other requirements under the OKR10 permit, including final stabilization, on all portions of the site. (See Part 3.3.2.B of the OKR10 permit for specific requirement on final stabilization).
- You obtained coverage under an individual or alternative general permit for all discharges.

You must meet all of the termination requirements of the general permit prior to submitting the NOT.

Section I. Permit Information

Provide the current OPDES General Permit number assigned to the facility or the site identified in Section II. Indicate your **Reason** for submitting this NOT by checking the appropriate box.

Section II. Operator Information

Provide the legal name of the company, firm, public organization or any other entity that operates the facility or site described in this NOT. Provide the operator's phone number, mailing address, and email address.

Section III. Facility Information

Provide the legal name of the facility or site or project and complete street address, including city, county, state, and ZIP code of the facility or site. If the facility or site lacks a street address, indicate the general location of the facility (e.g., Intersection of State Highways 74 and 34).

Provide the latitude and longitude at the entrance of the facility or site or the center of the construction project or site. Latitude and Longitude can be obtained online at DEQ, USGS, or by using other mapping tools.

You must also include an updated facility map or site map that shows all disturbed areas over the course of your construction/project (i.e., aerial images or general site maps with project extents marked, including stabilized areas of concrete or asphalt batch plants, equipment staging yards, stockpile, borrow areas, wash-out area, etc.) with this form.

Section IV. New Operator Information

If applicable, provide the legal name of the company, firm, public organization or any other entity that has assumed ownership for the facility or site described in this NOT.

Provide phone number, complete physical address including city, state, ZIP code, and email address. If there is more than one new operator, use additional sheet(s) to include all the new operators' information.

Permittee is required to prepare and submit a Notification of Change of Ownership (NCO) form for each new owner and submit the NCO form to DEQ (see Part 2.3.3 of OKR10 for change of ownership requirement). NCO forms may be submitted at the change of ownership or with the NOT.

Section V. Certification

The NOT form must be signed as follows:

For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor, respectively ***(Note:*** *for limited liability company (LLC) - by one of its owners, called managing members/partners of the company*);

For a municipality, state, Federal, or other public facility: by either a principal executive officer or ranking elected official.

Include the name and title of the person signing the form and the date of signing.

An unsigned or undated NOT form will not be processed for termination of permit coverage.

If you have questions, contact Stormwater Unit of Environmental Complaints and Local Services (ECLS) of DEQ at (405) 702-6100 or email to ecls-stormwaterpermitting@deq.ok.gov

Where to File an NOT form:

Completed NOT must be submitted to the following address:

Stormwater Unit of ECLS
Oklahoma DEQ
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

or fax it to: (405)702-6226

or email it to: ecls-stormwaterpermitting@deq.ok.gov

*Commencing **December 21, 2020**, NOT must be electronically submitted to DEQ. Instructions on how to access and use the appropriate electronic reporting tool will be made available on DEQ's website prior to the December 21, 2020 compliance deadline.*

DEQ Form 606-003 July 5, 2017

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Notice of Termination (NOT)
for Stormwater Discharges Associated with Industrial Activity or Construction Activity under an OPDES General Permit

Submission of this NOT form constitutes notice that the operator identified in Section II of this form no longer intends to be authorized to discharge stormwater associated with industrial or construction activity under an OPDES Stormwater General Permit. Authorization is not terminated until you are notified that all termination requirements have been met and your complete NOT has been processed by DEQ.

All necessary information must be provided on this form. See completing instructions on the back of this form.

I. Permit Information

DEQ Authorization Number: OKR_____

Reason for Termination (check one only):

- ☐ A new owner or operator has taken over responsibility for the facility/site/project and has submitted an NOI for permit coverage.
- ☐ Stormwater discharge from industrial activity is being terminated under OKR05 permit.
- ☐ All construction activities have been completed and met all other requirements under OKR10 permit including final stabilization on all portion of the site.
- ☐ You obtained coverage under an individual or alternative general permit for all stormwater discharges.

