Storm Water Pollution Prevention Plan

Villa de Marcos Gabriel Subdivision

Stinson St. SW and Bridge Blvd. SW, Albuquerque, NM, 87121, Bernalillo County

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Owner:

LGI Homes Group, LLC
9105 East del Camino Dr., Suite 118, Scottsdale, AZ, 85258, Maricopa County
480-612-4082

Operator:

Salls Brothers Construction, Inc.
7301 Reading Ave. SE, Albuquerque, NM, 87105, Bernalillo County
505-873-8780

Emergency 24 Contact:

Salls Brothers Construction, Inc.
Matthew Dyer, General Manager
505-252-9245
mdyer@sallsbrothers.com

SWPPP:

Green Globe Environmental, LLC
P.O. Box 400 Los Lunas, NM 87031
888-712-5120

SWPPP Preparation Date: 06/09/2022

Estimated Project Start Date: 06/27/2022
Estimated Project End Date: 04/30/2023

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SECTION 1: SITE INFORMATION, NOI AND CERTIFICATIONS

1.1 Notice of Intent

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1.2 SWPPP Certifications

Signatory Requirements

All applications, including NOIs, must be signed as follows:
From Appendix G.11.1, of the 2022 CGP
For a corporation: By a responsible corporate officer. For the purpose of this subsection, 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 corporations, 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 to, delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or for a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).

Your SWPPP, (including changes to your SWPPP inspection reports), corrective action log, turbidity monitoring report, site inspection and dewatering inspection reports and any other compliance documentation required under this permit, must be signed by a person described in Appendix G, Subsection G.11.1.

The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and the signed and dated written authorization is included in the SWPPP. A copy must be submitted to EPA, if requested.

Changes to Authorization:
If an authorization under this permit is no longer accurate because a different Operator has responsibility for the overall operation of the construction site, a new NOI must be submitted to EPA. See Table1 in Part 1.4.3 of the permit. However, if the only change that is occurring is a change in contact information or a change in the facility's address, the Operator need only make a modification to the existing NOI submitted for authorization.

For Person signing NOI electronically, in addition to meeting other applicable requirements in Appendix G, Subsection 1.11, such signatures must meet the same signature, authentication, and identity proofing standards set forth at 40 CFR § 3.2000(b) for electronic reports (including robust second factor authentication).

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1.3 STORMWATER TEAM – OPERATOR

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"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 contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

Name:_____ Title:_____

Signature:_____ Date:_____

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Villa de Marcos Gabriel Subdivision – SWPPP

If the BMP details are not sufficient, or pose a threat to public health, properties, or safety by using the recommended BMPs, contact Green Globe Environmental, LLC for alternatives.

This plan has been prepared according to the NMED/EPA 2022 Construction General Permit (CGP). It represents a planning tool to assist the Operator to comply with environmental regulations during the project's construction. The decisions on how to operate the construction site rest solely with permittee and not with Green Globe Environmental, LLC. Green Globe Environmental, LLC is not liable for the operational decisions of the Site Operator or the failure of the Site Operator to follow the requirements as outlined in the CGP.

This SWPPP has been prepared with information provided by the Owner and/or Operator. Green Globe Environmental, LLC has not conducted a site assessment with regards to impacts involving threatened or endangered species, critical habitats, previous use of the site, environmental suitability, historic or archaeological issues. It is the Owner's responsibility to complete these assessments and report those findings to Green Globe Environmental, LLC prior to implementation of this SWPPP.

Contractor agrees to hold Green Globe Environmental, LLC harmless for any potential violations the permittee may receive for operational violations form regulatory agencies, including but not limited to city governments, the States or EPA.

By Accepting the SWPPP, the permittee accepts this disclaimer and its conditions.

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1.4 STORMWATER TEAM – OWNER

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"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 contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained 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."

Name:_____ Title:_____

Signature:_____ Date:_____

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Villa de Marcos Gabriel Subdivision – SWPPP

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1.5 Delegation of Authority Form

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I, _____(name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the 2022 Construction General Permit, at the **Villa de Marcos Gabriel Subdivision** construction site. The designee is authorized to sign any reports, storm water pollution prevention plans and all other documents required by the permit.

Name of Person or Position:_____

Company:_____

Address:_____

City, State, Zip:_____

Phone:_____

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of the 2022 EPA Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

Name:_____

Company:_____

Title:_____

Signature:_____

Date:_____

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1.6 Project/Site Information

Nature of Construction Activity:
This project consists of new land development for future residential home construction. This project covers approximately 11 acres of the Villa de Marcos Gabriel Subdivision project. Salls Brothers Construction, Inc. is responsible for all construction activities including earthwork, infrastructure, utilities, flatwork, and asphalt paving. The activities to occur on-site are consistent with development for futures residential home construction.

Project/Site Name: Villa de Marcos Gabriel Subdivision
Project Street/Location: Stinson St. SW and Bridge Blvd. SW
City: Albuquerque
State: NM
Zip Code: 87121
County: Bernalillo

Project Latitude: 35.069793 **Longitude:** -106.717564

Determination of Latitude/Longitude:
☐ **USGS topographic map (scale:_____)**
☐ **EPA Web Site** ☒ **NM OpenEnviroMap** ☐ **GPS**
☐ **Other (please specify):_____**

Function of Construction Activity:
☒ **Residential** ☐ **Commercial** ☐ **Industrial** ☐ **Linear (roadway)**
☐ **Linear (Utility)** ☒ **Development** ☐ **Other (specify):_____**

Is your project/site located on Federal or Native American Lands Yes☐ No☒
Description: _____

**" If engaged in demolition of any structure with at least 10,000 square feet of floor space built or renovated before January 1, 1980, you must: implement controls to minimize the exposure of PCB-containing building materials, including paint, caulk, and pre-1980 fluorescent lighting fixtures, to precipitation and stormwater and ensure that disposal of such materials is performed in compliance with applicable state, federal, and local laws.*

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1.7 Contact Information and Responsibilities

Owner:
LGI Homes Group, LLC
9105 East del Camino Dr., Suite 118, Scottsdale, AZ, 85258, Maricopa County
Contact: Rick Tayrien, Vice President
480-612-4082
Rick.tayrien@lgihomes.com

Operator:
Salls Brothers Construction, Inc.
7301 Reading Ave. SE, Albuquerque, NM, 87105, Bernalillo County
Contact: Matthew Dyer, General Manager
505-252-9245
mdyer@sallsbrothers.com

SWPPP Contact(s):
Green Globe Environmental, LLC
Contact: Tim Slatunas, President
Phone: 505-353-2558, email: tim@greenglobenm.com
SWPPP Preparer: Mathew Vallejos
Phone: 505-304-8473, email: matt@greenglobenm.com

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Table 1.7 SWPPP Responsibilities

Responsibilities/duties	*Operator*	*Owner*	*Green Globe Environmental, LLC*	*Erosion and sediment control Install/Maintenance*
Access to all approved construction drawings	☒	☒	☐	☐
Provide copies/access to approved construction documents SWPPP preparation	☒	☐	☐	☐
Authority to change the construction documents/drawings	☐	☒	☐	☐
Provide any and all updated/revised construction documents/drawings to Operator and SWPPP preparer	☒	☒	☐	☐
Provide Access/Entry to Site Property	☒	☒	☐	☐

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Prepare and submit NOI/NOT	☐	☐	☒	☐
Notify MS4 Operator that construction will be taking place	☒	☐	☐	☐
Perform daily BMPs (good housekeeping)	☒	☐	☐	☐
Install erosion and sediment control	☒	☐	☐	☒
Complete BMP Install Logs	☒	☐	☐	☐
Complete Grading and stabilization log	☒	☐	☐	☐
Maintain Erosion and Sediment BMPs	☒	☐	☐	☒
Removal of site BMPs once site is stabilized	☒	☐	☐	☒
Perform SWPPP compliance inspections and reports	☒	☐	☒	☐
Update SWPPP and BMP site map	☒	☐	☐	☐
Implement corrective actions	☒	☐	☐	☒
Complete SWPPP amendment Log	☒	☐	☐	☐
Conduct onsite SWPPP training and complete training logs	☒	☐	☐	☐
Amend SWPPP to reflect any changes in the field	☒	☐	☐	☐
Prepare SWPPP in compliance with NMED/EPA CGP 2017	☐	☐	☒	☐
Stormwater Team	☒	☒	☒	☒
Certify SWPPP	☒	☒	☐	☐

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1.8 Receiving Water and Endangered Species Description

Receiving Waters within 1 mile of Project's discharge point:

Site is located within the City of Arroyo watershed boundary. Nearest receiving water is the Rio Grande (Tijeras Arroyo to Alameda Bridge), located 3.95 miles to the east (see Figure 1.8 below).

