

GROUP A. PROJECT MANAGEMENT AND INFORMATION/DATA QUALITY OBJECTIVES

A1. Title Page

Quality Assurance Project Plan

2026 Wetlands Data Collection Blitz and Statistical Analysis
of New Mexico Rapid Assessment Methods

Revision 0

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New Mexico Environment Department
Surface Water Quality Bureau

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A2. Approval Page

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A3. Table of Contents

Contents

GROUP A. PROJECT MANAGEMENT AND INFORMATION/DATA QUALITY OBJECTIVES.....	1
A1. Title Page	1
A2. Approval Page.....	2
A3. Table of Contents.....	3
List of Tables and Figures	4
Acronyms	5
A4. Project Purpose, Problem Definition, Background	6
A5. Project Task Description	7
A6. Information/Data Quality Objectives and Performance/Acceptance Criteria	15
A7. Distribution List.....	16
A8. Project Organization	16
A9. QAO Independence.....	17
A10. Project Organization	17
A11. Personnel Training/Certification.....	19
A12. Documents and Records	19
GROUP B. IMPLEMENTING ENVIRONMENTAL INFORMATION OPERATIONS.....	20
B1. Identification of Project Environmental Information Operations	20
B2. Methods for Environmental Information Acquisition	22
Field Activities Environmental Measurements	22
Laboratory Analyses.....	24
Existing Information	24
B3. Integrity of Environmental Information	25
B4. Quality Control.....	25
B5. Instrument/Equipment Calibration, Testing, Inspection, and Maintenance	26
Calibration and Frequency	26
Testing, Inspection, and Maintenance.....	26
B6. Inspection/Acceptance of Supplies and Services.....	27
B7. Environmental Information Management.....	27
GROUP C. ASSESSMENT, RESPONSE ACTIONS, AND OVERSIGHT	27
C1. Assessment and Response Actions	27
C2. Oversight and Reports to Management	27

GROUP D. ENVIRONMENTAL INFORMATION REVIEW AND USABILITY DETERMINATION	28
D1. Environmental Information Review	28
Validation and Verification Methods	28
D2. Usability Determination	28
References	29
Acknowledgement Statement	48

List of Tables and Figures

Table 1. Project Task, products, responsible party, timeline	10
Table 2. Project Roles and Responsibilities	Error! Bookmark not defined.
Table 3. Data Records for the Project	20
Table 4. Project Monitoring Specifics	20
Figure 1. Project area map with preliminary site locations	12
Figure 2. Organizational Chart	Error! Bookmark not defined.

Acronyms

DQI	Data Quality Indicator
DQO	Data Quality Objectives
EIO	Environmental Information Operations
EPA	United States Environmental Protection Agency
DoD	Department of Defense
DoE	Department of Energy
GIS	Geographic Information System
GPS	Global Positioning System
GRTS	Generalized Random Tessellation Stratified
HGM	Hydrogeomorphic Classification System
NAIP	National Agriculture Imagery Program
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMRAM	New Mexico Rapid Assessment Methods
NM RGIS	New Mexico Resource Geographic Information System
NWI	National Wetlands Inventory
QA	Quality Assurance
QC	Quality Control
QAO	Quality Assurance Officer
QAPP	Quality Assurance Project Plan
RWSI	Relative Wetland Size Index
SOP	Standard Operating Procedures
SA	Sampling Area
SWQB	Surface Water Quality Bureau
WOTS	Waters of the State
TMDL	Total Maximum Daily Load
V&V	Verification and Validation

A4. Project Purpose, Problem Definition, Background

This QAPP is the primary QA planning document for this project. The other QA document that is relevant to the projects described in this QAPP include the New Mexico Environment Department (NMED) SOP 13.1 “Probabilistic Monitoring”, which provides the basis for sample site selection described later in this QAPP (section A5). This QAPP refers to the project as Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs and is being managed by the SWQB Wetlands Team in coordination with Tetra Tech and Natural Heritage New Mexico.

Project Purpose and Problem Definition

The purpose of this Quality Assurance Project Plan (QAPP) is to support data collection efforts for two components of an overarching project with similar data collection requirements. The first, “NMRAM Data Blitz” will focus on conducting a large amount of New Mexico Rapid Assessment Method (NMRAM) assessments (specifically for the Montane and Lowland Riverine wetland subclasses) over a short period of time throughout New Mexico to evaluate method performance and support statistical analysis and potential regulatory applications. The second “New Mexico Rapid Assessment Method Training Videos and Volunteer certification project” will focus on developing training materials, including hands-on field training and collection of NMRAM data with training participants.

The problems to address with this project are the data gaps in wetlands assessments throughout New Mexico, incomplete and non-streamlined NMRAM methods and tools, the gap in training materials in new NMRAM development, and the lack of regulatory and mitigations tools related to wetlands for use in the New Mexico State Surface Water Permitting Program. Development of NMRAM is an ongoing and iterative process and the status of each subclass module are in different stages of development. Priorities for development are based on statewide protection needs and funding availability. Currently, through this iterative NMRAM development process, the Wetlands Program has identified the need to adapt the assessment towards the state surface water permitting program. The permitting program needs tools and assessment methods that determine the loss of wetland function (not just loss of wetland size or area) in order to determine compensatory mitigation and mitigation ratio requirements at permit sites. This requires the need to collect a vast amount of data to figure out how to streamline the NMRAM data collection process, make data collection more rapid, tailor the assessment towards a regulatory and mitigation focus, develop web applications and survey tools to record data on, expand training materials, and increase training activity.

This project has two primary objectives:

1. **Collect additional NMRAM field data** from riverine wetlands throughout New Mexico to evaluate method performance and support statistical analysis and potential regulatory applications. More information about sampling sites and the type, quantity, and quality of data to be collected are described in the following section (A5).
2. **Develop training resources and certification processes** to ensure consistent and high-quality application of NMRAM by monitoring staff and partners.

This QAPP refers to the project and its subcomponents as the “Data Blitz” and “NMRAM Training Materials”. The “Data Blitz” is being managed by Tetra Tech on behalf of New Mexico Environment Department and the “NMRAM Training Materials” is being managed by the Natural Heritage New Mexico on behalf of the New Mexico Environment Department. The project is funded under the Environmental Protection Agency (EPA) Wetlands Program Development Grant.

Background

Previously, NMED has partnered with Natural Heritage New Mexico (NHNM) to create training materials for different subclasses of the NMRAM. The NMRAM was developed as part of the Surface Water Quality Bureau (SWQB) Wetlands Program’s ongoing efforts to promote effective management and protection of the state’s wetland resources. The SWQB Wetlands Team has developed NMRAMs for six subclasses of wetlands: Montane (Riverine), Lowland (Riverine), Confined Valley (Riverine), Regulatory (Riverine), Southern High Plains Playas (Depressional), and Headwater (Slope) wetlands. Each subclass module of the NMRAM has been developed in collaboration with advisory teams of wetland experts to determine the appropriate metrics to assess physical condition of each wetland type. In addition, a modified Riverine Wetlands NMRAM for regulatory purposes (REG NMRAM) was developed in collaboration with the U.S. Department of the Army Corps of Engineers Albuquerque District to assist them in evaluating mitigation values for projects that might impact wetlands. NMED and NHNM plan to continue the creation of training materials for NMRAM including Confined Valley Riverine, Headwater Slope and Playas of the Southern High Plains wetlands. The NMRAM provides a cost-effective and consistent evidence-based tool for assessing wetland ecological condition (McGraw, Muldavin, and Milford 2018). It uses a select set of observable and relatively easy-to-measure spatial analyses and field indicators (landscape, size, biotic and abiotic metrics) to express the relative condition of a particular wetland site. The ecological condition of a particular site is evaluated and rated as excellent, good, fair, or poor based on a preponderance of evidence from a set of landscape, biological, and abiotic metrics.

Existing manuals and guidance for riverine NMRAM data collection include:

- New Mexico Rapid Assessment Method for Lowland Riverine Wetlands (V2.2) (Muldavin et al., 2022a)
- New Mexico Rapid Assessment Method for Montane Riverine (V2.5) (Muldavin et al, 2022b)

A5. Project Task Description

Description

This project will use the riverine NMRAMs developed for the Montane and Lowland Riverine subclasses and the Regulatory NMRAM to collect data at 100 riverine wetlands in New Mexico during the 2026 field season to 1) collect enough data points to statistically determine if there are opportunities to refine the NMRAMs to expand data collection capacity and 2) build on our understanding of the current physical condition of wetlands in New Mexico and 3) develop a Survey123 (or Fulcrum) platform for the NMRAMs to collect data in the field and easily transfer data to SWQB for future database upload and temporary

server storage. NHNM will work collaboratively with the NMED SWQB Wetlands Program to further utilize the NMRAM for the State's Wetlands to increase applicability and regions where the NMRAM can be used. NHNM will provide staff, coordination, training, materials and supplies to create training videos for NMRAM Confined Valley Riverine Wetlands, NMRAM Playas of the Southern High Plains, and NMRAM Headwater Slope Wetlands. Approximately forty (40) training videos will be created to cover these modules and uploaded to the SWQB Wetlands Program website. NHNM will conduct three (one for each NMRAM) 1 ½ day in-person trainings for participants along with a half-day online review based on the training videos prior to the start of the in-person training. NHNM will also conduct one Botany Booster to enhance botany skills for NMRAM users. NHNM in cooperation with NMED will refine the process for obtaining a training certificate that will be issued to participants who view all the training videos, attend an in-person NMRAM training session and demonstrate that they understand the training materials for future data collection. This will be elaborated in more detail in Identification of Project Environmental Information Operations section B1.

The following work and tasks will be performed for the "Data Blitz" component of the project:

- Data Application and Field Testing/Data Collection:
 - Develop a field data collection application using Esri Survey 123 (or similar) for two NMRAM types: Montane Riverine and Lowland Riverine. Application data will be converted to .csv format and data will be stored on SWQB servers. The SWQB plans to develop a database in the future (pending additional funding) for long-term data storage.
 - Tetra Tech will evaluate and compare two possible applications: Survey123 and Fulcrum. The application that best serves data collection and data formatting needs while balancing ease of use will be selected and used for future data collection.
 - Tetra Tech will conduct simultaneous local field testing of the chosen application and the first NMRAM assessments.
- NMRAM Data Collection:
 - Tetra Tech will conduct NMRAM evaluations using Esri Survey 123 or similar across remaining (~96) Montane and Lowland Riverine wetlands selected by the SWQB Wetlands Team.
 - Data collection will include weekly data QC and field map digitization.
- NMRAM Data Analysis and Report
 - Tetra Tech will evaluate the regulatory use of NMRAM, components thereof, or other assessment methods and provide recommendations for regulatory use for Surface Waters of the State (SWOTS).
 - Tetra Tech will produce a final report containing the following:
 - Summary of Esri Survey 123 (or Fulcrum) development.
 - Summary and analysis of collected data.
 - Statistical analysis of parameter sensitivity.
 - Recommendations for NMRAM improvement.
 - Recommendations for NMRAM certification.