II. Operator Information

Operator Name: _____ Phone: _____

Mailing Address: _____ City: _____

County: _____ State: _____ Zip Code: _____ E-mail: _____

III. Facility/Site/Project Information

Facility or Site Name: _____

Address: _____

City: _____ County: _____ State: OK Zip Code: _____

Latitude: _____ Longitude: _____ at the entrance of the facility or center of the site

*(Note: You must include an **updated facility map or site map** that shows all the completed activities.)*

IV. New Operator Information

New Operator Name: _____ Phone: _____

Address: _____ City: _____

County: _____ State: OK Zip Code: _____ E-mail: _____

(Note: Use additional sheets of paper if necessary. Permittee is required to prepare a Notification of Change of Ownership for each new operator)

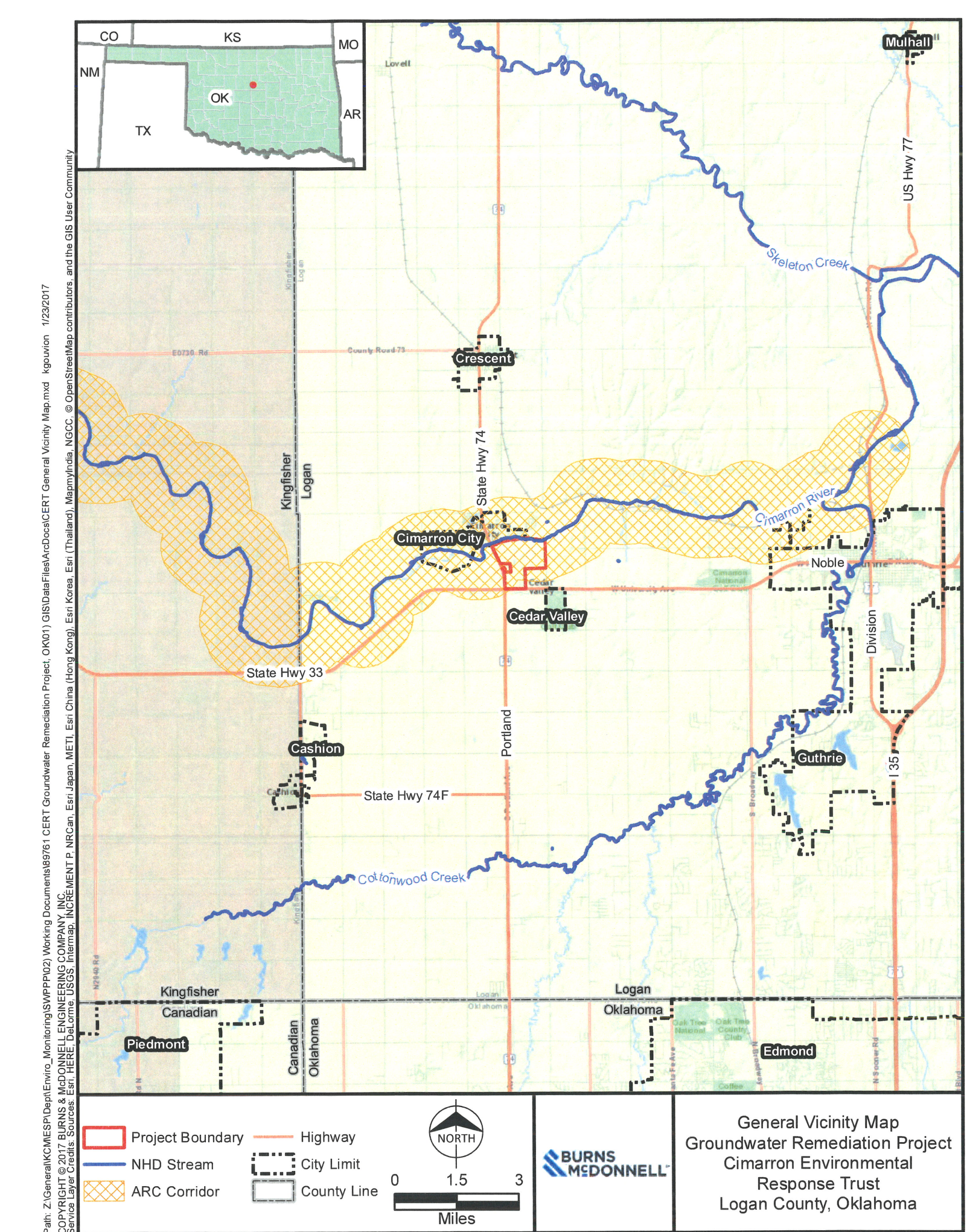
V. Certification

I certify under penalty of law that all stormwater discharges associated with industrial or construction activity from the identified facility that were authorized by a general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this NOT form and upon receiving the termination letter from DEQ that the all termination requirements have been met and the complete NOT has been processed, I am no longer authorized to discharge stormwater