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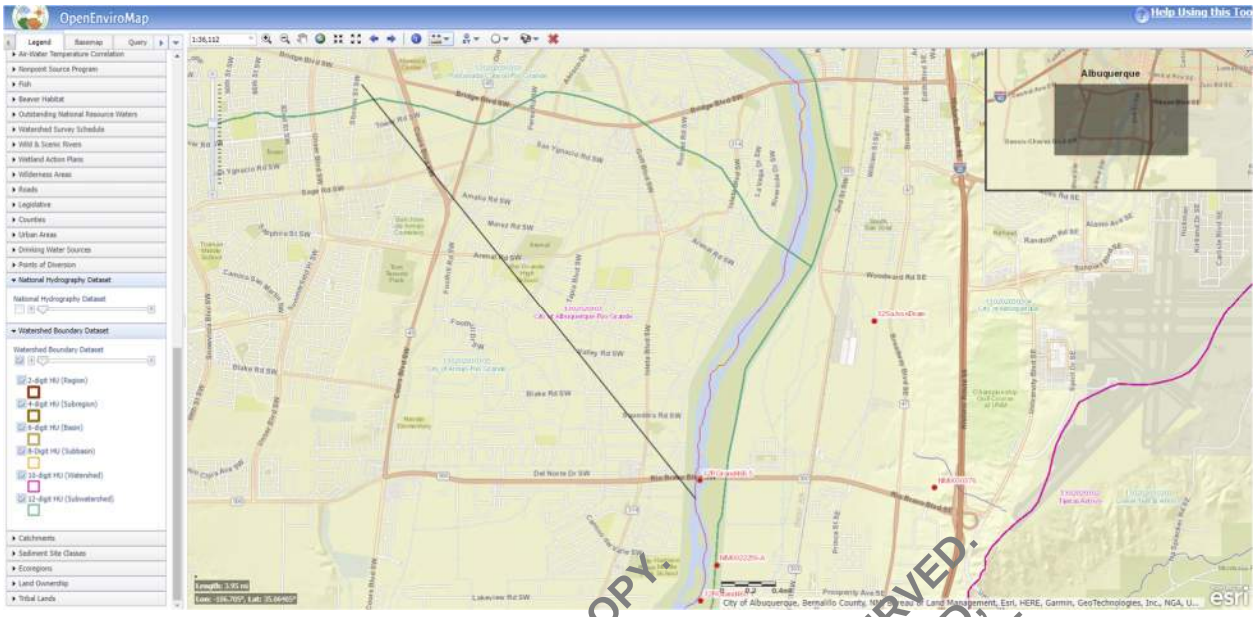
Figure 1.8 Receiving Waters within 1 mile of Project



Source: NMED OpenEnviroMap Tool

Impairment/Tier Determination

Rio Grande (Tijera Arroyo to Alameda Bridge) is currently listed as impaired for Dissolved Oxygen, Temperature, and E. coli per New Mexico Environmental Department OpenEnviroMap tool above and the State of New Mexico Clean Water Act Section 303(d)/Section 305(b) Integrated Report.

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Figure 1.8.1 303(d)/305(b) Integrated List

Rio Grande (Tijeras Arroyo to Alameda Bridge)			AU IR CATEGORY	LOCATION DESCRIPTION	
			5/5C	HUC: 13020203 Rio Grande-Albuquerque	
AU ID	**WQS REF**	**WATER TYPE**	**SIZE**	**ASSESSED**	**MONITORING SCHEDULE**
NM-2105_51	20.6.4.105	RIVER	15.6 MILES	2020	2025
USE	**ATTAINMENT**	**CAUSE(S)**	**FIRST LISTED**	**TMDL DATE**	**PARAMETER IR CATEGORY**
IRR	Fully Supporting				
LW	Fully Supporting				
MWWAL	Not Supporting	Dissolved oxygen	2008	2023 (est.)	5/5A
		PCBS - Fish Consumption Advisory	2010		5/5C
		Mercury - Fish Consumption Advisory	2020		5/5C
		Temperature	2010	2023 (est.)	5/5A
PC	Not Supporting	E. coli	2020	6/30/2010	4A
PWS	Not Assessed				
WH	Fully Supporting				
AU Comment: TMDL for E. coli. Fish Consumption Advisory listings are based on NM's current fish consumption advisories for this water body. Per USEPA guidance, these advisories demonstrate non-attainment of CWA goals stating that all waters should be "fishable." Therefore, the impaired designated use is the associated aquatic life even though human consumption of the fish is the actual concern.					

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Figure 1.8.2 Tier Determination Flowchart

Tier	Waters Included	Protection Requirements
1	All surface waters that meet but are not better than applicable water quality criteria, i.e., not considered "high quality," as determined on a pollutant by pollutant basis. All surface waters on the state's 303(d) list of impaired waters for the pollutant that resulted in the listing. Intermittent waters.[1] All ephemeral waters. All effluent dependent waters.	The minimum level of protection necessary to maintain the existing and designated uses of a surface water. Where a surface water is impaired or meets, but water quality is not better than, applicable water quality criteria, there shall be no lowering of the water quality with respect to the pollutant causing the impairment. Tier 1 protection applies regardless of any economic or social benefits associated with a proposed discharge.
2	For intermittent[1] and perennial waters reflecting high-quality waters, i.e., where the level of water quality is better than applicable water quality criteria as determined on a pollutant-by-pollutant basis. Tier 2 is the default protection level for high-quality perennial and intermittent waters that are not ONRWs or on the 303(d) list.	High-quality water in perennial and intermittent (if known) streams and lakes must be protected at a level that minimizes degradation of that water quality. No significant degradation of the Tier 2 pollutants in the surface water is allowed unless a comprehensive antidegradation review of reasonable alternatives demonstrates that the lowering of water quality is necessary for important social and economic considerations in the area in which the waters are located.
3	ONRWs.	No new or expanded direct discharges. No lowering of water quality allowed unless it is minimized and temporary, and degradation is approved according to 20.6.4.8 NMAC.

[1] For intermittent waters, if water quality data are available and assessable, and indicate a high-quality water (i.e., water quality better than applicable WQS), then Tier 2 protection applies on a pollutant-by-pollutant basis.

Source: State of New Mexico Continuing Planning Process

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Description of MS4:
The stormwater runoff is managed by the City of Albuquerque and Bernalillo County. It is the Operator's responsibility to notify the MS4 that this site will discharge to their storm system during construction activities.

Endangered Species Documentation:
Are endangered or threatened species and critical habitats in the project area?
☐YES ☒NO

If yes, describe the species and/or critical habitat:

Criterion Used:

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☐ A ☐ B ☒ C ☐ D ☐ E ☐ F

Basis: ESA-listed species and/or designated critical habitat(s) under the jurisdiction of the USFWS and/or NMFS are likely to occur in or near your site's "action area". Discharges and discharge related activities are not likely to result in any short or long term adverse effects to ESA-listed threatened or endangered species and/or critical habitat.

Determination of Endangered Species:
Fish and Wildlife Service species information, from on-line mapping tool IPaC (the Information, Planning, and Consultation System) located at http://ecos.fws.gov/ipac/ See appendix F for USDI and USFWS official correspondence.

1.9 Soils and Pre-Construction Cover

Soil Type (NRCS Web Soil Survey): Area of interest is primarily Bluepoint-Kokan association, hilly. Average K Factor of 0.17 per NRCS Web Soil Survey. See Figure 1.9 below.

Figure 1.9 Area of Interest

Source: NRCS Web Soil Survey

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Table 1.9 K-Factor

Tables — K Factor, Whole Soil — Summary By Map Unit

Summary by Map Unit — Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico (NM600)

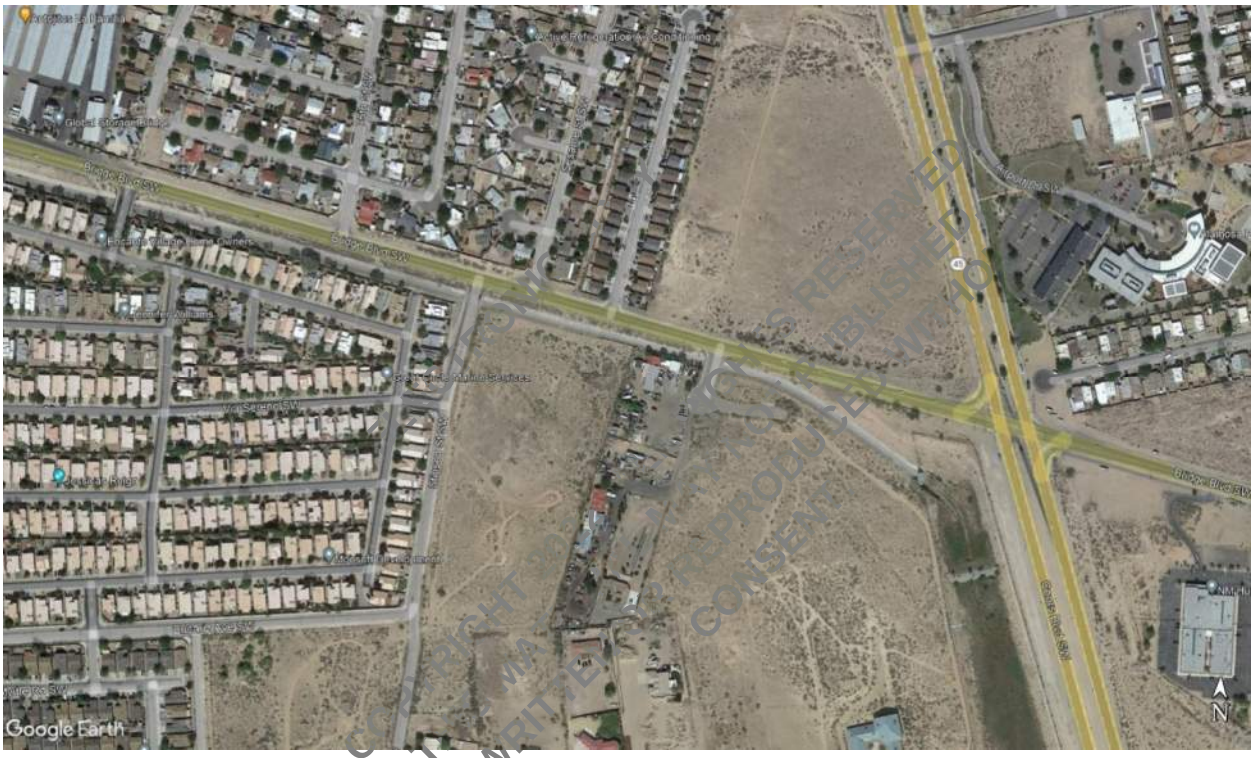
Summary by Map Unit — Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico (NM600)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BKD	Bluepoint-Kokan association, hilly	.17	9.1	91.2%
MWA	Madurez-Wink associatin, gently sloping	.24	0.9	8.8%
Totals for Area of Interest			**10.0**	**100.0%**

Source: NRCS Web Soil Survey

Type and Extent of Pre-Construction Cover:

Figure 1.9.1 Pre-construction Cover



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1.10 Slopes and Drainage Patterns

Pre-Construction Slopes:
Historical slopes of 0 to 3 percent primarily fall SOUTH TO NORTH.