- Recommendations for regulatory assessment (NMRAM or other) to evaluate loss of function, mitigation, etc. (and will note which components are evaluated).

The following work and tasks will be performed for the “NMRAM Training Materials” Project:

- Develop Web-Hosted and In-Person Training Materials and Conduct NMRAM Trainings:
 - Develop electronic training materials, including approximately forty (40) training videos covering a brief introduction, landscape, biotic, and abiotic metric concepts, stressor checklist, photo-points, vulnerability rating, and score roll-up methods for the Confined Valley Riverine, Playas of the Southern High Plains, and Headwater Slope Wetland NMRAMs.
- Conduct 3 in-person / online trainings.
- Conduct single Botany Booster training.
- Post-video training requirements and certification materials will be improved by NHHM and SWQB Wetlands Program staff, and SWQB Quality Assurance Officer will approve the certification requirements.
- Video and Field Training for NMRAM Modules - Preparation and Logistics.
 - NHHM will develop invitations and SWQB Wetlands Program will send invitations to participants for each training module. The invitations and follow-up notices will provide links to training videos, a copy of the QAPP, an agenda, and personal supply list. Participants will be required to read and acknowledge the QAPP as part of the certification process. Roles and Responsibilities: NHHM will develop invitations with attachments. SWQB Wetlands Program will send out notices approximately two (2) months in advance of scheduled trainings.
 - Field packets prepared, and supplies obtained prior to scheduled field trainings.
 - NHHM trainers will ensure that participants fill in all data on the forms and enter them into the most current datasheets prior to completing the field training.

Schedule

The project will run from February 2026 through April 2028. The “Data Blitz” portion begins with a project kick-off meeting in March 2026, followed by development and testing of Esri Survey123 and Fulcrum in April 2026. NMRAM landscape context assessments will also begin in April, with field assessments conducted from April through November 2026. Concurrently, Tetra Tech will analyze collected NMRAM data, including metric sensitivity and regulatory applicability, with results summarized in the final report along with recommendations for improvement and certification. A draft report will be submitted in December 2026, followed by the final report in January 2027.

The New Mexico Rapid Assessment Method Training Videos and Volunteer certification project will begin in spring of 2026 with a kickoff meeting and the start of development of web-hosted training videos (~40 total). The videos for all three modules will be complete by December 2026, and then the planning, preparation, and conducting of the trainings and Botany Booster will occur the summer of 2027 with completion of all aspects of the project by April 2028.

Administrative tasks such as procurement, contract reimbursements, and general project management will be ongoing throughout the duration of the project.

These tasks are outlined in the table below (Table 1).

Table 1. Project Task, products, responsible party, timeline

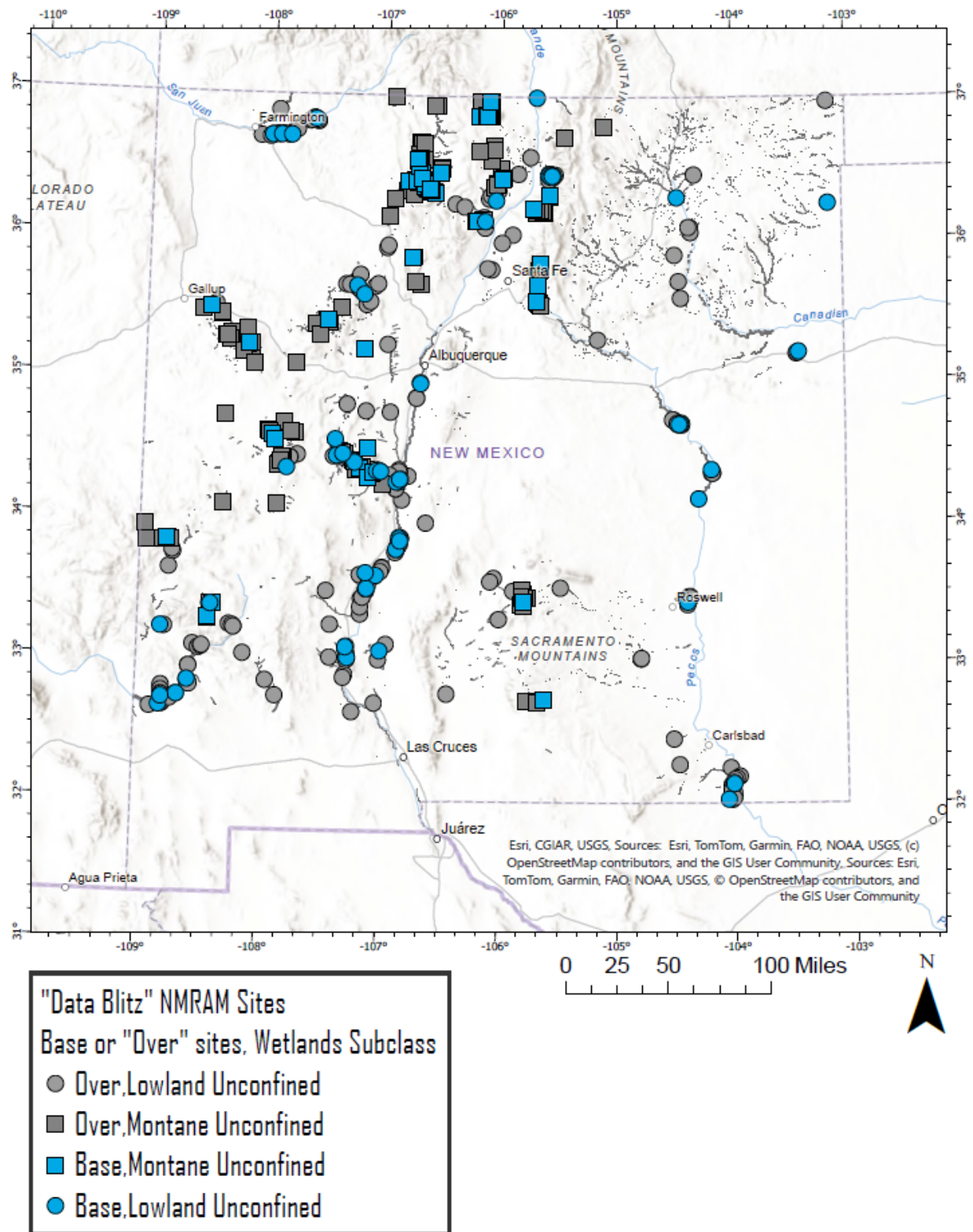
Task	Product	Responsible Party	Approximate State Date	Approximate Completion Date
Administrative	Procurement for contract	Tetra Tech, New Mexico Natural Heritage	02/2026	03/2026
Project Kick Off and Planning	Kickoff Meeting tasks assigned and timeline reviewed	NHNM / NMED	04/2026	05/2026
Quality Assurance Project Plan	Approved QAPP	NMED	04/2026	05/2026
Develop Web-Hosted and In-Person Training Materials	NMRAM Training videos uploaded to NHNM websites and video files provided to SWQB,	NHNM	04/2026	12/2026
Conduct NMRAM Trainings, Video and Field	Logistics, online video format training, field training, appropriate sign in sheets, training certification	NHNM	05/2027	09/2027
Conduct Botany Booster Training	Logistics, field training, sign in sheets	NHNM	05/2027	09/2027

Project Kick Off	Kickoff Meeting tasks assigned and timeline reviewed	NMED/Tetra Tech	03/2026	03/2026
Esri Survey 123 and Fulcrum development and testing	Developed Application	Tetra Tech	03/2026	04/2026
NMRAM Landscape Context assessments	Partial NMRAM datasheets filled out, sites scouted	Tetra Tech	03/2026	05/2026
NMRAM field assessments	100 completed NMRAMs	Tetra Tech	04/2026	11/2026
Final NMRAM report written	Final Report finished and reviewed	Tetra Tech/NMED	12/2026	01/2027
Reporting to SWQB Project Officer	Monthly progress reports and reimbursement requests	NHNM, Tetra Tech	03/2026	03/2030
Reporting to EPA	Semi-annual and Final Report to EPA	SWQB WPOs	03/2026	06/2030

Project Area

This project will take place at Lowland and Montane Riverine Wetlands throughout the entire state of New Mexico. Tentative data blitz locations are seen in the map in Figure 1. Specific locations for NMRAM and Botany Booster trainings will be determined at a later date. Preliminary site locations are listed in appendix II.

Figure 1. Project area map with preliminary site locations.



Monitoring Location Selection Criteria

The Data Blitz will utilize probabilistic monitoring for site selection following the procedures in NMED SOP 13.1 “Probabilistic Monitoring” and the SWQB will utilize the EPA Survey Design Tool (v. 2.0.0) for site selection. As a brief overview, through this tool, sites are selected using a statistically rigorous, spatially balanced, Generalized Random Tessellation Stratified (GRTS) sampling algorithm. The process begins by defining the target population and sampling frame using Geographic Information System (GIS) datasets and stratifying the population based on wetland subclass (unconfined Montane and Lowland Riverine wetlands). The Survey Design Tool then generates a random but spatially balanced list of potential sampling locations, including a set of primary (“base”) sites and additional oversample sites that serve as replacements if a selected site is inaccessible or does not meet target criteria. Each site will have a unique ID, following a format that will be determined during the course of the project. See appendix II for a list of sites (temporary IDs have been given to the sites listed in this report. Final IDs will be assigned during the project).

The SWQB Project Officer will lead the effort to individually validate sampling sites from the stratified sampling population, beginning with the first 50 (per EPA’s recommendation) and working consecutively down the list until 50 suitable probabilistic monitoring sites are found and placed in the sampling queue. NMED plans on selecting 50 base sites and 300 “over” sites for each wetland subclass, resulting in 700 sites total. Each wetland subclass should be treated as an individual sampling population (though can be sampled during the same field campaigns). Sites are ordered hierarchically so that they must be evaluated sequentially, meaning selected or eliminated in numerical order from the provided list. Sites may not be selected or eliminated preferentially (for instance, because they appear to have easier access than sites occurring earlier on the list or alternatively lie within an undesirable location). Each site must be sampled or formally rejected before moving to the next to maintain the statistical integrity of the design. Initial rejection of the sites will be determined in a desktop setting (ArcGIS Pro and Google Earth Pro) and will exclude sites that have access issues. Sites may also be rejected in the field due to unforeseen access issues that were not possible to identify in the desktop setting. Instances of field rejection will be well documented (described later in this section). If staff are unsure about the eligibility of a site for sampling they should consult with their supervisor and other field staff for secondary opinions and make every reasonable effort to gain more information about the site before ruling it out for sampling. This probabilistic approach ensures that all locations in the target population have a known probability of selection and that sampling locations are distributed across the landscape in an unbiased way.

Initial site selection will be done based on the following:

- Initial sites will be selected from previous wetlands mapping data in the state, which followed National Wetlands Inventory (NWI) protocol and hydrogeomorphic (HGM) classification schemes.
- Wetland polygons for unconfined Montane Riverine and unconfined Lowland Riverine wetland subclasses will be selected and stratified.
- These identified wetland polygons (excluding those from the elimination criteria described below) will serve as the data that is input into the EPA Survey Design Tool.

