

RESOLUTION OF THE  
NAABIK'ÍYÁTI' STANDING COMMITTEE  
25<sup>th</sup> NAVAJO NATION COUNCIL -- Third Year, 2025

AN ACTION RELATING TO RESOURCES AND DEVELOPMENT AND NAABIK'ÍYÁTI' COMMITTEES; APPROVING AND AUTHORIZING THE RENEWAL OF A CONTRACT BETWEEN THE NAVAJO AGRICULTURAL PRODUCTS INDUSTRY, INC. (NAPI) AND THE UNITED STATES DEPARTMENT OF THE INTERIOR UNDER 25 U.S.C. §§ 5301 *ET SEQ.* (P.L. 93-638 INDIAN SELF-DETERMINATION AND EDUCATION ASSISTANCE ACT, AS AMENDED), FOR A FIVE-YEAR TERM BEGINNING ON JANUARY 1, 2026 AND ENDING ON DECEMBER 31, 2030, FOR THE OPERATION AND MAINTENANCE, ON-FARM DEVELOPMENT, AGRICULTURAL TESTING AND RESEARCH LABORATORY, AND WATER QUALITY MONITORING ON THE NAVAJO INDIAN IRRIGATION PROJECT; APPROVING AND AUTHORIZING THE FISCAL YEAR AGREEMENT AND SCOPE OF WORK FOR THE PERIOD OF THE CONTRACT TERM

BE IT ENACTED:

SECTION ONE. AUTHORITY

- A. The Resources and Development Committee has oversight over agriculture and the Navajo Agricultural Products Industry, Inc. 5 N.N.C. § 1604.
- B. The Naabik'íyáti' Committee of the Navajo Nation Council is authorized to approve contracts between the Navajo Nation and the United States Department of Interior for the implementation of the Indian Self-Determination and Education Assistance Act, 25 U.S.C. § 5301 *et seq.* (P. L. 93-638 as amended). 2 N.N.C. § 701(A)(11).

SECTION TWO. FINDINGS

- A. The Navajo Agricultural Products, Inc. is seeking approval of the Indian Self-Determination and Education Assistance Act, 25 U.S.C. § 5301 *et seq.* (P.L. 93-638, as amended) contract, including the Annual Funding Agreement and Scope of Work, attached as **Exhibit A**, with the United States Department of the Interior to fund the Operation and Maintenance, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring on the Navajo Indian Irrigation Project, for a five-year term beginning on January 1, 2026 and ending on December 31, 2030.
- B. A supporting resolution from the Navajo Agricultural Products, Inc. Board of Directors is attached as **Exhibit B**.

**SECTION THREE. APPROVAL**

- A. The Navajo Nation approves and authorizes a contract on behalf of the Navajo Nation between the Navajo Agricultural Products Industry, Inc. and the United States Department of the Interior under 25 U.S.C. § 5301 et seq. (Indian Self-Determination and Education Assistance Act, P. L. 93-638, as amended), for a five year term beginning January 1, 2026 through December 31, 2030 for the Operation and Maintenance, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring on the Navajo Indian Irrigation Project, herein attached as **Exhibit A**.
- B. The Navajo Nation hereby approves and authorizes the Annual Funding Agreement and Scope of Work for the Operation and Maintenance, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring on the Navajo Indian Irrigation Project, for the contract term as set forth in the documents attached as **Exhibit A**.
- C. The Navajo Nation authorizes the Navajo Nation President to execute and effectuate the Contract, Annual Funding Agreement and Scope of Work, provided the terms and conditions in such documents are substantially similar to those approved by this resolution.

**CERTIFICATION**

I, hereby certify that the foregoing resolution was duly considered by the Naabik'íyáti' Committee of the 25<sup>th</sup> Navajo Nation Council at a duly called meeting in Window Rock, Navajo Naton (Arizona), at which a quorum was present and that the same was passed by a vote of 20 in Favor, and 00 Opposed, on this 25<sup>th</sup> day of September 2025.



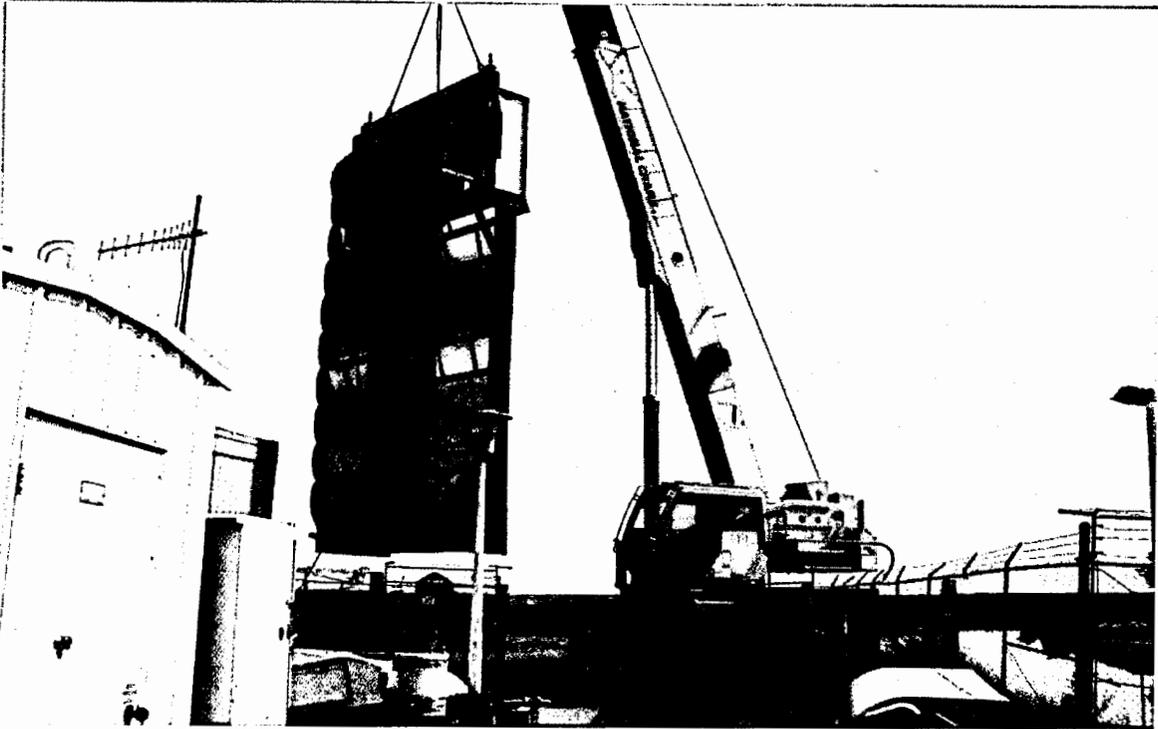
Honorable Crystalyne Curley, Chairwoman  
Naabik'íyáti' Committee

9/29/2025

Date

Motion: Honorable Brenda Jesus  
Second: Honorable Nathan Notah

Chairwoman Crystalyne Curley not voting



**Proposed Five-Year Annual Funding  
Agreement  
&  
CY 2026 Scope of Work  
NAVAJO AGRICULTURAL PRODUCTS INDUSTRY  
P.L. 93-638 Departments  
Operations, Maintenance & Replacement  
On-Farm Development  
ATRL- Soils Lab  
Contract No. A26AVxxxxxx**

02/11/2025

**CONTRACT NO. A26AVxxxxx  
Renewal/Recontract Contract**

**AGREEMENT BETWEEN THE SECRETARY AND THE NAVAJO AGRICULTURAL PRODUCTS INDUSTRY**

**(a) AUTHORITY AND PURPOSE**

**(1) AUTHORITY**

This agreement, denoted a Self-Determination Contract (referred to in this agreement as the "Contract"), is entered into by the Secretary of the Interior (referred to in this agreement as the "Secretary"), for and on behalf of the United States pursuant to Title I of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5301 et seq.) and by the authority of the *Navajo Agricultural Product Industry (NAPI)* (referred to in this agreement as the "Contractor"). The provisions of title I of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450 et seq.) are incorporated in this agreement.

**(2) PURPOSE**

Each provision of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5301 et seq.) and each provision of this Contract shall be liberally construed for the benefit of the Contractor to transfer the funding and the following related functions, services, activities, and programs (or portions thereof), that are otherwise contractible under section 102(a) of such Act, including all related administrative functions, from the Federal Government to the Contractor:

**PROGRAM:** Operation Maintenance and Replacement; On-farm Development; and Agricultural Testing and Research Laboratory Programs and Water Quality Monitoring

**(b) TERMS, PROVISIONS, AND CONDITIONS**

**(1) TERM**

Pursuant to section 105(c)(1) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5324(c)(1)), the term of this contract shall be a **Mature Definite Term of Five-Years beginning January 1, 2026, through December 31, 2030 on the basis of Calendar Year**. Pursuant to section 105(d)(1) of such Act (25 U.S.C. 5324(d)), upon the election by the Contractor, the period of this Contract shall be determined on the basis of a **Calendar Year**, unless the Secretary and the Contractor agree on a different period in the annual funding fiscal year agreement incorporated by reference in subsection (f)(2).

(2) EFFECTIVE DATE

This Contract shall become effective upon the date of the approval and executive by the Contractor and the Secretary, unless the Contractor and the Secretary agree on an effective date other than the date specified in this paragraph.

(3) PROGRAM STANDARD

The Contractor agrees to administer the program, services, functions and activities (or portions thereof) listed in subsection (a)(2) of the Contract in conformity with the following standards:

**Irrigation Operations and Maintenance on Indian Lands:** [25 USC 13, 25 USC 5301; 31 USC 63; Indian Dams Safety Act of 1994, Pub. L. 103-1560, 108 Stat. 1560; American Indian Agriculture Resource Management, Publ. L. 103-177, 107 Stat 2011, 25 USC 3701; Act of November 4, 1983, Pub. L. 98-140; Pub. L. 103-301, 60 STAT 895, 25 USC 162a; and 76 Stat. 96] The Programs to conserve water and operate and maintain the irrigation water delivery systems on Indian irrigation projects and maintain the dams in a safe economical, beneficial, and equitable manner, including the follows:

1. American Society of Agricultural Engineers (ASAE) Standard S-376;
2. ASAE Standard 5376;
3. North American Proficiency Testing;
4. National forage Testing Association;
5. National Environmental Policy Act;
6. 25 CFR 169 Rights-of-Way over Indian Lands
7. 25 CFR 162 Leases and Permits
8. Occupational Safety and Health Acts (OSHA) of 1970
9. National Electrical Code
10. ASTM International
11. American Concrete Institute (ACI)
12. American Water Works Association (AWWA)

(4) FUNDING AMOUNT

Subject to the availability of appropriations, the Secretary shall make available to the Contractor the total amount specified in the annual funding agreement incorporated by reference in subsection (f)(2). Such amount shall not be less than the applicable amount determined pursuant to section 106(a) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5301(a)).

(5) LIMITATION OF COSTS

The Contractor shall not be obligated to continue performance that requires an expenditure of funds in excess of the amount of funds awarded under this Contract. If, at any time, the Contractor has reason to believe that the total amount required for performance of this Contract or a specific activity conducted under this Contract would be greater than the amount of funds awarded under this Contract, the Contractor shall provide reasonable notice to the appropriate Secretary. If the appropriate Secretary does not take such action as may be necessary to increase the amount of funds awarded under this Contract, the Contractor may suspend performance of the Contract until such time as additional funds are awarded.

(6) PAYMENT

(A) IN GENERAL – Payments to the Contractor under this Contract shall

- (i) be made as expeditiously as practicable; and
- (ii) include financial arrangements to cover funding during periods covered by joint resolutions adopted by Congress making continuing appropriations, to the extent permitted by such resolutions.

(B) QUARTERLY, SEMIANNUAL, LUMP-SUM, AND OTHER METHODS OF PAYMENT

(i) IN GENERAL - Pursuant to section 108(b) of the Indian Self-Determination and Education Assistance Act, and notwithstanding any other provision of law, for each fiscal year covered by this Contract, the Secretary shall make available to the Contractor the funds specified for the fiscal year under the annual funding agreement incorporated by reference pursuant to subsection (f)(2) by paying to the Contractor, on a quarterly basis, one-quarter of the total amounts provided for in the annual funding agreement for that fiscal year, in a lump-sum payment or as semiannual payments, or any other method of payment authorized by law, in accordance with such method as may be requested by the Contractor and specified in the annual funding agreement.

(ii) METHOD OF QUARTERLY PAYMENT - If quarterly payments are specified in the annual funding agreement incorporated by reference pursuant to subsection (f)(2), each quarterly payment made pursuant to clause (i) shall be on the first day of each quarter of the fiscal year, except that in any case in which the Contract year coincides with the Federal fiscal year, payment for the first quarter shall be made not later than the date that is 10 calendar days after the date on which the Office of Management and Budget apportions the appropriations for the fiscal year for the programs, services, functions, and activities subject to this Contract.

(iii) APPLICABILITY – Chapter 39 of title 31, United States Code, shall apply to the payment of funds due under this Contract and the annual funding agreement referred to in clause (i).

(7) RECORDS AND MONITORING

- (A) IN GENERAL - Except for previously provided copies of tribal records that the Secretary demonstrates are clearly required to be maintained as part of the recordkeeping system of the Department of the Interior, records of the Contractor shall not be considered Federal records for purposes of chapter 5 of title 5, United States Code.
- (B) RECORD KEEPING SYSTEM - The Contractor shall maintain a recordkeeping system and, upon reasonable advance request, provide reasonable access to such records to the Secretary.
- (C) RESPONSIBILITIES OF CONTRACTOR - The Contractor shall be responsible for managing the day-to-day operations conducted under this Contract and for monitoring activities conducted under this Contract to ensure compliance with the Contract and applicable Federal requirements. With respect to the monitoring activities of the Secretary, the routine monitoring visits shall be limited to not more than one performance monitoring visit for this Contract by the head of each operating division, departmental bureau, or departmental agency, or duly authorized representative of such head unless--
- (i) the Contractor agrees to one or more additional visits; or
  - (ii) the appropriate official determines that there is reasonable cause to believe that grounds for reassumption of the Contract, suspension of Contract payments, or other serious Contract performance deficiency may exist.

No additional visit referred to in clause (ii) shall be made until such time as reasonable advance notice that includes a description of the nature of the problem that requires the additional visit has been given to the Contractor.

(8) PROPERTY

- (A) IN GENERAL - As provided in section 105(f) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5324(f)), at the request of the contractor, the Secretary may make available, or transfer to the Contractor, all reasonably divisible, real property, facilities, equipment, and personal property that the Secretary has used to provide or administer the programs, services, functions, and activities covered by this Contract. A mutually agreed upon list specifying the property, facilities, and equipment so furnished shall also be prepared by the

Secretary, with the concurrence of the Contractor, and periodically revised by the Secretary, with the concurrence of the Contractor.

- (B) RECORDS - The Contractor shall maintain a record of all property referred to in subparagraph (A) or other property acquired by the Contractor under section 105 (f) (2)(A) of such Act for purposes of replacement.
  - (C) JOINT USE AGREEMENTS - Upon the request of the Contractor, the Secretary and the Contractor shall enter into a separate joint use agreement to address the shared use by the parties of real or personal property that is not reasonably by divisible.
  - (D) ACQUISITION OR PROPERTY - The Contractor is granted the authority to acquire such excess property as the Contractor may determine to be appropriate in the judgment of the Contractor to support the programs, services, functions, and activities operated pursuant to this Contract.
  - (E) CONFISCATED OR EXCESS PROPERTY - The Secretary shall assist the Contractor in obtaining such confiscated or excess property as may become available to tribes, tribal organizations, or local governments.
  - (F) SCREENER IDENTIFICATION CARD - A screener identification card (General Services Administration form numbered 2946) shall be issued to the Contractor not later than the effective date of this Contractor. The designated official shall, upon request, assist the Contractor in securing the use of the card.
  - (G) CAPITAL EQUIPMENT - The Contractor shall determine the capital equipment, leases, rentals, property, or services the Contractor requires to perform the obligations of the Contractor under this subsection, and shall acquire and maintain records of such capital equipment, property rentals, leases, property, or services through applicable procurement procedures of the Contractor.
- (9) AVAILABILITY OF FUNDS  
Notwithstanding any other provision of law, any funds provided under this Contract
- (A) shall remain available until expended; and
  - (B) with respect to such funds, no further

- (i) approval by the Secretary, or
  - (ii) justifying documentation from the Contractor shall be required prior to the expenditure of such funds.
  
- (10) **TRANSPORTATION**  
Beginning on the effective date of this Contract, the Secretary shall authorize the Contractor to obtain interagency motor pool vehicles and related services for performance of any activities carried out under this contract.
  
- (11) **FEDERAL PROGRAM GUIDELINES, MANUALS, OR POLICY DIRECTIVES**  
Except as specifically provided in the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5301 et seq.) the Contractor is not required to abide by program guidelines, manuals, or policy directives of the Secretary, unless otherwise agreed to by the Contractor and the Secretary, or otherwise required by law.
  
- (12) **DISPUTES**
  - (A) **THIRD PARTY MEDIATION DEFINED** - For the purposes of this Contract, the term "third-party mediation" means a form of mediation whereby the Secretary and the Contractor nominate a third party who is not employed by or significantly involved with the Secretary of the Interior, the Secretary of Health and Human Services, or the Contractor, to serve as a third-party mediator to mediate disputes under this Contract.
  
  - (B) **ALTERNATIVE PROCEDURES** - In addition to, or as an alternative to, remedies and procedures prescribed by section 110 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450m-1), the parties to this Contract may jointly
    - (i) submit disputes under this Contract to third-party mediation;
    - (ii) submit the dispute to the adjudicatory body of the Contractor, including the tribal court of the Contractor;
    - (iii) submit the dispute to mediation processes provided for under the law, policies, or procedures of the Contractor; or
    - (iv) use the administrative dispute resolution processes authorized in subchapter IV of chapter 5 of title 5, United States Code.

- (C) EFFECT OF DECISIONS - The Secretary shall be bound by decisions made pursuant to the processes set forth in subparagraph (B), except that the Secretary shall not be bound by any decision that significantly conflicts with the interests of Indians or the United States.
- (13) ADMINISTRATIVE PROCEDURES OF CONTRACTOR  
Pursuant to the Indian Civil Rights Act of 1968 (25 U.S.C. 1301 et seq.), the laws, policies, and procedures of the Contractor shall provide for administrative due process (or the equivalent of administrative due process) with respect to programs, services, functions, and activities that are provided by the Contractor pursuant to this Contract.
- (14) SUCCESSOR ANNUAL FUNDING AGREEMENT
- (A) IN GENERAL - Negotiations for a successor annual funding agreement, provided for in subsection (f)(2), shall begin no later than 120 days prior to the conclusion of the preceding annual funding agreement. Except as provided in section 105(c)(2) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5324j(c)(2) the funding for each such successor annual funding agreement shall only be reduced pursuant to section 106 (b) of such Act (25 U.S.C. 53241j-1(b)).
  - (C) INFORMATION - The Secretary shall prepare and supply relevant information, and promptly comply with any request by the Contractor for information that the Contractor reasonably needs to determine the amount of funds that may be available for a successor annual funding agreement, as provided for in subsection (f)(2) of this Contract.
- (15) CONTRACT REQUIREMENTS; APPROVAL BY SECRETARY
- (A) IN GENERAL - Except as provided in subparagraph (B), for the term of the Contract, section 2103 of the Revised Statutes (25 U.S.C. 81) and section 16 of the Act of June 18, 1934 (48 Stat.987, chapter 576; 25 U.S.C. 476), shall not apply to any contract entered in connection with this Contract.
  - (B) REQUIREMENTS - Each Contract entered into by the Contractor with a third party in connection with performing the obligations of the Contractor under this Contract shall --
    - (i) be in writing;

- (ii) identify the interest parties, the authorities of such parties, and purposes of the Contract;
- (iii) state the work to be performed under the Contract; and
- (iv) state the process for making any claim, the payments to be made, and the terms of the Contract, which shall be fixed.

**(c) OBLIGATION OF THE CONTRACTOR**

**(1) CONTRACT PERFORMANCE**

Except as provided in subsection (d)(2), the Contractor shall perform the programs, services, functions, and activities as provided in the annual funding agreement under subsection (f)(2) of this Contract.

**(2) AMOUNT OF FUNDS**

The total amount of funds to be paid under this Contract pursuant to section 106(a) shall be determined in an annual funding agreement entered into between the Secretary and the Contractor, which shall be incorporated into this Contract.

**(3) CONTRACTED PROGRAMS**

Subject to the availability of appropriated funds, the Contractor shall administer the programs, services, function, and activities identified in this Contract and funding through the annual funding agreement under subsection (f)(2).

**(4) TRUST SERVICES FOR INDIVIDUAL INDIANS**

**(A) IN GENERAL** - To the extent that the annual funding agreement provides funding for the delivery of trust services to individual Indians that have been provided by the Secretary, the Contractor shall maintain at least the same level of service as the Secretary provided for such individual Indians, subject to the availability of appropriated funds for such services.

**(B) TRUST SERVICES TO INDIVIDUAL INDIANS** - For the purposes of this paragraph only, the term 'trust services for individual Indians' means only those services that pertain to land or financial management connected to individually held allotments.

**(5) FAIR AND UNIFORM SERVICES**

The Contractor shall provide services under this Contract in a fair and uniform manner and shall provide access to an administrative or judicial body empowered to adjudicate or otherwise resolve complaints, claims and grievances brought by program beneficiaries against the Contractor arising out of the performance of the Contract.

**(d) OBLIGATION OF THE UNITED STATES**

**(1) TRUST RESPONSIBILITY**

(A) **IN GENERAL** - The United States reaffirms the trust responsibility of the United States to *Navajo Nation* to protect and conserve the trust resources of the Indian tribe(s) and the trust resources of individual Indians.

(B) **CONSTRUCTION OF CONTRACT** - Nothing in this Contract may be construed to terminate, waive, modify, or reduce the responsibility of the United States to the tribe(s) or individual Indians. The Secretary shall act in good faith in upholding such trust responsibility.

**(2) GOOD FAITH**

To extend that health programs are included in this Contract, and within available funds, the Secretary shall act in good faith in cooperating with the Contractor to achieve the goals set forth in the Indian Health Care Improvement Act (25 U.S.C. 1601 et seq.).

**(3) PROGRAMS RETAINED**

As specified in the annual funding agreement, the United States hereby retains the programs, services, functions, and activities with respect to the tribe(s) that are not specifically assumed by the Contractor in the annual funding agreement under subsection (f) (2).

**(e) OTHER PROVISIONS**

**(1) DESIGNATED OFFICIALS**

Not later than the effective date of this Contract, the United States shall provide to the Contractor, and the contractor shall provide to the United States, a written designation of a senior official to serve as a representative for notices, proposed amendments to the contract, and other purposes for the Contract.

**(2) CONTRACT MODIFICATIONS OR AMENDMENT**

(A) **IN GENERAL** - Except as provided in subparagraph (B), no modifications to this Contract shall take effect unless such modification is made in the

form of a written amendment to the Contract, and the Contractor and the Secretary provide written consent for the modification.

(B) EXCEPTION - The addition of supplemental funds for programs, functions, and activities (or portions thereof) already included in the annual funding agreement under subsection (f)(2), and the reduction of funds pursuant to section 106(b)(2), shall not be subject to subparagraph (A).

(3) OFFICIALS NOT TO BENEFIT

No Member of Congress, or resident commissioner, shall be admitted to any share or part of any contract executed pursuant to this Contract, or to any benefit that may arise from such contract. This paragraph may not be construed to apply to any contract with a third party entered into under this Contract if such contract is made with a corporation for the general benefit of the corporation.

(4) COVENANT AGAINST CONTINGENT FEES

The parties warrant that no person or selling agency has been employed or retained to solicit or secure any contract executed pursuant to this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business.

(f) ATTACHMENTS

(1) APPROVAL OF CONTRACT

Unless previously furnished to the Secretary, the resolution(s) of *Navajo Nation* authorizing the contracting of the programs, services, functions, and activities identified in this Contract as **Attachment A**.

(2) ANNUAL FUNDING AGREEMENT

(A) IN GENERAL - The annual funding agreement under this Contract shall only contain --

- (i) terms that identify the programs, services, functions, and activities to be performed or administered, the general budget category assigned, the funds to be provided, and the time and method of payment; and
- (ii) such other provisions, including a brief description of the programs, services, functions and activities to be performed

(including those supported by financial resources other than those provided by the Secretary), to which the parties agree.

- (C) INCORPORATION BY REFERENCE - The annual funding agreement is hereby incorporated in its entirety in this Contract and attached to this Contract as **Attachment B.**

**Attachment A Tribal Resolution(s)**

**Attachment B**

**Annual Funding Agreement**

**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**\*\*\* BUREAU OF INDIAN AFFAIRS \*\*\***  
**NAVAJO REGION**

**ANNUAL FUNDING AGREEMENT**

**FOR**

**PROGRAM**

**WITH THE**

**NAVAJO AGRICULTURAL PRODUCTS INDUSTRY**  
**(NAPI)**

**\***

**CONTRACT NO. A26AVxxxxx**

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**SECTION A**  
**DEFINITION OF TERMS**

## SECTION A - DEFINITION OF TERMS

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### A-1. Definitions

The following terms shall have the meaning set forth below throughout this contract:

1. **Act.** Means Public Law 93-638, The Indian Self-Determination and Education Assistance Act of 1975, as amended (25 USC 450, 88 Stat. 2203).
2. **Annual Funding Agreement.** Means a document that represents the negotiated agreement between the Awarding Official and the Contractor to fund, on an annual basis, the programs, functions, services, or activities (or portion thereof) transferred to a tribe or tribal organization under the Act.
3. **Annual Financial Audit.** Means an organization-wide audit as required by Public Law 104-156-Chapter 75, The Single Audit Act Amendments of 1996, as implemented through Office of Management and Budget (OMB) Circular A-133.
4. **Approving Official.** Means Bureau line officers (i.e. Regional Director or Acting Regional Directors) who, by appointment or delegation in accordance with applicable regulations, have the authority to approve or decline contract proposals/application to enter into contracts under the Act.
5. **Awarding Official.** Means any person, other than an Approving Official, who, by appointment or delegation in accordance with applicable regulations, has the authority to enter into and administer contracts on behalf of the United States of America and make determinations and findings with respect thereto. Pursuant to the Act, this can be any Federal official, including but not limited to, Contracting Officers.
6. **Awarding Official's Technical Representative (AOTR).** Means any person authorized to represent the Awarding official in contract administration. The Awarding Official Technical Representative shall designate the AOTR. Designation of an Awarding Official's Representative and/or Subordinate Awarding Official's Technical Representative (SAOTR) must be in writing from the Awarding Official. The **Memorandum of Designation** must clearly define the duties, authorities and responsibilities of each representative. A copy of such designation shall be made available to the contractor.
7. **Contract.** Means a self-determination contract (or grant or cooperative agreement utilized in lieu of a contract under Section 9 of the Act) entered into under Title I of the Act between a tribal organization and the Secretary for the planning, conduct and administration of the programs or services which are otherwise provided to Indian Tribes and their members pursuant to Federal Law: Provided, That except as provided in the last proviso in section 105(a) of the Act, no contract (or grant or cooperative agreement utilized under Section 9 of this Act) entered into under Title I of this Act shall be construed to be a procurement contract.
8. **Contractor.** Means the recipient of a contract.
9. **Contract Modification.** Means a written change to the contract document, which has been mutually agreed to by the Awarding Official and the contractor.
10. **Contract Records.** Means records maintained to support activity under the contract. Contract records shall include, but not be limited to, the following:

- (a.) The contract award documents;

- (b.) Any and all modifications to the contract;
- (c.) Financial records; and,
- (d.) Records created or maintained as a result of the contract.