Post Construction Slopes:
Final slopes will be within historical slope range with an average slope of 2.32 percent falling SOUTH TO NORTH.

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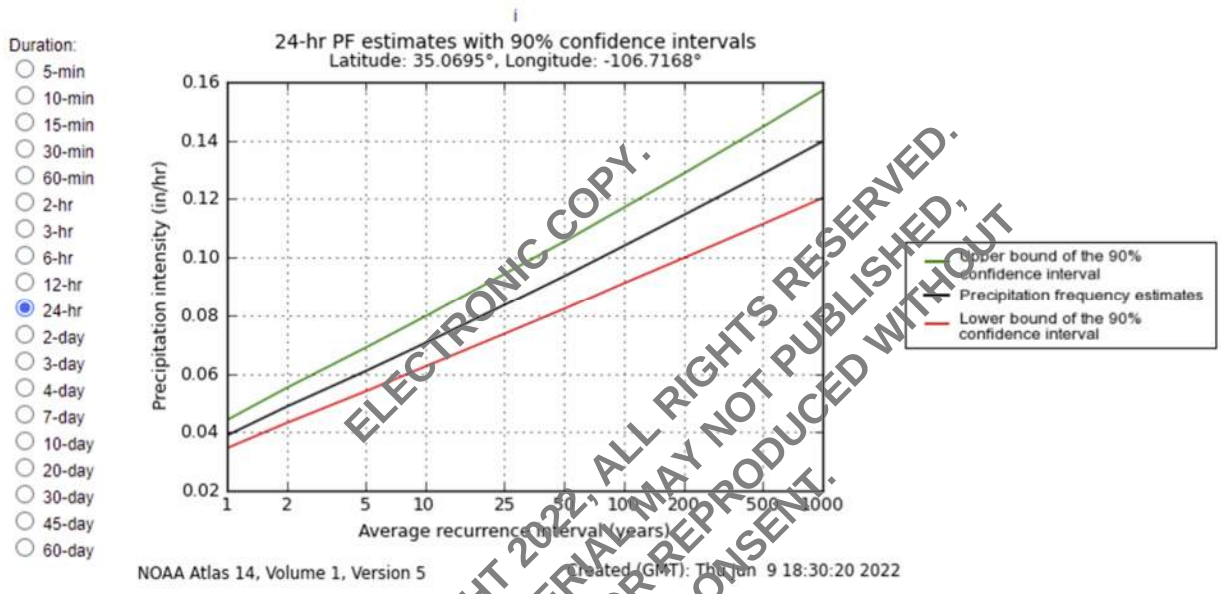
Drainage Patterns:
Site will follow historic drainage patterns.

1.11 Erosion and Runoff

Rational Method (Runoff)
Utilizing IDF Curve to identify Optimal Rainfall Intensity

IDF Curve

Figure 1.11 Intensity-Duration-Frequency Graph



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Optimum Precipitation Intensity for 24 hr., 2-year storm = 0.075 in/hr

Table 1.11.1 Rainfall Runoff Calculation Before Construction

Rainfall Runoff	
Q=CiA	
Q= Rate of runoff (cfs)	0.198
C= Runoff coefficient	0.3
i= Rainfall intensity (in/hr)	0.06
A= Area of watershed (Acres)	11

Calculated Runoff Before Construction = 0.198 cfs

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Table 1.11.2 Rainfall Runoff Calculation After Construction

Rainfall Runoff	
Q=CiA	
Q= Rate of runoff (cfs)	0.2904
C= Runoff coefficient	0.44
i= Rainfall intensity (in/hr)	0.06
A= Area of watershed (Acres)	11

Calculated Runoff After Construction: 0.290 cfs

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RUSLE Equation (Soil Loss)

A = R x K x LS x C x P (See table 1.11.5 – 1.11.7)

R = Rainfall Runoff Erosivity Factor (R – Factor Calculation, see figure 1.11.1)

K = Soil Erodibility Factor (NRCS Web Soil Survey)

LS = Slope Length Factor (LS Factors for Construction Sites, see table 1.11.3)

C = Cover Management Factor (See table 1.11.4)

P = Erosion Control Practice Factor

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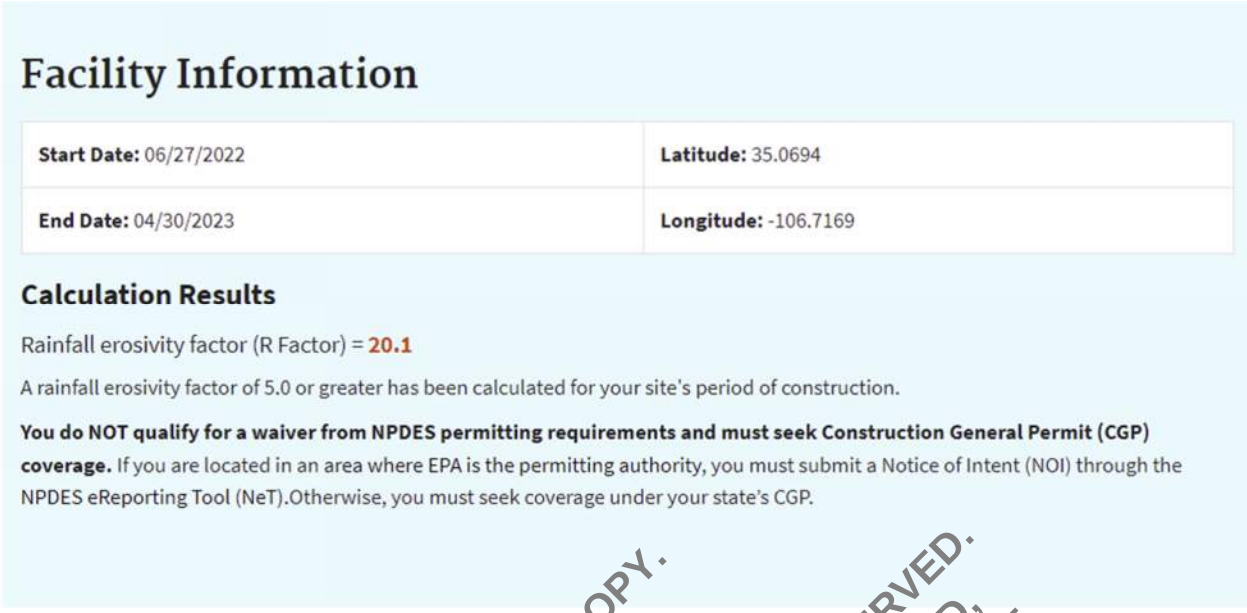
Figure 1.11.1 RUSLE R-Factor Calculation



Facility Information

Start Date: 06/27/2022	**Latitude:** 35.0694
End Date: 04/30/2023	**Longitude:** -106.7169

Calculation Results

Rainfall erosivity factor (R Factor) = **20.1**

A rainfall erosivity factor of 5.0 or greater has been calculated for your site's period of construction.

You do NOT qualify for a waiver from NPDES permitting requirements and must seek Construction General Permit (CGP) coverage. If you are located in an area where EPA is the permitting authority, you must submit a Notice of Intent (NOI) through the NPDES eReporting Tool (NeT).Otherwise, you must seek coverage under your state's CGP.

Source: EPA Rainfall Erosivity Factor Calculator

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Table 1.11.3 LS Factors for Construction Sites

USDA-NRCS, NM Agronomy Technical Note 28, Page 19

Table 4 - Values for Disturbed Site Topographic Factor, LS, for high ratio of rill to inter-rill erosion.[3]