The following elimination criteria will be used in site selection:

- Sites located on private land, or sites that require difficult access through private land will not be selected.
- Sites on Department Defense (DoD), Department of Energy (DoE), or restricted public land requiring special permissions will not be selected.
- Sites should be within a 1-hour hike from the vehicle (approximately 2 miles via hiking trail or open and even terrain along a stream bank, or approximately 0.5 miles via backcountry bushwhack). A site greater than 2 miles from vehicular access via hiking trail or greater than 0.5 mile via bushwhack access can be automatically eliminated from the site sampling list.
- Sites should be within 2-hours of a road traversable in inclement weather.
- Sites that are otherwise physically incapable or physically unreasonable to access (steep cliffs, dangerous animals, threats received from the public, unforeseen road closures, swift water crossing, other physical barriers, etc.) will not be selected.
- Incorrectly mapped wetlands. These must be very obviously incorrectly mapped, such as the incorrect wetland type, or in entirely upland areas, and verified by an experienced wetlands mapper.

Endangered Species and Special Permits

All streams and tributaries will be checked for possible endangered species using the U.S. Fish and Wildlife Service Environmental Conservation Online System². This online tool indicates where threatened and endangered species are known to be located. If there is a threatened or endangered species located in an area where a potential site is located, and sampling activities have detrimental impacts on the species or its habitat, a special permit will be obtained prior to sampling.

Site Verification

Each probabilistic sampling site is a point (longitude and latitude) located within a previously mapped wetland determined during the development of the sampling population as stated previously. Sampling teams should use all available means to ensure that they are at the correct site location by verifying latitude and longitude using mobile GIS programs, maps, or a navigation device. For Probabilistic Monitoring, all data collection at a specific sampling site should be performed concurrently but no greater than 48 hours apart. Once an assessment has been started by an observer, the initial observer will be required to complete the survey in its entirety for that sampling site. Observers may change from one particular metric to another at each sampling site

Sampling Area

Sampling areas may be adjusted to fall within 500 meters of distance from the site's Global Positioning System (GPS) location, provided adjusting the sample location still places the sampling area within the correctly classified wetland. Field teams should follow guidance from the NMRAM manuals when selecting

sampling areas. Sampling areas should be recorded to document discrepancies between the probabilistic sampling point and the final sampling area.

Site Documentation

In addition to the NMRAM field sheets, site documentation should be recorded. It is essential to take several photos of the site condition and any disturbances or modifications that are relevant to data collection and assessment. Photos will automatically sync to a cloud-based server using a survey application. Rejection of sites in the field should be recorded with photo evidence and a list of reasons for rejection should be provided based on criteria described in this document above.

A6. Information/Data Quality Objectives and Performance/Acceptance Criteria

Data Quality Objective (DQO)

The quality of the data will be adequate to provide a high level of confidence in determining the condition of wetlands within multiple wetland subclasses in New Mexico in the “Data Blitz” and “NMRAM Training Materials” Project. Training materials will be developed accordingly and will follow the same data quality criteria. Data quality will be measured against the quantitative and qualitative data quality indicators described below.

Data Quality Indicators

The measurement quality objectives will be sufficient to achieve the DQO and will be in conformance with those listed in the SWQB’s QAPP. The Data Quality Indicators listed in the SWQB’s QAPP and applicable to the data collected for this project are precision, accuracy, representativeness, comparability, completeness, and sensitivity.

DQI	Determination Methodologies
Precision	Precision will be ensured by consistently assigning the same staff the responsibilities of collecting, recording and analyzing data.
Accuracy	Accuracy will depend on adherence to established scoring criteria outlined in the NMRAM. NMRAMs are reliable and tested through long-term previous development.
Representative	Wetland subclasses will be represented equally based on probabilistic site selection criteria.
Comparability	Methods for data collection are standardized and reproducible from the development and adherence to this QAPP.
Completeness	All metrics data will be collected for each of the SAs and go through validation and verification procedures to ensure completeness. The number of sites assessed will adhere to probabilistic site selection criteria.

Sensitivity	Analyses will be conducted to ensure sensitivity of metrics to environmental conditions.
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A7. Distribution List

The QA Officer will ensure that copies of this QAPP and any subsequent revisions are distributed to members who have signature authority to approve this QAPP. The SWQB Project Officer will ensure that copies of the approved QAPP and any subsequent revisions are distributed to the Project Manager. The Project Manager will distribute to all other project personnel listed below. All members of the distribution list who do not have signature authority to approve this QAPP will review the QAPP and sign the Acknowledgment Statement prior to initiating any work for this project. The signed Acknowledgment Statements will be collected by the SWQB Project Officer and will be given to the QA Officer for filing with the original approved QAPP.

New Mexico Environment Department Surface Water Quality Bureau

Wetlands Program Project Officer: Zach Shephard, (505) 618-0375

Program Manager: Kathryn Lacey-Young, (505) 946-8863

Quality Assurance Officer: Emily Miller, (505) 660-3534

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Esteban Muldavin, NHNM, (505) 277-3822

Elizabeth Milford, NHNM, (505) 277-3829

Tetra Tech

Chris Sanderson, Tetra Tech, (505) 234-3626

U.S. Environmental Protection Agency Region 6

Project Officer: Kyla Chandler, Region 6 State and Tribal Programs, (214) 665-2166

A8. Project Organization

The table below lists all staff involved in Environmental Information Operations (EIO) and describes their roles and responsibilities (Table 2). The Project Officers will ensure that any staff responsible for conducting work in accordance with this QAPP will be provided a copy to read and acknowledge the QAPP requirements by signing the Acknowledgment Statement.

Table 2. Project Roles and Responsibilities

<i>Name</i>	<i>Organization</i>	<i>Title/Role</i>	<i>Responsibility</i>	<i>Contact Information</i>
Kate Lacey-Young	SWQB	Program Manager	Reviewing and approving QAPP, managing project personnel and resources	kathryn.lacey@env.nm.gov (505) 946-8863
Emily Miller	SWQB	QA Officer	Reviewing and approving QAPP	emily.miller@env.nm.gov

(505) 660-3534				
Zach Shephard	SWQB	Project Officer	Preparing and revising QAPP, distribution of QAPP, project reporting, coordinating with contractors, oversight of data collection, and EPA reporting	zach.shephard@env.nm.gov (505) 618-0375
Shinya Burck	SWQB	Data Collection Team, Wetlands Team, Assessment Team	Assist with refresher training and with volunteer teams field data collection. Assist in Data Blitz Project data collection.	shinya.burck@env.nm.gov (505) 500-9783
Shabana Shoukath	SWQB	Data Collection Team, Wetlands Team, Assessment Team	Assist with refresher training and with volunteer teams field data collection. Assist in Data Blitz Project data collection.	shabana.shoukath@env.nm.gov (505) 372-9908
Elizabeth Milford	NHNM	Project Manager, Data collection Team, Training Materials Lead	Rapid Assessment Contractor, data collection and training lead	emilford2@gmail.com (505) 277-3829
Chris Sanderson	Tetra Tech	Technical Lead	Rapid Assessment Contractor, Assessment Team	chris.sanderson@tetrattech.com (505) 234-3626
Jacob Lobato	Tetra Tech	Field Lead	Rapid Assessment Contractor, Assessment Team	jacob.lobato@tetrattech.com (505) 404-3143
Kyla Chandler	U.S. EPA	State and Tribal Grants Project Officer, Water Division	QAPP review and approval	chandler.kyla@epa.gov (214) 665-2166

A9. QAO Independence

The QAO shall maintain independence in all QA matters and has the ability to directly and independently interact and initiate communication with technical staff and management. This direct access allows the QAO to independently elevate critical, quality-related issues to the attention of the Bureau Chief at their discretion without challenge or section approval. The QAO communicates with NMED senior management through the Bureau Chief and the Standards, Planning, and Reporting Team Supervisor. The SWQB Quality Management Plan (NMED/SWQB 2024) further documents the independence of the Quality Assurance Officer (QAO) from this project. The QAO is responsible for maintaining the official approved QAPP.

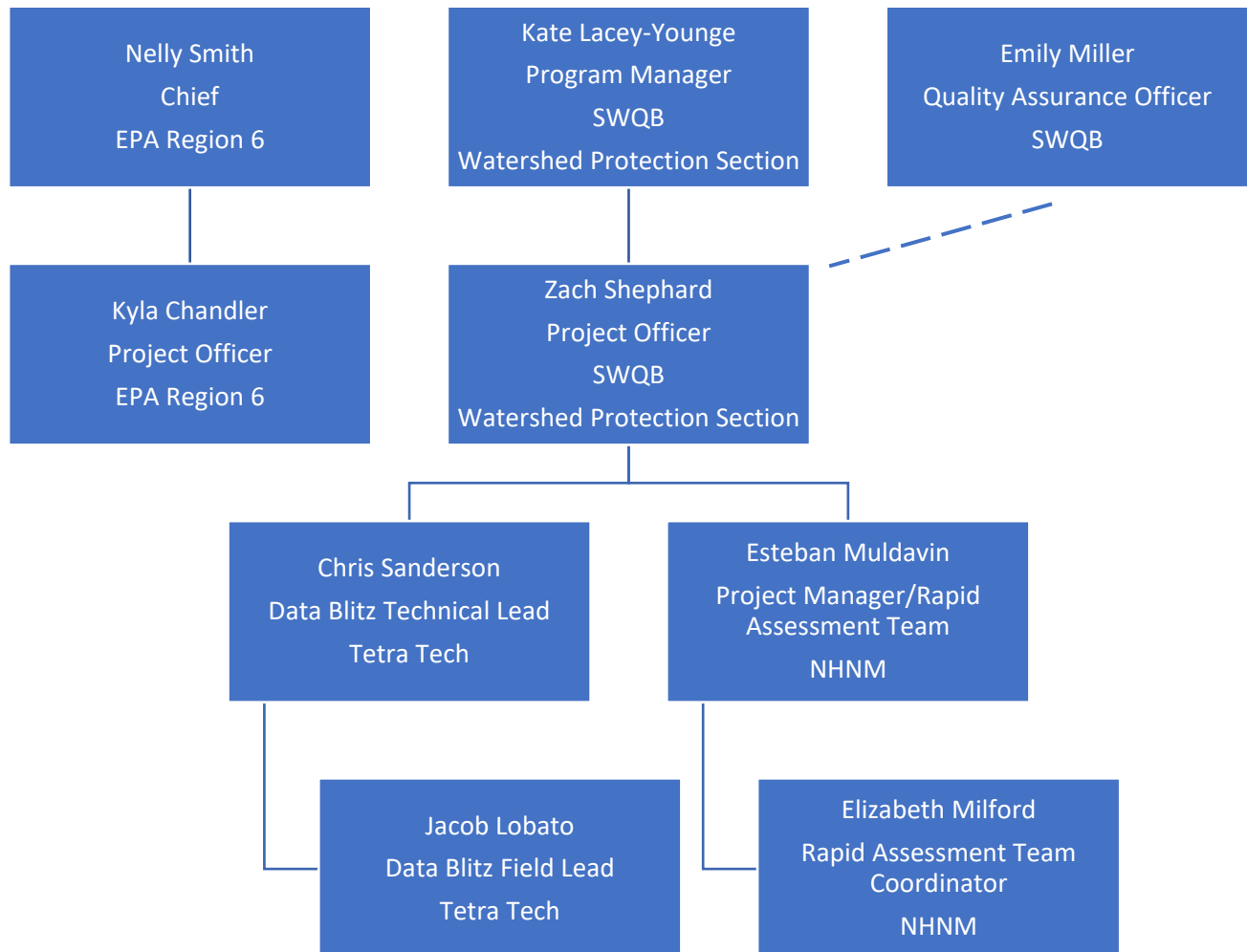
A10. Project Organization

Figure 2 describes the Project management structure and lines of communication. The standard communication procedure when addressing concerns regarding data integrity, project discrepancies, or QAPP nonconformances involves the QAO and the Program Manager or Project Officer, although the QAO

also has a separate and direct line of communication to the EPA Region 6 Project Officers and Quality Assurance Manager as needed. SWQB and contracting staff will provide feedback, concerns, or progress reports to the SWQB project officer. The Project Officer will then relay this information to the SWQB program manager, who will communicate with the EPA Project Officer as necessary. All communication will occur through phone and/or email.