11. **Days.** Means, unless otherwise specified in this contract, calendar days.
12. **Declination.** Means written notification by a Bureau Approving Official not to enter into a self-determination contract.
13. **Indirect Costs.** Means costs incurred for a common or joint purpose benefiting more than one cost objective, or which are not readily assignable to a specific cost objective.
14. **Indirect Cost Rate.** Means the rate arrived at through negotiation between an Indian tribe or tribal organization and the appropriate Federal agency (National Business Center).
15. **Mature Contract.** Means a contract that has been continuously operated by a tribal organization for three or more years, and for which there are no significant and material audit exceptions in the most recent annual financial audit of the tribal organization. A mature contract may be for a definite or an indefinite term as requested by the tribe or, to the extent not limited by tribal resolution, by the tribal organization.
16. **Program Records.** Means records created or maintained to support activity within the contracted program. Program records shall include, but not be limited to, the following:
  - (a.) Application for assistance under the specified program;
  - (b.) Case files, student files, etc.,
  - (c.) Correspondence;
  - (d.) Financial records; and
  - (e.) Any other records established under the P.L. 93-638 contract.
17. **Reassumption.** Means the taking back of a program or function by the Secretary.
18. **Recontacting.** Means the renewal of a contract with a tribal organization for the same program.
19. **Retrocession.** Means the return of a program or function to the Secretary where a tribe determines that it no longer desires to operate the program or function under a contract.
20. **Secretary.** Means the Secretary, the Under Secretary, and Assistant Secretary, or any other head or assistant head of the Department of the Interior or his authorized representative(s); and the term "his duly authorized representative" means any person or board (other than the Contracting Officer) authorized to act for the Secretary.

**SECTION B**  
**PROGRAM AND BUDGET**

## SECTION B - PROGRAM AND BUDGET

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### **B-1. Program(s)**

The contractor shall perform those portions of the Bureau of Indian Affairs' Operation, Maintenance & Replacement, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring Programs, described herein in accordance with the terms, provisions and conditions of this contract.

### **B-2. Contract Budget**

The budget for the services provided under the contract reflects the agreements reached during contract negotiations. The contract budget includes both direct and indirect costs.

a. The Contractor shall request prior approval for budget revision whenever:

- (1.) The budget revision results from changes in the scope or objective of the program;
- (2.) The revision requires additional funding;
- (3.) The revision causes a change in the amount of indirect cost for the contract; or,
- (4.) The revision pertains to the addition of items requiring approval of the Bureau of Indian Affairs.

b. All other budget revisions do not require approval.

### **B-3. Contract Amount**

The Bureau of Indian Affairs will provide under this Agreement for Fiscal Year 2026 the amount shown on budget forms attached hereto in Attachments 1, 2 and 3.

Operations, Maintenance, & Replacement: \$8,319,917; On-Farm: \$913,852; ATRL: \$391,650; and Water Quality Monitoring: \$38,432.00

### **B-4. Contract Supports Funds**

The Bureau of Indian Affairs shall provide Contract Support Funds, subject to availability of funding, according to the Indirect Cost Negotiation Agreement between the Contractor and the National Business Center, and according to Bureau of Indian Affairs policies and procedures pertaining to the distribution of Contract Support Funds.

### **B-5. Availability of Funds**

The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability by the Government for any payment may arise until funds are made available to the Awarding Official for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Awarding Official.

## **SECTION C**

### **DESCRIPTIONS/SPECIFICATIONS/WORK STATEMENT**

## SECTION C - DESCRIPTIONS/SPECIFICATIONS/WORK STATEMENT

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### C-1. Scope of Bureau Program(s) to be Performed

Purpose: To state the terms, conditions, and work to be performed under the contract and the rights and responsibilities of each party, to enable the Contractor to acquire and utilize all resources made available by the Bureau of Indian Affairs (BIA) for the delivery of services and programs specified herein, pursuant to the P.L. 93-638, as amended, and other applicable Federal Laws.

- a. The Contractor shall obtain from the BIA all such funds and other resources made available for the benefit of the tribe for all programs to be operated and services to be delivered by the Contractor through this contract on behalf of the BIA, except for "Trust" and executive functions of the BIA considered non-contractible.
- b. The BIA shall transfer to the Contractor all such funds and other resources made available for the benefit of the Tribe through his contract in the most expeditious manner authorized by law and shall provide technical support and assistance at the request of the Contractor and as provided herein.
- c. The Contractor shall exercise full discretion over the funds made available subject only to the provisions of this contract and Federal Law.

### C-2. Scope of Work

The Contractor shall administer the program under this agreement in accordance with the Contractor's policies and procedures, which are incorporated herein by references. The provisions of the applicable Federal Regulations shall apply unless the Secretary has waived such regulations. Such regulations are incorporated in this agreement by reference.

The Navajo Agricultural Products Industry (Contractor) is entering into this agreement with the Bureau of Indian Affairs (BIA) to provide all necessary qualified personnel, facilities, equipment, and materials required by this contract to perform: See Attachment Numbers 1, 2, and 3.

### C-3 Non-Contracted Portion of Bureau Program(s)

The Government, through the BIA, will:

1. Provide, to the greatest possible, administrative, and technical assistance, to assist the Contractor to successfully operate the program and enable it to avoid retrocession.
2. Monitor the submission of contract required narrative reports.
3. Provide monitoring services to ensure compliance with the terms of this contract and that work is performed in accordance with the goals and objectives. This monitoring function will include, but not limited to, the following:

- a. One annual evaluation (Monitoring Session) by the Navajo Region, Branch of Indian Self-Determination Office and designated AOTR. This visit shall be scheduled in advance before such visit takes place as prescribed in Section b. (7)(C) of the 108 Model Agreement or as requested by the Contractor.
- b. The Navajo Region, Branch of Indian Self-Determination and the Branch of Navajo Indian Irrigation Program (AOTR) will review records, speak to NAPI Director of Operation 638 & Government Relations and staff, and inspect premises to determine compliance with this contract.
- c. One or more additional visits as requested by the Contractor or when the Awarding Official determines that there is reasonable cause to believe that grounds for reassumption of the contract, suspension of contract payments, or other serious contract performance deficiency may exist. See Section b. (7)(C) of the 108 Model Agreement.

#### **C-4. Fair and Uniform Services**

The Contractor agrees that any service or assistance provided to Indians under the contract shall be provided in a fair and uniform manner.

## **SECTION D**

### **DELIVERIES OF PERFORMANCE**

## SECTION D - DELIVERIES OF PERFORMANCE

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### D-1. Contract Period

The contract will be determined on the basis of **Calendar Year (CY)** and shall commence from January 1, 2026, and will expire December 31, 2030, a "Mature Contract" will definite Term of five years.

The Contract (funding period) for CY 2026 Annual Funding shall be from January 1, 2026 and ending December 31, 2026.

### D-2. Submission of Reports

- a. *Financial Status Report (SF-425)*. The Contractor agrees to submit an original report to the Awarding Official, through the designated Awarding Official's Technical Representative (AOTR). This report shall be used to monitor expenditures incurred during quarterly operations. Included with the SF-425 shall be the itemized breakdown of costs incurred. The reports shall be submitted within 30 days after the dates shown below; Also, the Final SF-425 shall be submitted with the Annual Report (See Annual Report):
- b. *Quarterly Reports*. The Contractor agrees to submit quarterly reports to the AOTR, which will contain brief narrative reports for the quarter. The reports will facilitate either extra or emergency funds for unforeseen events and circumstances. The reports shall be submitted within 30 days after the date shown below. Fourth Quarter (December 31) report shall be updated and reported within the annual report (see annual report).

CY 2026	March 31	June 30	September 30
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- c. *Annual Reports*. The brief Annual Report shall be submitted 90 days after closure of each contract funding period (Year 2026, 2027, 2028, 2029, and 2030). The report shall entail the conduct of program and activities in:
  - (1.) Accomplishments of the project.
  - (2.) Description of any significant problems encountered.
  - (3.) Any changes are required to the contract.

NAPI will submit the Narrative Performance Reports on a quarterly basis rather than Annual submission in order keep the BIA AOTR updated on unplanned events or circumstances to pervade better assistance to NAPI rather than after the end of the calendar year. NAPI will submit the fourth quarter report due 30 days after December 31 into the Annual Report. The annual funds are fully expended by the start of the fourth quarter, therefore minimal activity is completed, and facility maintenance is deferred due to shortfalls.

- d. *Report to the members of NAPI's Board of Directors*. The contractor shall make available a report to members of Navajo Nation and NAPI Board of Directors, an accounting of the amounts and purpose for which the contract funds were expended during the previous month in the following manner:
  - (1.) By delivering a report to the NAPI Board of Directors Meeting, putting a notice in the newsletter, or posting a notice in a conspicuous place readily accessible to the members of the Navajo Nation, or
  - (2.) By such other means as is mutually agreed to by the NAPI and the BIA.

- e. Other Reports as requested by Central Office, Office of Management and Budget (OMB) or Congress, including Government Performance Result Act (GPRA) and Program Assessment Rating Tool (PART).

The AOTR will notify the Contractor of delinquent report(s) and suggest the due date that the BIA must receive the delinquent report(s). If the Contractor fails to submit the overdue report(s) by the established deadline, the AOTR will notify the Awarding Official and recommend some corrective action. The Awarding Official will then take appropriate action to ensure that the Contractor complies with the terms, conditions and general contract provisions of the contract. All reports shall be sent directly to the AOTR at the Bureau of Indian Affairs, Navajo Region, P.O. Box 1060, Gallup, New Mexico 87305.

GPRA: The Contractor agrees to provide applicable data and information to the Bureau of Indian Affairs, Navajo Regional Office pursuant to the Government Performance Result Act (GPRA) of 1993 (Pub. L. 103-62). Before providing such information, the Contractor will work with Awarding Official's Technical Representative, who will work with Regional Office/GPRA Coordinator to determine applicable data and information needed to meet the requirements pursuant to the GPRA of 1993 (Pub. L. 103-62). Due date of the GRPA will be on October 1 of each year.

### **D-3. Character Investigation required by Pub. L. 101-630, Section 408. Indian Child Protection and Family Violence Prevention Act**

The Contractor shall:

- a. Conduct an investigation of the character to each individual who is employed or is considered for employment in this grant when it has been determined that their duties and responsibilities involve regular contact with, or control over, Indian children.
- b. Ensure those persons must meet the standard of character of not having been found guilty of, or entered a pleas of nolo contendere or guilty of any offense under Federal, state, or tribal law involving crimes of violence, sexual assault, molestation, exploitation, sexual or prostitution, or crimes against persons.
- c. The results of the background investigations should become a part of the employee's personnel file and should be available for review by the Awarding Official or his/her designated representative.
- d. All information shall be confidential and maintained in accordance with the rules and regulations of the Privacy Act.

### **D-4. Audit Requirements (Single Audit Act)**

- e. The Contractor agrees to arrange for, participate fully in, and respond promptly and fully to the recommendation of an annual single organization-wide audit as prescribed by the Single Audit Act Amendment of 1996 in the current Office of Management and Budget (OMB) Circular A-128, Circular 1-133 and in Title 43 Code of Federal Regulations Part 12. The costs of such audits are allowable charges only if made according to Circular provisions. Small and minority business audit firms shall be afforded maximum practicable opportunity to participate in awardee contract to fulfill the requirements herein. The preference requirements of Section 7(b), Public Law 93-638, shall apply and are to be enforced.
- f. If the Contractor fails to comply with the requirements for obtaining audits according to the Single Audit Act Amendment of 1996, the Bureau of Indian Affairs may take one or more of the following actions as appropriate in the circumstances:

- (1.) Temporarily withhold cash payments, indirect cost and/or contract support funds pending correction of the deficiency by the awardee or more severe enforcement actions by the Bureau;
  - (2.) Disallow (that is, deny use of funds) all or part of the cost of the activity or actions not in compliance;
  - (3.) Wholly or part suspend the current award for the awardees program; or
  - (4.) Take other remedies that may be legally available.
- g. The Contractor may appeal the BIA decision for sanctions under the Dispute Clause of the contract.
- h. If the Contractor spends more than \$1,000,000 in total Federal financial assistance from all sources, the following submission requirement apply:
- i. To fulfill Single Audit Act Requirement.
    - (1.) Send one copy of the audit report with Form SF-SAC (Data Collection Form) to the Federal Audit Clearinghouse:
 

Federal Audit Clearinghouse  
U.S. Bureau of the Census  
1201 East Tenth Street  
Jeffersonville, IN 47132  
(301) 763-1551
    - (2.) Submit one additional copy of the report to the Clearinghouse for each funding agency that has a finding, either current or prior year, related to the grants/contracts provided them.
  - ii. The contractor must send two copies of its Single Audit Reports to the Division of Internal Evaluations and Assessment to meet the reporting requirements of the Indian Self-Determination and Education Assistance Act. The address is:
 

Division of Internal Evaluations and Assessment  
U.S. Department of the Interior  
12220 Sunrise Valley Drive  
Reston, VA 20191  
(709) 390-6357

#### **D-5. Monitoring and Records Review**

1. The Contractor shall maintain books, records, documents, and other evidence and accounting procedures and practices; sufficient to reflect property all direct and indirect costs of whatever nature claimed to have been incurred and anticipated and to be incurred for the performance of this contract. The foregoing constitutes "records" for the purposes of this clause.
2. The Contractor's facilities or such part thereof as may be engaged in the performance of this contract, and these records shall be subject at all reasonable times to inspection and audit by the Awarding Official or his or her authorized representatives.
3. The Contractor shall preserve and make available his records:

- (a.) Until the expiration of three years from the date of final payment under this contract, or of the time period for the particular records specified in 25 CFR, Chapter V, Part 900, Subpart F, Subsection 900.41 (a-d), whichever expires earlier; and,
  - (b.) For such longer period, if any, as is required by applicable statute, or by other clauses of this contract, or by (1) or (2) below:
    - (1.) If the contract is complete or partially canceled, the records relating to the work terminated shall be preserved and made available for a period of three years from the date of any resulting final settlement.
    - (2.) Records which relate to (A) appeals under the "Disputes" clause of this contract, (B) litigation or the settlement of claims arising out of the performance of this contract, or (C) costs and expenses of this contract as to which exception has been taken by the Awarding Official or any of this duty authorized representatives, shall be retained until such appeals, litigation, claims or exceptions have been disposed of.
4. The Contractor shall insert the substance of this clause, including the whole of this paragraph 4, in each subcontract hereunder that is not firm-fixed-price or fixed-price with escalation. When so inserted, changes shall be made to designate the higher-tier subcontractor at the level involved in place of the Contractor; to add "of the Government prime contract" after "Awarding Official", and to substitute "the Government prime contract" in place of "this contract" in (2) of paragraph 3 (b) (2) above.

#### **D-6 Examination of Records**

(a.) (1) The contractor agrees to maintain books, records, documents and other evidence pertaining to the costs and expenses of this contract (hereinafter collectively called "records") to the extent and in such detail as will properly reflect all net costs, direct and indirect, of labor, materials, equipment, supplies and services, and other costs of whatever nature for which reimbursement is claimed under the provisions of this contract.

(2) The contractor agrees to make available at the office of the contractor at all reasonable times during the period set forth in subparagraph (4) below any of the records for inspection, audit or reproduction by any authorized representative of the Comptroller General, the Secretary of Interior and the Awarding Official.

(3) If the Comptroller General or any of his duly authorized representatives determine that his audit of the amounts reimbursed under this contract as transportation charges will be made at a place other than the office of the contractor, the contractor agrees to deliver, with the reimbursement voucher covering such charges or as may be otherwise specified within 2 years after reimbursement of charges covered by any such voucher, to such documentary evidence in support of transportation costs as may be required by the Comptroller General or any of his authorized representatives.

(4) Except for documentary evidence delivered by the Government pursuant to subparagraph (3) above, the contractor shall preserve and make available his records;

(i) Until expiration of 3 years after final payment under this contract; and

(ii) For such longer period, if any, as is required by applicable statutes, by any other clause of this contract, or by (A) or (B) below:

(A) If this contract is completely or partially terminated, the records relating to the work terminated shall be preserved and made available for a period of 3 years from the date of any resulting settlement.

(B) Records which relate to:

- (i) Appeals under the disputes clause of this contract;
- (ii) Litigation or the settlement of claims arising out of the performance of this contract; or

(iii) Costs and expenses of this contract to which exception has been taken by the Comptroller General, Secretary of the Interior or the contracting officer, or any of their duly authorized representatives, shall be retained by the contractor until such appeals, litigation, claims or exceptions have been disposed of.

(5) Except for documentary evidence delivered pursuant to subparagraph (3) above, and the records described in subparagraph (4)(ii)(B) above, the contractor may in fulfillment of his obligation to retain his records as required by this clause substitute photographs, microphotographs, or other authentic reproductions or such records, after the expiration of 2 years following the last days of the month of reimbursement to the contractor of the invoice or voucher to which such records relate, unless a shorter period is authorized by the awarding official (contracting officer) with the concurrence of the Comptroller General or his duly authorized representative.

#### **D-7. Effect on Existing Rights**

(A) Nothing in this contract shall be construed as --

- (1) Affecting, modifying, diminishing, or otherwise impairing the sovereign immunity from suit enjoyed by an Indian tribe; or,
- (2) Authorizing or requiring the termination of any existing trust responsibility of the United States with respect to the Indian people.

#### **D-8. Motor Vehicle Safety Policy**

The Navajo Agricultural Products Industry certifies that it will self-administer a motor vehicle policy that promotes the safe and prudent operations of a motor vehicle while performing duties to implement the terms of the agreement. The Navajo Agricultural Products Industry's policy is either as stringent as or more stringent than the April 3, 2020 Motor Vehicle Operators Policy for the Bureau of Indian Affairs (BIA) issued by the Associate Deputy Secretary.

#### **D-9. Records Management**

The Tribe Agrees to:

- (a) Preserve, protect and manage all fiduciary trust records, created and/or maintained by the Tribes during their management of trust programs in their Title I agreements. (A fiduciary trust record is any document that reflects the existence of an Indian trust asset and was used in the management of an Indian trust asset. An Indian trust asset refers to lands, natural resources, monies or other assets held in trust at a particular time by the Federal Government for a Tribe, Alaska natives or that are or were a particular time restricted against alienation, for individual Indians. Management includes actions that influence, affect, govern, or control an Indian trust asset. The following are examples not considered to be fiduciary trust records: general administrative, personnel or travel records; education records; law enforcement records; health records; law making unrelated to Indian trust assets; tribal council resolutions and laws unrelated to Indian trust assets; and tribal elections.

- (b) Make available to the Secretary all fiduciary trust records maintained by the Tribe, provided that the Secretary gives reasonable oral or written advance request to the Tribe. Access shall include visual inspection and at the expense of the Secretary the production of copies (as agreed upon between the parties) and shall not include the removal of the records without tribal approval; and
- (c) Store and permanently retain all inactive fiduciary trust records at the Tribe or allow such records to be removed and stored at the American Indian Records Repository (AIRR) in Lenexa, Kansas at no cost to the Tribe.

The Secretary agrees to:

- (a) Allow the tribe to determine what records it creates to implement that trust program assumed under its Title I agreement, except that the Tribe must create and maintain the information required by the statute and regulation. No additional record keeping requirements are required by this agreement.
- (b) Store all inactive fiduciary trust records at AIRR at no cost to the Tribe and when the Tribe no longer wishes to the keep the records. Further, the Tribe will retain legal custody and determine access to these records and such records shall not be treated as Federal records and purposes of chapter 5 of Title 5 of the United States Code unless expressly agreed by the Tribe:
- (c) Create and manage a single tribal storage and retrieval system for all fiduciary trust records stored at AIRR (No records will be accepted at AIRR until such retrieval system exists); and
- (d) Provide file equipment and technical assistance for Tribes in preserving, protecting and managing their fiduciary trust records from available funds appropriate for this purpose.

**SECTION E**

**CONTRACT ADMINISTRATION DATA**

## SECTION E - CONTRACT ADMINISTRATION DATA

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### E-1. Cognizant Contract Administration

All information or questions concerning this contract should be referred to:

Indian Self-Determination Specialist/Awarding Official  
Bureau of Indian Affairs – Navajo Regional Office  
P. O. Box 1060  
Gallup, New Mexico 87305  
Telephone No. (505) 863-8228/8401  
Fax No. (505) 863-8461

### E-2. Contract Administration

Designate a person whom we may contact for prompt contract administration.

Name: Lionel Haskie Title: Director of Operation 638 & Government Relation

Telephone No.: (505) 566-2636

Alternate: Dave Zeller Title: Chief Executive Officer

Telephone No.: (505) 566-2600

### E-3. Designation of Awarding Official's Technical Representative

Rudy Keedah, Supervisory Civil Engineer, NIIP, Branch of Engineering, Bureau of Indian Affairs, Navajo Region, is designated as the authorizing Awarding Official's Technical Representative (AOTR).

### E-4. Designation of Subordinate Official's Technical Representative

There is no Designation of Subordinate Official's Technical Representative.

### E-5. Contract Payment

For performing this contract, the Contractor shall be reimbursed for its allowable direct and indirect costs, not to exceed the total budgeted amount of this contract. The total budget amount of this contract is stated in item 14 of the SF-30, Amendment of Solicitation/Modification of Contract.

1. Contract payment shall be made to the Contractor through the Bureau of Indian Affairs P-638 Automated Standard Application for Payments (ASAP) Payment System.
2. Notwithstanding any other provisions by law, Contract Payment shall be made in advance on a quarterly, semiannual, or lump sum basis. Each quarterly payment shall be made on the first day of each quarter of each fiscal year, the first semiannual payment shall be made on the first day of the first quarter of the contract year, the final semiannual payment shall be made on the first day of the third quarter of the contract year, the lump sum payment shall be made on the first day of the first quarter of the contract year,

except that in any case in which the contract year coincides with the Federal fiscal year, payment for the first quarter shall be made no later than the date that is ten (10) calendar days after the date on which the Office of Management and Budget apportions the appropriations for the fiscal year for the programs, services, functions, and activities subject to this contract.

3. Check one of the following:
- ( ) Quarterly Payments
  - ( ) Semi-Annual Payments
  - (X) Annual Payments (Lump Sum)
  - (X) Other Payment Methods.

#### **E-6. Use of Funds Advanced**

Funds advanced to the Contractor shall be used only for purposes authorized under this contract. The funds advanced cannot be used for any purpose other than an authorized Bureau program expenditure, even on a temporary basis. Further, funds advanced pending disbursement for a purpose authorized under this contract shall not be transferred to tribal accounts, lent to such tribal accounts, or expended for programs or purposes not specifically authorized under this contract. Funds advanced, pending expenditure under this contract, shall be placed in appropriate savings, checking, or investment accounts. Such funds when invested or deposited shall be in compliance to Clause F-8. Investment of Funds.

#### **E-7. Sanctions**

Failure to maintain the integrity of contract funds shall result in imposition of one or more of the following sanctions:

- a. Pursuant to Section 5(d) of Pub. L. 93-638, as amended (25 U.S.C 5305(d)), funds paid to the Contractor and not used for the purposes for which they were paid shall be repaid to the Treasury of the United States; and,
- b. Cancellation of Advance Payment methodology and invocation of "other payment methodologies" as provided in E-5. Contract Payment, above.
- c. Sanction shall remain in place until the Contractor provides assurance that the impropriety which resulted in the imposition of sanction, has been rectified and will not reoccur.

#### **E-8. Submission of Invoices**

For performing this contract, the Contractor shall accept to maintain expenditures within the budgeted line item amount. The Financial Status Report (SF-425) shall be required quarterly in assisting the Awarding Official's Technical Representative (AOTR) in monitoring progress of the contracts.

- a. At any time or times prior to final payment under this contract, the Awarding Official may cause to be made such audits of the invoices or vouchers and statements of costs as shall be deemed necessary. Each payment made before that time shall be subject to reduction to the extent that amounts included in the related invoice or vouchers and statement of cost are found by the Awarding Official not to constitute allowable cost, and shall also be subject to reduction for overpayment or to increase for underpayment on receding invoices or vouchers.

- b. On receipt and approval of the voucher or invoice designated by the Contractor as the "Final voucher" or "Final invoice" and statement of costs, which the Contractor as promptly shall submit as may practicable following completion of the work under this contract, but by ninety (90) days or such longer periods as the Awarding Official may in his or her discretion, approved in writing from the date of such completion, and following compliance by the Contractor with all provisions of this contract; the Government shall, as promptly as may be practicable, pay to the Contractor any balance of allowable costs.
- c. Any cost incurred by the Contractor under the terms of this contract that would constitute allowable cost under the provisions of this clause shall be included in determining the amount payable under this contract; notwithstanding any provisions contained elsewhere in this contract by reference, designating services to be performed or materials to be furnished by the Contractor at its expense or without cost to the Government.

**E-9. Contract Revision or Amendment**

- 1. This contract may be revised or amended as required to carry out the purpose of the program, project or function being contracted. The Contractor shall submit proposed revisions through Awarding Official's Technical Representative to the Awarding Official. The Contractor (if other than the tribal governing body) shall also send copies of the proposed revision to the designated representative of the tribal governing body at the same time as they are sent to the Awarding Official. The Awarding Official shall process and review the proposed revision according to Section 102(B) of the Act, 25 CFR Part 900, Subpart E.
- 2. When the Awarding Official recommends declination of a Contractor's request to amend the contract, the matter shall be resolved as prescribed in P.L. 93-638, as amended (Section 102B of Act and accordance with CFR 900, Subpart B).

**E-10. Pre-Contract Costs**

Any costs the contractor incurs before the award date or effective date of this contract may be reimbursed if the Awarding Official determines such costs, to be allocable, allowable, reasonable, and necessary to delivery of program services. The contractor is advised that incurrence of the pre-contract costs is made at its own risk.

**E-11. Negotiated Indirect Cost Rate**

- a. The allowable indirect costs under this contract shall be obtained by applying negotiated indirect costs rate to bases agreed upon by the parties, as specified below.
- b. Negotiation of indirect cost rates by the Contractor and the cognizant audit agency shall be undertaken as promptly as practicable after receipt of the Contractor's indirect cost proposal.
- c. Allowability of costs and acceptability of cost allocation methods shall be determined according to OMB 2 CFR Chapter 1, Chapter 11, Part 200 Uniform Administration Requirement, Cost Principles and Audit Requirements of Federal Award referenced used in CY 2026 AFA.
- d. The results of each negotiation shall be set forth in an Indirect Cost Negotiation Agreement, such agreement shall become a part of this contract by reference. The agreement shall specify:
  - (a) The agreed indirect cost rate(s);
  - (b) The base to which the rate(s) apply;
  - (c) The periods for which the rate(s) apply; and
  - (d) The specific items treated as exclusion or any changes in the items previously agreed to be treated as exclusions.

- e. The Contractor is to be reimbursed for all allocable and allowable indirect costs incurred in performance of this contract, subject to any statutory limitations applicable.
- f. Any failure by the parties to agree on any indirect cost rate(s) or applicability of the rate(s) to the bases under this provision shall be considered as dispute concerning a question of fact for decision by the Awarding Official within the meaning of the clause of this contract entitled "Disputes."

### **E-12. Billing for Indirect Cost**

The Contractor shall bill for indirect cost earned on this voucher\invoice showing the following, for the period covered by the voucher\invoice:

1. Total direct cost expenditures.
2. Less Exclusions.
3. Times Indirect Cost Rate.
4. Indirect Cost earned for the period covered.

$$(1) - (2) \times (3) = (4).$$

### **E-13. Disputes**

This contract is subject to the 25 CFR, Chapter V, Part 900, Subpart N.

1. All disputes arising under or relating to this contract shall be resolved under Subpart N, "Post-Award Contract Dispute."
2. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under the contract, and comply with any decision of the Awarding Official.

### **E-14. Payment of Interest on Contractor's Claims**

If an appeal is filed by the contractor from a final decision of the Awarding Official under the disputes clause of this contract, denying a claim arising under the contract, simple interest on the amount of the claim finally determined owed by the Government shall be payable to the contractor. The procedures specified in 25 CFR, Charter V, Subpart N, Subsection 900.228 shall be followed:

1. Interest shall be applied only from the date payment was due, if such date is later than the filing of appeal, and
2. Interest shall not be paid for any period of time that the Awarding Official determines the contractor has unduly delayed in pursuing this remedies before a board of contract appeals or a court of competent jurisdiction.

**E-15. Retrocession**

The Contractor agrees to comply with the provisions of section 105(e) of the Act, as amended, and be guided by the procedures in 25 CFR Part 900, Subpart P in the event of retrocession.

**E-16. Reassumption**

The Contractor agrees to comply with the provisions of section 109 of the Act, as amended, and be guided by the procedures in 25 CFR Part 900, Subpart P in the event of reassumption.