Slope	Horizontal slope length (ft)																
(%)	<3	4	9	12	15	25	50	75	100	150	200	250	300	400	600	800	1000
0.2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
0.5	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.12	0.12	0.13
1.0	0.09	0.09	0.09	0.09	0.09	0.10	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.22	0.24	0.26	0.27
2.0	0.13	0.13	0.13	0.13	0.13	0.16	0.21	0.25	0.28	0.33	0.37	0.40	0.43	0.48	0.56	0.63	0.69
3.0	0.17	0.17	0.17	0.17	0.17	0.21	0.30	0.36	0.41	0.50	0.57	0.64	0.69	0.80	0.96	1.10	1.23
4.0	0.20	0.20	0.20	0.20	0.20	0.26	0.38	0.47	0.55	0.68	0.79	0.89	0.98	1.14	1.42	1.65	1.86
5.0	0.23	0.23	0.23	0.23	0.23	0.31	0.46	0.58	0.68	0.86	1.02	1.16	1.28	1.51	1.91	2.25	2.55
6.0	0.26	0.26	0.26	0.26	0.26	0.36	0.54	0.69	0.82	1.05	1.25	1.43	1.60	1.90	2.43	2.89	3.30
8.0	0.32	0.32	0.32	0.32	0.32	0.45	0.70	0.91	1.10	1.43	1.72	1.99	2.24	2.70	3.52	4.24	4.91
10.0	0.35	0.37	0.38	0.39	0.40	0.57	0.91	1.20	1.46	1.92	2.34	2.72	3.09	3.75	4.95	6.03	7.02
12.0	0.36	0.41	0.45	0.47	0.49	0.71	1.15	1.54	1.88	2.51	3.07	3.60	4.09	5.01	6.67	8.17	9.57
14.0	0.38	0.45	0.51	0.55	0.58	0.85	1.40	1.87	2.31	3.09	3.81	4.48	5.11	6.30	8.45	10.40	12.23
16.0	0.39	0.49	0.56	0.62	0.67	0.98	1.64	2.21	2.73	3.68	4.56	5.37	6.15	7.60	10.26	12.69	14.96
20.0	0.41	0.56	0.67	0.76	0.84	1.24	2.10	2.86	3.57	4.85	6.04	7.16	8.23	10.24	13.94	17.35	20.57
25.0	0.45	0.64	0.80	0.93	1.04	1.56	2.67	3.67	4.59	6.30	7.88	9.38	10.81	13.53	18.57	23.24	27.66
30.0	0.48	0.72	0.91	1.08	1.24	1.86	3.22	4.44	5.58	7.70	9.67	11.55	13.35	16.77	23.14	29.07	34.71
40.0	0.53	0.85	1.13	1.37	1.59	2.41	4.24	5.89	7.44	10.35	13.07	15.66	18.17	22.95	31.89	40.29	48.29
50.0	0.58	0.97	1.31	1.62	1.91	2.91	5.16	7.20	9.13	12.75	16.16	19.42	22.58	28.61	39.95	50.63	60.84
60.0	0.63	1.07	1.47	1.84	2.19	3.36	6.07	8.37	10.63	14.89	18.92	22.78	26.51	33.67	47.18	59.93	72.15

[3] Such as for freshly prepared construction and other highly disturbed soil conditions with little or no cover (not applicable to thawing soil).

Source: USDA-NRCS, NM Agronomy Technical Note 28

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Table 1.11.4 Cover Management Factors

TYPICAL "c" COEFFICIENTS FOR 5- TO 10-YEAR FREQUENCY DESIGN STORMS	
Description of Area	**Runoff Coefficients**
Business	
· Downtown areas	0.70-0.95
· Neighborhood areas	0.50-0.70
Residential	
· Single-family areas	0.30-0.50
· Multi-units (detached)	0.40-0.60
· Multi-units (attached)	0.60-0.75
Residential (suburban)	0.25-0.40
Apartment dwelling areas	0.50-0.70
Industrial	
· Light areas	0.50-0.80
· Heavy areas	0.60-0.90
Parks and cemeteries	0.10-0.25
Playgrounds	0.20-0.35
Railroad yard areas	0.20-0.40
Unimproved areas	0.10-0.30
Streets	
· Asphalt	0.70-0.95
· Concrete	0.80-0.95
· Brick	0.70-0.85
Drives and walks	0.75-0.85
Roofs	0.75-0.95
Lawns—course textured soil (greater than 85 percent sand)	
· Slope: Flat (2 percent)	0.05-0.10
Average (2-7 percent)	0.10-0.15
Steep (7 percent)	0.15-0.20
Lawns—fine textured soil (greater than 40 percent clay)	
· Slope: Flat (2 percent)	0.13-0.17
Average (2-7 percent)	0.18-0.22
Steep (7 percent)	0.25-0.35
Source: *Design and Construction of Sanitary and Storm Sewers*, with permission from the publisher, American Society of Civil Engineers, *Manual of Practice*, page 37, New York, 1960.	

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Source: U.S. EPA Interim Revised NPDES Inspection Manual 2017

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Table 1.11.5 RUSLE Calculation Before Construction

RUSLE	
A = R*K*LS*C*P	
A = Average Soil Loss (tons/acre/year)	1.423181
R = Rainfall-runoff Erosivity Factor	20.1
K = Soil Erodibility Factor	0.17
LS = Slope-Length Factor	0.595
C = Cover Management Factor	0.7
P = Erosion Control Practice Factor	1

Table 1.11.6 RUSLE Calculation During Construction

RUSLE	
A = R*K*LS*C*P	
A = Average Soil Loss (tons/acre/year)	1.728148
R = Rainfall-runoff Erosivity Factor	20.1
K = Soil Erodibility Factor	0.17
LS = Slope-Length Factor	0.595
C = Cover Management Factor	0.85
P = Erosion Control Practice Factor	1

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Table 1.11.7 RUSLE Calculation After Construction

RUSLE	
A = R*K*LS*C*P	
A = Average Soil Loss (tons/acre/year)	1.134478
R = Rainfall-runoff Erosivity Factor	20.1
K = Soil Erodibility Factor	0.17
LS = Slope-Length Factor	0.595
C = Cover Management Factor	0.558
P = Erosion Control Practice Factor	1

1.12 Wind Erosion

Operator is responsible for mitigation of surface to air transport of particles caused by heavy winds by limiting the amount of disturbed area, keeping disturbed area moist while work is taking place and stabilizing the disturbed area as quickly as possible when work is completed.

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1.13 Proposed Construction Activity Description and Sequence

By the time construction activity in any given portion of the site begins, install and make operational any downgradient sediment controls (e.g., buffers, perimeter controls, exit point controls, storm drain inlet protection) that control discharge from the initial site clearing and grading, excavating and other earth disturbing activities.

Table 1.13 Proposed Sequence of Construction Activities

Estimated Project Start Date: 06/27/2022
Estimated Project Completion Date:04/30/2023

Start Date-Finish Date (dates to be marked on site plan by operator)	Construction Activity, BMPs, and location
Initial Phase	Pre-Site Grading 1. Install perimeter BMPs (silt fence, erosion control logs, downstream inlet protection, etc.) 2. Construct VTC. 3. Set up construction trailer, construction barrier, and material storage areas, etc. 4. Install sanitary facilities and dumpster 5. Implement stabilization procedures where work is complete or ceases (per section 2.2.14 of the 2017 EPA CGP)
Interim Phase	Site Grading/ Building Construction 1. Mass grade site 2. Construct utilities, infrastructure 3. Building, pavement construction 4. Implement stabilization procedures where work is complete or ceases (per section 2.2.14 of the 2017 EPA CGP)
Final Phase	Final Stabilization 1. Implement stabilization procedures where work is complete or ceases (per section 2.2.14 of the 2017 EPA CGP) 2. Prepare final seeding and landscaping 3. Monitor stabilized areas until final stabilization is reached 4. Remove temporary control BMPs and stabilize any areas disturbed by the removal

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Table 1.13.1 Proposed Construction Activities

Activity	Proposed Schedule

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*If plans change due to unforeseen circumstances or for any reasons, the requirements to describe the sequence and estimated dates of construction activities is not meant to lock in the operator to meeting these dates. When departures from initial projections are necessary, this should be documented in the SWPPP accordingly.

1.14 Potential Pollutant Generating Activities

The following sources have been identified as potential pollutant generating activities for this site.

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Table 1.14 Potential Pollutant Generating Activities

Material/Chemical	Expected Use Onsite	Storm water Potential Pollutants	Activity
Disturbed and Stored Soils	☒	Sediments and erosion potential	Any stockpiles and areas of where disturbance has taken place
Vehicle Track-Out	☒	Sediment leaving site	Site entrance/exit
Contaminated Soils	☒	Petroleum Products, Solvents	Vehicle/equipment leakage
Refrigerant or Coolants	☒		Vehicle/equipment leakage
Fertilizers	☐	Nitrogen, phosphorus	Newly Landscaped areas
Sanitary Toilets	☒	Bacteria, fecal matter	Movement/maintenance
Waste/Dumpsters	☒	Material and garbage waste	Movement/haul-off
Soil Stabilization Material	☒	Lime	
Asphalt/Concrete Batch Plants	☐	Limestone, silica, Oil, fly ash	
Fluorescent Light Bulbs	☐	Mercury, asbestos	Remove/replace light fixtures
Mastic, Glazing Compounds, Caulking, Floor Polish	☒	PCBs, asbestos	Roofing, HVAC, polishing
Pesticides, Insecticides, Herbicides	☐	Chlorinated hydrocarbons, carbamates, arsenic	Weed control, pest control
Adhesives	☒	Polymers, epoxies	Flooring
Curing Compounds	☒	Naphtha	Slab, C&G, Sidewalk, etc.
Paints, Stains	☒		Woodwork, wall finish
Dewatering	☐	Sediment transfer	Trenchwork, full depth construction
Wood Preservations	☒	Solvents	Woodwork, wood finish
Asphalt or Roofing Tar	☒	Petroleum products, aggregates	Roadwork, roofing
Fuel or Diesel	☒		Vehicle/equipment fueling
Oils	☒	Petroleum Products	Vehicle/Equipment Leaks
Significant Dust	☒	Surface to air sediment transfer, erosion	Dirt work, excavating, vehicle/equipment travel

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1.15 Authorized Non-Stormwater Discharges per part 1.2.2 2017 CGP

Table 1.15 Authorized Non-Stormwater Discharge

Discharges from emergency fire-fighting activities
Fire hydrant flushings
Landscape irrigation
Water used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes
Water used to control dust
Potable water including uncontaminated water line flushings
External building washdown, provided soaps, solvents, and detergents are not used, and external surfaces do not contain hazardous substances (as defined in Appendix A of 2017 CGP)
Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used. You are prohibited from directing pavement was waters directly into any receiving water, storm drain inlet, or constructed or natural site drainage features, unless the feature is connected to a sediment basin, sediment trap, or similarly effective control.
Uncontaminated air conditioning or compressor condensate
Uncontaminated, non-turbid discharges of ground water or spring water
Foundation or footing drains where flows are not contaminated with process material such as solvents or contaminated ground water.
Uncontaminated construction dewatering water discharged in accordance with Part 2.4.