associated with industrial or construction activity under the General Permit OKR05 or OKR10 to waters of the State. It is unlawful under the Clean Water Act and OAC 252:606-1-3(b)(3)(L) *where the discharge is not authorized by an OPDES permit. I also understand that the submittal of this NOT form does not release me as operator from liability for any violations of this Permit or the Clean Water Act.*

Print Name: _____ Title: _____

Signature: _____ Date: _____

APPENDIX E - FIGURES AND RUNOFF COEFFICIENT CALCULATION



Path: Z:\General\KCM\ESP\Dept\Enviro_Monitoring\SWPPP\02) Working Documents\89761 CERT Groundwater Remediation Project, OK\01) GIS\DataFiles\ArcDocs\CERT General Vicinity Map.mxd kgouvion 1/23/2017

BURNS McDONNELL

General Vicinity Map
Groundwater Remediation Project
Cimarron Environmental Response Trust
Logan County, Oklahoma

Source: ESRI; USGS NHD; OK DEQ; Cimarron Environmental Response Trust; Burns & McDonnell Engineering Company, Inc.

Issued: 1/23/2017

See Section 2.4 in SWP3 narrative for soil types and descriptions

Project Boundary

Soil Series

NORTH

1,000 500 0 1,000

Feet

BURNS McDONNELL

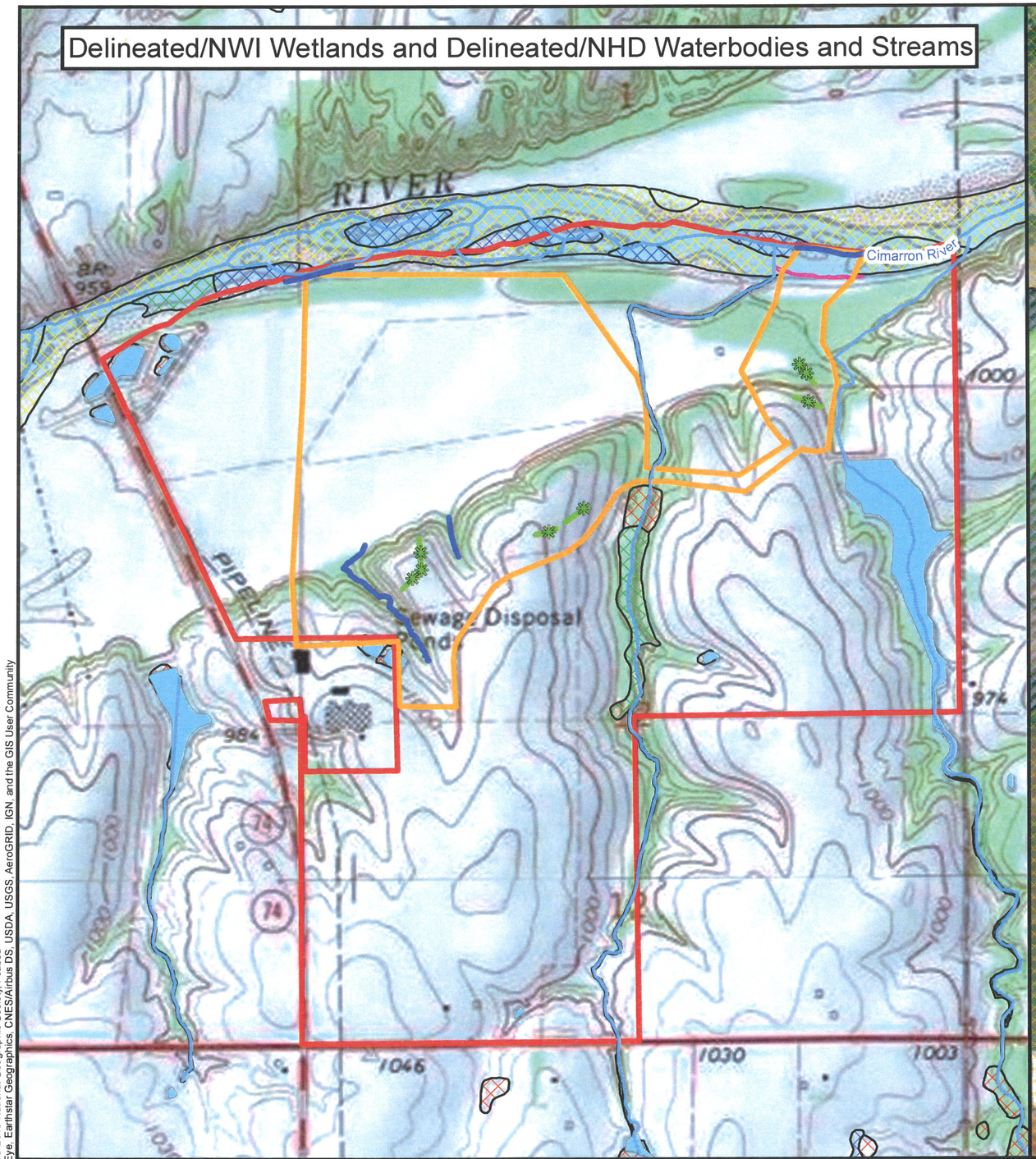
Soils Map
Groundwater Remediation Project
Cimarron Environmental Response Trust
Logan County, Oklahoma