**SECTION F**  
**SPECIAL CONTRACT REQUIREMENTS**

## SECTION F - SPECIAL CONTRACT REQUIREMENTS

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### F-1. Management Systems

The BIA, Navajo Regional Office has, on file, the most recent versions of the following management systems Policies and Procedures Manual:

- a. Personnel Management.
- b. Travel Policy.
- c. Property Manual.
- d. Procurement Manual.

### F-2. Finance System Certification

Certification by a licensed accountant that the bookkeeping and accounting procedures that the tribal organization presently uses meets the standards of 25 CFR Part 900, Subpart F. In place of the certification; the tribal organization may submit written agreement to establish a bookkeeping and accounting system that meet the standards of 25 CFR Part 900, subpart F, and to have the bookkeeping and accounting system certified before the Bureau of Indian Affairs disburses any funds under a contract awarded as a result of this funding agreement. The bookkeeping and accounting system shall provide for the accumulation of costs throughout the contract term or performance period in such a manner as to facilitate audit or review of the financial records.

The Navajo Agricultural Products Industry has submitted the certification and is on file at the Bureau of Indian Affairs, Navajo Regional Office.

### F-3. Recordkeeping

The Contractor agrees to keep such records as required pursuant to Sec. 108(c)(b)(7)(A) of the Act, as amended, to make reports required by Sec. 5(a)(1) and (2), of the Act, as amended, and to make such information and reports available to the Indian clients as required by Sec. 5(c), of the Act, as amended. The Contractor shall be required to maintain a recordkeeping system that will allow for the maintenance of records to facilitate retrocession or reassumption. Such a records system, as a minimum, shall:

1. Unless otherwise required by law, the Bureau shall not place restrictions on tribal Contractors that will limit public access to the tribal Contractor's records except when records must remain confidential.
2. The Contractor shall make all reports and information concerning the Contract available to the Indian people that the Contractor serves or represents.
3. A request to inspect or copy records and information shall be in writing and must be reasonably described in the reports and information requested. The request may be delivered or mailed to the Contractor. Within ten (10) working days after receiving the request, the Contractor shall determine whether to grant or deny the request. The requester shall be notified immediately of the determination.
4. The time for making a determination may be extended up to an additional (10) working days for good reason. The requester shall be notified in writing of the extension, reasons for the extension, and the date on which the determination is expected to be made.

#### **F-4. Privacy Act Requirements**

When a tribal Contractor operates a system of records to accomplish a Bureau function, the contractor shall comply with Subpart D of 43 CFR Part 2 that implements the Privacy Act (5 U.S.C. 552a).

#### **F-5. Freedom of Information**

1. Unless otherwise required by law, the Bureau shall not place restrictions on tribal Contractors that will limit public access to the tribal Contractor's records except when records must remain confidential.
2. The Contractor shall make all reports and information concerning the Contract available to the Indian people that the Contractor serves or represents.
3. A request to inspect or copy records and information shall be in writing and must be reasonably described in the reports and information requested. The request may be delivered or mailed to the Contractor. Within ten (10) working days after receiving the request, the Contractor shall determine whether to grant or deny the request. The requester shall be notified immediately of the determination.
4. The time for making a determination may be extended up to an additional ten (10) working days for good reason. The requester shall be notified in writing of the extension, reasons for the extension, and the date on which the determination is expected to be made.

#### **F-6. Drug-Free Workplace**

In the performance of this contract, the Contractor shall certify to a drug-free workplace pursuant to the Drug-Free Workplace Act of 1988 (Pub. L. 100-689), for all contracts in excess of \$25,000.00

#### **F-7. Indian Preference Requirements**

This contract requires, and any subcontract shall require, that to the greatest extent feasible:

- (a) Preference and opportunities for training and employment in connection with the administration of the contract or subcontract shall be given to Indians.
- (b) Preference in the award of a subcontract, contract, or subgrant in connection with administration of the contract shall be given to Indian organization and economic enterprises.
- (c) The Contractor may develop its own Indian preference requirements to the extent that such requirements are not inconsistent with the purpose and intent of the Paragraphs (a) and (b).

#### **F-8. Investment of Funds**

- a. Advanced funds not immediately spend for program activities may be invested only in obligations of the United States or in obligations or securities that are guaranteed or insured by the United States.
- b. If not invested, advanced funds must be deposited into accounts that are insured by an agency or instrumentality of the United States or must be fully collateralized to ensure protection of the funds.
- c. Interest and investment incomes that accrue on any funds provided for by contract become the property of the contractor/grantee.

### **F-9. Federal Tort Claims Act (FTCA)**

1. **FTCA Coverage.** For purpose of FTCA coverage, the Contractor and its employees (including individuals performing personal service contracts with the Contractor to provide health care services) are deemed to be employees of the Federal government while performing work under this contract. This status is not changed by the source of the funds used by the Contractor to pay the employee's salary and benefits unless the employee receives additional compensation for performing covered services from anyone other than the Contractor.
2. **FTCA Liaison.** In accordance with the requirement in 25 CFR, Part 900, Subpart L, subsection 900.188(a) the Contractor agrees to designate an individual to serve as tort claims liaison with the Federal government. The tort claims liaison shall provide the assistance specified in 25 CFR, Part 900, and Subpart L. subsection 900.188(c).

### **F-10. Insurance Coverage**

Insurance Coverage must be obtained from an insurance provider that is licensed by the State Insurance Commission or State Insurance Board in the state in which the contractor is located and where the work is to be performed. The Contractor's direct or indirect costs associated with the purchase of insurance shall be *disallowed* if the insurance is purchased from an unlicensed insurance carrier and paid for with Federal funds.

### **F-11. Cell Phone Usage Policy**

In the performance of this contract, the Contractor shall adopt and enforce policies that ban texting while driving pursuant to Executive Order 13513 Federal Leadership on Reducing Text Messaging while Driving date October 1, 2009. Contractor includes this policy in the NAPI Policies and Procedures Handbook 2023.

### **F-12. SUBCONTRACT ADMINISTRATION for On-Farm Projects**

1. The Contractor shall maintain a contract administration system that ensures each subcontractor performs in accordance with the terms and conditions of its subcontract, including maintaining records with sufficiently detail the significant history of a subcontract.
2. The Contractor has ultimate responsibility for the construction project and is not relieved of such responsibility by authorizing performance of the work by a subcontractor or BIA. Such responsibility includes but is not limited to:
  - a. Providing adequate supervision, inspection, and materials testing to ensure that the project is completed in conformance with approved plans and specifications;
  - b. Efficiently and effectively administering subcontract through the application of sound management practices and business judgment including:
    - (i) Ensuring that program funds have been expended and accounted for consistent with underlying agreements and program objectives;
    - (ii) Assuming responsibility for employing whatever form of organization and management this necessary to assure proper and efficient administration;

- (iii) Obtaining all access rights, licenses, and permits when the project is located on lands where the Contractor does not have legal jurisdiction or when special conditions warrant. In such instances, the Contractor will be relieved from overall project responsibility and should coordinate with the entity have jurisdiction to perform the work with its own forces or by subcontract; and
  - (iv) Settling all contractual and administrative issues arising from procurement. These issues include, but are not limited to source evaluation, protests, disputes and claims. The Contractor will have protest procedures to handle and resolve disputes relating to its subcontracts and shall disclose information regarding the protest to the Awarding Official.
- c. Processing regular progress payments to subcontractors as work is accomplished. The Contractor is not authorized to make advance payments to subcontractors unless otherwise negotiated.

**F-13. RECORDS AND MONITORING for On-Farm Projects**

1. The Contractor shall be responsible for managing the day-to-day operations conducted under this Contract and for monitoring activities conducted under this Contract to ensure compliance with the Contract and applicable Federal requirements. With respect to the monitoring activities of BIA, the monitoring visits and or inspection shall include those jointly determined to be necessary to ensure compliance with the contract, including structural integrity of the project and compliance with safety, health, and environmental standards or requirements. Prior to beginning of construction the Contractor and BIA will agree upon BIA process for monitoring the project activities.
2. The Contractor shall maintain on the job-site or project office, and make available to AOTR during monitoring visits:
  - a. Contracts.
  - b. Major subcontracts
  - c. Modifications
  - d. Construction documents.
  - e. Change orders
  - f. Shop drawings
  - g. Inspection reports,
  - h. Testing reports, and
  - i. Current redline drawings, and
  - j. Progress Reports.

**F-14. OTHER PROVISIONS - On Farm Projects**

**CHANGES** – BIA will oversee and direct technical changes to the plans or specifications under this contract upon obtaining the concurrence of the Contractor. Changes that require an increase to the negotiated contract budget or an increase in the negotiated performance period or are a significant departure from the scope or the objective of the project shall require approval of the BIA through the Awarding Official.

**F-15. SUSPENSION OF WORK - On Farm Projects**

The Secretary through BIA can require the Contractor to suspend work under a contract in accordance with this clause. The BIA may suspend a contract for no more than 30 days unless the tribal organization has failed to correct the reason(s) for the suspension that cannot be resolved through either the efforts of the BIA or the Contractor:

- a. The BIA may suspend work for the following reason(s) under a Self-Determination contract for construction:
  - (i) Differing site conditions encountered upon commencement of construction activities that impact health and safety concerns or shall require an increase in the negotiated project budget;
  - (ii) The BIA discovers materially non-compliant work;
  - (iii) Funds allocated for the project that is the subject of this contract are rescinded by Congressional action; or
  - (iv) Other Congressional actions may occur that materially affects the subject matter of the contract.
- b. If the BIA wishes to suspend the work, the BIA shall first provide written notice and an opportunity for the Tribal Organization to correct the problem. The BIA may direct the Tribal Organization to suspend temporarily work under a contract only after providing a minimum of 5 working days advance written notice to the Tribal Organization describing the nature of the performance deficiencies or imminent safety, health or environmental issues which are the cause for suspending the work.
- c. The Tribal Organization shall be compensated for reasonable costs, including but not limited to overhead costs, incurred due to any suspension of work that occurred through no fault of the Tribal Organization.
- d. Disputes arising as a result of a suspension of the work by the BIA shall be subject to the Contract Dispute Act or any other alternative dispute resolution mechanism as negotiated between and agreed by the parties and contained in the contract.

#### **F-16. TERMINATION OF WORK FOR CAUSE - On Farm Projects**

The Secretary through the BIA can terminate the project for cause in the event non-compliant work not corrected through suspension process specified in F-15 above and in paragraph 11 of 900.131(b).

#### **F-17. TERMINATION FOR CONVENIENCE - On Farm Projects**

The Secretary through the BIA retains the authority to terminate the project for convenience for the following reasons:

- a. Termination for Convenience (T for C) is requested by the Contractor and agreed to by the Indian Tribe or Tribal Organization.
- b. Funds allocated for the project that is the subject of contract are rescinded by Congressional action;
- c. Other Congressional actions take place that affect the subject matter of the contract .
- d. If the BIA terminates a self-determination construction contract for convenience, the BIA shall provide the Tribal Organization 21 days advance written notice of intent to terminate a contract for convenience; or
- e. The Tribal Organization shall be compensated for reasonable costs incurred due to termination of the contract.

**F-18. MATERIALS AND WORKMANSHIP - On Farm Projects**

All equipment, materials and articles incorporated into the work covered by this contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this contract. All work under this contract shall be performed in a skillful and workmanlike manner.

**F-19. USE OF EXCESS FUNDS - On Farm Projects**

In accordance with 25 U.S.C. 5309, Use of excess funds, where the actual costs of construction projects under self-determination contracts, compacts, or grants, are less than the estimated costs thereof, the Secretary through BIA shall determine the use of resulting excess after consulting with the Contractor, in making this determination.

**F-20. FEDERAL ACQUISITION REGULATIONS CONSTRUCTION CLAUSES – On Farm Projects**

The Contractor agrees that the clauses in Attachment 4 are made a part of this contract and will also be utilized by the Contractor for subcontracting.

## **SECTION G**

### **LIST OF DOCUMENTS AND OTHER ATTACHMENTS**

## SECTION G - LIST OF DOCUMENTS AND OTHER ATTACHMENTS

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### **G-1. List of Documents and other Attachments**

The following documents are hereby incorporated and made integral part of this contract:

- ATTACHMENT 1 – Scope of Work for Operations, Maintenance & Replacement Budget
- ATTACHMENT 2 – Scope of Work for On-Farm Development Budget
- ATTACHMENT 3 – Scope of Work for Agricultural Testing & Research Laboratory and Water Quality Monitoring Budget
- ATTACHMENT 4 – Federal Acquisition Regulations (FAR)
- ATTACHMENT 5 – Wage Determinations: Department of Labor Davis Bacon Act Wage Rates
- ATTACHMENT 6 – DI-137, Release of Claims Form
- ATTACHMENT 7 – Navajo Agricultural Products Industry Organizational Structure

**G-2.** The following documents are hereby incorporated by reference and made an integral part of this contract:

- a. NAPI Organizational Chart
- b. Board of Directors Listing
- c. NIIP Information Map
- d. Position Description(s)
- e. Schedule of Key Personnel

## **ATTACHMENT 1**

### **Scope of Work for Operations, Maintenance, and Replacement**



**NAVAJO  
PRIDE**

**SCOPE OF WORK  
For  
Operations, Maintenance & Replacement  
Calendar Year 2026**

**Navajo Indian Irrigation Project**

**Public Law 93-638  
Contract Number A26AVxxxxx**

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**Lionel Haskie, PE  
Director of Operations – 638 & Government Relations**

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**APPENDIX**

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- EXHIBIT A:** NIIP Information Maps
- EXHIBIT B:** Proposed Budget for Calendar Year 2026
- EXHIBIT C:** WAPA Service and Maintenance Agreement
- EXHIBIT D:** Operations & Maintenance Organizational Chart  
Director of Operations – 638 & Government Relations
- EXHIBIT E:** CY2026 Operations and Maintenance Work Schedule
- EXHIBIT F:** Emergency Procedures – Standing Operating Procedures

## SCOPE OF WORK

### SECTION ONE

#### 1 INTRODUCTION

The Scope of Work for the Navajo Indian Irrigation Project (NIIP) as authorized by the United States Congress on June 13, 1962 (76 Stat. 96) sets out the magnitude of the operation, maintenance, and replacement (OM & R) functions, of the infrastructure that has been installed.

The narrative description of the NIIP portrays the magnitude of the facilities that have been constructed and that require proper maintenance to not only safeguard the federal investment but also to ensure the longevity of the facilities to insure safe and reliable delivery of irrigation water to the farm and any other ventures that maybe located and built on the NIIP.

The Calendar Year (CY) 2026 SCOPE OF WORK that follows the project description provides a general description of the activities involved in OPERATION, MAINTENANCE, REPLACEMENT and GENERAL AND ADMINISTRATION. These in turn provide the CY 2026 budget framework and the basis for the work schedules.

#### 1.1 NAVAJO AGRICULTURAL PRODUCTS INDUSTRY

The Advisory Committee of the Navajo Tribal Council by Resolution ACAP-123-70, enacted on April 16, 1970, and subsequent amendatory resolutions thereto, approved the Plan of Operation for the Navajo Agricultural Products Industry (NAPI) and establish NAPI as a tribal enterprise.

Navajo Agricultural Products Industry Management Board has authority and responsibility for the management, operation, and maintenance of the Navajo Indian Irrigation Project, including the authority to enter contracts. 5 NNC Section 1604 (A) (16) states the authority as:

*"To enter into, make, perform, and carry out, or cancel, or rescind contracts for any lawful purposes set forth in 5 NNC § 1603 and to delegate so much of this authority as may be advisable to the Chief Executive Officer of the Industry, or to the Chairman of the Board of Directors. ..."*

#### 1.2 PROJECT DESCRIPTION

The Navajo Indian Irrigation Project (NIIP) and the surrounding area are shown in its entirety on the Information Map, Exhibit A, prepared by the United States Bureau of Reclamation, Department of Interior. The NIIP project does not change from year to year, except as construction of additional infrastructure is completed or as replacements and/or repairs are made to various components. A narrative description of the various components, including their relative locations on the map, follows.

The NIIP lands consist of some 216,842 acres, as authorized by the Congress of the United States and as defined by the Federal Register. The annual allowable diversion is up to 508,000 acre-feet and the irrigable lands include the 110,630 acres to be irrigated and other lands, which makes up the total. One of the key components of the NIIP is the water storage system. This includes a shared portion of Navajo Dam and Reservoir of the Upper Colorado River Storage Projects (CRSP), the NIIP Headworks at Navajo Dam for releasing water into the NIIP water delivery system, Cutter Dam and Reservoir, and future on-site storages. The only year-round storage is the conservation pool in Cutter Reservoir or that portion of the water level lower than the spillway crest or the radial gate that controls water releases into the Main Canal.

Operations, Maintenance, & Replacement Scope of Work for CY 2026

The CARRIAGE SYSTEM is 94.4 miles and consists of 84.6 miles concrete lined canals, 12.9 miles of tunnels, 17.0 miles of siphons. Headwork and other system components currently installed between Navajo Dam Headworks and the termini of the Main Canal (MC), Gravity Main Canal (GM), Coury Open Channel Lateral, Amarillo Canal, and Burnham West and Reach 1 Laterals. Specific components are:

Feature Name	Station Start	Station End	Length (ft)	Pipe Dia. (in)	Design Type
Tunnel No.1	0+00	108+00	10800	210	Concrete Circular Section
Governador Siphon	112+94	127+31	1437	210	Monolithic Concrete Section
Tunnel No. 2	135+00	393+20	25820	210	Concrete Horseshoe Section
8.9 Siphon	471+40	494+68	2328	210	Monolithic Concrete Section
Largo Siphon	564+32	647+22	8290	210	Monolithic Concrete Section
Tunnel No. 3	721+90	874+54	15264	216	Concrete Circular Section
16.7 Siphon	887+10	890+77	367	210	Monolithic Concrete Section
17.9 Siphon	946+67	950+54	387	210	Monolithic Concrete Section
Tunnel No. 3A	985+32	1018+45	3313	216	Concrete Circular Section
Armenta Siphon	1067+65	1105+00	3735	210	Prestressed Concrete Cylinder Pipe
Tunnel No. 4	1224+15	1274+15	5000	210	Concrete Horseshoe Section
Kutz Siphon	1398+75	1458+60	5985	210	Prestressed Concrete Cylinder Pipe
West Kutz Siphon	1555+15	1590+60	3545	210	Prestressed Concrete Cylinder Pipe
Hwy550 Tunnel	1624+90	1631+55	665	216	Concrete Circular Section
Horn Siphon	1660+61	1686+26	2565	210	Prestressed Concrete Cylinder Pipe
East Gallegos Siphon	2259+40	2317+70	5830	189	Prestressed Concrete Cylinder Pipe
West Gallegos Siphon	2437+00	2457+00	2000	189	Prestressed Concrete Cylinder Pipe
Old Highway 371 Siphon	297+76	301+16	340	sq. 11'x11'	Reinforced Concrete Box
Tunnel No. 5	394+23	468+60	7437	126	Concrete Circular Section
GM Hwy 371 Siphon	564+18	566+20	202		
Road 4060 Siphon	624+00	631+00	700	sq. 7'x7'	Reinforced Concrete Box
Highway 3003 Siphon	723+30	727+00	370	sq. 7'x7'	Reinforced Concrete Box
G14.5AH Lateral	0+00	88+34	8834	84	Prestressed Concrete Cylinder Pipe
New Highway 371	1+50	6+40	490	rect. 8'6"x9'	Reinforced Concrete Box
Kutz Discharge Line	0+00	160+63	16063	66	Reinforced Concrete Pressure Pipe
Hwy550 Siphon	122+13	126+60	447	72	Reinforced Concrete Pressure Pipe
Gallegos Discharge Line	0+00	159+15	15915	120	Cement Mortar Lined Steel Pipe w/Polyethylene tape system
New Highway 371 Siphon	265+65	270+25	460	rect. 9'10"x8'	2 Barrel Reinforced Concrete Box
Rd 4145 Siphon	325+48	328+20	272	rect. 9'10"x8'	2 Barrel Reinforced Concrete Box

## Operations, Maintenance, & Replacement Scope of Work for CY 2026

The NIIP Headworks at Navajo Dam, station 2+00 to 7+22.28 Tunnel 1 from station 7+22.28 to station 113+03, siphon and open canal from station 113+03 to station 128+00, Tunnel 2 from station 135+00 to 393+20, unlined canal from station 393+70 to 426+20, Cutter Reservoir and Dam from station 426+20 to 469+16, used to regulate the releases of water into the NIIP main canal system. The main canal includes siphons (8.9, Largo, 16.7, 17.9, Armenta, and Kutz Siphons), open canal, and tunnels (Tunnel 3, 3A, and 4) from Cutter Radial Gate station 469+16 to Check Structure 1554+38.

The water levels are adjusted and used as storage with six check structures on the Main Canal between Cutter Radial Gate and Kutz Pumping Plant at stations 563+02, 718+53, 945+37, 1065+95, 1222+40, and 1397+61. At station 1554+38 the water level is adjusted so that Kutz Pumping Plant fills the 66-inch diameter pipeline from Kutz Pumping Plant to the Coury Open Channel Lateral (station 79+90 to station 296+75) and two (2) lifts adequate water for the Block 5 required volume.

From MC station 1554+38 to MC station 1922+50, water travels by open channel canal, siphon (West Kutz and Horn Siphons), and tunnel (Highway 550 crossing), water is delivered to ten (10) pumping plants in North Blocks 1 & 4 (County Road 7010 and North). North Block 1 pumping plants are: MC33.3R, MC34.9R, MC36.3R, Individual plants I-07, I-08, and I-10. One (1) individual gas plant I-15 was deleted from service per the 2001/2002 Block 1 Redevelopment. North Block 4 pumping plants are: MC33.1L, MC33.8L, MC34.3L, and MC36.3L.

From MC station 1922+50 to MC station 2259+40, open canal, water is delivered to thirteen (13) pumping plants in part of South Block 4 and all of South Block 1. Partial South Block 4 pumping plants consist of: MC39.3L, MC41.6LA, MC41.6LB, and MC41.6LC. South Block 1 pumping plants are: MC38.8R, MC40.3R, Individual plants I-26, I-33, I-51, I-54, and I-55A/B/C. Two individual gas plants, I-19 and I-41 were deleted from service per the 2001/2002 Block 1 Redevelopment.

From MC station 2259+40 to MC station 2457+25, siphon (East and West Gallegos Siphons) and open channel, water is delivered to the remaining four pumping plants. The balance of South Block 4 pumping plants consists of: MC43.8L, MC45.7LA, MC45.7LB, MC45.7LC.

Gravity Main (GM) Canal starts GM station -1+12.45 to GM station 38+00, open channel canal, excess water can be discharged by means of the Gallegos waste-way gate structure at GM station 26+25 and GM station 35+50. The control center regulates water for Gallegos Pumping Plant at GM station 34+00, which serves Burnham Laterals (West and Reach 1), Block 8 fields, and Block 9 (Total Fields 30) 9-23B, 9-30B, 9-34, 9-38A/B, 9-39, 9-46, 9-47A/B, 9-51, 9-53A/B, 9-54A/B, 9-59, 9-60, 9-61, 9-62A/B, 9-63A/B, 9-64, 9-66, 9-78A/B, 9-80A/B/C, and future Blocks 9, 10, 11.

From GM station 38+00 to GM station 393+98, open channel canal, Road 7100 siphon and GM station 361+50 waste-way, water is regulated to serve one pumping plant (GM7.5LA) which feeds two inline booster plants (GM7.5LC, GM7.5LE).

From GM station 393+98, water continues to flow through Tunnel 5, open channel canal to the Bifurcation GM station 517+35, check structure GM station 517+57 on the Gravity Main canal and check structure Amarillo station 1+50 on the Amarillo canal. These two radial gate check structures regulate water into the two respective canals.

GM station 517+57 to GM station 624+00, Highway 371 and open channel canal, water is regulated to serve four pumping plants (GM11.1L, GM11.3L, GM11.4R, and GM11.4L) in Block 6. GM station 624+00 to GM station 763+14, two siphons (Road 4060 and Highway 3003 siphons), open channel canal and excess water can be discharged by means of the waste-way at GM station 762+39, water is regulated to serve the remaining eight pumping plants (GM12.0R, GM12.2L, GM12.6L, GM12.9L, GM13.3L, GM13.4R,

GM14.1R, GM14.3R) in Block 6. GM12.0R, GM12.9L, and GM14.1R have been taken out of service. GM station 763+14 also is Block 2 (GM14.5R) pumping plant has four gas driven vertical pumping units for distribution the water enters an 84-inch diameter gravity PCCP pipeline and into Block 2.

Amarillo canal starts at Amarillo station 0+96.54 to Amarillo station 45+96, Amarillo station 1+50 check structure, 371 Hwy siphon and open canal, water is regulated to serve two pumping plants (A0.6R, A0.8L) in Blocks 6 & 7. Amarillo station 45+96 to Amarillo station 246+70, Road N4055 bridge crossing and open canal, water is regulated to serve eight (8) pumping plants (A0.9R, A1.5R, A2.1R, A3.1R, A3.2R, A3.7R, A4.2R, and A4.5R) in Blocks 6 & 7. This section includes a siphonic waste-way at Amarillo station 245+50. Amarillo station 246+70 to Amarillo station 436+00, Road N4065 bridge crossing and open canal, water is regulated to serve five (5) pumping plants (A4.9R, A5.4R, A5.9R, A6.4R, and A6.9R) in Block 7. Amarillo station 436+00 to Amarillo station 604+50, consist of open lined and unlined canal, water is regulated to serve Block 3 A10.9L pumping plant and Gravity Lateral A11.2AH a 72-inch diameter pipeline, distributes water to remaining balance of Block 3. This section includes an overflow waste-way at Amarillo station 604+00.

Burnham Lateral West (BLW) station 289+90.39 to BLW station 396+00, 371 Hwy siphon and N4055 and open canal, water is regulated to serve three (3) pumping plants in operation (B2.1R, B3.1C, and B3.1AH) and Gravity Lateral B3.1G. A 48-inch diameter pipeline distributes water to remaining balance of Block 8, and Block 9 has (2) pumping plants in operations (B1.0L and B2.9L)

Burnham Lateral Reach 1 (BLR1) station 5+15 to (BLR1) station 255+00, county road 7030 bridge and open canal, water is regulated to serve two (2) pumping plants in Block 9 (B0.1R and B0.6R). B1.0R and B0.6R are currently not in operation, stage 2 and 3 are not yet constructed. This section includes an overflow waste-way at (BLR1) station 140+00.

The carriage system terminates at the end of Gravity Main canal (station 763+14) and Amarillo canal (station 604+50) and Burnham West lateral (station 396+00) and Burnham Reach 1 (station 255+00).

The DISTRIBUTION SYSTEM includes the Kutz, Gallegos, and (future Chaco & Moncisco) lift pumping and/or pressurization plants and the underground pipelines and laterals that convey water from the canals to the farm delivery units. There are currently 64 pressurized/gravity pumping plants in Blocks 1 – 7. In Blocks 8 – 9 there are currently 5 pressurized/gravity pumping plants.

The Drain System includes 349.2 miles of collector drains to handle 10-year and 25-year frequency storm runoff and irrigation return flow. These drains are trapezoidal, with 2:1 side slope. The slope of the drain is designed to provide a maximum of 3 feet per second to prevent erosions. They are unlined with base widths ranging from 4 to 10 feet.

### **1.3 BLOCK BY BLOCK DESCRIPTION**

#### **1.3.1 BLOCK 1**

There are 12 pumping and/or booster plants with a total of 38 pumps totaling 2,871 horsepower. Of these, (5) are multi-unit plants with four, five or six natural gas engines, driving vertical pumps. The multi-unit plants also, each, use one electric driven vertical pump to fill the lateral pipelines systems at the beginning of each irrigation season or during the season if a pumping plant goes down, resulting in a drainage of the lateral pipeline. In addition, these pumps are scheduled to pump water to wash debris from the traveling water screens (TWS), thus serving to keep the irrigation water entering underground lateral system free of unwanted debris. Pumping plants MC33.3R, MC34.9R MC36.3R, MC38.8R and MC40.3R all have elevated tanks; bowl size ranging from 30,000 to 100,000 gallons. The power for the five TWS electric spray pumps and the automatic controls hardware in the pumping plants is supplied from the Gallegos Substation,

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located some ten miles southeast of NAPI HQ next to County Road 7100. The electric service is by overhead cable, along the Main canal. Each electrical multi-engine pumping plant has a transformer and switching gear. Power and energy are supplied by Western Area Power Administration (WAPA) through the Public Service Company of New Mexico (PNM substation) on the south side of Gallegos Substation, with distribution by the NIIP high lines. The invoicing to NAPI O&M for NIIP power is through WAPA. Pumping plants MC33.3R, MC34.9R, MC36.3R, MC38.8R and MC40.3R gas engines are fueled by natural gas supplied by New Mexico Gas Company.