Figure 2 presents the organizational structure for the Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs Project.

Figure 2. Organizational Chart



A11. Personnel Training/Certification

Data collection and monitoring for this project will be implemented by Tetra Tech and NHHM with technical assistance and oversight from the SWQB Project Officer. Both Tetra Tech and NHHM have extensive experience implementing and developing the NMRAM and need minimal training. Senior Tetra Tech and NHHM staff will train less experienced field staff in NMRAM data collection. Refresher training on NMRAM data collection for Tetra Tech will be conducted by viewing previously developed Lowland Riverine and Montane Riverine training materials at the following website (<https://www.env.nm.gov/surface-water-quality/wetlands-rapid-assessment-methods/>). The SWQB staff have attended formal NMRAM trainings in the past and will also view refresher website material. NHHM themselves will be developing NMRAM training materials as part of this project and will not need extensive additional training to achieve this task. The SWQB will check in periodically throughout the project period to ensure that established methods outlined in the previously developed training materials are being implemented. This will involve attending field collection with both Tetra Tech and NHHM periodically. Volunteers (those attending NHHM NMRAM trainings) will be trained and supervised by NHHM with assistance from the SWQB Project Officer in the field during data collection of efforts. Any individual conducting work for the project will review this QAPP and sign the acknowledgment statement prior to initiating any work for this project. The signed acknowledgment statements will be returned to the SWQB Project Officer by the Tetra Tech Technical Lead and the NHHM Program Manager.

A12. Documents and Records

The SWQB Project Officer will make copies of this approved QAPP and any subsequent revisions available to the Project Manager. The Project Manager will distribute to all individuals on the distribution list who do not have signature authority for approving the QAPP. When changes affect the scope, implementation, or assessment of the outcome, this QAPP will be revised to keep project information current. The SWQB Project Officer, with the assistance of the QAO, will determine the effects of any changes to the scope, implementation, or assessment of the outcome on the technical and quality objectives of the project. This Project Plan will be reviewed annually by the SWQB Project Officer to determine the need for revision.

Project documents include this QAPP, field notebooks, calibration records, validation and verification records, recorded field data, records of analytical data in hard copy or in electronic form, and QC records. Also included are project interim and final reports. Data captured on a camera, smart phone, tablet, or laptop will be downloaded to a Tetra Tech or NHHM computer or an external hard drive at the end of each day. Copies will be made of all data and stored separately from the original data.

All digital project data will be kept in a project file on a Tetra Tech or NHHM computer and on a separate external backup hard drive at the Tetra Tech or NHHM offices. Training materials, including PowerPoints and videos, developed by NHHM will be stored on the NMED website. All hard copy documents will be digitized and stored on a Google Drive (or similar) and backup hard drive (see Table 3). Copies of the data will be distributed by Tetra Tech monthly, and at the end of the field season in November. NHHM will

distribute the training materials to NMED by January 2027. More detail on the management of project information is covered in B7. Environmental Information Management.

Table 3. Data Records for the Project

Document	Type of Form	Storage Location	Field Sheet Used
QAPP	Electronic (.docx) & Hard Copy	Google Drive, NMED website	Quality Assurance Project Plan Standard. CIO 2105-S-02.1 . Located at: https://www.epa.gov/system/files/documents/2024-04/quality_assurance_project_plan_standard.pdf
NMRAM Training Materials	Electronic (.mp4, .pptx)	NHNM computer, NMED Website	https://www.env.nm.gov/surface-water-quality/wetlands-rapid-assessment-methods/
Field Photos	Electronic (.jpg)	Tetra Tech Computer, Google Drive	NA
NMRAM Data	Electronic (.pdf, .xlsx) & Hard Copy	Tetra Tech computer, NHNM Computer, Google Drive	https://www.env.nm.gov/surface-water-quality/wetlands-rapid-assessment-methods/ , TBD
Interim and Final Reports	Electronic (.docx)	Tetra Tech Computer, NMED Website	NA

GROUP B. IMPLEMENTING ENVIRONMENTAL INFORMATION OPERATIONS

This QAPP was developed following the Quality Assurance Project Plan Standard and QAPP Standard Checklist (EPA, 2023).

B1. Identification of Project Environmental Information Operations

The NMRAM was developed as part of the SWQB Wetlands Program's ongoing efforts to promote effective management and protection of the state's wetland resources. The overarching goal is to provide the necessary information to help prevent the continued loss and decline of New Mexico's scarce and important wetland resources. Which rapid assessment metrics are used and how they are measured varies with wetland type. For consistency, the SWQB Wetlands Program classifies wetlands into broad classes and regional subclasses based on HGM factors identified by Brinson (1993) and other features of regional importance.

NMRAM metrics are relative in that they have been developed in the context of a “reference set” of wetlands that vary along an anthropogenic disturbance gradient. The underlying premise is that wetland condition among similar wetlands will vary along this disturbance gradient, from high quality and functionality with low disturbance to the most degraded with high disturbance. The ecological condition of a particular site is evaluated and rated as excellent, good, fair, or poor based on a preponderance of evidence from a set of landscape, biological, and abiotic metrics that are sensitive to the gradient. NMRAM metrics are tailored to wetland subclasses to provide consistent and reliable indicators of wetland condition at local scales. Accordingly, for each subclass separate assessment modules of relevant metrics have been developed.

Another goal of the NMRAM is effective implementation by streamlining training, execution, and reporting. To this end, there is ongoing development of a suite of tools, like those described in this project.

The NMRAM can be applied to a broad range of applications for management and protection of wetland resources. For example:

- Prioritizing wetlands and riparian areas for restoration and protection
- Identifying suites of wetlands that are particularly impacted
- Identifying drivers (stressors) of wetland resources declines
- Providing profile data to facilitate restoration design
- Supporting the development of restoration and mitigation performance standards
- Increasing awareness of threats to wetlands and riparian areas, and
- Tracking changes in ambient wetland conditions

Overall, the NMRAM has been developed to serve a broad range of users—agencies, community groups, private landowners, and other stakeholders—with an interest in best management and protection of New Mexico’s wetland resources.

NMRAM data collection will primarily be done by Tetra Tech for the “Data Blitz”, collected as demonstration data primarily by NHHM (and volunteers/trainees) for the “NMRAM Training Materials”, and collected in assistance to both projects by SWQB employees.

Sample site location selection for the “Data Blitz” is described in section A5. Sample site location selection for the “NMRAM Training Materials” will depend primarily on selecting a site that is representative of the methods that need to be demonstrated, has relatively easy access close to main population centers, and can handle a class size of 10-20 people. The selection of Sample Areas (SA) for both components will focus on the best available sites to increase our understanding of each wetland subclass as a whole and to contribute to a set of Reference Standards sites for New Mexico, and if collected for training purposes will focus on collection of rapid assessment data from sites important to the data collection teams. Each site will be approved by the NHHM, Tetra Tech, and SWQB Wetlands Program staff as fitting the subclass.

A total of 100 sites will be assessed using the NMRAM for Montane and Lowland Riverine wetland subclasses over the course of 6 months for the “Data Blitz” and approximately 3 sites (one for each wetland class; Confined Valleys Riverine, Headwater Slope and Playas of the Southern High Plains wetlands) will be used for demonstration purposes in the “NMRAM Training Materials” over the course of a few months. See table below for monitoring specifics (Table 4).

Table 4. Project Monitoring Specifics

Responsible Party	Monitoring	Location	Frequency
Tetra Tech	NMRAM Assessments	100 sites determined through probabilistic sampling procedures (see section 5a)	100 sites over the course of 6 months. Approximately 17 sampling campaigns.
NHNM	NMRAM Assessments	Approximate 3 sites selected as a balance of ease of demonstration, and ease of access	Over the course of a few months.

This intensive data collection strategy will satisfy the need to collect a vast amount of data to figure out how to streamline the NMRAM data collection process- making data collection more rapid, to tailor the assessment towards a regulatory and mitigation focus, to develop web applications and survey tools to record data on, to expand training materials, and increase training activity.

B2. Methods for Environmental Information Acquisition

Jacob Lobato (Field Lead) is responsible for informing Chris Sanderson (technical lead) of any changes to standard procedures that may affect data collection of NMRAMs during the “Data Blitz”. Chris Sanderson is responsible for notifying the SWQB Project Officer of any such changes. Likewise, Elizabeth Milford (Project Manager) is responsible for identifying and reporting any changes in procedure to the SWQB Project Officer. The project office will be responsible for maintaining and updating standard procedures based on reporting from Chris Sanderson and Elizabeth Milford.

Field Activities Environmental Measurements

The NMRAM sampling protocols identified in NMRAM Field Guides and manuals will be utilized in the collection of data for all wetland subclasses in the project (Montane Riverine, Lowland Riverine, Confined Valley Riverine Wetlands, Playas of the Southern High Plains, and Headwater Slope Wetlands) (Muldavin et al., 2017; Muldavin et al., 2021; Muldavin et al., 2022a; Muldavin et al., 2022b, Muldavin et al., 2025). Field guides for each subclass include written procedures for all methods and protocols related to the

collection, processing, analysis, reporting and tracking of environmental data associated with each subclass to accurately represent the condition of the wetland of interest. The metrics were designed to measure aspects of condition that are relative to the reference conditions based on previous testing and validation and on best professional judgement. The NMRAM data collection worksheets, new Survey123 app, or other field forms will also be utilized.