*Per part 1.2.3 of the 2022 Construction General Permit: Also authorized under this permit are discharges of stormwater listed above in Part 1.2.1, or authorized non-stormwater discharges listed above in Part 1.2.2, commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

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Section 2: Stormwater Controls (Best Management Practices) and Spill Prevention Details

2.1 Stormwater Controls

You must design, install and maintain stormwater controls required in Parts 2.2, 2.3 and 2.4 of the EPA 2022 CGP to minimize the discharge of pollutants in stormwater from construction activities. Ensure that all stormwater controls are remain in effective operating condition during permit coverage and are protected from activities that would reduce their effectiveness.

a. Comply with any specific maintenance requirements for the stormwater controls listed in this permit, as well as any recommended by the manufacturer.
b. If at any time you find that s stormwater control needs routine maintenance (i.e., minor repairs or other upkeep performed to ensure the site's stormwater controls remain in effective operating condition, not including significant repairs or the need to install a new or replacement control), you must immediately initiate the needed work, and complete such work by the close of the next business day. If it is infeasible to complete the routine maintenance by the close of the next business day, you must document why this is the case and why the repair or other upkeep to be performed should still be considered routine maintenance in your inspection report under Part 4.7.1c and complete such work no later than seven (7) calendar days from the time of discovery of the condition requiring maintenance.
c. If you must repeatedly (i.e., three (3) or more times) make the same routine maintenance fixes to the same control at the same location, even if the fix can be completed by the close of the next business day, you must either:
    a. Complete work to fix any subsequent repeat occurrence of the same problem under the corrective action procedures in Part 5, including keeping any records of the condition and hot it was corrected under Part 5.4; or
    b. Document in your inspection report under Part 4.7.1c why the specific reoccurrence of this same problem should still be addressed as a routine maintenance fix under this Part.
d. If at any time you find that a stormwater control needs a significant repair or that a new or replacement control is needed, you must comply with the corrective action deadlines for completing such work in Part 5.2.1c.

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Silt Fence will be used as primary perimeter control.

Sanitary Facilities, waste dumpsters and concrete washouts will be marked on BMP Map once a location is chosen.

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Table 2.1 Site BMPs

Type	BMP	Phase	Use/Reason
	VTC	Initial grading through final stabilization	
	Silt Fence	Initial grading through final stabilization	
Non-Structural	**Sanitary Facilities**	Initial grading through final stabilization	Portable Toilets
	Equipment Maintenance		To be used as an effective means of eliminating the discharge of spilled or leaked chemicals, including fuels and oils.
	Spill Prevention Plan	Throughout the use of hazardous materials on site	To be used for any spill of hazardous material on site.
	Concrete Washout	Throughout the use for washout of paint, concrete, stucco, etc.	To be used for all washout contained in a leak proof container.
	Solid Waste Management	Throughout the length of the project	To be used for litter and construction debris.
	Dust Control	Throughout Earth disturbing activities	To be used as a means to mitigate the amount of dust created by construction activities.

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Sanitary Facilities

Temporary sanitary facilities will be provided at the site throughout the construction phases. Location is to be marked on site map and updated as location may change. Facilities are to be located away from waters of the U.S. and storm water inlets or conveyances and be anchored to prevent tipping or blow over.

Equipment Maintenance

Provide an effective means of eliminating the discharge of spilled or leaked chemicals, including fuels and oils, from these activities. If applicable, comply with the Spill Prevention Control and Countermeasures (SPCC) requirements in 40 CFR part 112 and Section 311 of the CWA. Ensure adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids.

Use drip pans and absorbents under or around leaky vehicles. Dispose of or recycle oil and oily wastes in accordance with other federal, state, tribal, or local requirements. Clean up spills or contaminated surfaces immediately, using dry clean up measures (do not clean contaminated surfaces by hosing the area down), and eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.

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Concrete Washout
Direct wash water into leak-proof container or leak-proof lined pit designed so that no overflows can occur due to inadequate sizing or precipitation. **DO NOT** dump liquid wastes in storm sewers or waters of the U.S. Locate any washout or cleanout activities as far away as possible from waters of the U.S. and stormwater inlets or conveyances, and designate areas to be used for these activities with proper signage and conduct such activities only in these areas.

Solid Waste Management
All waste materials will be collected and disposed of into their proper waste containers. Provide waste containers of sufficient size and number to contain all construction and domestic waste. Waste containers shall be placed away from storm water inlet or conveyances. "Keep waste container lids closed when not in use and close lids at the end of the business day. For waste containers that do not have lids, provide either (1) cover (e.g. tarp, plastic sheeting, temporary roof) to minimize the exposure of wastes to precipitation, or (2) a similarly effective means designed to minimize the discharge of pollutants" (2017 CGP).

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Dust Control
Primary sources of dust from development and construction activities are:

- Grading operations
- Drilling and blasting
- Batch drop operations.
- Exposed area
- Vehicle/equipment traffic
- Soil and debris storage piles

The operator is responsible for complying with the requirements of the air pollution control permit, if required by state or local authorities. Dust control methods include:

- Provide wet suppression or chemical stabilization of exposed soils and debris piles
- Stabilize unpaved haul roads, parking areas and staging areas.
- Limit the amount of disturbance from clearing and grading operations.
- Stabilize previously exposed areas as soon as possible after construction is completed.

Dust control is an ongoing process during site construction. Re-application of dust control measures may be necessary until construction is complete.

Dewatering
If construction dewatering activities are anticipated at a construction site and non-stormwater discharges of groundwater, subsurface water, spring water, and/or other

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dewatering water are anticipated, the Operators/Permittees must complete the following steps:

a. Review the state's Ground Water Quality Bureau Mapper https://gis.web.env.nm.gov/GWQB/ and petroleum Storage Tank Bureau Mapper http://gis.web.env.nm.gov/GWQB/
Check if the following sources are located within the noted distance from the anticipated construction dewatering activity. At a minimum, a list of the following potential sources of contaminants and pollutants at the noted distance is to be kept in the SWPPP.

Source of Potential Contamination or Pollutants*	Constituents likely to be required for testing*
Within 0.5 mile of an open Leaking Underground Storage Tank (LUST) site	BTEX (Benzene, Toluene, Ethylbenzene, and Xylene) plus additional parameters depending on site conditions
Within 0.5 mile of an open Voluntary Remediation site	All applicable parameters or pollutants listed in 20.6.4.13, 20.6.4.52, 20.6.4.54, 20.6.4.97 thru 20.6.4.99, 20.6.4.101 through 20.6.4.899, and 20.6.4.900 NMAC (or an alternate list approved by the NMED-SWQB)*
Within 0.5 mile of an open RCRA Corrective Action Site	
Within 0.5 mile of an open Abatement Site	
Within 0.5 mile of an open Brownfield Site	
Within 1.0 mile or more of a Superfund site or National Priorities List (NPL) site with associated groundwater contamination.	
Construction activity contaminants and/or natural water pollutants	Additional parameters depending on site activities and conditions (Contact NMED- SWQB for an alternate list)*

*For further assistance determining whether dewatering may encounter contaminated sources, please contact the NMED Ground Water Quality Bureau at 505-827-2965 or NMED Surface Water Quality Bureau (SWQB) at 505-827-0187.

** EPA approved sufficiently sensitive methods must be used. For known PCB sources and analysis, EPA Method 1668C must be used (see https://www.epa.gov/cwa-methods).

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b. If dewatering activities are anticipated, information on the flow rate and potential to encounter contaminated groundwater, subsurface water, spring water, or dewatering water must be provided directly to NMED at the following address:

NMED Surface Water Quality Bureau
Program Manager, Point Source Regulation
Section PO Box 5469, Santa Fe, NM, 87502
Please call the SWQB to obtain the appropriate email address (505-827-0187)

c. In addition, the Operator/Permittee must characterize the quality of the groundwater and subsurface water, spring water, or dewatering water being considered for discharge according to the table above and including dissolved hardness and pH. Considering the contaminant sources listed in the table above, water quality data may already be available. For further assistance, contact the NMED Surface Water Quality Bureau (505-827-0187),Ground Water Quality Bureau (505-827- 2965), Petroleum Storage Tank Bureau (505-476-4397), or Hazardous Waste Bureau (505-476- 6000).
   a. The Operator/Permittee must submit recent analytical test results (i.e., within the past 5 years) according to the table above, and including dissolved hardness and pH, to the EPA Region 6 Stormwater Permit Contact and the NMED Surface Water Quality Bureau (see contact information in #2 above). If the test data exceed applicable water quality standards, then the groundwater, subsurface water, spring water, or dewatering water cannot be discharged into surface waters under this general permit. Operators/Permittees may submit an NPDES Individual Permit application to treat and discharge to waters of the U.S. or find alternative disposal measures. No discharges to surface waters are allowed until authorized.
   b. If the discharge has the potential to affect groundwater (e.g., land application), the Operator/Permittee must submit an NOI to the NMED Ground Water Quality Bureau (see 20.6.2.1201 NMAC – Notice of Intent to Discharge).
d. The Operator/Permittee must document any findings and all correspondence with NMED and EPA in the SWPPP.

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2.2 Spill Prevention Plan

The spill prevention plan is an emergency plan to contain spills of dangerous, hazardous, or toxic wastes that mitigates environmental damage and provides prompt notice to proper authorities.