Also, Block 1 have (7) plants with electrically driven vertical or centrifugal water pumps. Originally, there were (11) natural gas driven pumping units, which the BIA-NIIP replaced with single electric motors and abandoned, after the 2001/2002 Block 1 Redevelopment Project. These gas engines had a twelve-volt Murphy control panel, with storage batteries and alternators. The MC36.3R Gravity lateral system, serving six field delivery units (1-13, 1-18, 1-24, 1-25, 1-28 and 1-29), operates on gravity pressure from the elevated canal system. The Block 1 lateral pipelines vary from 36 to 6 inches in size, steel, mortar coated inside and out or asbestos cement pipes, for a total 102,960 linear ft. of pipeline. The (71) delivery pumps and the (5) spray pumps create a total of (38) pumps for Block 1.

In Block 1 there are 77 delivery units, these units serve 7,898 acres of land capable of being irrigated from the NIIP facilities.

**Table 1 – Block 1 Gas & Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
33.3R	1	Gas (G)	Vertical (V)	2205	170	82	150	E/V – 1		238	233	20
	2	G	V	2205	170	82	150					
	3	G	V	1125	170	84	150					
	4	G	V	1125	170	84	150					
34.9R	1	G	V	2115	83	83	150	E/V – 1		238	233	20
	2	G	V	2115	83	83	150					
	3	G	V	1035	83	82	90					
	4	G	V	1035	83	82	90					
36.3R	1	G	V	3276	169	83	225	E/V – 1		238	233	20
	2	G	V	1638	169	82	225					
	3	G	V	1638	169	82	150					
	4	G	V	1638	169	82	150					
38.8R	1	G	V	5850	110	83	225	E/V – 1		238	233	20
	2	G	V	5850	110	83	225					
	3	G	V	5850	110	83	225					
	4	G	V	2925	110	80	225					
	5	G	V	1485	110	82	90					
	6	G	V	1485	110	82	90					
40.3R	1	G	V	3366	161	84	225	E/V – 1		238	233	20
	2	G	V	3366	161	84	225					
	3	G	V	3366	161	84	225					
	4	G	V	1683	161	84	150					
	5	G	V	1683	161	84	150					
I-7	1	Electric I	Centrifugal I	1179	165		25					
I-8	a	E	C	1746	145	82	40					
	b	E	C	580	64		15					
I-10	Deleted											
I-15	Deleted											
I-18	Deleted											
I-19	Deleted											
I-26	1	E	V	567	159		31					

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I-33	1	E	V	1651	155	81	85					
I-41	Deleted											
I-51	1	E	V	1794	167	82	98					
I-54	1	E	V	900	158	81	47					
I-55	a	E	C	607	135		30					
	b	E	C	607	122		30					
	c	E	C	424	120		20					
<b>TOTALS</b>	<b>33</b>	<b>23-G</b> <b>15-E</b>	<b>31-V</b> <b>7-C</b>	<b>65351</b> <b>GPM</b>	<b>2037</b> <b>TDH</b>			<b>4,120</b> <b>HP</b>	<b>5</b>	<b>1190</b>	<b>233</b>	<b>100</b>

### 1.3.2 BLOCK 2

Block 2 has (1) multi-stage pumping plant, GM14.5R, with four natural gas engines, capable of 900 total horsepower, driving vertical pumps. GM14.5R pumping plant serves (9) field delivery units. The GM14.5R plant has three electric drive vertical pumps: (1) is a jockey pump that is tied into the lateral line. GM14.5R pumping plant is also the check inlet to GM14.5AH Gravity lateral 84" pipeline, delivering water to (72) field delivery units. (2) TWS spray pumps are for pressurizing water to wash debris from the three traveling water screens. Block 2 totals seven pumps, four gas engines and three electric motors, for maintenance considerations.

The Block 2 laterals consist of steel, mortar coated inside and out or asbestos cement pipe, sized 84-inch to 6 inches, and totals 206,775 linear ft. of pipeline. The power line to Block 2 plant is from Gallegos Substation to the tap structure near the bifurcation of Gravity Main and Amarillo Canal overhead distribution line. GM14.5R gas engines are fueled by natural gas supplied by New Mexico Gas Company.

In Block 2 there are (81) delivery units and these units add up to 8,660 acres of land capable of being irrigated from the NIIP facilities.

**Table 2 - Block 2 Gas Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
G14.5R	1	Gas (G)	Vertical (V)	3406	137	83	225		E/V - 1	449	137	20
	2	G	V	3406	137	83	225	E/V - 1		288		20
	3	G	V	3406	137	83	225	E/V - 1		288		20
	4	G	V	3406	137	83	225					
<b>TOTALS</b>	<b>4</b>	<b>4 - G</b>	<b>4 - V</b>	<b>13624</b>	<b>137</b>		<b>900</b>	<b>2</b>	<b>1</b>	<b>1025</b>	<b>137</b>	<b>60</b>

### 1.3.3 BLOCK 3

Block 3 has (1) multi-unit pumping plant, A10.9L, with three natural gas engines driving vertical pumps. The motors are capable of 675 total horsepower, and they serve eleven field delivery units. The plant includes an electric jockey pump, which provides a constant pressure on the lateral line when it is full. For maintenance scheduling, the total are six pumps, three gas engines and three electric motors.

The remaining 59 field delivery units are gravity pressurized by lateral A11.2AH, which starts at Amarillo station 604+50, at the terminus of Amarillo Canal. Amarillo station 604+50 consists of a structure with two electric drive traveling water screens, an electric spray pump for debris wash water and a Remote Transmitting Unit (RTU). The NIIP power line is overhead, originating from the Gallegos Substation. A10.9L gas engines are powered by natural gas supplied by Navajo Tribal Utility Authority (NTUA). Block 3 Lateral pipe size diameters are up to 72-inch down to 6 inches, and totals 172,089 linear ft. of pipeline. Pipeline materials consist of steel, mortar coated inside and out or asbestos cement type.

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In Block 3 there are (73) delivery units and these units add up to 7,795 acres of land capable of being irrigated from the NIIP facilities.

**Table 3 - Block 3 Gas Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
A10.9L	1	Gas (G)	Vertical (V)	3667	126	82	225		E/V - 1	449	126	20
	2	G	V	3667	126	82	225	E/V - 1				25
	3	G	V	3667	126	82	225					
604+50	3	G						E/V - 1		301		
<b>TOTALS</b>	<b>3</b>	<b>3</b>	<b>3-V</b>	<b>11001</b>	<b>126</b>		<b>675</b>	<b>2</b>	<b>1</b>	<b>449</b>	<b>126</b>	<b>45</b>

**1.3.4 BLOCK 4**

There are (10) multi-unit pumping plants and (1) single plant with a total of 38 pumps totaling 14,968 horsepower. (7) Of the (11) plants have from two to eight electric drive motor, vertical pumps. Also, each plant has a vertical water pump, six to eight stages, that are used with the traveling water screens. (3) of the (11) plants have from two to six electric drives, centrifugal pumps that are double suction, single stage configuration. These are connected on both sides by pipeline and thus could be classified as booster pumps. The pumps and motors total (46) each, all requiring maintenance. Pumping Plants that are equip with Hydro Tank (MC33.1L, MC34.3L, MC36.3L, MC41.6LA, MC45.7LA has two hydro tanks, and MC45.7LB), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral. Pumping plants MC36.3L, MC41.6LA, MC45.7LA, and MC45.7LB all have elevated tanks; bowl size ranging from 200,000 to 350,000 gallons. The Block 4 lateral pipe diameters are sized up to 48-inch, down to 6 inches and totals 153,158 linear feet of pipeline. Pipeline materials consist of cement-mortar lined and coated steel pipe, fiber reinforced plastic mortar (FRPM) pipe and asbestos cement (AC) pipe. In Block 4 there are (76) delivery units, which deliver water to 9,026 acres of land capable of being irrigated from the NIIP facilities.

**Table 4 - Block 4 Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
33.1L	1	Electric (E)	Vertical (V)	1791	329	75	200		E/V - 1	112	261	15
	2	E	V	615	329	72	75					
	3	E	V	283	329	70	40					
33.8L	1	E	V	2356	345	78	250					
34.3L	1	E	V	1503	260	74	125		E/V - 1	112	209	10
	2	E	V	848	260	74	75					
36.3L	1	E	V	6292	365	81	700	E/V - 1		251	234	20
	2	E	V	3433	365	77	400					
	3	E	V	1782	365	77	250					
	4	E	V	1782	365	77	250					
39.3L	1	E	V	2123	311	74	200		E/V - 1	112	247	15
	2	E	V	1037	311	74	125					
41.6LA	1	E	V	7181	441	80	1000	E/V - 1		314	234	25
	2	E	V	7181	441	80	1000					
	3	E	V	7181	441	80	1000					
	4	E	V	3694	441	78	500					
	5	E	V	1894	441	78	300					
	6	E	V	1894	441	76	300					
41.6LB	1	E	Centrifugal (C)	1275	18	53	15					
	2	E	C	1275	18	53	15					
41.6LC	1	E	C	1225	35	78	15					
	2	E	C	521	35	60	7.5					
43.8L	1	E	V	1225	288	78	125		E/V - 1	112	224	10
	2	E	V	848	288	73	100					
45.7LA	1	E	V	6391	405	81	800	E/V - 1				

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	2	E	V	6391	405	81	800					
	3	E	V	6391	405	81	800					
	4	E	V	6391	405	81	800					
	5	E	V	6391	405	81	800					
	6	E	V	3191	405	78	400					
	7	E	V	1764	405	78	250					
	8	E	V	1764	405	78	250					
45.7LB	1	E	C	6014	273	79	700	EV - 1	314	234	25	
	2	E	C	6014	273	79	700					
	3	E	C	6014	273	79	700					
	4	E	C	3097	273	85	400					
	5	E	C	1589	273	72	200					
	6	E	C	1589	273	72	200					
<b>TOTALS</b>	<b>38</b>	<b>38</b>	<b>26-V 12-C</b>	<b>122230 GPM</b>	<b>3070 TDH</b>		<b>14967.5 HP</b>	<b>4</b>	<b>4</b>	<b>1327</b>	<b>1643</b>	<b>120</b>

### 1.3.5 BLOCK 5

Block 5 has (12) booster plants, with one exception, C0.9L, that is not in use. In addition, to the Kutz Lift Pumping Plant there are a total of (43) motors, and pumps totaling 19,190 horsepower. Kutz utilizes five (5) 4,160-volt synchronous motors coupled to horizontal, centrifugal-type pumps with hydraulically operated cone-type discharge valves. Kutz Pumping Plant diverts water from the NIIP Main Canal station 1523+10, elevation 5915 ft, into a 66 inches diameter discharge pipeline and lifts water, 283 feet, to an elevation of 6198 feet into the Coury Lateral an open channel lateral at Coury station 48+80, which provides water to the lateral pumping plants in Block 5. Kutz is controlled by manual operation. Power is supplied to Kutz from the Kutz Substation via an overhead electrical line constructed in 1994; two (2) transformers, 34.5kv/4.16kv and 34.5kv/480v, are placed in the pumping plant switchyard, adjacent to Kutz Pumping Plant. Plant power usage at Kutz Pumping Plant include four large evaporative coolers, an overhead crane, the remote transmitting system, automatic controls in the plant and underground cable from the switchyard to the Main Canal station 1554 + 39, a radial gate check structure.

Along the Coury Lateral, the first pumping plant has three variable speed motors driving vertical water pumps. Also, an eight-stage jockey pump for filling the lateral lines and an eight-stage jockey pump for filling the lateral line and an eight-stage spray water pump for the traveling water screen. Pumping Plants that are equipped with Hydro Tank (C0.9R, C4.4A, and C4.4B), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral.

Eight (8) of the Coury plants are multi-unit with single-speed motor with vertical turbine pump. (3) of the Coury plants are single-speed motors with vertical turbine pumps. (1) of the Coury plant has multi-units with variable adjustable speed motors with vertical turbine pumps. (2) of the Coury plants are single speed motors with horizontal-split case pumps. C0.9R and C4.4A have jockey pumps to fill the lateral and to remove debris. Pumping plants C2.0R, C2.7L, and C4.4B all have elevated tanks; bowl size ranging from 200,000 to 250,000 gallons. Pumping Plants that are equipped with a Hydro Tank (Kutz, C0.9R, C2.7L, C4.4A, & C4.4B), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral. This booster plant supplies one field delivery unit. The Block5 lateral pipe diameters are sized from 42 to 6 inches and total 131,880 feet of pipeline. Pipeline materials consist of cement-mortar lined and coated steel pipe, and asbestos cement pipe.

Kutz Substation supplies electrical power to Block 5 pumping and booster plants with transformers and switching at each plant. A control cable is buried along some of the lateral, between the elevated water tanks and the plants, for feedback and control circuits.

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In Block 5 there are (54) delivery units and these units add up to 8,460 acres of land capable of being irrigated from the NIIP facilities.

**Table 5 - Block 5 Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power			
Kutz	1	Electric (E)	L	23248	370	83	3000								
	2		L	23248	370	83	3000								
	3		L	23248	370	83	3000								
	4		L	12252	370	81	1500								
	5		L	12252	370	81	1500								
C0.9L	Deleted														
C0.9R	1	E	V	1795	174	76	150	E/V - 1		157	234	15			
	2	E	V	1795	174	77	150		E/V - 1	120	175	7.5			
	3	E	V	1795	174	78	150								
C1.2R	1	E	V	1248	163	75	75								
C2.0R	1	E	V	6400	139	75	350	E/V - 1		189	234	20			
	2	E	V	6400	139	75	350								
	3	E	V	6400	139	74	350								
	4	E	V	6400	139	73	350								
	5	E	V	6400	139	74	350								
	6	E	V	3294	139	73	150								
	7	E	V	1692	139	78	75								
	8	E	V	1692	139	75	75								
C2.4R	1	E	V	1728	166	75	100								
	2	E	V	1728	166	75	100								
C2.7L	1	E	V	7244	377	78	1000	E/V - 1		220	234	20			
	2	E	V	3725	377	77	450								
	3	E	V	1912	377	76	250								
	4	E	V	1912	377	76	250								
C2.9R	1	E	V	1512	154	73	75								
	2	E	V	1512	154	73	75								
C3.2R	1	E	V	1055	148	75	60								
C4.4A	1	E	V	1872	213	78	125	E/V - 1		238	234	20			
	2	E	V	1297	213	78	100		E/V - 1	112	192	10			
	3	E	V	960	213	72	75								
C4.4B	1	E	Centrifugal (C)	6373	260	78	600								
	2	E		C	1885	260	78	600							
	3	E		C	3258	260	76	300							
	4	E		C	1696	260	75	200							
	5	E		C	1695	260	75	200							
C4.4C	1	E	C	1800	143	78	100								
C4.4D	1	E	V	1391	157	70	75								
<b>TOTALS</b>	<b>37</b>	<b>37</b>	<b>26-V</b>	<b>184594</b>	<b>2680</b>		<b>19190</b>	<b>4</b>	<b>2</b>	<b>1036</b>	<b>1303</b>	<b>92.5</b>			
			<b>6-C</b>										<b>GPM</b>	<b>TDH</b>	<b>HP</b>
			<b>5-L</b>												

**1.3.6 BLOCK 6**

Block 6 consists of (19) booster plants with (40) electric motors and vertical pumps with the four (4) exception that are not in use (G12.0R, G12.9L, G14.1R, & G14.3L). The remaining (10) plants are single motor/pump units, of 20 to 75 horsepower. The United States Bureau of Reclamation modified the multi-unit pumping plant designs within Block 2, to eliminate the requirement for spray pumps and jockey pumps. This was accomplished by teeing off the manifold inside the plants of unit #1 and connected to the TWS.

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A trash screen remains part of the design, but the total number of pumps is reduced. The GM13.3L plant retains the jockey and spray pump configuration, as this plant was one of the first to be constructed on Block 6. Pumping Plants equipped with a TWS are GM7.5LA, GM13.3L, & GM14.3R. Pumping Plant equipped with a Hydro Tank (GM13.4R), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral. There are (40) delivery pumps and motors and two auxiliary pumps and motors that require maintenance scheduling. Pumping plants GM7.5LA, GM13.3L, and GM13.4R all have elevated tanks; bowl size ranging from 200,000 to 75,000 gallons. Pumping Plants that are equipped with a Hydro Tank include: (GM7.5LA, GM13.3L & GM13.4R), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral. Three large pumping plants utilize automation. There are 85,763 ft. of laterals lines, ranging from 54 to 6 inches in diameter. They consist of either Poly Vinyl Chloride or asbestos cement pipe. Power source for Block 6 comes from Gallegos Substation to the tap structure near the bifurcation of the Gravity Main Canal and Amarillo Canal through 45,091.2 ft. of overhead high lines.

In Block 6 there are (43) delivery units and these units add up to 7,028 acres of land capable of being irrigated from the NIIP facilities.

**Table 6 - Block 6 Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
G7.5LA	1	Electric (E)	Vertical (V)	6530	344	75	800					
	2	E	V	6530	344	75	800					
	3	E	V	6530	344	75	800					
	4	E	V	6530	344	75	800					
	5	E	V	6530	344	75	800					
	6	E	V	3366	344	76	400					
	7	E	V	1723	344	74	200					
	8	E	V	1723	344	74	200					
G7.5LC	1	E	Centrifugal (C)	1571	63	72	40					
	2	E	C	1122	63	73	30					
G7.5LE	1	E	C	1468	69	76	60					
	2	E	C	1167	69	73	30					
	3	E	C	494	69	64	15					
G11.1L	1	E	V	942	169	74	60					
	2	E	V	718	169	75	20					
G11.3L	1	E	V	1257	155	73	75					
	2	E	V	494	155	69	30					
G11.4R	1	E	V	896	233	75	75					
G11.4L	1	E	V	1032	181	73	75					
G12.0R	Deleted											
G12.2L	1	E	V	494	190	72	30					
G12.6L	1	E	V	673	148	40	74					
G12.9L	Deleted											
G13.3L	1	E	V	4784	170	71	250	E/V - 1		283	234	25
	2	E	V	4784	170	71	250		E/V - 1	238	130	
	3	E	V	4784	170	71	250					
	4	E	V	2827	170	74	150					
	5	E	V	1436	170	73	75					
	6	E	V	718	170	71	40					
G13.4R	1	E	V	3115	361	75	350					
	2	E	V	1598	361	72	200					
	3	E	V	1598	361	72	200					
G14.1R	Deleted											

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G14.3L	Deleted												
G0.6R	1	E	V	583	179	73	40						
	2	E	V	449	179	72	30						
A0.9R	1	E	V	628	148	72	40						
A1.5R	1	E	V	1436	156	72	75						
A2.1R	1	E	V	1436	169	72	100						
	2	E	V	1436	169	72	100						
<b>TOTALS</b>	<b>40</b>	<b>40</b>	<b>35-V</b>	<b>85375</b>	<b>3425</b>			<b>7649</b>	<b>1</b>	<b>1</b>	<b>521</b>	<b>364</b>	<b>25</b>
			<b>5-C</b>	<b>GPM</b>	<b>TDH</b>			<b>HP</b>					

**1.3.7 BLOCK 7**

This block consists of (11) booster pumping plants located along the Amarillo Canal with a total of (31) electric motors and vertical turbine pumps. Pumping Plant A0.8L serves as a lift and booster plant. The eleven plants have the combined maximum capacity to deliver 87,912 gallons per minute of irrigation water to the fields with a total horsepower of 6,295. (3) of the plants (A3.2R, A3.7R, and A4.2R) are single units motor/pump combination whereas (5) plants are dual units (A4.9R, A5.4R, A5.9R, A6.4R and A6.9R). (3) pumping plants (A3.1R, A0.8L, and A4.5R) are multi-units with six electric drive motors and pumps in each plant. Pumping Plant equip with Hydro Tank (A0.8L), the hydro tank is a barrier between the air and water, which prevents water logging, it can also provide cushion to maintain necessary pressure in the lateral. Pumping plants A0.8L, A3.1R, and A4.5R all have elevated tanks; bowl size ranging from 250,000 to 100,000 gallons.

The laterals and sub-laterals are off A0.8L, A4.5R, and A3.1R. Plant A3.1R has welded steel pipe varying in size from 42 inches diameter to 16 inches and 12 inches diameter PVC pipe. Plant A0.8L has welded steel pipe varying in diameter from 36 to 30 inches and PVC pipe varying in diameter from 27 to 10 inches. Laterals A4.5R and A0.8L have welded steel pipe varying in diameter from 36 to 27 inches and PVC pipes of 10-, 15-, 18-, 20-, and 24-inches diameter. The total length of the laterals and sub-laterals is 82,896 ft. In Block 7 there are (45) delivery units and these units add up to 8,890 acres of land capable of being irrigated from the NIIP facilities.

**Table 7 - Block 7 Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
A0.8L	1	Electric (E)	Vertical (V)	5854.88	361	75	700	E/V - 1				
	2	E	V	5854.88	361	75	700					
	3	E	V	5854.88	361	75	700					
	4	E	V	2917.2	361	72	350					
	5	E	V	1481.04	361	70	200					
	6	E	V	1481.04	361	70	200					
A3.1R	1	E	V	5520.24	147	73	300	E/V - 1		346	75	
	2	E	V	5520.24	147	73	300					
	3	E	V	5520.24	147	73	300					
	4	E	V	3612.84	147	73	200					
	5	E	V	1525.92	147	73	100					
	6	E	V	1525.92	147	73	100					
A3.2R	1	E	V	753.984	161	68	50					
A3.7R	1	E	V	1319.47	178	70	100					
A4.2R	1	E	V	1319.47	183	70	100					
A4.9R	1	E	V	1077.12	168	70	60					
	2	E	V	1077.12	168	70	60					
A4.5R	1	E	V	7225.68	154	74	350	E/V - 1		346		15
	2	E	V	7225.68	154	74	350					

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	3	E	V	7225.68	154	74	350					
	4	E	V	3884.65	154	72	200					
	5	E	V	1795.2	154	73	100					
	6	E	V	1795.2	154	73	100					
A5.4R	1	E	V	1319.47	175	70	100					
	2	E	V	1077.12	175	70	75					
A5.9R	1	E	V	1319.47	173	70	100					
	2	E	V	753.984	173	68	50					
A6.4R	1	E	V	1319.47	180	70	100					
	2	E	V	753.984	180	68	50					
A6.9R	1	E	V	1319.47	180	70	100					
	2	E	V	753.984	180	68	50					
<b>TOTALS</b>	<b>31</b>	<b>31</b>	<b>31-V</b>	<b>87912</b>	<b>1880</b>		<b>6295</b>	<b>3</b>	<b>692</b>	<b>75</b>	<b>15</b>	
				<b>GPM</b>	<b>TDH</b>		<b>HP</b>					

**1.3.8 BLOCK 8**

Transferred in 2012, this block has one booster pumping plant (B2.1R) located along the Burnham West lateral with a total of (5) electrical motors and vertical turbine pumps. The B2.1R pumping plant maximum capacity delivers 16,947 gallons per minute of irrigation water to the fields with a total horsepower of 1,055. The laterals and sub-laterals are off B2.1R and B3.1G. Laterals B2.1R and B3.1G have welded steel pipe and PVC pipe varying in diameter from 48 to 8 inches. Pumping plants B2.1R, B3.1C, and B3.1AH all have elevated tanks; bowl size ranging from 250,000 to 100,000 gallons.

The B3.1AH pumping plant maximum capacity delivers 43,200 gallons per minute of irrigation water to the fields with a total horsepower of 1,793. The B3.1C pumping plant maximum capacity delivers 43,200 gallons per minute of irrigation water to the fields with a total horsepower of 3,190. The B3.1AH and B3.1C plants have Fill pumps to fill the lateral at the start-up. Laterals B3.1AH and B3.1C have welded steel pipe and PVC pipe varying in diameter from 48 to 8 inches.

B2.1R, B3.1G, B3.1AH, and B3.1C pumping plants are located on the Burnham Lateral and consist of (18) electrical motors and vertical pumps. B3.1C and B3.1AH were transferred in 2018.

In Block 8 there are (129) farm units and these units add up to 12,573 acres of land capable of being irrigated from the NIIP facilities. The total length of the laterals and sub-laterals is 186,384 ft.

**Table 8 - Block 8 Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency*	Horse-power*	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
B2.1R	1	Electric(E)	Vertical (V)	5570	192	77	350					
	2	E	V	5570	192	77	350	E/V - 1				
	3	E	V	2863	192	79	175					
	4	E	V	1472	192	79	90					
	5	E	V	1472	192	79	90					
B3.1AH	1	E	V	8100	122	84	350	S/E/V				30
	2	E	V	8100	122	84	350	N/E/V				30
	3	E	V	8100	122	84	350					
	4	E	V	8100	122	84	350					
	5	E	V	3300	123	82	125					
	6	E	V	3300	123	82	125					

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B3.1C	7	E	V	3300	123	82	125
	Fill	E	V	900	60	77	18
	1	E	V	8100	213	85	600
	2	E	V	8100	213	85	600
	3	E	V	8100	213	85	600
	4	E	V	8100	213	85	600
	5	E	V	3300	214	83	250
	6	E	V	3300	214	83	250
	7	E	V	3300	214	83	250
	Fill	E	V	900	120	79	40
<b>TOTAL</b>	<b>21</b>	<b>21-E</b>	<b>21-V</b>	<b>86,400</b>	<b>2,531</b>		<b>4,983</b>

\*Estimated

### 1.3.9 BLOCK 9

Transferred in 2018, located along the Burnham West lateral with a total of eleven electrical motors and vertical turbine pumps. The B1.0L pumping plant maximum capacity delivers 10,590 gallons per minute of irrigation water to the fields with a total horsepower of 950. The B2.9L pumping plant maximum capacity delivers 24,570 gallons per minute of irrigation water to the fields with a total horsepower of 3,400. Laterals B1.0L and B2.9L are made of welded steel pipe and PVC pipe varying in diameter from 48 to 8 inches. Pumping plants B1.0L and B2.9L have elevated tanks; bowl size ranging from 250,000 to 100,000 gallons. The B1.0L and B2.9L plants have fill pumps to fill the lateral at the start-up.

In Block 9 there are (47) farm units and these units add up to 3,470 acres of land capable of being irrigated from the NIIP facilities.

**Table 9 - Block 9 Electric Powered Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
B1.0L	1	Electric(E)	Vertical (V)	3230		*	300					
	2	E	V	3230		*	300					
	3	E	V	1615		*	150					
	4	E	V	1615		*	150					
	5	E	V	900		*	50					
B2.9L	1	E	V	6780		*	900					
	2	E	V	6780		*	900					
	3	E	V	3370		*	500					
	4	E	V	3370		*	500					
	5	E	V	3370		*	500					
	6	E	V	900		*	100					
<b>TOTAL</b>	<b>11</b>	<b>11-E</b>	<b>11-V</b>	<b>35,160</b>			<b>4,350</b>					

\*Estimated

**1.3.10 GALLEGOS PUMPING PLANT**

The Gallegos Pumping Plant was transferred October 1, 2016 from United States Bureau of Reclamation (USBR) Construction Status to the BIA's O&M Status.

The Gallegos Pumping Plant has a maximum water delivery of 885.93 cubic feet per second (CFS) with all its eight (8) centrifugal pumps operating at once. The purpose of the Gallegos Pumping Plant is to supply irrigation water to the Burnham Lateral West and Burnham Lateral Reach 1 from the Main Canal.