The assessment is a multi-step process involving a two- or three-person team. It begins with delineating a target Wetland of Interest (WOI) and one or more Sampling Areas (SAs) within the WOI to be assessed. For each SA, ~15 metrics (varies by subclass) grouped into three attribute categories are evaluated: Landscape Context, Biotic, and Abiotic. A sample list of metrics has been included below. Metrics are measured using maps and aerial imagery or evaluated in the field. Landscape Context metrics are assessed using maps and/or a geographic information system (GIS) and these are termed "Level 1" metrics. Landscape Context metrics are preferably completed before going into the field to help familiarize the team with the site. Level 1 metrics are also confirmed or modified as necessary during the field survey. In contrast, Biotic and Abiotic metrics are evaluated in the field ("Level 2" metrics) and include annotated field maps and documentary photographs. In addition, a stressor checklist for evaluating potential drivers of ecological condition at local to watershed scales is completed in the office prior to going in the field and reviewed and updated, if necessary, as part of the field survey. The checklist is not used directly in scoring or ranking the condition of the wetland and accordingly explicitly excludes elements that are already incorporated in NMRAM metrics themselves (e.g., Surrounding Land Use). To arrive at an overall rating for an SA, individual metric ratings are weighted and rolled up by attribute group into a final overall numeric score. Based on the scores, categorical condition ranks are assigned as follows: A = Excellent (>3.25-4.0); B = Good (>2.5-3.25); C = Fair (>1.75-2.5), and D = Poor (1.0-1.75). When there are multiple SAs in a WOI, the SA scores can be averaged to arrive at a final rank for the entire wetland.

Field assessment steps vary between subclass types but generally follow the following steps:

1. Preliminaries. Together, team members fill in basic survey information (date, time, location, etc) on the SA Cover Worksheet. The team then conducts a joint rapid reconnaissance of the site to help set up the survey and make SA boundary changes based on local conditions. All changes to the SA boundary are recorded on the field maps and noted on the SA Cover Worksheet with rationale for changes.
2. Biotic Survey. The biotic team maps the patches of major vegetation communities on the Biotic SA Map and fills out the required data for each community type (CT) encountered. Based on this information, the entire SA is mapped based on aerial image interpretation. If time permits, mapped patches off the transect can be visited and validated. This map becomes the basis for filling out worksheets.
3. Abiotic survey. The abiotic team member(s) evaluates the Abiotic metrics along the transects / lines based on visual indicators of abiotic conditions and annotates the Abiotic SA Map with supporting information. During each traverse, indicators are checked off on metric specific lists on the worksheets that are then used to rate each Abiotic metric.

4. Landscape Context review. The Landscape Context metrics have been measured prior to the field survey and now must be reviewed based on field evidence during the survey. Each team member is likely to survey different areas in the SA and each should note landscape context condition issues that may affect the ratings on their copy of the Landscape Map, particularly in areas adjacent to the SA boundary. These are reported on the SA Cover Worksheet and can be used to modify metric ranks (with a narrative justification).
5. Stressor Checklist. Team members collaboratively review the Stressor Checklist that was completed prior to the field survey to identify potential drivers of ecological condition in the WOI and greater watershed.
6. SA Summary. After completion of the surveys, team members collaboratively complete the narrative summaries on the SA Cover Worksheet; review and complete the in-field ranking of all metrics, add comments on conditions and stressors, and provide a provisional SA Rank and Score and Assessment Summary (signed off with team member initials).
7. Team should verify valley bottom boundaries for Relative Wetland Size Index (RWSI) metric during travel to and from the SA.

A set of worksheets organized by attribute classes has been developed to support efficient data capture and automated tallying of scores. These sheets have been traditionally used for field assessment in the past and will likely be used alongside the new field application while it is being developed for the project. The worksheet packet contains a cover worksheet for recording basic information, surveyor identification, and narrative descriptions of the SA by attribute. The worksheets together with maps and photographs make up the NMRAM Assessment Package that becomes the supporting record, which will ultimately be converted into an Excel table format.

Photographic documentation will be conducted using the protocols identified in *Let the Water Do the Work* (Zeedyk, et al, 2009) Appendix I, Outline for Photographic Monitoring Plan. Photo points will be recorded using Permanent Photo Point-Record-Initial Take (Form 1).

Laboratory Analyses

Because there are no plans to collect samples, no analytical methods are needed.

Existing Information

Existing geospatial data (satellite, elevation, land use and ownership, habitat use, HGM NWI wetlands mapping data, National Agriculture Imagery Program (NAIP) imagery) from a wide variety of agencies and companies will be used to aid in site selection, site access, landscape metric analysis and vegetation community type mapping within the NMRAM assessment. Traditionally, printed or digital field maps are prepared for each SA prior to collecting the field NMRAM data. by These data are typically widely distributed (through Esri, Google Earth, NM Resource Geographic Information System (RGIS)) and have undergone an amount of QAQC generally reasonable for the purposes of this study.

B3. Integrity of Environmental Information

Data generated for this project will only be in electronic form and therefore there are no chain of custody or handling requirements. The handling and storage of field logs and survey reports are described in section B7.

B4. Quality Control

Quality control (QC) activities are technical activities performed on a routine basis to quantify the variability that is inherent to any environmental data measurement activity. The purpose for conducting QC activities is to understand and incorporate the effects the variability may have in the decision-making process. Additionally, the results obtained from the QC analysis, or data quality assessment, may identify areas where the variability can be reduced or eliminated in future data collection efforts, thereby improving the overall quality of the project being implemented.

Quality control (QC) procedures for the NMRAM data collection are designed to ensure that all data generated are consistent, reproducible, and of known and documented quality. QC measures focus on minimizing variability associated with observer interpretation, data entry, and site documentation.

Staff collecting data will consist of those highly trained in the field of hydrology, botany, biology, or other wetland-related science. All staff will be supervised and trained by someone who has extensive experience with NMRAMs, including development of the NMRAM and/or development of NMRAM training materials. Trainers will either be from NHHM, Tetra Tech, or NMED. To ensure consistency across data collection crews, all personnel will also review the existing NMRAM training materials and will collect data in accordance with the procedures as they are defined in the NMRAM Field Guides, Field Sheets and at the training session on the NMED website to ensure consistency of methodology.

For field data collection, all staff will follow the most current NMRAM subclass-specific field manuals, use standardized field forms (either paper or electronic via Esri Survey123 or Fulcrum), and adhere to consistent protocols for metric scoring. Field forms will have built-in controls such as required fields, range checks for numeric inputs, and other checks for invalid input. Several potential metrics lend themselves to observer bias, particularly estimation and measurement of vegetation cover and land use cover. Density estimation sheets are useful for training and calibration of field team members and will be part of the NMRAM Field Guide if other sources are not available. Data will be exported to Excel directly from the application, skipping the need for manual data entry and the potential to introduce additional input errors. Data will be temporarily stored on cloud servers, until an updated version of the NMED Wetlands Database is created. There will be a standardized folder format for placing NMRAM data safely. Deviations from these standards must be well documented in field notes.

The Team Leader will complete a Validation and Verification form for NMRAM data to accompany the field sheet submittal to NHHM and the SWQB Wetlands Program. Should any questions arise, the Team Leader will add a note to the field sheet and record on the Validation and Verification form and contact

the field team member to answer that question. A note on the Validation and Verification form will be added when the inconsistent data entry is resolved.

Quality Control mechanisms are implemented as described under the Information/Data Quality Objectives and Performance/Acceptance Criteria (section A6) as well as the sampling methodologies identified under this QAPP. Additional Quality Control includes the professional expertise of the personnel working under this project.

Tetra Tech will conduct statistical analysis of NMRAM parameter sensitivity. The goal of this analysis is to see relative influence and sensitivity of individual NMRAM metrics on overall wetland condition scores. Results will be used to identify high-influence (informative) metrics, detect redundant or low-sensitivity metrics, support refinement of NMRAM protocols to improve efficiency and defensibility, and inform future data collection priorities for NMED SWQB. The sensitivity analysis will likely be conducted by systematically varying individual metric scores while holding others constant, then evaluating resulting change in overall condition score. This may be done in hypothetical situations or, more likely, will make use of existing scores as a starting basis for the analysis. To perform this all NMRAM datasets will be compiled across wetland subclass, data will be checked for completeness and will be organized by individual metrics scores. NMED will provide spreadsheets that automatically calculate some of the metrics and will provide the JavaScript code for existing NMRAM activated PDF fields sheets. The spreadsheets and final calculations will be reviewed by a team that is qualified in statistical analysis at Tetra Tech. This will ensure repeatable and accurate calculation of the metrics across the many recalculated scores. Once final metric sensitivity rankings are made, the team will review the results and check for reasonableness and consistency.

B5. Instrument/Equipment Calibration, Testing, Inspection, and Maintenance

Calibration and Frequency

Measurements collected by the teams utilizing the NMRAM Montane Riverine Wetland Field Guide will be limited to those that can be collected using a tape measure and level. A shovel or auger are used for soil metrics along with a Munsell Soil Color Book (for color and texture) for the playa wetland NMRAM. These, and related equipment (pins, flags, etc.) generally do not require calibration, inspection or maintenance beyond a basic check prior to use in the field (will not be used if broken or defective). There are no other instruments/equipment that require calibration.

Testing, Inspection, and Maintenance

Photo points, GPS, and NMRAM data collection will be taken on tablet or cell phone and will be visually inspected for damage before and after each use and if any maintenance is necessary, it will be completed prior to the next monitoring trip. No calibration is required for tablet or cell phone. Phone apps such as Survey123 and Fulcrum will be downloaded and regularly checked for any necessary software updates before use in the field.

B6. Inspection/Acceptance of Supplies and Services

The Tetra Tech Technical lead and NHNM Team Coordinator are responsible for preparing any necessary equipment checklists and informing any trainees of needed supplies and equipment for each field sampling trip. Volunteer field sampling supplies are checked at the end of every field trip by the designated Team Leader. Replacement supplies are purchased as needed and checked before the next field trip. All team members are expected to be familiar with the equipment and supplies needed for an individual trip. A copy of the checklist is reviewed and completed during trip planning.

B7. Environmental Information Management

Tetra Tech, NHNM, and SWQB will all be responsible for data management. All data will be converted to electronic format, stored and backed up by all three parties. Data should be uploaded upon return from each field trip and computer hard drives and other file storage will be backed up to cloud servers monthly. Tetra Tech will directly send the SWQB data through email on a monthly basis. Hard copies of field sheets will be scanned and sent to NMED for digital storage.

Data will be sent to the SWQB Project Officer by the end of each field season by Tetra Tech and NHNM typically by the end of November. Data that are the result of Tetra Tech's statistical analysis will be shared in a similar manor by the end of the project period. Upon receiving data, the SWQB Project Officer will store data on the SWQB network drive. The SWQB will retain project documents in accordance with applicable sections of New Mexico's Disposition of Public Records and Non-Records regulation, codified at 1.13.30 New Mexico Administrative Code (NMAC) and Retention and Disposition of Public Records regulations, codified at 1.21.2 NMAC.