- Select a designated area for storage.
- All containers must be tightly sealed and labeled.
- Storage areas should be surrounded by a berm.

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- Cleanup procedures should be clearly posted, and cleanup materials should be readily available.
- Storage area should be covered and lined with an impermeable liner.
- If a spill occurs, the source of the spill should be stopped as practicable.
- Dispose of any contaminated material in accordance with state or local requirements.
- DO NOT store chemical or hazardous substances within 50 feet of any receiving waters.

Operators must notify NMED when discharges of toxic or hazardous substances or oil from a spill or other release occurs - see Emergency Spill Notification Requirements, Part 2.3.6 of the permit. For emergencies, Operators can call 505-827-9329 at any time. For non-emergencies, Operators can call 866-428-6535 (voice mail 24-hours per day) or 505-476-6000 during business hours from 8am-5pm, Monday through Friday. Operators can also call the NMED Surface Water Quality Bureau directly at 505-827-0187.

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2.3 Rain Event Log

RAIN EVENT LOG

Precipitation Amount	Date Recorded

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Section 3: Procedures for Inspection, Maintenance, and Corrective Actions

3.1 Person(s) Responsible for Inspections

For projects that receive coverage under this permit on or after February 17, 2023, to be considered a qualified person under Part 4.1 for conducting inspections under Part 4, you must , at a minimum, either:

a. Have completed the EPA construction inspection certification course developed for this permit and have passed the exam; or

b. Hold a current valid construction inspection certification of license form a program that, at a minimum, covers the following:

   a. Principles and practices of erosion and sediment control and pollution prevention practices at construction sites;

   b. Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites; and

   c. Performance of inspections , including the proper completion of required reports and documentation, consistent with the requirements of Part 4.

For projects that receive coverage under this permit prior to February 17, 2023, any personnel conducting site inspections pursuant to Part 4 on your site must, at a minimum, be a person knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the appropriate skills and training to assess conditions at the construction site that could impact stormwater quality, and the appropriate skills and training to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.

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***Operator to insert their Certifications in Appendix B.**

3.2 Inspection Frequency

If the seasonally dry period or period in which drought is occurring, you may reduce the frequency of inspections to every 14 calendar days and within 24 hours of the occurrence of a storm event of 0.25 inches or greater. The reduced inspection schedule must be documented in the SWPPP with the beginning and ending dates of the seasonally dry period. However, during the monsoon seasons an inspection must occur at least once every 7 calendar and within 24 hours of a storm event producing 0.25 inches or greater.

For any portion of the site that discharges to a sediment or nutrient-impaired water or to a water that is identified by your state, tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for

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antidegradation purposes (see Part 3.2), instead of the inspection frequency specified in Part 4.2, you must conduct inspections in accordance with the following inspection frequencies: Once every seven (7) calendar days and within 24 hours of the occurrence of a storm event of 0.25 inches or greater, or the occurrence of runoff from snowmelt sufficient to cause a discharge.

To determine if a storm event of 0.25 inches or greater has occurred on your site, you must either keep a properly maintained rain gauge on your site or obtain the storm event information from a weather station that is representative of your location.

3.3 Inspection Reporting

You must complete an inspection report within 24 hours of completing any site inspections to include the following:

- Inspection date
- Names and titles of personnel making inspection
- Summary of inspection findings, including any necessary maintenance or corrective actions.
- For storm events 0.25 inches or greater triggering a storm event inspection, include rain gauge reading or weather station reading.
- If it is determined it is unsafe to inspect any portion of the site, need specify reason it was deemed unsafe and location of uninspected area.

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Each inspection report must be signed in accordance with Appendix G, Part G.11 of 2022 CGP and a copy of each inspection report must be kept on site or at an easily accessible location so that it can be made available upon request. All inspection reports completed for this site must be retained for at least 3 years from the date your permit coverage expires.

3.4 Corrective Actions

You must take corrective actions to address any of the following conditions identified at your site:

A stormwater control needs significant repair or a new or replacement control is needed, or in accordance with Part 2.1.4c, you find it necessary to repeatedly (i.e., three (3) or more times conduct the same routine maintenance fix to the same control at the same location (unless you document in your inspection report under Part 4.7.1c that the specific reoccurrence of this same problem should still be addressed as a routine maintenance fix under Part 2.1.4; or.

A stormwater control necessary to comply with the requirements of this permit was never installed or was installed incorrectly; or.

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Your discharges are not meeting applicable water quality standards.

A prohibited discharge has occurred.

If responding to any of the Part 5.11, 5.1.2, 5.1.3, or 5.1.4 triggering conditions, you must:

a. Immediately take all reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events; and
b. When the problem does not require a new or replacement or replacement control or significant repair, the corrective action must be completed by the close of the next business day; or
c. When the problem does not require a new or replacement control or significant repair, the corrective action must be completed by the close of the next business day. However, if the problem requires a new or replacement control or significant repair, it must be completed within 7 calendar days of the discovery. If the corrective cannot be made within 7 calendar days, it MUST be documented in the SWPPP why the correction could not be made in the allotted time and the updated timeline of when the corrective action is to be made.

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3.5 Stabilization Deadlines

Total Amount of Land Disturbance Occurring At Any One Time[37]	Deadline
i. Five acres or less (≤5.0) **Note: this includes sites disturbing more than five acres (>5.0) total over the course of a project, but that limit disturbance at any one time *(i.e., phase the disturbance)* to five acres or less (≤5.0)**	• Initiate the installation of stabilization measures immediately[38] in any areas of exposed soil where construction activities have permanently ceased or will be temporarily inactive for 14 or more calendar days;[39] and • Complete the installation of stabilization measures as soon as practicable, but no later than 14 calendar days after stabilization has been initiated.[40]
ii. More than five acres (>5.0)	• Initiate the installation of stabilization measures immediately[41] in any areas of exposed soil where construction activities have permanently ceased or will be temporarily inactive for 14 or more calendar days;[42] and • Complete the installation of stabilization measures as soon as practicable, but no later than seven (7) calendar days after stabilization has been initiated.[43]

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Final stabilization criteria (for any areas not covered by permanent structures):

a. Establish uniform, perennial vegetation (i.e., evenly distributed, without large bare areas) to provide 70 percent or more of the vegetative cover native to local undisturbed areas; and/or
b. Implement permanent non-vegetive stabilization measures to provide effective cover of any areas of exposed soil.
c. Exceptions"
    a. Arid, semi-arid, and drought-stricken areas (as defined in Appendix A). Final stabilization is met if the area has been seeded or planted to establish vegetation that provides 70 percent or more of the vegetative cover native to local undisturbed areas within three (3) years and, to the extent necessary to prevent erosion on the seeded or planted area, non-vegetative erosion controls have been applied to provide cover for at least three years without active maintenance.
    b. Disturbed areas on agricultural land that are restored to their preconstruction agricultural use. The Part 2.2.14c final stabilization criteria do not apply.
    c. Areas that need to remain disturbed. In limited circumstances, stabilization may not be required if the intended function of a specific area of the sire necessitates that it remains disturbed, and only the minimum area needed remains disturbed (e.g., dirt access roads, utility pole pads, areas being used for storage of vehicles, equipment, materials).

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Section 4: Notice of Termination Procedure

4.1 How to Terminate Coverage

Until you terminate coverage under this permit, you must comply with all conditions and effluent limitations in the permit. To terminate permit coverage, you must submit to EPA a complete and accurate Notice of Termination (NOT), which certifies that you have met the requirements for terminating in Part 8 of the 2022 EPA CGP.

4.2 Conditions for Terminating CGP Coverage

You may terminate CGP coverage only if one or more of the following conditions in Parts 8.2.1, 8.2.2, or 8.2.3 has occurred. Until your termination is effective consistent with Part 8.5, you must continue to comply with the conditions of this permit.

You have completed all construction activities at your site and, if applicable, construction support activities covered by this permit (see Part 1.2.1c), and you have met all of the following requirements:

a. For any areas that (1) were disturbed during construction, (2) are not covered by permanent structures, and (3) over which you had control during the construction activities, you have met the requirements for final vegetative or non-vegetative stabilization in Part 2.2.14c.
To document that you have met these stabilization requirements, you must take either ground or aerial photographs that show your site's compliance with the Part 2.2.14 stabilization requirements and submit them with your NOT. If any portion of your site is covered by one of the exceptions in Part 2.2.14c.iii, indicate which exception applies and include a supplementary explanation with your photographs that provides the necessary context for why this portion of the site is in compliance with the final stabilization criteria even though it appears to be unstabilized. You are not required to take photographs of every distinct part of your site that is being stabilized, however, the conditions of the site portrayed in any photographs that are submitted must be substantially similar to those of the areas that are not photographed. You must also comply with the following related to these photographs:
    a. Take photographs both before and after the site has met the final stabilization criteria in Part 2.2.14c;
    b. All photographs must be clear and in focus, and in the original format and resolution; and
    c. Include that date each photograph was taken, and a brief description of the area of the site captured by the photograph (e.g., photo shoes

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application of seed and erosion control mats to remaining exposed surfaces on the northeast corner of the site).

b. You have removed and properly disposed of all construction materials, waste and waste handling devices, and have removed all equipment and vehicles that were used during construction, unless intended for long-term use following your termination of permit coverage;
c. You have removed all stormwater controls that were installed and maintained during construction, except those that are intended for long-term use following your termination of permit coverage or those that are biodegradable (as defined in Appendix A); and
d. You have removed all potential pollutants and pollutant-generating activities associated with construction, unless needed for long-term use following your termination of permit coverage; or

1. You have transferred control of all areas of the site for which you are responsible under this permit to another operator, and that operator has submitted an NOI and obtained coverage under this permit; or
2. Coverage under an individual or alternative general NPDES permit has been obtained.