**Table 10 – Gallegos Electric Powered Pumping Plants**

Plant	Unit	Driver	Pump	GPM	TDH	Efficiency	Horse-power	Spray Pump	Jockey Pump	GPM	TDH Rated	Horse-power
GPP	1	Electric(E)	Centrifugal (C)	21095	300	*	2500					
	2	E	C	21095	300	*	2500					
	3	E	C	21095	300	*	2500					
	4	E	C	66876	300	*	7000					
	5	E	C	66876	300	*	7000					
	6	E	C	66876	300	*	7000					
	7	E	C	66876	300	*	7000					
	8	E	C	66876	300	*	7000					
<b>TOTAL</b>	<b>8</b>	<b>8-E</b>	<b>8-C</b>	<b>397,663</b>	<b>2400</b>		<b>42500</b>					

\*Will retrieved from Design Specifications

**1.4 WATER DELIVERY UNIT TURNOUTS**

The NIIP water delivery system terminates at delivery units (DU). There are (2) types DUs, the first type is constructed on concrete slabs above ground and the second type are located in concrete vaults below ground surface. Major components of a DU include the following:

- Isolation valves to perform maintenance.
- Upstream combination 2" air-release valves to admit air during filling/drainage and release air while in operations to prevent line breaks from hydraulic transient forces.
- Pressure gauges measure pressure in pounds per square inch (PSI).
- Flow meter to measure in gallons per minute (GPM) and used for recording the monthly amount of water delivered to each farm unit.
- Pressure reducing valve (PRV) diameters range from 6 inch to 16 inch. These contain copper tubing and mechanical solenoids to operate.
- Electrical solenoid that allows the PRV to open and operate normally.

The delivery units (DU) are as follows:

Block	1	2	3	4	5	6	7	8	9	Total
<b>No. of Delivery Units</b>	77	81	73	76	54	43	45	129	25	603

## **1.5 ELECTRICAL SYSTEM**

An integral part of the NIIP facilities is a network of electrical power distribution systems that consists of substations and transmission lines supplying power and energy to operate the various pumping plants to deliver irrigation water to the fields. The (3) substations are Gallegos, Kutz, and Pinabete, also includes (1) capacitor. From Gallegos substation to Kutz substation transmission line is 77,616 ft., and from Burnham tap on PNM's 230 kV line to Pinabete substation is 15,312 ft.

NIIP, as a participating project of the Colorado River Storage Project (CRSP) receives firm electrical power through a contract with the Department of Energy (DOE), Western Area Power Authority (WAPA). The Firm electric agreement No. 87-SLC-0014 was renewed on October 1, 2004. Contract No. 87-SLC-0014 term period is from October 1, 2004, through September 30, 2024. Contract No. 87-SLC-0014 WAPA is for the delivery of electricity to the Four Corners Plant of the Public Service Company of New Mexico (PNM). PNM, via their tap off the 230 KV Ambrosia-Four Corners line delivers electricity to the NIIP at Gallegos Substation. WAPA provides electrical power to NAPI in accordance with Interagency Firm electric Agreement No. 87-SLC-0014. Historically, WAPA once provided maintenance services through a separate maintenance service agreement. The last agreement, contract No. 10-SLC-0649, is now expired and NAPI - O & M is now responsible for subcontracting maintenance services on high voltage substations equipment. Exhibit C of Scope of Work for Operations, Maintenance and Replacement 1.1 introduction section on the maintenance services required.

The NIIP power system consists of the Gallegos, and Kutz substations and transmission lines operated at 115 kilovolts (kV) for Blocks 4 through 7 and Pinabete 230 kV for Blocks 8 through 11. The Kutz Substation serves the Kutz Pumping Plant Lift Station and the Block 5 pumping plants. Gallegos Substation serves Blocks 1, 2, 3, 4, 6, and 7 pumping plants. The Pinabete Substation (transferred 2024) serves Blocks 8 (totally transferred to BIA in FY2018) and Block 9 (transferred 2018). The pumping plants are served by overhead distribution lines along the canal embankments. The distribution lines, providing power from the substations, are operated at 34.5 kV for the lateral pumping plants in blocks 4 through 7, and for auxiliary equipment in Blocks 1, 2, and 3; and at 13.8 kV for the lateral pumping plants in Blocks 8 through 9. Electrical service to the upper end of the main canal, Navajo, and Cutter Dams and the upper (6) check structures are served by the City of Farmington.

Natural Gas pipelines provide natural gas to power the natural gas engines at the pumping plants at Block 1, Block 2, and Block 3. New Mexico Gas Company supplies natural gas to (5) large pumping plants in Block 1: MC33.3R, MC34.9R, MC36.3R, MC38.8R, MC40.3R and in Block 2 (GM14.5R). In Block 3 Navajo Tribal Utility Authority (NTUA) supplies natural gas to the pumping plant (A10.9L).

## **1.6 ROADS AND DRAINAGE**

The NIIP canal system has an open drainage and a dual road system that is parallel to the canals the entire length from Navajo Dam to the ends of the canals. The canal drain is a safety feature, to prevent damage from accidental overflows and to carry seepage away from the system. The roads, earthen in most instances, are for observation and maintenance of the canals and for access to the various pumping plants and NIIP facilities. There are (38) drainage systems along the canals and (52) culverts. In addition to the canals drain, there is an unlined 10-year flood system of surface collector drains 1,843,776 feet (350 miles), installed in Blocks 1, 2, 3, 4 and 5. A decision at United States Bureau of Reclamation (USBR) to not build out drainage in Blocks 6,7,8 and 9, due to the high cost of maintenance cleaning out sand. These drains also serve the purpose of minimizing and controlling the water table, due to irrigation.

There is a 15,826 feet interceptor drainage channel above the Cutter Reservoir inlet tunnel & canyon. The interceptor drains channel intercepts storm flows that are tributary to the Cutter Reservoir and conveys the flows through the channel to an outlet that is downstream of the canyon mouth and tunnel outlet. The drainage channel covers 103.71 acres over (2) parcels identified by the USBR as Tract No. 5-F.

## **1.7 BUILDINGS 371 DUTY STATION AND IRRIGATION SHOP**

There are (6) significant installations on the NIIP that are related to NIIP Operation and Maintenance. These are the Gallegos Pumping Plant, 371 Duty Station, the Supervisory Control and Acquisition Data Control Center, O&M Administration, Block 6 Shop and Warehouse at the corner of Highway N3003 and Highway 371. These facilities are for the purpose of supporting activities related to water delivery and maintenance of facilities. The 371 Duty Station has offices and a warehouse for the various maintenance sections, supply yard and shift change location for NIIP O&M employees who operate the water delivery system and who maintain its components. GSA Vehicles are based there, plus minor maintenance functions are performed to maintain yards. At the NAPI Main Office: the canal and pumping plant automatic system is located at the control center; the O&M dispatcher's monitors and communicates with the NIIP canal system. Water orders are received and submitted into daily water orders for operators. A system as-built, and specifications library is maintained for maintenance reference. The offices for Director of Operations 638 & Government Relations, Program Analyst, O&M Engineer, Operations Supervisor, NAPI SCADA Supervisor and Control Center are located at the NAPI Headquarters.

The Block 6 Shop and Warehouse facilities were built by the BIA with irrigation construction funds to ultimately provide the NIIP with an Irrigation O&M Shop. At present, a space utilization agreement is in effect that authorizes the Navajo Area/BIA Roads Department to base its Force Account operations at this facility. NAPI O&M is using (4) half-bays for repair of gas engines, gear hands, valves and heavy equipment, and during the winter repair of regulators and water meters. At a future date, NIIP O&M expects to utilize all the Block 6 Shop and Warehouse facilities.

## **SECTION TWO**

### **2 SCOPE OF WORK**

The individual narrative statements that follow have their corresponding budgets as presented in **EXHIBIT B, CHART B-1**.

#### **2.1 OPERATIONS**

The major budgeted operational functions include Utility Power, Labor, Materials and Transportation.

##### **2.1.1 POWER**

(Electric and Natural Gas) - NAPI purchases electrical power and energy from the Department of Energy, Western Area Power Administration (WAPA) under a firm electric agreement for the NIIP Operations. For advance maintenance, NAPI O&M provides maintenance service through maintenance subcontracts. The work is performed at Kutz, Gallegos, and Pinabete Substations, and the Gallegos Pumping Plant Tap. NIIP, as a participating project of the Colorado River Storage Project, has entitlement to federal power and energy. The reserved federal power is currently 75 megawatts. The cost code for WAPA is 8925.

NAPI also buys electric energy from the City of Farmington (COF) to operate facilities at Navajo Dam Headworks, Cutter Dam and the six check structures located between Cutter Dam and Kutz Pumping Plant. The cost code for COF is 8905.

NAPI procures natural gas from Navajo Tribal Utility Authority (NTUA) to operate the gas engine driven pumps in Blocks 3, A10.9L pumping plant. Natural gas is also purchased from New Mexico Gas Company to operate all multi-unit gas pumping plants in Blocks 1 and 2 (G14.5R, M33.3R, M34.9R, M36.3R, M38.8R and M40.3R). The cost codes for NTUA and NM Gas are 8915 and 8920, respectively.

### **2.1.2 LABOR, MATERIALS AND VEHICLES**

The labor, materials and vehicles required to perform the operation functions are accomplished by the Operations Division of the NAPI Operation and Maintenance Department and are dependent upon funding. The cost centers for labor, materials and vehicles are 2950, 4910 and 5975 respectively. The Branches within the Operations Division include Region I and II Canal Systems Technicians, and Control Center Operations. The tasks performed include:

- Operations of Navajo Dam Headworks parshall flume, Cutter Dam Headwork, and filling and draining the water conveyance and distribution systems each year. Navajo Dam Headworks fixed wheels and radial gates are open to start the water year in March to fill Cutter Dam Reservoir and the conveyance and distribution system. This system operates 24 hours per day, 7 days per week between March and October. Navajo Dam Headworks fixed wheels and radial gates and Cutter Dam Reservoir gates are closed in October to de-water the conveyance and distribution system. The mechanical department monitors standby generator, hydraulic valve oil seals, packing, and testing generator bi-weekly.
- Radial Gates at the Check Structures are used to regulate the flow of irrigation water in the system between Navajo Reservoir to Cutter Reservoir and from Cutter Reservoir to the NIIP pumping plants. The control center monitors the water levels within the NIIP canals using the Supervisory Control and Data Acquisition (SCADA) system on a frequent basis (10-minute intervals).
- During the water season barricades are erected and monitored throughout the water delivery period at siphon inlets and outlets and along canal rights-of-way for the protection and safety of wildlife, the public, and employees.
- Monitor canals and facilities along the canal that include observation of unusual occurrences such as embankment cracks, movement of concrete structures and foundations, embankment seepage, and increased vegetation growth. The NIIP canal and canal's rights-of-way are checked monthly and recorded in a daily report by the dam tenders. Any unusual findings are reported to the Control Center then evaluated by the Civil Works Department to determine maintenance repair scope. All repair work orders are logged into MAXIMO.
- Canal System Technicians (CST) operate and perform light maintenance at the (2) lift stations and (65) pumping plants, (7) individual plants, 7-booster plants and (2) Mobile Trailer Pumps using the daily water order provided by the control center. There a total of (206) pumps driven by (175) electric motors and (31) natural gas engines. Lift station Kutz Pumping Plant is manually operated; it is designed to lift water to a concrete lined open channel lateral called Coury Lateral.
- Read, record, and maintain meter readings at each turnout and prepare monthly water reports showing the amount released from Navajo and Cutter dam, conveyance losses, amount delivered to the fields and any other water uses. This data is used by the BIA for the annual irrigation and drainage report.
- Operate, evaluate, troubleshoot, and replace all computerized, automated supervisory control and data acquisition (SCADA) systems. Perform installation of equipment and monitor its operation and fine tuning the system. Replacements include lightning strikes or weather damaged equipment. There are (23) canal check structures with automation and (24) pumping plants with automation.
- Operations Maintenance, adjust and repair all pressure reducing valves (PRV) for proper flow rates (Q) and head pressure (PSI) delivered to the individual farm fields in the amount of approximately

66,398 acres planted in CY2019. The PRVs are maintained, adjusted, and repaired during water delivery season (March to October) to provide water to the farm fields and accurately measure water delivered. The PRV's are winterized, torn down for storage, after water delivery season and de-winterized prior to water delivery season. Blocks 1 through 9 have a total of (603) delivery units.

- Due to an annual shortfall of O&M funding, all cathodic protection work orders are deferred indefinitely. There are approximately (617) test sites that exist along lateral pipelines at joint structures and at pumping plants and none will be serviced or repaired in this upcoming calendar year, under the proposed Scope of Work 2026. Cathodic testing will be proposed in the Water Infrastructure for the Nation (WIIN) Act, as part of the deferred maintenance for NIIP, a new subpart J construction contract will be created for this project.
- The maintenance of the electrical transmission and distribution systems (115kV and 34.5kV respectively) during the irrigation season are accomplished by certified NAPI O&M electricians (Journeyman licensed EE98J - Medium Voltage and electrical installation) and by service & maintenance contracts with the City of Farmington and Western Area Power Administration (High Voltage 69kV+ Certified). Identified Risk include electrical outages and damages are created by weather related activities or wildlife in powerlines. Risk Responses typically include scoping what caused the outage and executing risk response planning.

For Emergency Procedures please see the following document, Exhibit F: Emergency Procedures – Standing Operating Procedures

### **2.1.3 CUTTER DAM AND CANAL EMBANKMENT MONITORING & SEEPAGE**

Monitoring seepage and clearing vegetation from Cutter Dam embankment or foundation is the responsibility of Navajo Nation Safety of Dams, which is performed monthly. Director of Operations 638 & Government Relations, Operations Supervisor and O&M Dispatcher are dam tenders. Dam tenders do visual inspections of Cutter Dam and canal embankments. Any findings will be reported to Navajo Nation Safety of Dams. Annual Dam Tender Trainings are scheduled by the BIA for the designated Dam Tenders.

### **2.1.4 GALLEGOS PUMPING PLANT**

The operation and maintenance of the Gallegos Pumping Plant (GPP) is performed by the NAPI O&M GPP staff that includes and is not limited to (1) Plant Supervisor/Engineer, (1) Electrician(s), (2) Mechanic(s) and (1) Canal Service Technician(s), which are currently staffed. The GPP staff operate the pumping plant according to the water order to maintain the water level for the pumping plants along the Burnham West Lateral. They maintain the pumping plant during the water irrigation season, doing repairs if needed. During non-water season, they perform the maintenance on all auxiliary systems, electrical gears inside the plant, Bus work in the switch yard, and maintenance the transformer in the switch yard. All parties on the Gallegos Pumping plant of NAPI, BIA, and Reclamation agreed that the work performed shall be performed in accordance with Reclamation Safety and Health Standards. There will be (4) GSA vehicles to provide the minimum operation and maintenance cost for Gallegos Pumping Plant. Gallegos Pumping Plant is approximately 11 miles from the O&M duty station.

## **2.2 MAINTENANCE**

In accordance with the Standard Operating Procedures (SOP) handbook, periodic inspections of the electrical, mechanical, cathodic protection (deferred) and Supervisory Control and Data Acquisition (SCADA) equipment are performed to determine their condition. Scheduled maintenance and repairs of electric motors, natural gas engines, turbine and centrifugal pumps, motor operated valves and gates, traveling water screens, gearheads, elevated water towers, electrical equipment, such as switches, transformers, underground cables and overhead lines, power supply and motor control cabinets and all other ancillary equipment, and the repair of the underground pipelines or laterals of various sizes and types

of pipe materials is conducted depending on the periodic inspections. The Maintenance functions, under cost codes 2952, 2954, 2962, 2964, 4905, 4915, 5950, 5985, include nine sub-functions and they are:

### **2.2.1 CANAL**

The activities dependent upon funding are related to the maintenance of the Main, Gravity Main, Amarillo, Coury, and Burnham West and Reach 1 involve:

- Inspection of the canals, siphons, and tunnels annually or other scheduled basis by O&M personnel and, if required, with the assistance of the United States Bureau of Reclamation. Canal inspections are done at the end of the water season when the canals are dewatered. Sections of the canal are marked with marking paint and flagged with total linear feet of cracked or buckled canal lining.
- Based upon inspections conducted, scheduled repair work required to replace broken canal linings, sealing joints and cracks, replacing safety ladders and repairing concrete barrels or structures. Canal repair work is scheduled during the off season with most critical locations including areas that have the most damage to the canal lining. O&M Mechanical inspects all pumping plant sump ladders during annual sump cleaning after de-watering. MAXIMO work orders are created for any repairs or replacements needed.
- Weed and algae control program either by a commercial service contract or NAPI department using chemical or mechanical means monthly during irrigation season. Weeds along pumping plant structures and RTU buildings are removed with herbicide and/or heavy equipment. O&M equipment includes a 300-gallon herbicide skid unit to apply the herbicide. O&M has staff that are certified as a New Mexico Certified Applicator.
- Tumbleweeds and other debris blown into the canals are removed by hand or mechanical means and burned or otherwise disposed of. A burn permit is obtained through Navajo Nation Fire Department.
- At the end of irrigation and subsequent to inspection, sections of the canal system are cleaned by removal of sandbars and other debris through the use of (4) skid-steers, (2) excavators, (1) equipped with long reach capabilities for Main Canal, and other equipment as required. MAXIMO work orders are issued for different areas of canals to be cleaned.
- Signs and markings are installed, replaced, and maintained to warn the public of the hazards along the 84.6 miles of canals, and at inlets and outlets of tunnels and siphons. Included also are signs and markings at check structures and pumping plants. Signs are inspected throughout the water season. Replacements of the signs are ongoing each season and dependent on funding available. MAXIMO work orders are issued to the maintenance department to replace them (deferred).
- Rights-of-way fences are inspected in conjunction with daily operations and repairs made along the canals, pumping plants and electrical substations (deferred).

### **2.2.2 DISTRIBUTION SYSTEM**

The distribution system consists of all facilities that deliver water from the canal to the field turnout or delivery units and are dependent upon funding. The tasks performed include:

- A noxious weed control program is initiated each spring, by application of soil sterilant in the yard of each pumping plant and electrical substation. All herbicide applied is in accordance with all Federal and State regulations for the environment. Only certified applicators are to apply herbicide, following all SDS and prior approval from O&M Manager. All waste is properly disposed of according to NM State Regulations.
- Disassembly of all pressure reducing valves, inspection and repair or replacement at the end of each irrigation season. The water flowmeters are also inspected, replaced or repaired and

calibrated annually. The PRVs and flowmeters are reinstalled before the start of the irrigation season.

- Depending upon funding, sub-contracting preventative maintenance, troubleshooting and repairs on all existing cathodic protection system equipment and components.
- Note: this activity is usually deferred due to the lack of funding. Perform cathodic protection-required remedial procedures identified because of operational monitoring, special tests, surveys, procedures, evaluations, and designs.
- Note: this activity is usually deferred due to the lack of funding. Install cathodic protection system and component replacements, modifications, add-ons, additions, upgrades, and improvements necessary for CP system maintenance and corrosion prevention on recognized structures in need.
- Provides for keeping the various components of the automated SCADA systems in proper operating condition through troubleshooting electrical wiring through point-to-point checks and verifying the program and PLC functionality.
- The SCADA Branch installs, configures, programs, and maintains the host station computers, the PLCs and their associated Input/Output (I/O) cards and the spread spectrum radio equipment.
- The SCADA Branch determines the design of the automated systems, evaluates the need for improvements, schedules upgrades and provides training for other department personnel in the use of the automated systems. There are no replacements forecasted for CY2026 on PLCs in canal check structures or pumping plants using this contract.
- MAXIMO software is checked daily for work orders that are generated from 800 dispatch for any corrective maintenance needed for demand water delivery.

#### Gas Engine Pumping Plants

- There are (27) Caterpillar gas engines in operation with 225 HP with turbo charger and 150 HP without turbo charger, and (4) Arrow gas engines in operation with 90 HP that are maintained throughout the year. NIIP has a total of (7) gas engine pumping plants.
- Gas engine compression tests are performed annually at the end of the watering season to determine performance of cylinder head. Any low reading cylinder head is removed for reconditioning.
- Preventive Maintenance Service (PMS) on all gas engines with more than 1000 hours of running time from last oil change, readings are performed on an hourly basis. The O&M Mechanical department also monitors operation control of automatic gas engines with Murphy's controls. Engines are set up with Murphy's safety shut down.
- Initiate MAXIMO work orders for tracking and performing routine maintenance (such as oil and filter changes) on engines, pumps, right angle gear head, heat exchangers and batteries.
- PMS on gas engines drive shaft performed monthly, which includes adding grease to U-joints and flange inspections. A spare drive shaft is kept in the warehouse for replacement to eliminate down time.
- Replacement of cracked and aged gas line hose connected from main line source. Inspect gas line by visual and smell of gas from main line to pumping plants.
- Antifreeze is utilized on gas engines to keep the engine cooling system with heat exchangers. Routine checks performed daily on coolant level on reservoir. Gas engines will shut down if coolant is low by Murphy safety control.
- For Traveling Water Screens (TWS), PMS is performed on link belt reduction gear boxes by changing oil with 90 Wt. gear oil, grease couplings, link belt chain connection, inspect trays and bolts, re-torque if needed, idle sprockets, grease and inspect end lifting hubs. Weekly visual inspections are performed for any malfunction of link belts and are adjusted if needed.

## Operations, Maintenance, & Replacement Scope of Work for CY 2026

- TWS structure with chronic failure during season is scheduled for removal after season and perform tear down inspection and overhaul. Some fabrication is performed and replacement parts.
- Vertical pumps are inspected daily on lubrication on tension nut, sight glass valve on oil dripping, which is set at every 15 seconds to lubricate pump head shaft bushings and inspect oil level on bulk tank.
- Vertical pumps are inspected at start of season for any vibrations, and PMS is performed on adding grease, re-adjust pump if needed, and inspect pump tension nut.
- Jockey pumps in Blocks 2 & 3 pumping plants are utilized for filling and to keep pumping plant lateral maintain pressure when center pivot field are shut down. The jockey pumps are inspected as priority for maintenance to keep online.
- Pumps that are tagged during the irrigation season are scheduled for removal at end of season for reconditions. Three quotes are obtained from machine shop for recondition to perform complete overhaul.
- Pump shaft tension nut failure during operation season is removed for repair and get re-sleeved by machine shop. This is urgent when pumping plants are in demand for water delivery.
- Performed PMS on gas engines with right angle gear drive by removing oil and replacing it with clean 90 wt. oil at the start of the water season. PMS is schedule at 2000 hours on changing out oil on the right-angle gear drive.
- Check cooling system on gear drive making sure it has a circulation for cooling system on pump gear drive. Periodically disconnect the copper tube line to see if there is circulation and blow air into the line to clear it out.
- Check valve inspection performed at the beginning of season by replacing O-ring on end shaft. Open top inspection covers to inspection butterfly valve, seat, and seal.
- Inspect air valve and do corrective maintenance with leaking water from pressure relief area, change out gasket cover gaskets if needed.
- Inspection performed on transmitting pressure for correct downstream pressure.
- Inspection on safety shut down components for low coolant level, low oil pressure, high temp shut down and vibration shut down, visual lights shown on panel indication unit online, engine alternator indicator working on charging system, and engine batteries voltage meters. Inspection is performed at the startup of water season with routine checks and test safety shut down components before putting gas engine in service.

### Electrical Pumping Plants

- Perform inspections on vertical pumps at the beginning of irrigation season. Pump base and motor bolts re-torqued or replace bolts if necessary.
- Perform inspection on vertical pumps at start of season for any vibrations, and perform PMS by adding grease, re-adjust pump if needed, and inspect pump tension nut.
- Pumps schedule for removal end of season by machine shop. Vender to submit tear down inspection report with work scope on complete overhaul.
- Schedule for inspecting pump shaft couplings, pump bearings, motor bearings, pump mechanical seals, pump base and motor mount bolts, re-torqued if necessary.
- Schedule for inspection at start of irrigation season on pressurize hydraulic valve system, check for hydraulic line for any oil leaks, test speed control valves, service oil filters on changing out replacing filter element, and test valve, if necessary, on circulating oil through system.
- Hydraulic cone valves are scheduled for removal at the end of season if necessary. Obtaining 3 quotes for complete overhaul alone with work scope.

- PMS performed on hydraulic cone valves before starting up by changing oil and oil filters. The hydraulic valve system oil is visually inspected at the end of the water season. If contamination is present during inspection, then hydraulic cone valve is scheduled for, and oil changed during winter maintenance.
- Inspect compressor units by checking valves, belts, and pipeline connection to air chamber.
- PMS performed on hydro tank air compressors before starting up on changing oil and filters (deferred).
- Hydro tank air compressor units inspected on pipe connection to air chamber, check valves, compressor belts, and tested with oil pressure at 20 psi. (Adjustments made if necessary)
- **(Deferred Maintenance)** Inspect air inlet at top of hydro tank units. Change out valve fitting, if necessary, 2" valves, and air pressure relief valve.
- **(Deferred Maintenance)** PMS performed on TWS at beginning of irrigation season. The gear box sprocket changes out, if necessary, link belt bolts connection to be re-torqued and rotation check with water circulating.
- **(Deferred Maintenance)** Elevated tanks are annually inspected by O&M Mechanical Department.
- **(Deferred Maintenance)** O&M Department performing routine preventive maintenance service on elevated tanks. Inspection covers gaskets, check for water leaks, water leaks on water inflow pipe and overflow return line pipe.
- A total of (77) pumping plant sumps are schedule annually for cleaning after canal is dewatered. An outside contractor is hired with a vacuum truck service to clean sumps with O&M Mechanical Department finishing labors. Vacuum service is performed 3 to 4 weeks 8 hours per day.

### **2.2.3 ELECTRICAL NETWORK & COMPONENTS**

The electrical network and components consist of electrical motors, control panels, control components, high lines, and substations. The maintenance on these items is dependent upon funding. The tasks performed include:

#### **Navajo Dam and Gate Structures**

##### **Semi-Annual Inspection:**

Visual inspections of the condition of the electrical equipment on the controls are performed when the system is energized. The electrical components include relays, timers, switches, and meters. Any urgent repairs will be cleared with 800 Dispatch, and materials are ordered for replacement. Time and dates are set to de-energize the controls for repairs.

Semi-Annual inspections are returned to the office for review, work/order and priority/critical are listed 1 through 5, one as emergency.

##### **Annual Inspection:**

For annual inspections, the electrical system is de-energized, and testing on the control equipment is performed. Control equipment includes relays, timers, switches, contact blocks, coils on the controls, raceway, seals on cabinets, breakers in distribution panel, area and internal lighting, and receptacles on 120/240/480-volt plugs.

Annual inspections are used to determine the overall running time and total starts of the big units, the 20 HP and smaller has no timers but will run 15 minutes every hour throughout the season, total hours 6,480.

Preventive Maintenance:

Semi-annual and Annual Inspections are used for the repairs and maintenance. For repairs and maintenance routines, materials are ordered for replacement and repairs on all relays, motor starters, timers, point to point on wire connections, and termination connections. All the exterior panel doors are inspected for leaks, broken locks, and latches. The heaters and lights are the only electrical equipment that should be running during the non-irrigation season.

The inspection report is used to justify the repairs. MAXIMO work orders are created for the repairs and maintenance of equipment, labor, time, and materials.

Pumping Plants

Semi-Annual Inspection:

Pumping plant inspections are performed on incoming line fuse cutouts, surge arrestors, transformers, service disconnect, Motor Control Cabinet (MCC), and incoming voltage and current on all three phases.

Pumping plant unit information is recorded. Information includes running time, start counter, running/off status, current on all three phases, push buttons, selector switches, oil dippers, electric motor oil on the upper and lower bearing, and winding temperature. The condition of the motor vents on both top and bottom, and motor raceway are visually inspected.

Auxiliary controls inspections are performed on the condition of the lamp test switches for the indicators, fixtures, push buttons, selector switches, and panel meters.

Pumping plant inspection reports are used to monitor the start time, running time and the condition of the equipment. Work orders are created for the equipment with immediate repairs or service at the end of the water season.

Annual Inspection:

The pumping plants incoming line is de-energized, and switches are opened, locked and tagged out for visual inspection. During inspection, all the wire connections are checked, torque and marked, surge arrestors, the 34500 v/4160/2400-volt transformers, and connections to the bus of the MCC are checked. Unit cabinets are cleaned out, and all the stabs are cleaned and coated with grease. Insulation tests are done on the feeders to the motors, and the stress cones are tested both in the cabinet and at the motor (deferred).