GROUP C. ASSESSMENT, RESPONSE ACTIONS, AND OVERSIGHT**C1. Assessment and Response Actions**

The Project Officer will provide project oversight by periodically assisting with and/or reviewing data collection efforts. A review of the baseline data collection and monitoring efforts by the SWQB Project Officer will take place at the end of each monitoring season. The SWQB Project Officer will assess project progress to ensure the QAPP is being implemented, including periodic audits by the Quality Assurance Officer (QAO), as needed. Any problems encountered during the course of this project will be immediately reported to the SWQB Project Officer who will consult with appropriate individuals to determine appropriate action. Should the corrective action impact the project or data quality, the SWQB Project Officer will alert the QAO. If it is discovered that monitoring methodologies must deviate from the approved QAPP, a revised QAPP must be approved before work can be continued. All problems and adjustments to the project plan will be documented in the project file and included in the final report.

C2. Oversight and Reports to Management

Annual reports will be submitted by Tetra Tech and NHNM to the SWQB Project Officer and will include progress of project and any available data. Printouts, status reports or special reports for SWQB or EPA will be prepared upon request. The final report will be submitted to the SWQB Project Officer by January

2027 by Tetra Tech and April 2028 by NHHM. The SWQB Project Officer will be responsible for submitting the final project deliverables to EPA through their Grants Reporting Tracking System.

GROUP D. ENVIRONMENTAL INFORMATION REVIEW AND USABILITY DETERMINATION

D1. Environmental Information Review

Data will be reviewed by the Field Team Supervisor for erroneous data, incomplete data, and transcription errors prior to demobilization from the field site. Data will be considered usable if the requirements of this QAPP were followed and the data is within acceptable range limits as defined under this QAPP. Data that appears incomplete or questionable for the parameter will be flagged for review. Flagged data will be discussed with the SWQB Project Officer to determine the potential cause and usability. If a reasonable justification for use of the data cannot be attained, those data will not be used in analysis and implementation of activities listed under this QAPP unless the data can be recollected and assessed for usability.

Validation and Verification Methods

Tetra Tech, NHHM, and the SWQB will ensure that valid and representative data are acquired. Verification of field sampling and analytical results will be performed by the SWQB project officer. Verification and validation (V&V) of data will occur after every field season using the attached V&V worksheets (Appendix I). In the event questionable data are found, the SWQB Project Officer will consult appropriate personnel to determine the validity of the data. Results of the verification and validation process will be included in the final reports.

D2. Usability Determination

The quality of the data will be adequate to provide a high level of confidence in determining whether the “NMRAM Data Blitz” and “NMRAM Training Materials” is meeting the project goals, as stated in the approved scope of work. If the project adheres the requirements provided in this QAPP, and passes the verification and validation review process, then it will be found to be of high enough quality.

If the project’s results do not meet this requirement, then additional monitoring may be necessary to fill in data, which may include an extension of the monitoring period to measure effects that were not apparent during the project period. If this occurs, this QAPP will be updated and resubmitted for EPA review and approval at that time.

References

- Muldavin, E. H., Milford, E. R., & McGraw, M. M. (2017). *New Mexico Rapid Assessment Method: Playa wetlands field guide (Version 1.2)*. New Mexico Environment Department, Surface Water Quality Bureau.
- Muldavin, E. H., Milford, E. R., & McGraw, M. M. (2021). *New Mexico Rapid Assessment Method: Confined valley riverine wetlands field guide (Version 1.3)*. New Mexico Environment Department, Surface Water Quality Bureau.
- Muldavin, E. H., Milford, E. R., & McGraw, M. M. (2022a). *New Mexico Rapid Assessment Method: Lowland riverine wetlands field guide (Version 2.2)*. New Mexico Environment Department, Surface Water Quality Bureau
- Muldavin, E. H., Milford, E. R., & McGraw, M. M. (2022b). *New Mexico Rapid Assessment Method: Montane riverine wetlands field guide (Version 2.5)*. New Mexico Environment Department, Surface Water Quality Bureau.
- Muldavin, E. H., Milford, E. R., & McGraw, M. M. (2025). *New Mexico Rapid Assessment Method (NMRAM) manual (Version 2.1)*. New Mexico Environment Department, Surface Water Quality Bureau.

Appendix I – Verification and Validation Worksheet

Data and Equipment Verification and Validation Worksheet

Type of Data: _____

Name and Date of Personnel Collecting Data: _____

Data collected according to the appropriate NMRAM manual and field sheet [Y/N]

Verification of Complete Record [Y/N]: _____

Equipment in working order [Y/N]: _____

Checked for anomalous data [Y/N]: _____

Validated by [name of reviewer]: _____

Validated on [Date]: _____

Appendix II – Preliminary Sites

Temporary Site ID	Site Use	Longitude	Latitude	Wetland Subclass
Site-001	Base	-107.407152	34.556723	Lowland Unconfined
Site-002	Base	-104.454595	34.683811	Lowland Unconfined
Site-003	Base	-104.397985	33.42184	Lowland Unconfined
Site-004	Base	-107.239154	34.395303	Lowland Unconfined
Site-005	Base	-106.68589	34.957866	Lowland Unconfined
Site-006	Base	-106.14345	36.111239	Lowland Unconfined
Site-007	Base	-107.271191	33.010462	Lowland Unconfined
Site-008	Base	-106.863153	34.25878	Lowland Unconfined
Site-009	Base	-108.014514	36.702107	Lowland Unconfined
Site-010	Base	-105.59115	36.439455	Lowland Unconfined
Site-011	Base	-107.042367	33.595016	Lowland Unconfined
Site-012	Base	-108.696911	32.727896	Lowland Unconfined
Site-013	Base	-107.636654	36.821214	Lowland Unconfined
Site-014	Base	-105.700301	36.987828	Lowland Unconfined
Site-015	Base	-106.873083	33.782609	Lowland Unconfined
Site-016	Base	-108.611367	32.833764	Lowland Unconfined
Site-017	Base	-107.36222	34.449049	Lowland Unconfined
Site-018	Base	-103.433565	35.192036	Lowland Unconfined
Site-019	Base	-104.30195	34.152321	Lowland Unconfined
Site-020	Base	-106.848526	33.861458	Lowland Unconfined
Site-021	Base	-107.244006	35.647295	Lowland Unconfined
Site-022	Base	-106.049428	36.258888	Lowland Unconfined
Site-023	Base	-107.000458	33.061797	Lowland Unconfined
Site-024	Base	-106.879973	34.259355	Lowland Unconfined
Site-025	Base	-107.935462	36.704636	Lowland Unconfined
Site-026	Base	-105.564841	36.441564	Lowland Unconfined
Site-027	Base	-107.118974	33.502399	Lowland Unconfined
Site-028	Base	-108.843852	32.651761	Lowland Unconfined
Site-029	Base	-107.819075	34.351614	Lowland Unconfined
Site-030	Base	-104.062348	32.025026	Lowland Unconfined
Site-031	Base	-107.050102	34.336978	Lowland Unconfined
Site-032	Base	-108.848504	33.208518	Lowland Unconfined
Site-033	Base	-107.394693	34.441553	Lowland Unconfined
Site-034	Base	-104.479076	36.284341	Lowland Unconfined
Site-035	Base	-104.191163	34.35895	Lowland Unconfined
Site-036	Base	-106.842869	33.84259	Lowland Unconfined
Site-037	Base	-107.181408	35.585441	Lowland Unconfined
Site-038	Base	-105.580509	36.429572	Lowland Unconfined
Site-039	Base	-107.288095	33.086519	Lowland Unconfined

Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs QAPP

Revision 00

Submittal Date: 4/9/2026

Page 32 of 48

Site-040	Base	-106.85142	34.278194	Lowland Unconfined
Site-041	Base	-107.847381	36.704777	Lowland Unconfined
Site-042	Base	-105.564029	36.435188	Lowland Unconfined
Site-043	Base	-107.128782	33.613624	Lowland Unconfined
Site-044	Base	-108.826063	32.707907	Lowland Unconfined
Site-045	Base	-104.465599	34.679791	Lowland Unconfined
Site-046	Base	-104.016586	32.134979	Lowland Unconfined
Site-047	Base	-107.01522	34.332758	Lowland Unconfined
Site-048	Base	-108.433731	33.373444	Lowland Unconfined
Site-049	Base	-107.340274	34.455507	Lowland Unconfined
Site-050	Base	-103.161149	36.241039	Lowland Unconfined
Site-051	Base	-107.200123	34.353146	Montane Unconfined
Site-052	Base	-107.176682	35.20157	Montane Unconfined
Site-053	Base	-106.701486	36.4504	Montane Unconfined
Site-054	Base	-106.657815	36.345681	Montane Unconfined
Site-055	Base	-108.414548	33.375668	Montane Unconfined
Site-056	Base	-105.686683	35.661485	Montane Unconfined
Site-057	Base	-106.811484	36.391391	Montane Unconfined
Site-058	Base	-106.675139	36.355948	Montane Unconfined
Site-059	Base	-107.946743	34.582228	Montane Unconfined
Site-060	Base	-105.725814	36.199187	Montane Unconfined
Site-061	Base	-106.737973	36.545753	Montane Unconfined
Site-062	Base	-106.213823	36.110587	Montane Unconfined
Site-063	Base	-108.165117	35.220223	Montane Unconfined
Site-064	Base	-106.693931	36.399717	Montane Unconfined
Site-065	Base	-106.610412	36.321277	Montane Unconfined
Site-066	Base	-106.117142	36.855109	Montane Unconfined
Site-067	Base	-107.124047	34.288032	Montane Unconfined
Site-068	Base	-106.764965	35.8523	Montane Unconfined
Site-069	Base	-106.745797	36.392328	Montane Unconfined
Site-070	Base	-106.6608	36.350414	Montane Unconfined
Site-071	Base	-108.420002	33.371876	Montane Unconfined
Site-072	Base	-105.692675	35.546972	Montane Unconfined
Site-073	Base	-106.535655	36.447882	Montane Unconfined
Site-074	Base	-106.669804	36.350972	Montane Unconfined
Site-075	Base	-107.924312	34.543953	Montane Unconfined
Site-076	Base	-105.579514	36.295038	Montane Unconfined
Site-077	Base	-106.57512	36.307598	Montane Unconfined
Site-078	Base	-106.19754	36.856937	Montane Unconfined
Site-079	Base	-107.134013	34.498009	Montane Unconfined
Site-080	Base	-106.690168	36.391873	Montane Unconfined
Site-081	Base	-106.642582	36.336134	Montane Unconfined