Source: ESRI; NRCS SSURGO; Cimarron Environmental Response Trust; Burns & McDonnell Engineering Company, Inc.

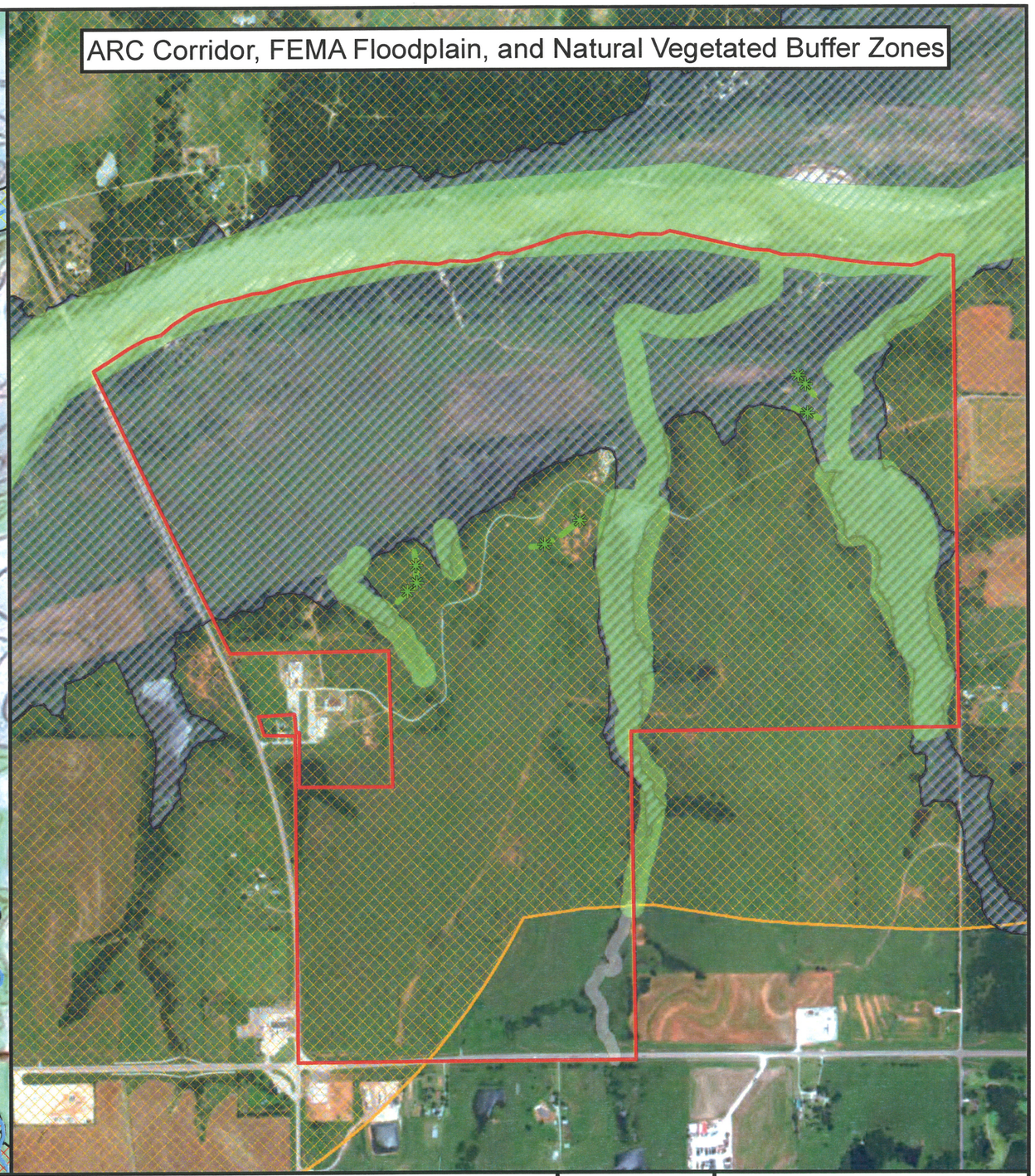
Issued: 1/19/2017

Path: Z:\General\KCMESP\Dept\Enviro_Monitoring\SWPPP\02) Working Documents\89761 CERT Groundwater Remediation Project, OK\01) GIS\DataFiles\ArcDocs\CERT Soil Map.mxd kgouvion 1/19/2017

Delineated/NWI Wetlands and Delineated/NHD Waterbodies and Streams



ARC Corridor, FEMA Floodplain, and Natural Vegetated Buffer Zones



- Injection/Extraction Well
- Trench
- Project Boundary
- Wetland Survey Boundary
- Delineated Stream
- NHD Stream
- NHD Waterbody
- Delineated Wetland
- NWI Freshwater Emergent
- NWI Freshwater Forested/Shrub
- NWI Freshwater Pond
- NWI Riverine
- 100-foot Natural Vegetated Buffer
- 50-foot Natural Vegetated Buffer
- 100-year FEMA Floodplain
- ARC Corridor

NORTH

1,000 500 0 1,000

Scale in Feet

BURNS McDONNELL

Detailed Water Resources Map
Groundwater Remediation Project
Cimarron Environmental Response Trust
Logan County, Oklahoma