Preventive Maintenance:

All the switches from the incoming line to transformers, MCC and out to the motors are all checked, torqued and marked at the connections. Unit controls, relays, timers and overloads are checked and tested, all the control connections are tightened, and the contacts cleaned and marked (deferred).

## High Line

### Aerial Line Inspection:

**(Deferred Maintenance)** Annual Helicopter Aerial line inspections are no longer done by Western Area Power Authority (WAPA). Inspections were performed at least once a year pursuant to Section 7 of expired Contract No. 10-SLC-0649. The completed reports are forwarded to NAPI O&M Electrical Department and NAPI O&M Manager for review. Aerial reports are used for repairs, state of the equipment, and determine when the equipment can be repaired or replaced.

### Ground Inspection:

**(Deferred Maintenance)** Ground Inspections are completed by O&M Electrical Department with the line energized. All the inspections are done visually and depend on NAPI O&M manpower available.

**(Deferred Maintenance)** Ground inspections reports are reviewed; equipment is checked and each pole is identified by a number and location. If the ground wire is cut or pulled off, the facilities are scheduled to be de-energized for repairs.

### Preventive Maintenance:

Western Area Power Administration (WAPA) contract for electrical operating and maintenance support has ended March 31, 2020. This contract was for WAPA to maintain the Kutz Substation and related pumping plant switchyard, the Gallegos Substation, and patrol NIIP transmission system by ground and air. WAPA would provide NAPI O&M electrical department with an estimated work plan and cost estimate each March for the next upcoming fiscal years.

**(Deferred Maintenance)** The high lines are de-energized; switches are opened and tagged out and cleared with WAPA Phoenix Dispatch. Each pole structure hardware is tightened, which includes the cross arms, cross braces, insulators, post substation and bell insulators.

**(Deferred Maintenance)** Preventive maintenance in the switch yard is done by WAPA outside the yard. The 34.5kV line and loads are completed by NAPI. The inspection reports are used for repairs, preventive maintenance is done in the winter from November to March. (2) Electricians and an equipment/bucket truck operator are needed for pole repairs.

**(Deferred Maintenance)** Isolation switches and re-closers are used to isolate sections of the line for repairs. Adjustments are made for all the contacts when seats are closed, set on the line and the load side of the line.

**(Deferred Maintenance)** The fuse cutouts, surge arrestors, transformers and disconnect switches serve as entrance equipment for the pumping plants. When the cutouts are replaced, the connections are covered with bird guards, and the jumpers are insulated (deferred).

NAPI O&M 638 Department is currently seeking contractor(s) to fulfill the service and maintenance work WAPA was performing under the expired WAPA Maintenance Service Agreement.

## Substations – Kutz, Gallegos & Pinabete

**(Asset Transfer)** NAPI O&M 638 Department has received asset transfer from the Bureau of Reclamation's Pinabete Substation to the Bureau of Indian Affairs in CY2024, see Section 2.3.1.

Breaker Testing & Inspection:

Bi-Annual testing and inspections are performed on breakers by electrical service contractors. Inspection occurs on 2-year intervals. Breakers were tested in 2020 by the USBR. The completed reports are forwarded to NAPI O&M Electrical Department and NAPI O&M Manager for review. Reports are used to repairs, state of the equipment, and used to determine when the equipment needs repair or replacement. The cost code for Operations Outside Services is 5945.

Transformer Oil Sampling:

Annual transformer oil sampling will be completed by the electrical service contractor. The completed reports will be forwarded to NAPI O&M Electrical Department and NAPI O&M Manager for review. Reports are used for repairs, state of the equipment, and used to determine when the equipment needs repair or replacement. The cost code for Operations Outside Services is 5945.

Cleaning Cabinets & Bus Work Cleaning and Inspection:

Substation cabinets and bus work are cleaned and inspected annually by NAPI O&M Electrical Department. Any identified damage will be replaced and repaired for seasonal operation. The cost for Operations Tools Materials and Supplies is 4910.

NAPI O&M 638 Department is currently seeking contractors(s) to fulfill the service and maintenance work WAPA was performing under the expired WAPA Maintenance Service Agreement.

#### **2.2.4 DRAINAGE & ROADS**

The major category of costs includes personnel, equipment, vehicles, fuel, materials and supplies to perform the maintenance tasks related to drainage and roads. The activities dependent upon funding are.

- **(Deferred Maintenance)** Periodically inspect the canal maintenance road system, develop a maintenance schedule, and perform grading and other improvements such as placement of road base material along problem areas and well-traversed sections of the system. The NIIP canals and access to pumping plants consist of about 160 miles of roads that need to be graded and maintained. Scheduled road maintenance starts with the roads in region 2 working to region 1 at the beginning of the season and mid-season. MAXIMO work orders keep track of maintenance work of canal roads (deferred).
- **(Deferred Maintenance)** Cattle guards and gates for access onto the NIIP rights-of-way are maintained to exclude livestock and the public from gaining unauthorized entry to the canals and equipment that operate automatically and pose a hazard, if not controlled and also to safeguard the equipment from vandalism. Gates and right of ways are checked monthly. Any repairs are scheduled through Maximo (deferred).
- **(Deferred Maintenance)** Throughout the project, there is a system of open drain collectors designed and constructed to convey 10-year floodwaters off the project safely. These drains and stabilization structures need to be inspected periodically and a maintenance plan and work schedule developed to remove debris and trees, reshape the drain prism and repair the stabilization structures. Annually, some portions of the drains will go through a maintenance program if funding, labor, and equipment are available. Ojo drains are checked at the beginning of each season. Vegetation in the drain is removed with heavy equipment. Maximo work orders are issued for maintenance work on the drains (deferred). The 15,826 feet Cutter reservoir interceptor and Tunnel

interceptor drainage channels have been deferred for many years (decades). The Cutter drainage channel was breached in the 2022 irrigation season during a major storm. Interceptor drainage channels around Tunnel 3 inlet and outlet have been breached in 2024 dumping 3,500 cubic yards of sediment into canal. The channel requires clearing of brush & trees from the embankment, sediment removals from the channel for capacity in storm flows and build up embankment at oil & gas access road crossings.

### **2.2.5 CATHODIC PROTECTION (CP)**

**(Deferred since 2008)** Costs include labor, tools, materials, and equipment required to maintain all CP systems and components in optimum performance condition, prolong equipment and component effective operational lives to maximum levels, and extend corrosion protection to all structures in need. CP systems, both impressed and galvanic, are providing some degree of corrosion protection on various structures throughout the project, including column and suction piping on pumps, traveling water screens, plant inlet grating, ladders, fences, discharge manifolds, water tower tanks and risers, check structure gates, canal drain gates, trash rack grating and lateral piping.

**(Deferred since 2008)** Many lateral lines, and some siphons, have facilities for performing structure-to-electrolyte potential and corrosion surveys to guard pipe integrity. Other corrosion prevention techniques, such as the use of coatings and appropriate materials selection, are also being utilized, to some degree, to increase the efficiency of cathodic protection. Tasks and activities performed to maintain these facilities are dependent upon appropriated funding and include, but are not limited to the following:

- Perform preventive maintenance, troubleshooting and repairs on all existing system equipment and components (deferred).
- Perform required remedial procedures identified because of operational monitoring, special tests, surveys, procedures, evaluations, and designs (deferred).
- Install system and component replacement, modification, add-ons, additions, upgrades, and improvements necessary for CP system maintenance and corrosion prevention on recognized structures in need (deferred).
- Submit an annual report assessing the location of the cathodic protection system. If funds are available, a priority list will be developed to perform an assessment on the condition of CP systems (deferred).

### **2.2.6 SUPERVISORY CONTROL & DATA ACQUISITION**

The Supervisory Control & Data Acquisition (SCADA) provides for keeping the various components of the automated systems in proper operating condition. Currently, there are (6) separate areas of functionality, 1) the Canal SCADA System, 2) the Pumping Plant monitoring system, 3) the Pumping Plant Programmable Logic Controllers (PLCs), 4) the Elevated Tank Pressure Transducers, 5) Communication RTU and tower, 6) Network service and client, and (7) Gas Pumping Plant Murphy Controls. The SCADA Supervisor installs, configures, programs, and maintains the host station computers through PLCs and the associated Input/Output (I/O) cards and the spread spectrum equipment. The SCADA supervisor also determines the design of the automated system and prescribes the need for improvements and schedules upgrades and provides training of other department personnel in the use of the automated systems. The three subsystems are:

Canal SCADA System: The Canal System consist of a computerized host station, located at the Supervisory Control Center, and (23) Remote Terminal Units (RTUs) located at the check structures along the entire length of the canals also at the Navajo Dam Headwork and Cutter Dam. There are also (3) repeater sites. The RTUs are used to monitor and control the radial gate positions

and monitor water level elevations at the check structures. This data is also transmitted back to the Control Center where it is displayed both graphically and alpha-numerically.

Gas Pumping Plant Murphy Control System: There are (7) Natural Gas Pumping Plants automated with Murphy Control systems. Murphy Control systems consist of gas engine controller PLC, murphy controllers, communication radios, and panel monitors.

Pumping Plant Monitoring System: The Pumping Plants and Elevated Tank Monitoring System consist of a computerized host station, located at the Supervisory Control Center, and (23) RTUs located at the large pumping plants and (26) individual pumping plants on the project. The RTUs gather pumping plant operational data and transmit it back to the Control Center where the pumping plant status is displayed both graphically and alpha-numerically, for a total of (49) plants that can be monitored.

Pumping Plant Control PLCs: The Pumping Plant PLCs are a stand-alone unit, which controls the operation of the multi-unit plants on the project. Currently, there are (26) plants operating under local automatic PLC control. The PLCs control the operation of the individual pumping units to provide the appropriate water pressure to the fields.

Elevated Tank Pressure Transducer: The Elevated Tanks (22) are connected to large pumping plants. The pressure transducer by level of water in the tank, control the start/stop operation of pumps.

Communication RTU and Tower: Monitoring the canal level, monitor and control gate operation, and monitor and control systems status. There are (24) communication towers.

Network Server and Client: The (2) clients for the control center and the (1) server for the monitoring applications are in the NAPI main office and are used for this engineering station.

## **2.2.7 FACILITIES**

Cost Code 5134 is designated for the activities related to the NIIP facilities consisting of 67 pumping plant buildings in Blocks 1 through 9, 371 Duty Station and Block 6 Shop and Warehouse facilities.

The 371 Duty Station is the operational hub for all O&M equipment storage, warehouse for supplies, repair and/or replacement parts storage, vehicle parking and storage, minor repair facilities for electrical equipment, electronics, meters, and valves.

All maintenance personnel and warehouse supervisor for the Maintenance Division are assigned to the Duty Station as their official duty station.

At the Block 6 Shop and Warehouse, a joint use facility with BIA, the O&M Departments houses two branches. One of these branches performs maintenance and repair of heavy equipment as well as some minor equipment such as portable generators, welders, and water pumps. The other branch handles the repair of all mechanical equipment such as natural gas engines, pumps, gearheads, plant compressors, motor operated or hydraulic operated valves and most of the hydraulic systems.

**(Deferred since 2008)** NAPI contracts to maintain these facilities by repairing the shell of the structure, roof covering, drainage installation, weed control, and utility service connections to the building (deferred).

## **2.2.8 MAINTENANCE BACKLOG**

The BIA proposes the following subject to negotiation:

The MAXIMO software is used for tracking costs and backlog of deferred maintenance at the NIIP site. The software assists O&M in keeping track of costs, inventory data, budgets, reporting status, issues and performance costs and provide historical data needed to develop five-year deferred maintenance and capital improvement plans.

MAXIMO is used throughout the irrigation season, as corrective maintenance and preventive maintenance is performed to continue to deliver water to the farm, on TWS, motors, pumps, lateral systems, PRVs, valve systems, elevated tanks, and gas engines. It is also used for winter projects that will be performed are input into the MAXIMO system.

### **2.3 SYSTEM MANAGEMENT AND ADMINISTRATIVE**

The cost code 2954 provides for the NIIP O&M management team that consists of an O&M Manager, Program Analyst, Engineering and Technical Support and others that may be assigned to Management. The O&M Management Office is located at the NAPI Headquarters.

The Program Analyst, per a NAPI interdepartmental Memorandum of Understanding (MOU) helps prepare and record budget estimates for accuracy, and conformance with procedures. Also, to analyze budgeting and accounting reports for the purpose of maintaining expenditure controls and compliance with P. L. 93-638 requirements.

The Manager and Supervisors who supervise heavy equipment operators, mechanics, and electricians ensuring water deliver to the NAPI farm operations through an oversight of Navajo Indian Irrigation Project (NIIP) automated water delivery system facilities and equipment.

Engineering duties includes planning, designing, and construction management and maintenance of building structures, and facilities, such as roads, hydraulic systems, canals, laterals, pipelines, water system, siphon, pumping plants, and irrigation projects.

The Warehouse supervisor is responsible for generating PO, receiving, issuing items, and general housekeeping of the facility. Material Handling Equipment (MHE) is required to be onsite for loading and unloading; a licensed operator is also required.

When requested verbally or in writing by authorized BIA personnel, NAPI shall be allowed to provide emergency response services. Authorized BIA personnel will include the BIA NRO Director, Branch of Engineering or delegated person.

During the winter season, O&M personnel attend training as determined by Management. The cost includes the salary/labor rate of personnel attending training, their travel and tuition expenses to provide a well-trained and efficient work force. Training topics normally include Arc Flash, Confine Space, CLA-Valve Operation & Maintenance, Predictive Maintenance, Irrigation and Water Management, and Standard Operating Procedures.

#### **2.3.1 PINABETE SUBSTATION SYSTEM MANAGEMENT AND ADMINISTRATIVE**

As of March 2024, Pinabete Substation was transferred to BIA O&M status from the U.S. Bureau of Reclamation (USBR) and is no longer in construction status during CY2024. With the new infrastructure transfer of Pinabete Substation O&M will resume responsibility of continual maintenance and asset management to ensure the facility operates to delivers power to Burnham pumping plants that supplies irrigation water to Blocks 8 and 9.

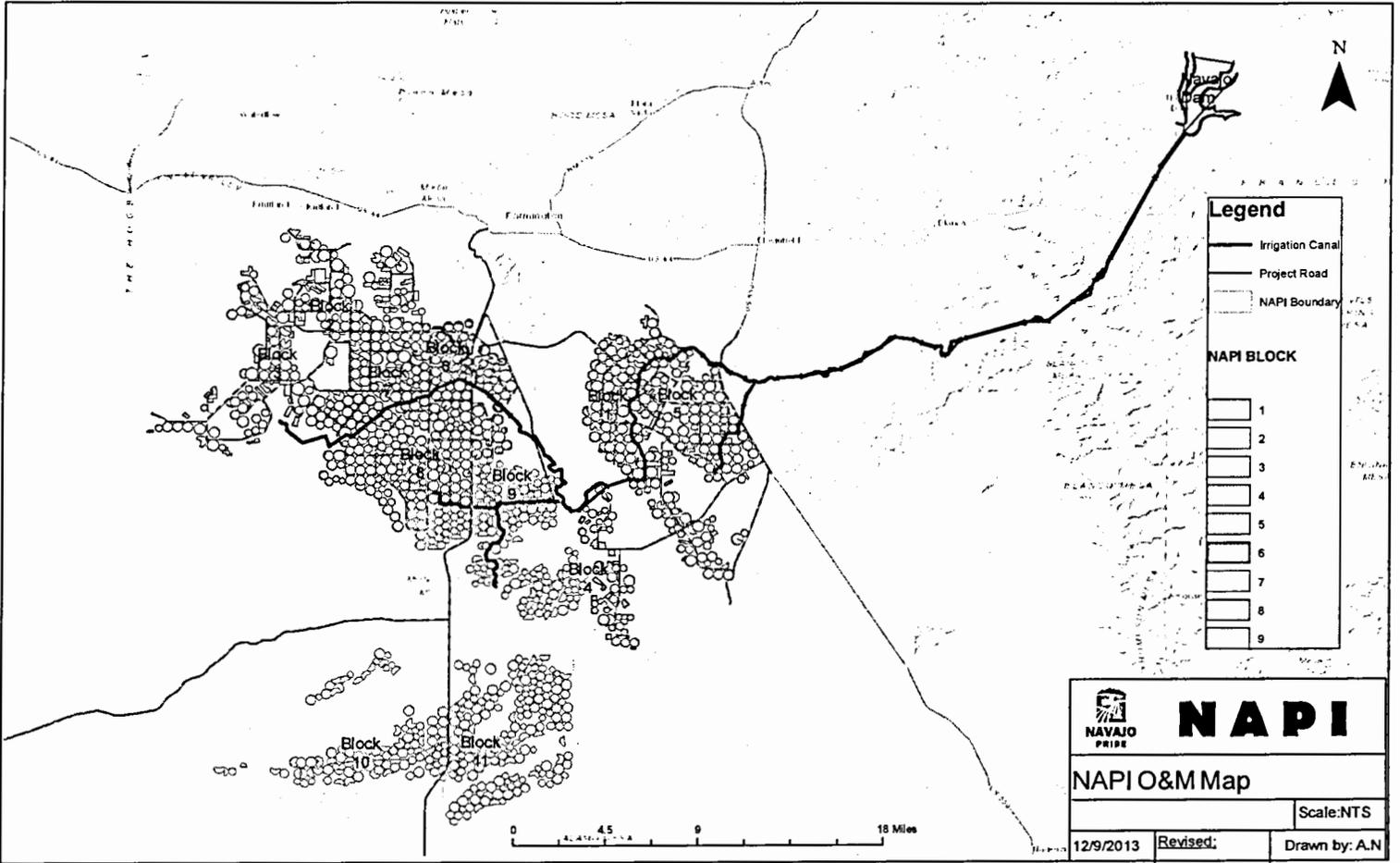
## APPENDIX

The appendix includes those exhibits, which are subject to change including items as:

- EXHIBIT A:** NIIP Information Maps
- EXHIBIT B:** Proposed Budget for Calendar Year 2026
- Operation & Maintenance
  - Gallegos Pumping Plant
- EXHIBIT C:** NIIP Electrical Service and Maintenance Agreement
- EXHIBIT D:** Operation & Maintenance Organizational Chart  
Director of Operations 638 & Government Relations
- EXHIBIT E:** Operations and Maintenance Work Schedule
- EXHIBIT F:** Emergency Procedures – Standing Operating Procedures

# **EXHIBIT A**

## **NIIP Information Map**



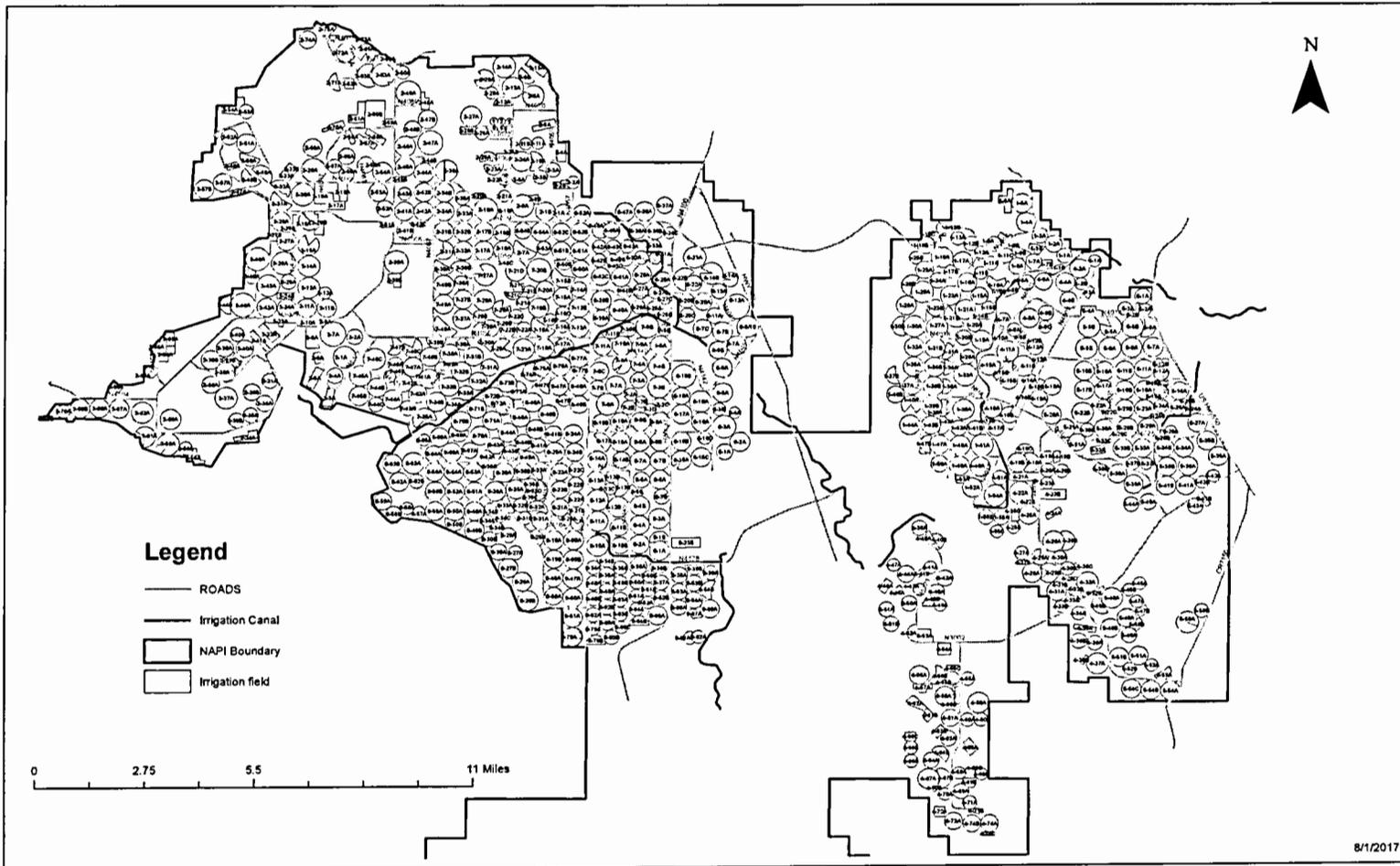
**Legend**

- Irrigation Canal
- Project Road
- - - NAPI Boundary

**NAPI BLOCK**

1
2
3
4
5
6
7
8
9

 <b>NAVAJO</b> PRIDE		<b>NAPI</b>	
<b>NAPI O&amp;M Map</b>			
		Scale: NTS	
12/9/2013	Revised:	Drawn by: A.N	



## **EXHIBIT B**

Proposed Budget for Calendar Year 2026

Operations & Maintenance

NIIP

## \$8.3M - Calendar Year 2026 Projected Budget - Operations & Maintenance

	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	
Labor	\$ 218,865.87	\$ 240,239.10	\$ 232,967.88	\$ 234,476.44	\$ 341,438.16	\$ 238,429.20	
Fringe Benefits	\$ 43,598.14	\$ 47,855.68	\$ 46,407.27	\$ 46,707.80	\$ 68,014.46	\$ 47,495.18	
Travel & Per Diem	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	
Tuition & Training Fees	\$ 18,950.00	\$ 55,300.00	\$ -	\$ -	\$ -	\$ -	
Materials & Supplies	\$ 175,050.00	\$ 236,880.00	\$ 114,050.00	\$ 98,800.00	\$ 107,300.00	\$ 129,500.00	
Office Supplies	\$ 3,300.00	\$ -	\$ 500.00	\$ -	\$ -	\$ 1,000.00	
Vehicle-Fuel, Lubricants, Maintenance/GSA Units	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	
Heavy Equipment	\$ 13,350.00	\$ 13,350.00	\$ 13,150.00	\$ 13,200.00	\$ 13,400.00	\$ 14,525.00	
Outside Services-Sub Contractors, Consultants	\$ 185,050.00	\$ 146,700.00	\$ 10,500.00	\$ 13,000.00	\$ 21,500.00	\$ 15,545.12	
Utilities-City of Farmington, WAPA, NTUA, Gas Company of NM	\$ 13,916.92	\$ 15,937.26	\$ 77,455.66	\$ 168,895.96	\$ 256,949.86	\$ 305,112.79	
Equipment Rental/Leases	\$ 12,780.00	\$ 8,080.00	\$ 3,430.00	\$ 3,430.00	\$ 3,430.00	\$ 3,430.00	
	<b>\$ 705,671.01</b>	<b>\$ 789,852.12</b>	<b>\$ 528,620.89</b>	<b>\$ 608,670.28</b>	<b>\$ 842,192.56</b>	<b>\$ 785,197.37</b>	

	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Total
Labor	\$ 238,229.52	\$ 237,510.16	\$ 240,602.32	\$ 255,889.50	\$ 343,286.58	\$ 214,534.44	\$ 3,036,469.17
Fringe Benefits	\$ 47,455.40	\$ 47,312.11	\$ 47,928.06	\$ 50,973.23	\$ 68,382.71	\$ 42,735.35	\$ 604,865.38
Travel & Per Diem	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 3,000.00	\$ 14,000.00
Tuition & Training Fees	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ 3,000.00	\$ 79,750.00
Materials & Supplies	\$ 103,100.00	\$ 119,816.29	\$ 55,750.00	\$ 60,200.00	\$ 59,600.00	\$ 64,000.00	\$ 1,324,046.29
Office Supplies	\$ 2,000.00	\$ -	\$ 300.00	\$ -	\$ -	\$ -	\$ 7,100.00
Vehicle-Fuel, Lubricants, Maintenance/GSA Units	\$ 77,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 32,590.08	\$ 436,080.96
Heavy Equipment	\$ 14,500.00	\$ 14,500.00	\$ 13,400.00	\$ 13,200.00	\$ 15,650.00	\$ 16,150.00	\$ 168,375.00
Outside Services-Sub Contractors, Consultants	\$ 21,247.45	\$ 25,719.73	\$ 25,500.00	\$ 26,050.00	\$ 79,990.73	\$ 103,989.74	\$ 674,792.77
Utilities-City of Farmington, WAPA, NTUA, Gas Company of NM	\$ 331,224.33	\$ 321,356.80	\$ 219,016.06	\$ 139,686.06	\$ 16,287.83	\$ 16,118.09	\$ 1,881,957.62
Equipment Rental/Leases	\$ 9,510.00	\$ 8,510.00	\$ 4,510.00	\$ 7,510.00	\$ 15,080.00	\$ 12,780.00	\$ 92,480.00
	<b>\$ 836,346.78</b>	<b>\$ 802,305.17</b>	<b>\$ 636,086.52</b>	<b>\$ 579,588.87</b>	<b>\$ 616,787.93</b>	<b>\$ 496,117.70</b>	<b>\$ 8,319,917.19</b>

Note: Budget includes Gallegos Pumping Plant, B1.0L and B2.9L pumping plants and laterals. Pinabete was added for the transfer to GPP budget.