Site-082	Base	-106.139038	36.85962	Montane Unconfined
Site-083	Base	-107.085123	34.326391	Montane Unconfined
Site-084	Base	-105.612658	32.731401	Montane Unconfined
Site-085	Base	-106.726722	36.49495	Montane Unconfined
Site-086	Base	-106.585013	36.312174	Montane Unconfined
Site-087	Base	-108.457941	33.275882	Montane Unconfined
Site-088	Base	-105.658397	35.814596	Montane Unconfined
Site-089	Base	-106.732994	36.548018	Montane Unconfined
Site-090	Base	-106.679004	36.37151	Montane Unconfined
Site-091	Base	-108.498173	35.481987	Montane Unconfined
Site-092	Base	-105.998785	36.40593	Montane Unconfined
Site-093	Base	-106.617962	36.325604	Montane Unconfined
Site-094	Base	-106.125959	36.853912	Montane Unconfined
Site-095	Base	-107.492469	35.398715	Montane Unconfined
Site-096	Base	-106.698206	36.411151	Montane Unconfined
Site-097	Base	-106.632538	36.335212	Montane Unconfined
Site-098	Base	-106.10738	36.954922	Montane Unconfined
Site-099	Base	-108.822014	33.830655	Montane Unconfined
Site-100	Base	-105.793964	33.416724	Montane Unconfined
Site-101	Over	-105.476579	33.520688	Lowland Unconfined
Site-102	Over	-106.831166	34.133574	Lowland Unconfined
Site-103	Over	-107.088328	35.642657	Lowland Unconfined
Site-104	Over	-105.592169	36.416827	Lowland Unconfined
Site-105	Over	-106.877274	33.763887	Lowland Unconfined
Site-106	Over	-106.780173	34.302084	Lowland Unconfined
Site-107	Over	-107.68808	36.807603	Lowland Unconfined
Site-108	Over	-105.570954	36.428191	Lowland Unconfined
Site-109	Over	-106.853949	33.813521	Lowland Unconfined
Site-110	Over	-108.602782	32.929919	Lowland Unconfined
Site-111	Over	-104.492812	34.69822	Lowland Unconfined
Site-112	Over	-104.38451	33.443263	Lowland Unconfined
Site-113	Over	-107.151763	34.349865	Lowland Unconfined
Site-114	Over	-108.272113	33.23208	Lowland Unconfined
Site-115	Over	-107.730112	34.443687	Lowland Unconfined
Site-116	Over	-104.447025	34.68436	Lowland Unconfined
Site-117	Over	-104.378253	33.462006	Lowland Unconfined
Site-118	Over	-106.625175	33.971716	Lowland Unconfined
Site-119	Over	-106.718591	34.856925	Lowland Unconfined
Site-120	Over	-106.153615	36.140457	Lowland Unconfined
Site-121	Over	-107.276659	33.043389	Lowland Unconfined
Site-122	Over	-106.867957	34.260483	Lowland Unconfined
Site-123	Over	-108.020026	36.697247	Lowland Unconfined

Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs QAPP

Revision 00

Submittal Date: 4/9/2026

Page 34 of 48

Site-124	Over	-105.858067	36.447788	Lowland Unconfined
Site-125	Over	-107.155078	33.438474	Lowland Unconfined
Site-126	Over	-108.697817	32.728877	Lowland Unconfined
Site-127	Over	-107.638206	36.821064	Lowland Unconfined
Site-128	Over	-104.043511	32.248337	Lowland Unconfined
Site-129	Over	-106.852149	33.822314	Lowland Unconfined
Site-130	Over	-108.611818	32.827223	Lowland Unconfined
Site-131	Over	-107.369148	34.449448	Lowland Unconfined
Site-132	Over	-103.453017	35.179006	Lowland Unconfined
Site-133	Over	-104.180276	34.335012	Lowland Unconfined
Site-134	Over	-106.844659	33.844577	Lowland Unconfined
Site-135	Over	-107.246703	35.634122	Lowland Unconfined
Site-136	Over	-106.110345	36.270921	Lowland Unconfined
Site-137	Over	-107.010448	32.99931	Lowland Unconfined
Site-138	Over	-106.8968	34.238379	Lowland Unconfined
Site-139	Over	-107.938898	36.706446	Lowland Unconfined
Site-140	Over	-105.574127	36.44082	Lowland Unconfined
Site-141	Over	-107.1225	33.484797	Lowland Unconfined
Site-142	Over	-108.822868	32.697445	Lowland Unconfined
Site-143	Over	-107.789492	34.422568	Lowland Unconfined
Site-144	Over	-104.015115	32.046725	Lowland Unconfined
Site-145	Over	-107.086762	34.32701	Lowland Unconfined
Site-146	Over	-108.572946	33.085729	Lowland Unconfined
Site-147	Over	-107.325655	34.423527	Lowland Unconfined
Site-148	Over	-104.364395	36.072579	Lowland Unconfined
Site-149	Over	-104.518013	32.452691	Lowland Unconfined
Site-150	Over	-106.847361	33.831388	Lowland Unconfined
Site-151	Over	-107.160399	35.511017	Lowland Unconfined
Site-152	Over	-105.583875	36.43145	Lowland Unconfined
Site-153	Over	-107.168385	33.320648	Lowland Unconfined
Site-154	Over	-106.857971	34.346523	Lowland Unconfined
Site-155	Over	-107.866304	36.705055	Lowland Unconfined
Site-156	Over	-105.565577	36.435064	Lowland Unconfined
Site-157	Over	-106.043576	33.586594	Lowland Unconfined
Site-158	Over	-108.825931	32.739312	Lowland Unconfined
Site-159	Over	-104.468862	34.681702	Lowland Unconfined
Site-160	Over	-104.03731	32.128113	Lowland Unconfined
Site-161	Over	-107.139723	34.345635	Lowland Unconfined
Site-162	Over	-108.434303	33.372301	Lowland Unconfined
Site-163	Over	-107.323069	34.447489	Lowland Unconfined
Site-164	Over	-106.08385	35.770302	Lowland Unconfined
Site-165	Over	-107.225693	32.628346	Lowland Unconfined

Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs QAPP

Revision 00

Submittal Date: 4/9/2026

Page 35 of 48

Site-166	Over	-106.884504	34.210447	Lowland Unconfined
Site-167	Over	-106.991012	35.917492	Lowland Unconfined
Site-168	Over	-105.587226	36.451579	Lowland Unconfined
Site-169	Over	-106.880559	33.760342	Lowland Unconfined
Site-170	Over	-108.830771	32.76907	Lowland Unconfined
Site-171	Over	-107.616944	36.805911	Lowland Unconfined
Site-172	Over	-105.568942	36.436941	Lowland Unconfined
Site-173	Over	-106.851852	33.820186	Lowland Unconfined
Site-174	Over	-108.602875	32.822809	Lowland Unconfined
Site-175	Over	-104.515897	34.713721	Lowland Unconfined
Site-176	Over	-104.385772	33.44102	Lowland Unconfined
Site-177	Over	-107.230974	34.381009	Lowland Unconfined
Site-178	Over	-108.233282	33.214641	Lowland Unconfined
Site-179	Over	-107.378428	34.491648	Lowland Unconfined
Site-180	Over	-104.447492	34.688622	Lowland Unconfined
Site-181	Over	-104.393561	33.457659	Lowland Unconfined
Site-182	Over	-106.836282	33.855067	Lowland Unconfined
Site-183	Over	-106.718294	34.854799	Lowland Unconfined
Site-184	Over	-105.902233	36.017707	Lowland Unconfined
Site-185	Over	-107.420485	33.011758	Lowland Unconfined
Site-186	Over	-106.873666	34.257793	Lowland Unconfined
Site-187	Over	-108.034223	36.692589	Lowland Unconfined
Site-188	Over	-105.53853	36.443668	Lowland Unconfined
Site-189	Over	-107.165157	33.429939	Lowland Unconfined
Site-190	Over	-108.812252	32.65968	Lowland Unconfined
Site-191	Over	-107.652554	36.827202	Lowland Unconfined
Site-192	Over	-103.970172	32.187834	Lowland Unconfined
Site-193	Over	-107.025445	34.335017	Lowland Unconfined
Site-194	Over	-107.956904	32.841997	Lowland Unconfined
Site-195	Over	-107.383285	34.446984	Lowland Unconfined
Site-196	Over	-104.447527	35.572117	Lowland Unconfined
Site-197	Over	-104.190189	34.335387	Lowland Unconfined
Site-198	Over	-106.846752	33.843302	Lowland Unconfined
Site-199	Over	-107.255452	35.677416	Lowland Unconfined
Site-200	Over	-106.094961	36.295861	Lowland Unconfined
Site-201	Over	-107.421943	33.243747	Lowland Unconfined
Site-202	Over	-106.870348	34.277496	Lowland Unconfined
Site-203	Over	-107.961258	36.708519	Lowland Unconfined
Site-204	Over	-105.575307	36.443946	Lowland Unconfined
Site-205	Over	-107.128432	33.478827	Lowland Unconfined
Site-206	Over	-108.824898	32.696132	Lowland Unconfined
Site-207	Over	-107.792499	34.422263	Lowland Unconfined

Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs QAPP

Revision 00

Submittal Date: 4/9/2026

Page 36 of 48

Site-208	Over	-104.017689	32.072404	Lowland Unconfined
Site-209	Over	-107.042595	34.343081	Lowland Unconfined
Site-210	Over	-108.523341	33.062007	Lowland Unconfined
Site-211	Over	-107.279258	34.414039	Lowland Unconfined
Site-212	Over	-104.361278	36.037403	Lowland Unconfined
Site-213	Over	-104.792935	33.019773	Lowland Unconfined
Site-214	Over	-106.836868	33.864712	Lowland Unconfined
Site-215	Over	-107.129625	35.533302	Lowland Unconfined
Site-216	Over	-105.580413	36.434948	Lowland Unconfined
Site-217	Over	-107.170323	33.371172	Lowland Unconfined
Site-218	Over	-106.857387	34.326111	Lowland Unconfined
Site-219	Over	-107.81065	36.746078	Lowland Unconfined
Site-220	Over	-105.561302	36.432185	Lowland Unconfined
Site-221	Over	-106.074226	33.561284	Lowland Unconfined
Site-222	Over	-108.825673	32.728518	Lowland Unconfined
Site-223	Over	-104.477072	34.680032	Lowland Unconfined
Site-224	Over	-104.038325	32.116188	Lowland Unconfined
Site-225	Over	-107.135199	34.340683	Lowland Unconfined
Site-226	Over	-108.442389	33.375743	Lowland Unconfined
Site-227	Over	-107.149034	34.75843	Lowland Unconfined
Site-228	Over	-106.118996	35.778048	Lowland Unconfined
Site-229	Over	-107.27417	33.015565	Lowland Unconfined
Site-230	Over	-106.858638	34.269976	Lowland Unconfined
Site-231	Over	-106.403243	36.232797	Lowland Unconfined
Site-232	Over	-105.59096	36.450206	Lowland Unconfined
Site-233	Over	-106.991788	33.653794	Lowland Unconfined
Site-234	Over	-108.827096	32.787886	Lowland Unconfined
Site-235	Over	-107.616003	36.804926	Lowland Unconfined
Site-236	Over	-105.559852	36.426933	Lowland Unconfined
Site-237	Over	-106.856342	33.808984	Lowland Unconfined
Site-238	Over	-108.602986	32.814141	Lowland Unconfined
Site-239	Over	-104.52108	34.712269	Lowland Unconfined
Site-240	Over	-104.394256	33.436096	Lowland Unconfined
Site-241	Over	-107.217421	34.376934	Lowland Unconfined
Site-242	Over	-108.793528	33.62774	Lowland Unconfined
Site-243	Over	-107.35501	34.451911	Lowland Unconfined
Site-244	Over	-104.454829	34.685943	Lowland Unconfined
Site-245	Over	-104.391211	33.456756	Lowland Unconfined
Site-246	Over	-106.845247	33.854223	Lowland Unconfined
Site-247	Over	-107.220447	35.723797	Lowland Unconfined
Site-248	Over	-106.32481	36.21276	Lowland Unconfined
Site-249	Over	-107.29163	32.891814	Lowland Unconfined