Source: ESRI; USGS NHD; USFWS NWI; FEMA Floodplains; OK DEQ; Cimarron Environmental Response Trust; Burns & McDonnell Engineering Company, Inc.

Issued: 3/2/2017

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Pre- and Post-Construction Runoff Coefficient Calculation
Groundwater Remediation Project

Total Site Area	Pre-Construction		Post-Construction		Units
	Pervious	Impervious	Pervious	Impervious	
665.00	661.68	3.33	661.68	3.33	acres
100.0%	99.5%	0.5%	99.5%	0.5%	percent

Existing (Pre-Construction)

a	665.00	Area of the Site	
b	3.33	Impervious Site Area	
c	0.95	Impervious C Value	
d	661.68	Pervious Site Area	
e	0.22	Pervious C Value	
f	**0.22**	**Existing Site Runoff Coeff.**	

Post-Construction

g	3.33	Impervious Site Area	
h	0.95	Impervious C Value	
i	661.68	Pervious Site Area	
j	0.22	Pervious C Value	
k	**0.22**	**Post-Construction Runoff Coeff.**	

Pavement	
Asphalt and Concrete	0.95
Brick	0.85
Roofs	0.95
Lawns, Sandy Soil	
Flat (2 percent)	0.1
Average (2 to 7 percent)	0.15
Steep (>7 percent)	0.2
Lawn, Heavy Soil	
Flat (2 percent)	0.17
Average (2 to 7 percent)	0.22
Steep (>7 percent)	0.35