Admin	Civil Works	Control Center	Electrical	R1 CST	R2 CST	Mechanical	SCADA	Warehouse	GPP/Burnham & Pinabete	Total
\$ 2,279,626.96	\$ 965,405.00	\$ 293,961.69	\$ 1,107,836.79	\$ 737,266.38	\$ 801,835.41	\$ 892,115.03	\$ 524,193.08	\$ 154,494.94	\$ 563,181.91	\$ 8,319,917.19
Note: Deferred Maintenance is not included in above amounts.										
\$ -	\$ 209,401.00	\$ 25,000.00	\$ 95,000.00	\$ 51,750.00	\$ 181,000.00	\$ 305,100.00	\$ 195,000.00	\$ 133,887.03	\$ 179,000.00	\$ 1,375,138.03
\$ 2,279,626.96	\$ 1,174,806.00	\$ 318,961.69	\$ 1,202,836.79	\$ 789,016.38	\$ 982,835.41	\$ 1,197,215.03	\$ 719,193.08	\$ 288,381.97	\$ 742,181.91	\$ 9,695,055.22

### Administration - Projected CY 2026

Month	Cost Center	PHASE	Description of Charges	COST
Jan	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Jan	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Jan	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Jan	21-15151	8905	City of Farmington (Electricity)	\$ 548.19
Jan	21-15151	8915	NTUA (Gas/Water)	\$ 567.48
Jan	21-15151	8920	NM Gas Company	\$ 251.18
Jan	21-15151	8925	WAPA Electric Service	\$ 6,731.48
Jan		8940	Cell Phone Bill (2)	\$ 137.00
Jan		5960	Travel & Per Diem	\$ 1,000.00
Jan		3960	(2) Safety Shoes	\$ 200.00
Jan		5822	Travel Related Meals	\$ 300.00
Jan		5965	Required Annual Training - Confined Space Training - (40) emp. @ \$200	\$ 16,000.00
Jan		4917	Departmental Office Supplies 1st Half of Year	\$ 2,000.00
Jan		8945	Navajo Nation Water Code	\$ 292.00
Jan				
Jan			Month Expenses:	\$ 53,232.57
Feb	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 18,214.40
Feb	21-15151	2960	Labor Benefits & Burden	\$ 3,628.31
Feb	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Feb	21-15151	8905	City of Farmington (Electricity)	\$ 552.46
Feb	21-15151	8915	NTUA (Gas/Water)	\$ 1,079.44
Feb	21-15151	8920	NM Gas Company	\$ 628.14
Feb	21-15151	8925	WAPA Electric Service	\$ 7,546.80
Feb		8940	Cell Phone Bill (2)	\$ 137.00
Feb		5965	Annual OM Dept SOP Training	\$ 4,000.00
Feb		5965	Arc Flash Training (40) emp. + certified trainer	\$ 50,000.00
Feb		5960	Travel & Per Diem	\$ 1,000.00
Feb		5822	Travel Related Meals	\$ 300.00
Feb				
Feb				
Feb			Month Expenses:	\$ 88,264.81
Mar	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Mar	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Mar	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Mar	21-15151	8905	City of Farmington (Electricity)	\$ 567.17
Mar	21-15151	8915	NTUA (Gas/Water)	\$ 1,306.24
Mar	21-15151	8920	NM Gas Company	\$ 950.38
Mar	21-15151	8925	WAPA Electric Service	\$ 68,395.97
Mar		8940	Cell Phone Bill (2)	\$ 137.00
Mar		5960	Travel & Per Diem	\$ 1,000.00
Mar		5822	Travel Related Meals	\$ 300.00
Mar				
Mar				
Mar			Month Expenses:	\$ 97,862.00
Apr	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Apr	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Apr	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Apr	21-15151	8905	City of Farmington (Electricity)	\$ 634.95
Apr	21-15151	8915	NTUA (Gas/Water)	\$ 4,086.75
Apr	21-15151	8920	NM Gas Company	\$ 9,174.01
Apr	21-15151	8925	WAPA Electric Service	\$ 152,286.41
Apr		8940	Cell Phone Bill (2)	\$ 137.00
Apr		5960	Travel & Per Diem	\$ 1,000.00
Apr		5822	Travel Related Meals	\$ 300.00
Apr		8945	Navajo Nation Water Code	\$ 390.84
Apr			Month Expenses:	\$ 193,215.20

Month	Cost Center	PHASE	Description of Charges	COST
May	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 19,125.12
May	21-15151	2960	Labor Benefits & Burden	\$ 3,809.73
May	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
May	21-15151	8905	City of Farmington (Electricity)	\$ 566.88
May	21-15151	8915	NTUA (Gas/Water)	\$ 9,126.74
May	21-15151	8920	NM Gas Company	\$ 12,359.82
May	21-15151	8925	WAPA Electric Service	\$ 232,573.42
May		8940	Cell Phone Bill (2)	\$ 137.00
May		5960	Travel & Per Diem	\$ 1,000.00
May		5822	Travel Related Meals	\$ 300.00
May				
May			Month Expenses:	\$ 280,176.97
Jun	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Jun	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Jun	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Jun	21-15151	8905	City of Farmington (Electricity)	\$ 497.32
Jun	21-15151	8915	NTUA (Gas/Water)	\$ 10,540.73
Jun	21-15151	8920	NM Gas Company	\$ 8,694.45
Jun	21-15151	8925	WAPA Electric Service	\$ 282,957.29
Jun		8940	Cell Phone Bill (2)	\$ 137.00
Jun		5960	Travel & Per Diem	\$ 1,000.00
Jun		5822	Travel Related Meals	\$ 300.00
Jun				
Jun			Month Expenses:	\$ 329,332.03
Jul	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Jul	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Jul	21-15151	5975	GSA (2) Units - Manager and Engineer + Annual GSA Insurance	\$ 46,178.26
Jul	21-15151	8905	City of Farmington (Electricity)	\$ 628.24
Jul	21-15151	8915	NTUA (Gas/Water)	\$ 11,529.72
Jul	21-15151	8920	NM Gas Company	\$ 12,207.73
Jul	21-15151	8925	WAPA Electric Service	\$ 304,216.26
Jul		8940	Cell Phone Bill (2)	\$ 137.00
Jul		5960	Travel & Per diem	\$ 1,000.00
Jul		5822	Travel Related Meals	\$ 300.00
Jul		4917	Departmental Offices Supplies needed - 2nd Half of Year	\$ 2,000.00
Jul		8945	Navajo Nation Water Code	\$ 319.38
Jul			Month Expenses:	\$ 402,543.57
Aug	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 19,125.12
Aug	21-15151	2960	Labor Benefits & Burden	\$ 3,809.73
Aug	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Aug	21-15151	8905	City of Farmington (Electricity)	\$ 638.57
Aug	21-15151	8915	NTUA (Gas/Water)	\$ 9,650.72
Aug	21-15151	8920	NM Gas Company	\$ 14,902.39
Aug	21-15151	8925	WAPA Electric Service	\$ 293,842.12
Aug		8940	Cell Phone Bill (2)	\$ 137.00
Aug		5960	Travel & Per diem	\$ 1,000.00
Aug		5822	Travel Related Meals	\$ 300.00
Aug		5965	ITRC Training in SLO (1)	\$ 2,500.00
Aug			Month Expenses:	\$ 347,083.91

Month	Cost Center	PHASE	Description of Charges	COST
Sep	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Sep	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Sep	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Sep	21-15151	8905	City of Farmington (Electricity)	\$ 669.47
Sep	21-15151	8915	NTUA (Gas/Water)	\$ 9,547.66
Sep	21-15151	8920	NM Gas Company	\$ 14,498.37
Sep	21-15151	8925	WAPA Electric Service	\$ 191,877.56
Sep		8940	Cell Phone Bill (2)	\$ 137.00
Sep		5960	Travel & Per diem	\$ 1,000.00
Sep		5822	Travel Related Meals	\$ 300.00
Sep				
Sep			Month Expenses:	\$ 243,235.30
Oct	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,035.84
Oct	21-15151	2960	Labor Benefits & Burden	\$ 3,991.14
Oct	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Oct	21-15151	8905	City of Farmington (Electricity)	\$ 658.81
Oct	21-15151	8915	NTUA (Gas/Water)	\$ 8,937.00
Oct	21-15151	8920	NM Gas Company	\$ 20,856.21
Oct	21-15151	8925	WAPA Electric Service	\$ 105,429.68
Oct		8940	Cell Phone Bill (2)	\$ 137.00
Oct		5822	Travel Related Meals	\$ 300.00
Oct		5960	Travel & Per diem	\$ 1,000.00
Oct		8945	Navajo Nation Water Code	\$ 112.25
Oct			Month Expenses:	\$ 162,636.19
Nov	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 19,125.12
Nov	21-15151	2960	Labor Benefits & Burden	\$ 3,809.73
Nov	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Nov	21-15151	8905	City of Farmington (Electricity)	\$ 691.82
Nov	21-15151	8915	NTUA (Gas/Water)	\$ 3,513.74
Nov	21-15151	8920	NM Gas Company	\$ 5,291.70
Nov	21-15151	8925	WAPA Electric Service	\$ 4,167.57
Nov		8940	Cell Phone Bill (2)	\$ 137.00
Nov		5960	Travel & Per diem	\$ 1,000.00
Nov		5822	Travel Related Meals	\$ 300.00
Nov		8925	WAPA - WECC, Western Electricity Coordinating Council, utility correction	\$ 300.00
Nov				
Nov			Month Expenses:	\$ 39,514.94
Dec	21-15151	2950	Labor (1) OM Director and (1) Engineer	\$ 20,946.56
Dec	21-15151	2960	Labor Benefits & Burden	\$ 4,172.56
Dec	21-15151	5975	GSA (2) Units - Manager and Engineer	\$ 1,178.26
Dec	21-15151	8905	City of Farmington (Electricity)	\$ 1,608.07
Dec	21-15151	8915	NTUA (Gas/Water)	\$ 418.52
Dec	21-15151	8920	NM Gas Company	\$ 1,657.31
Dec	21-15151	8925	WAPA Electric Service	\$ 6,111.19
Dec		8940	Cell Phone Bill (2)	\$ 137.00
Dec		5822	Travel Related Meals	\$ 300.00
Dec		5965	Conferences and Training Fees - (2) employees - CRWUA in Nevada	\$ 3,000.00
Dec		5960	Travel & Per Diem - GSA Per Diem 3 days - (2) employees - CRWUA in Nevada	\$ 3,000.00
Dec				
Dec			Month Expenses:	\$ 42,529.47

**\$ 2,279,626.96**

## Civil Works - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor - (1) Supervisor, (5) Operators, (4) seasonal labor	\$ 38,382.40
Jan	2960	Labor Burden & Benefits	\$ 7,645.80
Jan	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Jan	8940	Cell Phone Bill (1)	\$ 64.00
Jan	5817	Fuel for equipment and Def fluid	\$ 3,000.00
Jan	5915	Heavy equipment service, repairs, Tires, & parts	\$ 10,000.00
Jan	4915	PVC Pipe- restock	\$ 10,000.00
Jan	4915	Pipe Couplers- restock	\$ 8,000.00
Jan	4925	Plastic wrap - Valve Cover	\$ 1,000.00
Jan	4910	Canal lining repairs: Cracks and minor repair- Concrete, grout and supplies	\$ 2,500.00
Jan	4915	Rip Rap - Angular stone "4 to 8" - Eriuson Control	\$ 10,000.00
Jan	4915	Gravel and river rock for canal roads- Restock	\$ 7,000.00
Jan	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Jan	4915	Maintenance supplies, fencing, lumber, barb wire, gates, hinges, etc.	\$ 4,000.00
Jan	5810	Skid Steer Rentals For Canal Cleaning	\$ 8,200.00
Jan	3960	Safety Boot Reimbursement (6) employees	\$ 600.00
Jan	5965	CDL medical card Reimbursement (6)	\$ 600.00
Jan			
Jan			
Jan		Month Expenses:	\$ 121,195.08
Feb	2950	Labor - (1) Supervisor, (5) Operators, (4) seasonal labor	\$ 39,892.80
Feb	2960	Labor Burden & Benefits	\$ 7,946.69
Feb	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Feb	8940	Cell Phone Bill (1)	\$ 64.00
Feb	5817	Fuel for equipment and Def fluid	\$ 3,000.00
Feb	5915	Heavy equipment service, repairs, & parts	\$ 10,000.00
Feb	5810	Skid Steer Rentals For Canal Cleaning	\$ 3,500.00
Feb	5965	San Juan College Annual Certification Excavation, Asbestos , & Rigging	\$ 1,300.00
Feb	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Feb	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 4,000.00
Feb	4910	Canal lining repairs: Cracks and minor repair- Concrete, grout and supplies	\$ 2,500.00
Feb		Month Expenses:	\$ 82,406.37
Mar	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 30,676.80
Mar	2960	Labor Burden & Benefits	\$ 6,110.84
Mar	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Mar	8940	Cell Phone Bill (1)	\$ 64.00
Mar	5817	Fuel for equipment and DEF fluid	\$ 3,000.00
Mar	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 6,000.00
Mar	5915	Heavy equipment service, repairs, Tires, & parts	\$ 10,000.00
Mar	5810	Rental Long Reach Excavator \$54 per hour @60 hours	\$ 3,240.00
Mar			
Mar		Month Expenses:	\$ 64,974.52

Month	PHASE	Description of Charges	COST
Apr	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 28,304.00
Apr	2960	Labor Burden & Benefits	\$ 5,638.18
Apr	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Apr	8940	Cell Phone Bill (1)	\$ 64.00
Apr	5817	Fuel for equipment and DEF fluid	\$ 3,000.00
Apr	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 8,000.00
Apr	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Apr	5810	Rental Long Reach Excavator \$54 per hour @60 hours	\$ 3,240.00
Apr			
Apr			
Apr		Month Expenses:	\$ 64,129.06
May	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 39,960.00
May	2960	Labor Burden & Benefits	\$ 7,960.00
May	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
May	8940	Cell Phone Bill (1)	\$ 64.00
May	5817	Fuel for equipment and Def fluid	\$ 3,000.00
May	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 8,000.00
May	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
May	4915	Maintenance supplies, fencing, lumber, barb wire, gates, hinges, etc.	\$ 4,000.00
May	5810	Rental Long Reach Excavator \$54 per hour @60 hours	\$ 3,240.00
May			
May		Month Expenses:	\$ 82,106.88
Jun	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 28,304.00
Jun	2960	Labor Burden & Benefits	\$ 5,638.18
Jun	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Jun	8940	Cell Phone Bill (1)	\$ 64.00
Jun	5817	Fuel For equipment and Def fluid	\$ 4,100.00
Jun	4910	Emergency pipe break supplies	\$ 8,000.00
Jun	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Jun	5810	Rental Long Reach Excavator \$54 per hour @60 hours	\$ 3,240.00
Jun	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 6,000.00
Jun			
Jun		Month Expenses:	\$ 71,229.06
Jul	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 28,304.00
Jul	2960	Labor Burden & Benefits	\$ 5,638.18
Jul	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Jul	8940	Cell Phone Bill (1)	\$ 64.00
Jul	5817	Fuel for equipment and DEF fluid	\$ 4,100.00
Jul	4910	Emergency Pipe Break Supplies (26" diameter +)	\$ 8,000.00
Jul	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Jul	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Jul	4915	PVC Pipe- restock	\$ 10,000.00
Jul	4926	Lateral Pipe Breaks - Repair: PVC, Couplers, tools, coating and Mic.	\$ 6,000.00
Jul	4915	Maintenance supplies, fencing, lumber, barb wire, gates, hinges, etc.	\$ 4,000.00
Jul		Month Expenses:	\$ 86,309.06

Month	PHASE	Description of Charges	COST
Aug	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 28,096.00
Aug	2960	Labor Burden & Benefits	\$ 5,596.75
Aug	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Aug	8940	Cell Phone Bill (1)	\$ 64.00
Aug	5817	Fuel for equipment and Def fluid	\$ 4,100.00
Aug	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Aug	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Aug			
Aug			
Aug			
Aug		Month Expenses:	\$ 58,059.63
Sep	2950	Labor & Fringe - (1) Supervisor, (5) Operators	\$ 30,676.80
Sep	2960	Labor Burden & Benefits	\$ 6,110.84
Sep	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Sep	8940	Cell Phone Bill (1)	\$ 64.00
Sep	5817	Fuel for equipment and Def fluid	\$ 3,000.00
Sep	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Sep	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Sep			
Sep			
Sep		Month Expenses:	\$ 60,054.52
Oct	2950	Labor - (1) Supervisor, (5) Operators, (4) seasonal labor	\$ 38,382.40
Oct	2960	Labor Burden & Benefits	\$ 7,645.80
Oct	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Oct	8940	Cell Phone Bill (1)	\$ 64.00
Oct	5817	Fuel for equipment and Def fluid	\$ 3,000.00
Oct	5810	Skid Steer Rentals For Canal Cleaning	\$ 3,000.00
Oct	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Oct	4915	Booms and chains for hauling	\$ 2,000.00
Oct	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Oct	4910	Canal lining repairs: Cracks and minor repair- Concrete, grout and supplies	\$ 2,500.00
Oct			
Oct			
Oct		Month Expenses:	\$ 76,795.08
Nov	2950	Labor - (1) Supervisor, (5) Operators, (4) seasonal labor	\$ 47,665.60
Nov	2960	Labor Burden & Benefits	\$ 9,494.96
Nov	5975	GSA Rental, Services, PMs, and Fuel for Equipment	\$ 5,882.88
Nov	8940	Cell Phone Bill (1)	\$ 64.00
Nov	5817	Fuel for equipment and Def fluid	\$ 3,000.00
Nov	5810	Skid Steer Rentals For Canal Cleaning	\$ 8,200.00
Nov	5915	Heavy equipment service, repairs, tires, & parts	\$ 10,000.00
Nov	5810	Rental Long Reach Excavator \$54 per hour @80 hours	\$ 4,320.00
Nov	5950	Sihpon Cleaning - Hydrovac Sediment removal	\$ 15,000.00
Nov	4910	Canal lining repairs: Cracks and minor repair- Concrete, grout and supplies	\$ 2,500.00
Nov		Month Expenses:	\$ 106,127.44



## Control Center - Projected CY 2026

2026	PHASE	Description of Charges	COST
Jan	2950	Labor (1) Supervisor, (3) Operators	\$ 14,296.00
Jan	2960	Labor Benefits & Burden	\$ 2,847.77
Jan	5975	GSA (2) Units	\$ 814.37
Jan	8940	Cell Phone Bill (1)	\$ 60.00
Jan	5950	Block 4 Hangman at DU 4-57 - Materials	\$ 7,000.00
Jan	4915	Maintenance Tool, Materials & Supplies	\$ 750.00
Jan	3960	Safety Boot Reimbursement (4) employees	\$ 400.00
Jan		Month Expenses:	\$ 26,168.14
Feb	2950	Labor (1) Supervisor, (3) Operators	\$ 17,582.00
Feb	2960	Labor Benefits & Burden	\$ 3,502.33
Feb	5975	GSA (2) Units	\$ 814.37
Feb	8940	Cell Phone Bill (1)	\$ 60.00
Feb	4915	Maintenance Tool, Materials & Supplies	\$ 300.00
Feb			
Feb		Month Expenses:	\$ 22,258.70
Mar	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Mar	2960	Labor Benefits & Burden	\$ 3,692.37
Mar	5975	GSA (2) Units	\$ 814.37
Mar	8940	Cell Phone Bill (1)	\$ 60.00
Mar	4917	Office Supplies	\$ 500.00
Mar			
Mar		Month Expenses:	\$ 23,602.74
Apr	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Apr	2960	Labor Benefits & Burden	\$ 3,692.37
Apr	5975	GSA (2) Units	\$ 814.37
Apr	8940	Cell Phone Bill (1)	\$ 60.00
Apr			
Apr		Month Expenses:	\$ 23,102.74
May	2950	Labor (1) Supervisor, (3) Operators	\$ 27,804.00
May	2960	Labor Benefits & Burden	\$ 5,538.56
May	5975	GSA (2) Units	\$ 814.37
May	8940	Cell Phone Bill (1)	\$ 60.00
May			
May		Month Expenses:	\$ 34,216.93
Jun	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Jun	2960	Labor Benefits & Burden	\$ 3,692.37
Jun	5975	GSA (2) Units	\$ 814.37
Jun	8940	Cell Phone Bill (1)	\$ 60.00
Jun			
Jun		Month Expenses:	\$ 23,102.74

2026	PHASE	Description of Charges	COST
Jul	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Jul	2960	Labor Benefits & Burden	\$ 3,692.37
Jul	5975	GSA (2) Units	\$ 814.37
Jul	8940	Cell Phone Bill (1)	\$ 60.00
Jul			
Jul		Month Expenses:	\$ 23,102.74
Aug	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Aug	2960	Labor Benefits & Burden	\$ 3,692.37
Aug	5975	GSA (2) Units & PM Service, Etc.	\$ 814.37
Aug	8940	Cell Phone Bill (1)	\$ 60.00
Aug			
Aug			\$ 23,102.74
Sep	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Sep	2960	Labor Benefits & Burden	\$ 3,692.37
Sep	5975	GSA (2) Units & PM Service, Etc.	\$ 814.37
Sep	8940	Cell Phone Bill (1)	\$ 60.00
Sep	3960	Safety Supplies for Winter Maintenance	\$ 250.00
Sep	4917	Office Supplies	\$ 300.00
Sep			
Sep		Month Expenses:	\$ 23,652.74
Oct	2950	Labor (1) Supervisor, (3) Operators	\$ 18,536.00
Oct	2960	Labor Benefits & Burden	\$ 3,692.37
Oct	5975	GSA (2) Units & PM Service, Etc.	\$ 814.37
Oct	8940	Cell Phone Bill (1)	\$ 60.00
Oct			\$ -
Oct			\$ -
Oct			
Oct		Month Expenses:	\$ 23,102.74
Nov	2950	Labor (1) Supervisor, (3) Operators	\$ 24,730.00
Nov	2960	Labor Benefits & Burden	\$ 4,926.23
Nov	5975	GSA (2) Units & PM Service, Etc.	\$ 814.37
Nov	8940	Cell Phone Bill (1)	\$ 60.00
Nov			\$ -
Nov			\$ -
Nov			
Nov		Month Expenses:	\$ 30,530.60
Dec	2950	Labor (1) Supervisor, (3) Operators	\$ 14,296.00
Dec	2960	Labor Benefits & Burden	\$ 2,847.77
Dec	5975	GSA (2) Units & PM Service, Etc.	\$ 814.37
Dec	8940	Cell Phone Bill (1)	\$ 60.00
Dec			
Dec		Month Expenses:	\$ 18,018.14

**\$ 293,961.69**

2026	PHASE	Description of Charges	COST
<b>Deferred Maintenance &amp; Activities</b>			
Month	PHASE	Description of Charges	COST
Jan	5800	Siphon Cleaning at 302 Hwy, Tunnel 5, 371 Hwy, 4050 Rd, 3003 Hwy, and 550 Hwy.	\$ 25,000.00
Total			\$ 25,000.00

## Electrical - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Maintenance Labor - (1) Supervisor, (3) Electricians, (1) Field Support, (4) seasonal labors	\$ 32,161.60
Jan	2960	Labor Burden & Benefits	\$ 6,406.59
Jan	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Jan	8940	Cell Phone Bill (2)	\$ 128.00
Jan	4915	Supplies needed for Region 1/Blocks 1, 4 dewatering projects through the month	\$ 2,000.00
Jan	4920	34.5 KV Highline Maintenance - Overhead Transformer Bank PM in Region 1 & 2.	\$ 2,000.00
Jan	4920	Switchgear Preventative Maintenance (interior & exterior)	\$ 2,000.00
Jan	5965	Training: New Hire certifications & employee annual recertifications. (Switchmans)	\$ 2,000.00
Jan	3960	Safety protection gear (Arc Flash Apparel)	\$ 3,000.00
Jan	4917	Office Supplies	\$ 1,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Jan	5950	Region 2 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Jan	5965	Electrician License Renewal (2) employees	\$ 350.00
Jan	3960	Safety Boot Reimbursement (5) employees	\$ 500.00
Jan		Month Expenses:	\$ 214,521.11
Feb	2950	Maintenance Labor - (1) Supervisor, (3) Electricians, (1) Field Support, (4) seasonal labors	\$ 35,242.20
Feb	2960	Labor Burden & Benefits	\$ 7,020.27
Feb	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Feb	8940	Cell Phone Bill (2)	\$ 128.00
Feb	4915	Supplies needed for Region 1/Block 5 dewatering projects through the month	\$ 20,000.00
Feb	3910	Motor oil purchase (Lubisol MPRO 32 & 68) 275 gallon totes.	\$ 20,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 20,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Feb	5950	Region 1 Electrical Motors - T.D.I./recondition motor (deferred from 2025)	\$ 15,000.00
Feb		Month Expenses:	\$ 220,365.39

Month	PHASE	Description of Charges	COST
Mar	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 26,764.40
Mar	2960	Labor Burden & Benefits	\$ 5,331.48
Mar	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Mar	8940	Cell Phone Bill (2)	\$ 128.00
Mar	4910	Supplies needed for projects through the month. (Region 1/Block 1)	\$ 4,000.00
Mar	3970	Motor Control Switches/relays/timers replacement. (Region 1/Block 1)	\$ 3,000.00
Mar	5970	Elevated tanks device replacement. (Region 1/Block 1)	\$ 2,000.00
Mar	3910	Vertical electric motor oil changes where needed. (Regions 1 & 2)	\$ 2,000.00
Mar		Month Expenses:	\$ 46,198.80
Apr	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 26,764.40
Apr	2960	Labor Burden & Benefits	\$ 5,331.48
Apr	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Apr	8940	Cell Phone Bill (2)	\$ 128.00
Apr	3910	Motor oil replacement on reconditioned motors. (Regions 1, 2)	\$ 3,000.00
Apr	3970	Motor Control Switches/relays/timers replacement. (Region 1/Block 4)	\$ 3,000.00
Apr	5990	Traveling Water Screens device replacement. (Region 1/Block 4)	\$ 2,000.00
Apr	5970	Elevated tanks device replacement. (Region 1/Block 4)	\$ 2,000.00
Apr	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 1/Block 4)	\$ 4,000.00
Apr	4910	Supplies needed for projects through the month. (Region 1/Block 4)	\$ 2,000.00
Apr			\$ -
Apr		Month Expenses:	\$ 51,198.80
May	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 47,071.80
May	2960	Labor Burden & Benefits	\$ 9,376.70
May	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
May	8940	Cell Phone Bill (2)	\$ 128.00
May	5970	Elevated tanks device replacement. (Region 2/Block 2)	\$ 3,000.00
May	3970	Motor Control Switches/relays/timers replacement. (Region 2/Block 2)	\$ 3,000.00
May	4910	Supplies needed for projects through the month. (Region 2/Block 2)	\$ 2,000.00
May	5990	Traveling Water Screens device replacement. (Region 2/Block 2)	\$ 2,000.00
May	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 2/Block 2)	\$ 4,000.00
May	5945	Motor repair/replacement in Region 1/Blocks 1, 4, 5.	\$ 5,000.00
May			\$ -
May		Month Expenses:	\$ 78,551.42
Jun	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 33,689.60
Jun	2960	Labor Burden & Benefits	\$ 6,710.97
Jun	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Jun	8940	Cell Phone Bill (2)	\$ 128.00
Jun	4917	Office Supplies.	\$ 1,000.00
Jun	3960	Arc Flash equipment - P.P.E. gloves, hot sticks (6 month periodic testing)	\$ 3,000.00
Jun	3970	Motor Control Switches/relays/timers replacement. (Region 2/Block 3)	\$ 3,000.00
Jun	4910	Supplies needed for projects through the month. (Region 2/Block 3)	\$ 4,000.00
Jun	5970	Elevated tanks device replacement. (Region 2/Block 3)	\$ 2,000.00
Jun	5990	Traveling Water Screens device replacement. (Region 2/Block 3)	\$ 2,000.00
Jun	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 2/Block 3)	\$ 4,000.00
Jun		Month Expenses:	\$ 62,503.49