Site-250	Over	-106.876068	34.258644	Lowland Unconfined
Site-251	Over	-107.914118	36.708915	Lowland Unconfined
Site-252	Over	-105.567569	36.444567	Lowland Unconfined
Site-253	Over	-107.153001	33.439756	Lowland Unconfined
Site-254	Over	-108.818339	32.655742	Lowland Unconfined
Site-255	Over	-107.666414	36.815094	Lowland Unconfined
Site-256	Over	-104.035556	32.022634	Lowland Unconfined
Site-257	Over	-107.039276	34.335855	Lowland Unconfined
Site-258	Over	-108.81677	33.207768	Lowland Unconfined
Site-259	Over	-107.400711	34.440962	Lowland Unconfined
Site-260	Over	-104.466925	35.690908	Lowland Unconfined
Site-261	Over	-104.18525	34.338958	Lowland Unconfined
Site-262	Over	-106.849448	33.835503	Lowland Unconfined
Site-263	Over	-107.205925	35.604639	Lowland Unconfined
Site-264	Over	-105.587256	36.415074	Lowland Unconfined
Site-265	Over	-107.281312	33.09151	Lowland Unconfined
Site-266	Over	-106.856192	34.317605	Lowland Unconfined
Site-267	Over	-107.957429	36.881134	Lowland Unconfined
Site-268	Over	-105.576584	36.441697	Lowland Unconfined
Site-269	Over	-107.17878	33.599053	Lowland Unconfined
Site-270	Over	-108.826108	32.68517	Lowland Unconfined
Site-271	Over	-108.113345	36.69537	Lowland Unconfined
Site-272	Over	-104.038458	32.088162	Lowland Unconfined
Site-273	Over	-107.018826	34.331337	Lowland Unconfined
Site-274	Over	-108.523909	33.060863	Lowland Unconfined
Site-275	Over	-107.329116	34.452287	Lowland Unconfined
Site-276	Over	-104.328546	36.44507	Lowland Unconfined
Site-277	Over	-105.879203	33.496388	Lowland Unconfined
Site-278	Over	-106.847922	33.867982	Lowland Unconfined
Site-279	Over	-106.972477	35.232724	Lowland Unconfined
Site-280	Over	-105.584785	36.43245	Lowland Unconfined
Site-281	Over	-106.947818	33.108959	Lowland Unconfined
Site-282	Over	-106.859189	34.328096	Lowland Unconfined
Site-283	Over	-107.798524	36.744044	Lowland Unconfined
Site-284	Over	-105.557471	36.438933	Lowland Unconfined
Site-285	Over	-106.861429	33.796646	Lowland Unconfined
Site-286	Over	-108.601309	32.930083	Lowland Unconfined
Site-287	Over	-104.479524	34.688446	Lowland Unconfined
Site-288	Over	-104.399766	33.403423	Lowland Unconfined
Site-289	Over	-107.130092	34.342251	Lowland Unconfined
Site-290	Over	-108.244724	33.2253	Lowland Unconfined
Site-291	Over	-106.940745	34.7534	Lowland Unconfined

Wetlands Data Collection Blitz and Statistical Analysis of NMRAMs QAPP

Revision 00

Submittal Date: 4/9/2026

Page 38 of 48

Site-292	Over	-106.144235	36.064967	Lowland Unconfined
Site-293	Over	-107.277382	33.006609	Lowland Unconfined
Site-294	Over	-106.861348	34.262181	Lowland Unconfined
Site-295	Over	-108.033278	36.691608	Lowland Unconfined
Site-296	Over	-105.589236	36.442829	Lowland Unconfined
Site-297	Over	-106.990294	33.648545	Lowland Unconfined
Site-298	Over	-108.920374	32.639784	Lowland Unconfined
Site-299	Over	-107.64912	36.825384	Lowland Unconfined
Site-300	Over	-105.568324	36.419813	Lowland Unconfined
Site-301	Over	-106.871293	33.780623	Lowland Unconfined
Site-302	Over	-108.604118	32.811851	Lowland Unconfined
Site-303	Over	-104.444576	34.675945	Lowland Unconfined
Site-304	Over	-104.388295	33.436533	Lowland Unconfined
Site-305	Over	-107.235527	34.391344	Lowland Unconfined
Site-306	Over	-108.761748	33.733961	Lowland Unconfined
Site-307	Over	-106.687686	34.965235	Lowland Unconfined
Site-308	Over	-107.277334	32.995817	Lowland Unconfined
Site-309	Over	-108.010814	36.703555	Lowland Unconfined
Site-310	Over	-107.05784	33.587054	Lowland Unconfined
Site-311	Over	-103.446013	35.185885	Lowland Unconfined
Site-312	Over	-106.841962	33.852376	Lowland Unconfined
Site-313	Over	-106.029799	36.328219	Lowland Unconfined
Site-314	Over	-106.895293	34.254681	Lowland Unconfined
Site-315	Over	-105.568575	36.440192	Lowland Unconfined
Site-316	Over	-108.824165	32.677813	Lowland Unconfined
Site-317	Over	-107.420549	34.435777	Lowland Unconfined
Site-318	Over	-104.470462	32.270937	Lowland Unconfined
Site-319	Over	-107.339775	35.655351	Lowland Unconfined
Site-320	Over	-107.289524	33.075582	Lowland Unconfined
Site-321	Over	-107.863475	36.702106	Lowland Unconfined
Site-322	Over	-105.998773	33.295306	Lowland Unconfined
Site-323	Over	-103.161934	36.961842	Lowland Unconfined
Site-324	Over	-106.883903	34.211581	Lowland Unconfined
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Site-327	Over	-104.444871	34.68559	Lowland Unconfined
Site-328	Over	-106.842891	33.821031	Lowland Unconfined
Site-329	Over	-105.994843	35.959448	Lowland Unconfined
Site-330	Over	-106.871862	34.261194	Lowland Unconfined
Site-331	Over	-107.640088	36.823033	Lowland Unconfined
Site-332	Over	-107.105013	34.289702	Lowland Unconfined
Site-333	Over	-107.380871	34.446143	Lowland Unconfined

Site-334	Over	-104.182425	34.333786	Lowland Unconfined
Site-335	Over	-107.307647	35.653052	Lowland Unconfined
Site-336	Over	-106.432005	32.763639	Lowland Unconfined
Site-337	Over	-104.020526	32.034485	Lowland Unconfined
Site-338	Over	-108.501309	33.06984	Lowland Unconfined
Site-339	Over	-104.38005	36.073622	Lowland Unconfined
Site-340	Over	-106.84976	33.821461	Lowland Unconfined
Site-341	Over	-105.586427	36.42695	Lowland Unconfined
Site-342	Over	-106.860086	34.334475	Lowland Unconfined
Site-343	Over	-104.462806	34.682142	Lowland Unconfined
Site-344	Over	-107.132193	34.340971	Lowland Unconfined
Site-345	Over	-107.312211	34.805183	Lowland Unconfined
Site-346	Over	-107.039266	32.692054	Lowland Unconfined
Site-347	Over	-104.390645	33.437436	Lowland Unconfined
Site-348	Over	-108.233856	33.213499	Lowland Unconfined
Site-349	Over	-107.352	34.452205	Lowland Unconfined
Site-350	Over	-104.379059	33.455493	Lowland Unconfined
Site-351	Over	-105.55838	36.439934	Lowland Unconfined
Site-352	Over	-108.828053	32.655722	Lowland Unconfined
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Site-357	Over	-107.972968	36.703041	Lowland Unconfined
Site-358	Over	-107.108906	33.521714	Lowland Unconfined
Site-359	Over	-108.459794	35.49804	Lowland Unconfined
Site-360	Over	-106.938551	34.307702	Lowland Unconfined
Site-361	Over	-107.266317	34.41422	Lowland Unconfined
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Site-363	Over	-105.5572	36.436808	Lowland Unconfined
Site-364	Over	-108.827358	32.725079	Lowland Unconfined
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Site-368	Over	-106.86053	33.801043	Lowland Unconfined
Site-369	Over	-104.442889	34.681437	Lowland Unconfined
Site-370	Over	-107.244882	34.397981	Lowland Unconfined
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Site-373	Over	-107.924354	36.708972	Lowland Unconfined
Site-374	Over	-107.122829	33.49771	Lowland Unconfined
Site-375	Over	-107.672288	36.81237	Lowland Unconfined

Site-376	Over	-107.042586	34.337694	Lowland Unconfined
Site-377	Over	-105.591721	36.4072	Lowland Unconfined
Site-378	Over	-106.843307	34.280032	Lowland Unconfined
Site-379	Over	-105.556389	36.430431	Lowland Unconfined
Site-380	Over	-108.822822	32.720182	Lowland Unconfined
Site-381	Over	-104.020378	32.143328	Lowland Unconfined
Site-382	Over	-108.496418	33.076866	Lowland Unconfined
Site-383	Over	-107.064507	35.659958	Lowland Unconfined
Site-384	Over	-107.460629	33.482726	Lowland Unconfined
Site-385	Over	-107.673508	36.810099	Lowland Unconfined
Site-386	Over	-106.851259	33.815931	Lowland Unconfined
Site-387	Over	-104.480569	34.684074	Lowland Unconfined
Site-388	Over	-107.176771	34.364697	Lowland Unconfined
Site-389	Over	-105.591055	36.44483	Lowland Unconfined
Site-390	Over	-108.751559	32.695771	Lowland Unconfined
Site-391	Over	-105.752353	36.567063	Lowland Unconfined
Site-392	Over	-108.602421	32.815286	Lowland Unconfined
Site-393	Over	-105.567762	36.433815	Lowland Unconfined
Site-394	Over	-108.594724	32.799913	Lowland Unconfined
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Acknowledgement Statement



New Mexico Environment Department Surface Water Quality Bureau

2026 Wetlands Data Collection Blitz and Statistical Analysis of New Mexico Rapid Assessment Methods **Quality Assurance Project Plan Acknowledgement Statement**

This is to acknowledge that I have received a copy (in hard copy or electronic format) of the “2026 Wetlands Data Collection Blitz and Statistical Analysis of New Mexico Rapid Assessment Methods” Quality Assurance Project Plan.

As indicated by my signature below, I understand and acknowledge that it is my responsibility to read, understand, become familiar with and comply with the information provided in the document to the best of my ability.

Signature or Electronic Signature (e-certified accepted)

Name (Please Print)

Date

Return to SWQB QAO Emily Miller