4.3 How to submit your NOT

You must use EPA's NPDES eReporting Tool (NeT) to electronically prepare and submit an NOT for the 2022 CGP.
To access NeT, go to https://cdx.epa.gov/cdx

Waivers from electronic reporting may be granted as specified in Part 1.4.2. If the EPA Regional Office grants you approval to use a paper NOT, and you elect to use it, you must complete the form in Appendix I of the 2022 EPA CGP.

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Section 5: Appendices

Appendix A – Stormwater Pollution Prevention Plan Site Map

Appendix B – Blank Inspection Report, Corrective Action Log and Inspector Qualifications

Appendix C – Grading and Stabilization Activities Log

Appendix D – SWPPP Amendment Log

Appendix E – BMP Installation and Maintenance Log

Appendix F – Endangered Species/Critical Habitat Description and Cultural Properties

Appendix G – SHPO Correspondence

Appendix H – Subcontractor Certification Agreements

Appendix I – Training Log

Appendix J – Spill Prevention Log

Appendix K – Construction General Permit

Appendix L – Completed Inspection Reports

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Appendix A

Stormwater Pollution Prevention Plan Site Map

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SITE
Legacy Church - Central Campus
Central & Unser Public Library
U.S. Rte 66
Central Ave SW
CVS
Frederick Ln SW
75th St SW
Coors Blvd SW
Churchill Rd SW
Bataan Dr SW
Gwin Rd SW
Old Coors Dr SW
CRESTVIEW BLUFF
SKYVIEW WEST
ALAMOSA
Crescent Ridge Apartment Homes
Bridge Blvd SW
Sunset Gardens Rd SW
Salvador Rd SW
Alamosa Elementary School
La Guelaguetza
Nelson's Meats
ENCANTO VILLAGE HOA
Unser Blvd SW
Stinson St SW
Eucariz Ave SW
NM Human Services Department
LOS ALAMOS CIVIC
Foothill Dr SW
75th St SW
Tower Rd SW
Sundara Event Center
Bridge Blvd SW
45
CU ANYTIME
San Ygnacio Rd SW
Old Coors Dr SW
Skate Park
STINSON TOWER
Abeyta Rd SW
Sage Rd SW
N
Google Earth

Appendix B

Blank Inspection Report, Corrective Action Log, and Inspector Qualifications

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Storm Water Compliance Inspection Form

Inspection Type: _____

Date: _____ **Time:** _____

Permit Tracking #: _____

Inspector Name: _____ **Qualifications:** _____

Current Weather Conditions: _____

Date and Amount of Last Recordable Storm Event: _____

Construction Timeline:

Action	Start Date	Date Complete
Initial BMP Installation		
Clearing and Grubbing		
Utility Installation		
Construction of Structure		
Final Stabilization		

Site Walk:

Question	Yes	No	N/A	Comment
Is there a proper posting sign?				
Are there signs of pollutants leaving the site?				
Are all materials stored properly?				
Were all outfalls inspected?				
Are there signs of a recent discharge?				
Have all areas disturbed areas not under construction been properly stabilized?				
Is construction trash and other debris managed properly?				
Are all concrete and paint washouts properly marked and maintained?				
Has there been a non-storm water discharge?				

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BMP's:

Question	Yes	No	N/A	Comments
Were all BMP's Inspected?				
Are there any BMP's in need of repair?				
Are current BMP's effective?				
Are additional BMP's needed?				
Were previous corrections made prior to this inspection?				

SWPPP Information:

Question	Yes	No	N/A	Comments
Is the SWPPP kept on site?				
Was the SWPPP Updated at the time of the inspection?				
Are all certification pages signed?				
Are inspector qualifications in the SWPPP?				
Is there a copy of the NOI and Acknowledgement letter?				
Is there a delegation letter in the SWPPP?				
Was the last inspection/CAL certified?				

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"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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Owner: _____

Name Signature Date

Operator: _____

Name Signature Date

Additional Comments:

Corrective Action Log:

Location	Corrective Action Needed	Date and Time Noted	Date Completed	Initials

"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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Owner: _____

Name Signature Date

Operator: _____

Name Signature Date

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CISEC, Inc.

Board of Directors

certifies that

Tim Slatunas

has demonstrated satisfactory evidence of sediment and erosion control inspection skills and successfully passed the certification examination and therefore, as required by CISEC, Inc., is authorized to use the title of

Certified Inspector of Sediment and Erosion Control

Given this 29th day of January, 2013

CISEC, Inc. President

CISEC, Inc. Board of Director

1283

Certification Number

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The CESSWI™ Application Review Committee
certifies that

Tim J. Slatunas

Subscribes to the Code of Ethics and has met the requirements
established by the CESSWI Council as a

Certified Erosion, Sediment and Storm Water Inspector™

An EnviroCert International, Inc. Program

Certification Number: 0343 Certification Date: September 8, 2008

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Superior StormWater Services, LLC 1201 Calibri Ave Las Lunas NM 87031 Phone: 505-565-8280
Inspector Qualifications 4-14-10

Appendix C

Grading and Stabilization Activities Log

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GRADING AND STABILIZATION ACTIVITIES LOG

PROJECT NAME:

SWPPP CONTACT:

DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (TEMPORARY OR PERMANENT)	DATE WHEN STABILZATION MEASURES ARE INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

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GRADING AND STABILIZATION ACTIVITIES LOG

PROJECT NAME:

SWPPP CONTACT:

DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (TEMPORARY OR PERMANENT)	DATE WHEN STABILZATION MEASURES ARE INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

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Appendix D

SWPPP Amendment Log

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SWPPP AMENDMENT LOG

PROJECT NAME:

SWPPP CONTACT:

AMENDMENT NO.	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY NAME(S) AND TITLE

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SWPPP AMENDMENT LOG

PROJECT NAME:

SWPPP CONTACT:

AMENDMENT NO.	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY NAME(S) AND TITLE

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Appendix E

BMP Installation and Maintenance Log

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BMP INSTALLATION AND MAINTENANCE LOG

PROJECT NAME:

SWPPP CONTACT:

INSTALLATION DATE	INSTALLERS NAME	DESCRIPTION OF BMP	LOCATION

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BMP INSTALLATION AND MAINTENANCE LOG

PROJECT NAME:

SWPPP CONTACT:

INSTALLATION DATE	INSTALLERS NAME	DESCRIPTION OF BMP	LOCATION

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Appendix F

Endangered Species/Critical Habitat Description and Cultural Properties

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To: June 09, 2022
Project Code: 2022-0052467
Project Name: Villa de Marcos Gabriel Subdivision

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

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The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

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Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program: https://www.emnrd.nm.gov/sfd/rare-plants/

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

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The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php. We also recommend review of the Birds of Conservation Concern list (https://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit https://www.fws.gov/migratorybirds/pdf/management/executiveordertoprotectmigratorybirds.pdf for information

regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Migratory Birds

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Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
(505) 346-2525

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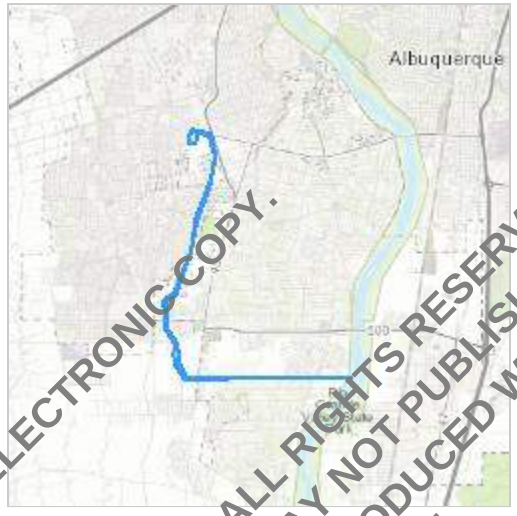
Project Summary

Project Code: 2022-0052467
Event Code: None
Project Name: Villa de Marcos Gabriel Subdivision
Project Type: Residential Construction
Project Description: new land development for future residential home construction
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.043370749999994,-106.71790161446793,14z



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Counties: Bernalillo County, New Mexico

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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Mammals

NAME	STATUS
New Mexico Meadow Jumping Mouse *Zapus hudsonius luteus*	Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/7965

Birds

NAME	STATUS
Mexican Spotted Owl *Strix occidentalis lucida*	Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/8196

Southwestern Willow Flycatcher *Empidonax traillii extimus*	Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/6749

Yellow-billed Cuckoo *Coccyzus americanus*	Threatened

Population: Western U.S. DPS
There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/3911

Fishes

NAME	STATUS
Rio Grande Silvery Minnow *Hybognathus amarus*	Endangered

Population: Wherever found, except where listed as an experimental population
There is **final** critical habitat for this species. Your location overlaps the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/1391

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus*	Candidate

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/9743

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Rio Grande Silvery Minnow *Hybognathus amarus*	Final

https://ecos.fws.gov/ecp/species/1391#crithab

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Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

---

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

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For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Black Swift *Cypseloides niger* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8878	Breeds Jun 15 to Sep 10

NAME	BREEDING SEASON
Black-chinned Sparrow *Spizella atrogularis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447	Breeds Apr 15 to Jul 31
Cassin's Finch *Carpodacus cassinii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Clark's Grebe *Aechmophorus clarkii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Evening Grosbeak *Coccothraustes vespertinus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Aug 10
Grace's Warbler *Dendroica graciae* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 20 to Jul 20
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Lewis's Woodpecker *Melanerpes lewis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408	Breeds Apr 20 to Sep 30
Long-eared Owl *asio otus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Olive-sided Flycatcher *Contopus cooperi* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Pinyon Jay *Gymnorhinus cyanocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9420	Breeds Feb 15 to Jul 15
Virginia's Warbler *Vermivora virginiae* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9441	Breeds May 1 to Jul 31

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Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

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Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

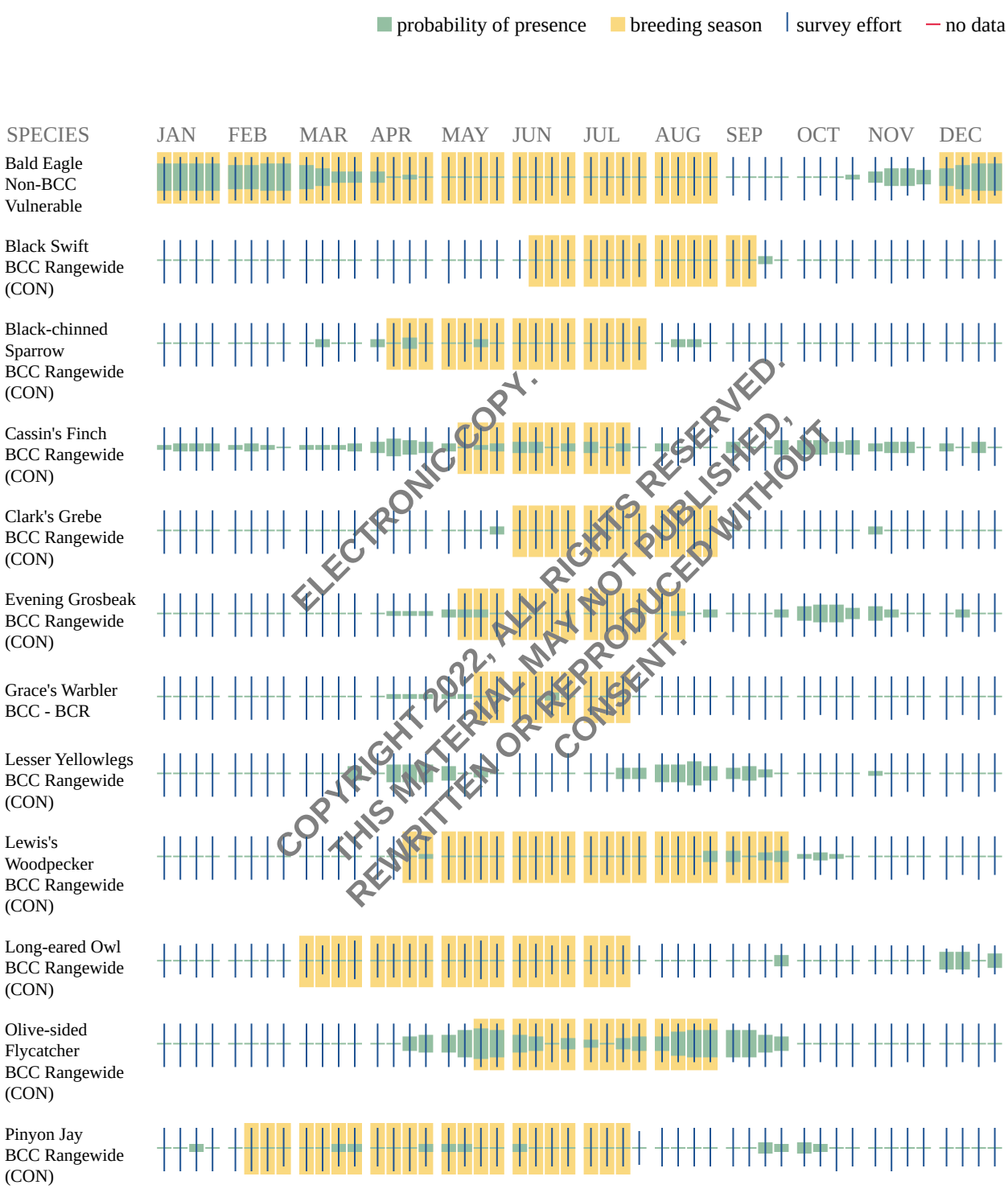
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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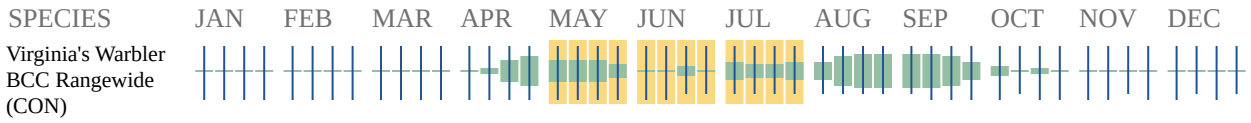

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

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What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

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Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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IPaC User Contact Information

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State: NM
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Email matt@greenglobenm.com
Phone: 5053048473

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Appendix G

SHPO Correspondence

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Appendix H

Subcontractor Certifications Agreements

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Subcontractor Certification
Stormwater Pollution Prevention Plan

Project Title: _____

Project Locations: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certifications statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Phone Number: _____

Type of construction service to be provided:

_____

_____

_____

Signature: _____

Title: _____ **Date**: _____

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Project Title: _____

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I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Phone Number: _____

Type of construction service to be provided:

_____

_____

_____

Signature: _____

Title: _____ **Date**: _____

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Appendix I

Training Log

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Stormwater Pollution Prevention Plan Training Log

Project Name:
Project Location:
Instructor's Name(s):
Instructor's Title(s):

Specific Training Objective: SWPPP Compliance, familiarization of SWPPP and Requirements.

Course Location: _____ **Date:** _____

Course Length (hours): _____

Stormwater Training Topic: Complete the following chart with Name, Title and Company for each Person(s) **– CGP MANDATORY RECORD.**

	Mandatory Information	Name	Title	Company
☐	**Person Responsible for SWPPP Implementation**			
☐	**Person Responsible for BMP Installation**			
☐	**Person Responsible for BMP Maintenance**			
☐	**Person Responsible for Corrective Actions and Implementation Schedule and Documentation Procedures**			
☐	**Person Responsible for Application and Storage of Treatment Chemicals**			
☐	**Person Responsible for Inspections and Inspection Procedures/Documentation**			
☐	**Person Responsible for Application and Storage of Treatment Chemicals**			

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Stormwater Training Topics	
☐	Sediment and Erosion Control BMPs
☐	Emergency Procedures/Spill Prevention, Protection Procedures
☐	Good Housekeeping BMPs
☐	Sediment and Erosion Control BMPs
☐	Non-Stormwater BMPs
☐	Location of Stormwater Controls and How to Maintain
☐	Inspection Schedule, Scope and Documentation
☐	Prepare Site for Storm Events, Prevent Stormwater Pollution

Operators Person Responsible for SWPPP Implementation to be completed upon receipt of SWPPP and Training – MANDATORY RECORD.

Name and Title:_____Company:
_____

Contact Phone Number/Email:_____Date:
_____

Attendee Roster: (attach additional pages as necessary)

Name of Attendee	Company/Phone Number	Date

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Appendix J

Spill Prevention Log

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Significant spills, leaks or other releases

Date of incident:_____ **Time:**_____

Location of incident:

_____

Description of incident:

_____

Circumstances leading to release:

Actions taken in response to release:

Measures taken to prevent recurrence:

Estimated Quantity:_____ **Duration of Spill:**_____

Operator Name:_____

Address:_____

Phone:_____

Party Associated with Spill (if not operator):_____

Address:_____

Phone:_____

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Significant spills, leaks or other releases

Date of incident:_____ **Time:**_____

Location of incident:

_____

Description of incident:

_____

Circumstances leading to release:

Actions taken in response to release:

Measures taken to prevent recurrence:

Estimated Quantity:_____ **Duration of Spill:**_____

Operator Name:_____

Address:_____

Phone:_____

Party Associated with Spill (if not operator):_____

Address:_____

Phone:_____

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Spill Report Form

NMED Incident# _____ District Code: _____ County: _____

Received by: _____ Date Received: _____ Time: _____

Date Spill Occurred: _____ Time: _____

Date Spill Discovered: _____ Time: _____

Date Spill Stopped: _____ Time: _____

Who Reported Incident: _____ Title: _____

Address: _____ City: _____

Phone: _____ State: _____ Zip: _____

Who Caused Spill (name): _____

Address: _____ City: _____

Phone: _____ State: _____ Zip: _____

Spill Location: _____
(such as highway, street names, etc.)

Source/Cause: _____
_____
_____

Materials Spilled: _____ Amount: _____

2) _____ Amount: _____

Weather Conditions: _____ Injuries: _____

Environmental Damage: _____

Mitigate Actions: _____

Nearest Waterbody Affected: _____

Depth to Groundwater: _____

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Appendix K

2022 EPA Construction General Permit

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Appendix L

Completed Inspection Reports

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Section 6: References

- **2022 Construction General Permit (CGP)**
- **USDA-NRCS, NM Agronomy Technical Note 28**
- **U.S. EPA Interim Revised NPDES Inspection Manual 2017**
- **NMED OpenEnviroMap Tool https://gis.web.env.nm.gov/oem/?map=swqb**
- **NOAA Atlas 14 https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html**
- **NRCS Web Soil Survey https://websoilsurvey.sc.egov.usda.gov**
- **State of New Mexico Water Quality Control Commission 2020-2022 Integrated List**
- **State of New Mexico Continuing Planning Continuing Planning Process**

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