Month	PHASE	Description of Charges	COST
Jul	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 33,689.60
Jul	2960	Labor Burden & Benefits	\$ 6,710.97
Jul	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Jul	8940	Cell Phone Bill (2)	\$ 128.00
Jul	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 1/Block 5)	\$ 4,000.00
Jul	3970	Motor Control Switches/relays/timers replacement. (Region 1/Block 5)	\$ 2,000.00
Jul	4910	34.5 KV line & guy wire maintenance in Regions 1 & 2. (Region 1/Block 5)	\$ 4,000.00
Jul	4910	Supplies needed for projects through the month. (Region 1/Block 5)	\$ 4,000.00
Jul	5970	Elevated tanks device replacement. (Region 1/Block 5)	\$ 2,000.00
Jul	5990	Traveling Water Screens device replacement. (Region 1/Block 5)	\$ 2,000.00
Jul			
Jul		Month Expenses:	\$ 61,503.49
Aug	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 33,689.60
Aug	2960	Labor Burden & Benefits	\$ 6,710.97
Aug	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Aug	8940	Cell Phone Bill (2)	\$ 128.00
Aug	3970	Motor Control Switches/relays/timers replacement. (Region 2/Block 6)	\$ 2,000.00
Aug	4910	Supplies needed for projects through the month. (Region 2/Block 6)	\$ 4,000.00
Aug	5945	Mobile Generator Services, (85 KW & 360 KW)	\$ 2,000.00
Aug	5945	Bucket Truck Annual Resertification Inspection.	\$ 3,000.00
Aug	5970	Elevated tanks device replacement. (Region 2/Block 6)	\$ 2,000.00
Aug	5990	Traveling Water Screens device replacement. (Region 2/Block 6)	\$ 2,000.00
Aug	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 2/Block 6)	\$ 4,000.00
Aug		Month Expenses:	\$ 62,503.49
Sep	2950	Operations Labor - (1) Supervisor, (3) Electricians & (1) Field Support Technician	\$ 33,689.60
Sep	2960	Labor Burden & Benefits	\$ 6,710.97
Sep	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Sep	8940	Cell Phone Bill (2)	\$ 128.00
Sep	4910	Supplies needed for projects through the month. (Region 2/Block 7)	\$ 4,000.00
Sep	3970	Motor Control Switches/relays/timers replacement. (Region 2/Block 7)	\$ 2,000.00
Sep	5990	Traveling Water Screens device replacement. (Region 2/Block 7)	\$ 1,000.00
Sep	5970	Elevated tanks device replacement. (Region 2/Block 7)	\$ 1,000.00
Sep	3972	34.5 KV Overhead Fuse Units/Fuse Links. (Region 2/Block 7)	\$ 4,000.00
Sep	5945	Motor repair/replacement in Region 2/Blocks 2, 3, 6, & 7.	\$ 5,000.00
Sep		Month Expenses:	\$ 60,503.49
Oct	2950	Maintenance Labor - (1) Supervisor, (3) Electricians, (1) Field Support, (4) seasonal labors	\$ 32,161.60
Oct	2960	Labor Burden & Benefits	\$ 6,406.59
Oct	5975	GSA (5) units - unanticipated repairs & required maintenance.	\$ 2,974.92
Oct	8940	Cell Phone Bill (2)	\$ 128.00
Oct	3970	Motor Control Switches/relays/timers stock item replacement	\$ 2,000.00
Oct	4910	Supplies needed for Regions 1 & 2 winterizing projects through the month	\$ 4,000.00
Oct	4920	Transformer/Switchgear Equipment cleaning, Region 1.	\$ 4,000.00
Oct	5945	Mobile Generator Services - 85 KW & 360 KW	\$ 3,000.00
Oct			\$ 54,671.11



## CST RI - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 24,246.40
Jan	2960	Labor Benefits & Burden	\$ 4,829.90
Jan	5975	GSA (6) Units include PM services	\$ 6,886.72
Jan	8940	Cell Phone Bill (1)	\$ 64.00
Jan	5811	Portable Restroom	\$ 130.00
Jan	4915	Materials & Supplies needed for Region 1 operations throughtout the month.	\$ 5,000.00
Jan		Regulator Repair kits, Teflon tape, WD-40, Wire brush, knot end wire brush,	
Jan		wire to tie together copper tubes and regualors.	
Jan	5816	Fuel for Air Compressors and 2-inch water trash pumps.	\$ 200.00
Jan	3960	Safety Shoe Reimbursement (9) employees	\$ 900.00
Jan			
Jan			
Jan		Month Expenses:	\$ 42,257.02
Feb	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 31,148.00
Feb	2960	Labor Benefits & Burden	\$ 6,204.68
Feb	5975	GSA (6) Units include PM services	\$ 6,886.72
Feb	8940	Cell Phone Bill (1)	\$ 64.00
Feb	5811	Portable Restroom	\$ 130.00
Feb	4915	Regulator Parts- Repair kits, Body and Assembly, Complete unit.	\$ 10,000.00
Feb		30 Delivery units.	
Feb	5816	Fuel for Air Compressors and 2-inch water trash pumps.	\$ 200.00
Feb	4910	Air valve parts- Repair kits, seal kits, float kits (50).	\$ 10,000.00
Feb			
Feb		Month Expenses:	\$ 64,633.40
Mar	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 38,049.60
Mar	2960	Labor Benefits & Burden	\$ 7,579.50
Mar	5975	GSA (6) Units include PM services	\$ 6,886.72
Mar	8940	Cell Phone Bill (1)	\$ 64.00
Mar	5811	Portable Restroom	\$ 95.00
Mar	4915	Scrub Brush Bi level 10in. Sherlock 6-10 Ft. Ext. Pole for cleaning canal inlets.	\$ 350.00
Mar	4910	Materials & Supplies needed for Region 1 operations throughtout the month.	\$ 7,000.00
Mar			
Mar		Month Expenses:	\$ 60,024.82
Apr	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 38,049.60
Apr	2960	Labor Benefits & Burden	\$ 7,579.50
Apr	5975	GSA (6) Units include PM services	\$ 6,886.72
Apr	8940	Cell Phone Bill (1)	\$ 64.00
Apr	5811	Portable Restroom	\$ 95.00
Apr	4900	2-inch submersible pumps - CST operations. Buying smaller pumps to make	\$ 2,500.00
Apr		it easier for CSTs to carry around in GSA for pumping out delivery units.	
Apr	4910	Wrench tools for the canal gate structures to operate gates manually.	\$ 2,500.00
Apr		Month Expenses:	\$ 57,674.82

Month	PHASE	Description of Charges	COST
May	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 53,714.40
May	2960	Labor Benfits & Burden	\$ 10,699.93
May	5975	GSA (6) Units include PM services	\$ 6,886.72
May	8940	Cell Phone Bill (1)	\$ 64.00
May	5811	Portable Restroom	\$ 95.00
May	4910	Materials & Supplies needed for Region 1 operations throughtout the month.	\$ 2,000.00
May	5816	Fuel for Air Compressors and 2-inch water trash pumps.	\$ 200.00
May	4915	Regulator Parts- Repair kits, Body and Assembly, Complete unit.	\$ 5,000.00
May			
May		Month Expenses:	\$ 78,660.05
Jun	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 34,689.60
Jun	2960	Labor Benfits & Burden	\$ 6,910.19
Jun	5975	GSA (6) Units include PM services	\$ 6,886.72
Jun	8940	Cell Phone Bill (1)	\$ 64.00
Jun	5811	Portable Restroom	\$ 95.00
Jun	4910	Materials & Supplies needed for Region 1 operations throughtout the month.	\$ 4,000.00
Jun	5816	Fuel for Air Compressors and 2-inch water trash pumps.	\$ 200.00
Jun	3965	Flow meter - drive cables, registers, canopy cover, CBA housing. 22 flow meters	\$ 9,000.00
Jun			
Jun		Month Expenses:	\$ 61,845.51
Jul	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 34,689.60
Jul	2960	Labor Benfits & Burden	\$ 6,910.19
Jul	5975	GSA (6) Units include PM services	\$ 6,886.72
Jul	8940	Cell Phone Bill (1)	\$ 64.00
Jul	5811	Portable Restroom	\$ 95.00
Jul	5810	(1) Skidsteer Rental - clean weeds around delivery units and pumping plants.	\$ 5,000.00
Jul		Block 1,4, & 5 delivery units and pumping plants.	
Jul		Fuel for Skidloader	
Jul		1 month period.	
Jul	5816	Fuel for 2-inch water trash pumps and weed cutters.	\$ 200.00
Jul			
Jul			
Jul		Month Expenses:	\$ 53,845.51
Aug	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 34,689.60
Aug	2960	Labor Benfits & Burden	\$ 6,910.19
Aug	5975	GSA (6) Units include PM services	\$ 6,886.72
Aug	8940	Cell Phone Bill (1)	\$ 64.00
Aug	5811	Portable Restroom	\$ 95.00
Aug	3965	Flow Meter - Drive cables, Registers, Canopy Covers, CBA housings.	\$ 8,000.00
Aug	4930	Air valves - 1" to 2" air vaccum release valves. Also, repair kits, parts needs	\$ 8,000.00
Aug		throughout the month.	
Aug	5816	Fuel for 2-inch water trash pumps and weed cutters.	\$ 200.00
Aug			
Aug			
Aug		Month Expenses:	\$ 64,845.51

Month	PHASE	Description of Charges	COST
Sep	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 34,689.60
Sep	2960	Labor Benefits & Burden	\$ 6,910.19
Sep	5975	GSA (6) Units include PM services	\$ 6,886.72
Sep	8940	Cell Phone Bill (1)	\$ 64.00
Sep	5811	Portable Restroom	\$ 95.00
Sep	4910	Materials & Supplies needed for Region 1 operations throughtout the month.	\$ 8,000.00
Sep	5816	Fuel for 2-inch water trash pumps and weed cutters.	\$ 200.00
Sep			
Sep			
Sep		Month Expenses:	\$ 56,845.51
Oct	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 36,369.60
Oct	2960	Labor Benefits & Burden	\$ 7,244.85
Oct	5975	GSA (6) Units include PM services	\$ 6,886.72
Oct	8940	Cell Phone Bill (1)	\$ 64.00
Oct	5811	Portable Restroom	\$ 95.00
Oct	4915	Materials & Supplies needed for Maintenance Season.	\$ 10,000.00
Oct	5950	Outside maintenance service for 2" water trash pumps.	\$ 2,500.00
Oct			
Oct			
Oct			
Oct		Month Expenses:	\$ 63,160.17
Nov	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 56,234.40
Nov	2960	Labor Benefits & Burden	\$ 11,201.92
Nov	5975	GSA (6) Units include PM services	\$ 6,886.72
Nov	8940	Cell Phone Bill (1)	\$ 64.00
Nov	5811	Portable Restroom	\$ 130.00
Nov	4915	Materials & Supplies needed for Region 1 Maintenance throughtout the month.	\$ 8,000.00
Nov		Regulator Repair kits, Teflon tape, WD-40, Wire brush, knot end wire brush,	
Nov		wire to tie together copper tubes and regualors.	
Nov	5816	Fuel for Air Compressors, 2" water trash pumps, and (2) diesel generators.	\$ 2,500.00
Nov	5810		\$ 2,300.00
Nov			
Nov		Month Expenses:	\$ 87,317.04
Dec	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 24,246.40
Dec	2960	Labor Benefits & Burden	\$ 4,829.90
Dec	5975	GSA (6) Units include PM services	\$ 6,886.72
Dec	8940	Cell Phone Bill (1)	\$ 64.00
Dec	5811	Portable Restroom	\$ 130.00
Dec	4915	Material & Supplies needed for Region 1 maintenance throughout the month.	\$ 8,000.00
Dec	5816	Fuel for Air Compressor, 2" water trash pumps, and diesel generators.	\$ 2,000.00
Dec			
Dec			
Dec		Month Expenses:	\$ 46,157.02

**\$ 737,266.38**



## CST RII - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 25,911.36
Jan	2960	Labor Benefits & Burden	\$ 5,161.55
Jan	8940	AT&T (1)	\$ 64.00
Jan	5975	GSA, Oil Change, Etc	\$ 6,886.72
Jan	5811	Portable Restroom	\$ 130.00
Jan	3985	(30) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 5,000.00
Jan	4915	(3) Pumps For Repair (oil change, spark plug, air filter for water pumps)	\$ 200.00
Jan	5816	Fuel for Air Compressors/Water Pumps/ Generator for Startup season	\$ 150.00
Jan	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 2,000.00
Jan	3965	(20) Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 8,000.00
Jan	3960	Safety Shoe Reimbursement (9) Employees	\$ 900.00
Jan			
Jan		Month Expenses:	\$ 54,403.63
Feb	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 31,890.00
Feb	2960	Labor Benefits & Burden	\$ 6,352.49
Feb	8940	AT&T (1)	\$ 64.00
Feb	5975	GSA, Oil Change, New Tires, Car Wash/ Detailing	\$ 6,886.72
Feb	5811	Portable Restroom	\$ 130.00
Feb	3965	(30) Meter-WaterFlow (Flowmeter Parts for Maintenance)	\$ 8,000.00
Feb	3985	(50) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 8,000.00
Feb	5816	Fuel for Air Compressors/Water Pumps for Startup season	\$ 150.00
Feb	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,500.00
Feb	4910	2" Air Valve Parts/Air Valve Body for Maintenance	\$ 5,000.00
Feb			
Feb			\$ 67,973.21
Mar	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 38,867.04
Mar	2960	Labor Benefits & Burden	\$ 7,742.36
Mar	8940	AT&T (1)	\$ 64.00
Mar	5975	GSA, Oil Change, Etc	\$ 6,886.72
Mar	5811	Portable Restroom	\$ 95.00
Mar	3985	(40) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 10,000.00
Mar	5816	(3)Fuel for Air Compressors/Water Pumps/ Generator for Startup season	\$ 150.00
Mar	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 2,000.00
Mar	3965	(20)Meter-WaterFlow (Flowmeter Parts for Maintenance)	\$ 10,000.00
Mar	4910	2" Air Valve Parts/Air Valve Body for Maintenance	\$ 3,000.00
Mar			
Mar		Month Expenses:	\$ 78,805.12
Apr	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 38,268.00
Apr	2960	Labor Benefits & Burden	\$ 7,623.02
Apr	8940	AT&T (1)	\$ 64.00
Apr	5975	GSA, Oil Change, Etc	\$ 6,886.72
Apr	5811	Portable Restroom	\$ 95.00
Apr	3985	(20) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 8,000.00
Apr	5816	(3) Fuel for Air Compressors/Water Pumps/Generator	\$ 200.00
Apr	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 3,500.00
Apr			
Apr		Month Expenses:	\$ 64,636.74

Month	PHASE	Description of Charges	COST
May	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 54,007.44
May	2960	Labor Benefits & Burden	\$ 10,758.25
May	8940	AT&T (1)	\$ 64.00
May	5975	GSA, Oil Change, Etc	\$ 6,886.72
May	5811	Portable Restroom	\$ 95.00
May	3985	(20) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 8,000.00
May	5816	(3) Fuel for Air Compressors/Water Pumps/Generator	\$ 200.00
May	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 2,500.00
May			
May			
May		Month Expenses:	\$ 82,511.41
Jun	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 36,670.56
Jun	2960	Labor Benefits & Burden	\$ 7,304.81
Jun	8940	AT&T (1)	\$ 64.00
Jun	5975	GSA, Oil Change, Etc	\$ 6,886.72
Jun	5811	Portable Restroom	\$ 95.00
Jun	3985	(10)Pressure Reducing Valve (PRV parts For Maintenance)	\$ 8,000.00
Jun	5816	(3) Fuel for Air Compressors/Water Pumps/Weed Wacker/Generator	\$ 225.00
Jun	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 2,500.00
Jun			
Jun			
Jun		Month Expenses:	\$ 61,746.09
Jul	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 36,470.88
Jul	2960	Labor Benefits & Burden	\$ 7,265.03
Jul	8940	AT&T (1)	\$ 64.00
Jul	5975	GSA, Oil Change, Etc	\$ 6,886.72
Jul	5811	Portable Restroom	\$ 95.00
Jul	3965	(15) Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 7,000.00
Jul	3985	(20) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 7,000.00
Jul	5816	(3) Fuel for Air Compressors/Water Pumps/Weed Wacker/Generator	\$ 200.00
Jul	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,600.00
Jul			
Jul			
Jul		Month Expenses:	\$ 66,581.63
Aug	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 36,870.24
Aug	2960	Labor Benefits & Burden	\$ 7,344.58
Aug	8940	AT&T (1)	\$ 64.00
Aug	5975	GSA, Oil Change, Etc	\$ 6,886.72
Aug	5811	Portable Restroom	\$ 95.00
Aug	3965	(100+) Meter-Water Flow (Flowmeter Parts for Winter Maintenance)	\$ 8,000.00
Aug	3985	(20) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 8,000.00
Aug	5816	(3) Fuel for Air Compressors/Water Pumps/Weed Wacker/Generator	\$ 200.00
Aug	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,200.00
Aug	5810	(1)Rent Skid-Loader for Weeds cleaning around Delivery Units	\$ 4,000.00
Aug			
Aug			
Aug		Month Expenses:	\$ 72,660.54

Month	PHASE	Description of Charges	COST
Sep	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 36,470.88
Sep	2960	Labor Benefits & Burden	\$ 7,265.03
Sep	8940	AT&T (1)	\$ 64.00
Sep	5975	GSA, Oil Change, New Tires, Car Wash/ Detailing	\$ 6,886.72
Sep	5811	Portable Restroom	\$ 95.00
Sep	3965	(15) Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 6,000.00
Sep	3985	(20) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 5,000.00
Sep	5816	(3) Fuel for Air Compressors/Water Pumps/Weed Wacker/Generator	\$ 200.00
Sep	4910	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,500.00
Sep			
Sep			
Sep		Month Expenses:	\$ 63,481.63
Oct	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 37,668.96
Oct	2960	Labor Benefits & Burden	\$ 7,503.68
Oct	8940	AT&T (1)	\$ 64.00
Oct	5975	GSA, Oil Change, Etc	\$ 6,886.72
Oct	5811	Portable Restroom	\$ 95.00
Oct	3965	(10)Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 5,000.00
Oct	3985	(15) Pressure Reducing Valve (PRV parts For Maintenance)	\$ 5,000.00
Oct	5816	(3) Fuel for Air Compressors/Water Pumps/Generator	\$ 200.00
Oct	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	
Oct			
Oct			
Oct		Month Expenses:	\$ 62,418.36
Nov	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 55,305.36
Nov	2960	Labor Benefits & Burden	\$ 11,016.80
Nov	8940	AT&T (1)	\$ 64.00
Nov	5975	GSA, Oil Change, Etc	\$ 6,886.72
Nov	5811	Portable Restroom	\$ 130.00
Nov	3965	Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 5,000.00
Nov	3985	Disassemble Pressure Reducing Valve (PRV parts For Maintenance)	\$ 2,000.00
Nov	5816	Fuel for Air Compressors/Water Pumps	\$ 150.00
Nov	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,500.00
Nov			
Nov			
Nov		Month Expenses:	\$ 82,052.88
Dec	2950	Labor - (1) Foreman, (7) CST, (1) FT Labor	\$ 25,711.68
Dec	2960	Labor Benefits & Burden	\$ 5,121.77
Dec	8940	AT&T (1)	\$ 64.00
Dec	5975	GSA, Oil Change, Etc	\$ 6,886.72
Dec	5811	Portable Restroom	\$ 130.00
Dec	5816	Fuel for Air Compressors/Water Pumps	\$ 150.00
Dec	4915	Supplies For operation. Parts, Copper Tubbing, Fitting, Wires, Gaskets	\$ 1,500.00
Dec	3965	Meter-Water Flow (Flowmeter Parts for Maintenance)	\$ 5,000.00
Dec			
Dec		Month Expenses:	\$ 44,564.17

**Total \$ 801,835.41**



## Mechanical - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor (1) Supervisor (4) Mechanics, (3) Seasonal Labors	\$ 31,003.60
Jan	2960	Labor Benefits & Burden	\$ 6,175.94
Jan	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Jan	8940	AT&T (1)	\$ 64.00
Jan	4915	BLK (6) PP G7.5LA Hyd oil fluid replacement aprox. 50 gals. ongoing cleaning oil reservoir tank.	\$ 6,000.00
Jan	4915	Block (4) PP MC45.7LB # (3) Horizontal Split case pump reinstall Mechanical seals.	\$ 4,000.00
Jan	3920	Block (1) Gas Engine PP MC40.3R # (5) overhaul on Cam Shaft replacement.	\$ 8,000.00
Jan	4900	BLK (4) PP MC45.7LA # (2) Cone valve REXROTH (4) way valve replacement.	\$ 7,000.00
Jan	3920	BLK (1), (2), & (3) gas engine PP MC38.8R, MC40.3R, MC36.3R bad batteries replacement .	\$ 4,000.00
Jan	5990	BLK (4) PP MC45.7LA # (4) Hydraulic cone valve (4) way REXROTH valve replacement.	\$ 6,000.00
Jan	3920	PMS all air compressor in Block (4) hydro tank AC & hydraulic valve system W/AC	\$ 400.00
Jan	3920	Region (2) PP G14.5R # (2) and # (3) Amarillo right angle gear drive replacement. Tagged end of 2024 season with broken vertical pump shaft cause by right angle gear drive failure.	\$ 12,000.00
Jan	4930	BLK (4) Hyd cone valves service before put back in service. PP with hydraulic valve system to purchase oil filter to complete PM.	\$ 1,200.00
Jan	3960	Safety Shoe Reimbursement (5) Employees	\$ 500.00
Jan	4910	Additional tools - Caterpillar engine Cam bearings remover & installer	\$ 2,000.00
Jan	4910	Thermometer Temperature gun / with bolt threader set.	\$ 2,000.00
Jan		Month Expenses:	\$ 95,534.80
Feb	2950	Labor (1) Supervisor (4) Mechanics, (3) Seasonal Labors	\$ 33,440.90
Feb	2960	Labor Benefits & Burden	\$ 6,661.44
Feb	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Feb	8940	AT&T (1)	\$ 64.00
Feb	3920	All gas engines to proceed PM service, function test and put back in service. - Oil & Air Filters	\$ 4,000.00
Feb	3925	Maintenance check structure gear box, grease, change out lips seals, grease radial gate	\$ 300.00
Feb	3920	Gas engine heat-exchanger replacement Block (1) PP MC36.3R # (3), MC38.8R # 1,#2, #3 -	\$ 28,000.00
Feb	3920	Gas engine heat-exchanger replacement Block (1) PP MC33.3R # 1, # 2, and # 3.	\$ 28,000.00
Feb	3920	BLK (1) gas engine PP MC34.9R # (1) Caterpillar gas engine installation after reconditioning.	\$ 23,000.00
Feb	3920	BLK (1) Gas eng PP MC38.8R # (40 Caterpillar gas engine installation after reconditioning .	\$ 24,000.00
Feb		Month Expenses:	\$ 152,657.60
Mar	2950	Labor (1) Supervisor (4) Mechanics	\$ 27,209.40
Mar	2960	Labor Benefits & Burden	\$ 5,420.11
Mar	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Mar	8940	AT&T (1)	\$ 64.00
Mar	3920	Gas engine returned to proceed installation (2) Caterpillar engine/ Parts needed	\$ 2,000.00
Mar	3920	Purchase gas engine antifreeze (4) 55 gallons drums @ \$500.00 ea.	\$ 2,000.00
Mar	3920	Purchase (1) tote 275 gallons low ash gas engine oil - add to bulk tanks	\$ 6,000.00
Mar	3925	Purchase (1) tote 275 gals Hyd 32wt FG oil add to bulk tanks for lubricate pump bushing	\$ 6,600.00
Mar	3925	Continue maintenance check structure gearbox and radial gate, grease pivot area.	\$ 200.00
Mar	3920	Continue with engine maintenance to put units online for the season. All region (1) PP	\$ 300.00
Mar	5990	TWS - 604 Check Structure # (1) to remove lifting hub to machine and replace sleeve.	\$ 1,200.00
Mar		Month Expenses:	\$ 56,184.77
Apr	2950	Labor (1) Supervisor (4) Mechanics	\$ 27,209.40
Apr	2960	Labor Benefits & Burden	\$ 5,420.11
Apr	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Apr	8940	AT&T (1)	\$ 64.00
Apr	3920	Purchase gas engine's 8D batteries not taking re-charge. Replacement cost 300.00 ea. X 4 =	\$ 1,200.00
Apr	3920	Gas Engine Alternator replacement, after testing not charging. Cost 400.00 X4 =	\$ 1,200.00
Apr	4930	Purchase hydraulic cone valve oil filters, PM service before put back online.	\$ 1,600.00
Apr	5990	TWS speed reducer maintenance repair parts . Flexible coupling replacement. Fluid coupling	\$ 9,500.00
Apr	3920	Gas engine heat-exchanger replacement Block (1) PP MC34.9R # (1) - 9,500.00 ea	\$ 9,500.00
Apr		Month Expenses:	\$ 60,884.77

Month	PHASE	Description of Charges	COST
May	2950	Labor (1) Supervisor (4) Mechanics	\$ 43,791.60
May	2960	Labor Benefits & Burden	\$ 8,723.26
May	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
May	8940	AT&T (1)	\$ 64.00
May	3920	Purchase (1) tote 275 gallons low ash gas engine oil - add to bulk tanks	\$ 6,000.00
May	3925	Purchase (1) tote 275 gals Hyd 32wt FG oil add to bulk tanks for lubricate pump bushing	\$ 6,600.00
May	3920	Gas engine heat-exchanger replacement Block (1) PP MC40.3R # (5)	\$ 9,500.00
May	5990	TWS parts, machine work on re-sleeving lifting hubs, change out sprocket chain.	\$ 3,000.00
May	3920	BLK 1 gas engines driveline repair repair.	\$ 800.00
May			
May			
May			
May		Month Expenses:	\$ 83,670.12
Jun	2950	Labor (1) Supervisor (4) Mechanics	\$ 29,194.40
Jun	2960	Labor Benefits & Burden	\$ 5,815.52
Jun	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Jun	8940	AT&T (1)	\$ 64.00
Jun	4900	Pumps return from recondition & proceed installation - Purchasing gasket materials, bolts	\$ 500.00
Jun	4930	PP Hyd cone val returned from recondition & proceed installation - gaskets replacement	\$ 500.00
Jun	3920	Caterpillar gas engine starter	\$ 4,000.00
Jun	5990	TWS parts, machine work on re-sleeving lifting hubs, Sprockets for chain rotation.	\$ 3,000.00
Jun	3920	gas engine heat exchanger	\$ 10,000.00
Jun	3920	Amarillo right angle gear drive replacement for gas engine pumping plant. PP MC40.3R # 4	\$ 12,000.00
Jun			
Jun			
Jun		Month Expenses:	\$ 70,265.18
Jul	2950	Labor (1) Supervisor (4) Mechanics	\$ 29,194.40
Jul	2960	Labor Benefits & Burden	\$ 5,815.52
Jul	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Jul	8940	AT&T (1)	\$ 64.00
Jul	4900	Machine work, Pump shaft tension nut re-sleeve	\$ 1,200.00
Jul	4900	Vertical pump head shaft, fabricate replacement	\$ 1,000.00
Jul	4900	Horizontal split case pump and motor replacement (FLAK Coupling replacement) Machine wk	\$ 3,000.00
Jul	3920	Caterpillar gas engine parts replacement, front and rear oil seals, spark plugs, plugs wires.	\$ 3,000.00
Jul	3920	Arrow gas engine rear seal and front seals replacement	\$ 4,000.00
Jul	3920	Gas engine driveline repair	\$ 800.00
Jul	3920	Gas engine Turbo Charger replacement	\$ 3,000.00
Jul	3920	3306 Caterpillar gas engine replacing Governor / fuel system	\$ 2,000.00
Jul			
Jul		Month Expenses:	\$ 58,265.18
Aug	2950	Labor (1) Supervisor (4) Mechanics	\$ 29,194.40
Aug	2960	Labor Benefits & Burden	\$ 5,815.52
Aug	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Aug	8940	AT&T (1)	\$ 64.00
Aug	3920	Purchase (1) tote low ash gas engine oil to proceed PM service, change oil & air filters.	\$ 4,000.00
Aug	5970	Amarillo right angle gear drive replacement for gas engine pumping plant	\$ 14,000.00
Aug	3920	Region (1) & (2) gas engine PP to proceed PM Service, changing oil and filters.	\$ 400.00
Aug	3920	Region (1) PP with hydro tank air compressor to proceed PM service. Oil and filters change	\$ 300.00
Aug	5990	BLK (5) PP C2.0R TWS # (1) & # (2) to obtain quote for maintenace repair.	\$ 30,000.00
Aug			
Aug			
Aug			
Aug		Month Expenses:	\$ 88,965.18

Month	PHASE	Description of Charges	COST
Sep	2950	Labor (1) Supervisor (4) Mechanics	\$ 29,194.40
Sep	2960	Labor Benefits & Burden	\$ 5,815.52
Sep	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Sep	8940	AT&T (1)	\$ 64.00
Sep	3920	Region (1) & (2) Gas engine PP to proceed gas engine cylinder compression reading & maint	\$ 500.00
Sep	4900	Gas engine compression reading to determine cylinders heads needs any machine work.	
Sep			
Sep		Month Expenses:	\$ 40,765.18
Oct	2950	Labor (1) Supervisor (4) Mechanics, (3) Seasonal Labors	\$ 35,425.90
Oct	2960	Labor Benefits & Burden	\$ 7,056.80
Oct	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Oct	8940	AT&T (1)	\$ 64.00
Oct	4930	Pumping equipment disconnecting for removal to proceed maintenance repair.	
Oct	3920	Gas Engine PP to schedule Crane Service, removal gas engine for winter maintenance repair	\$ 800.00
Oct	4930	Block (1) gas engine PP MC38.8R # (5) & # (6) Check Valve maintenance repair	\$ 1,200.00
Oct	4900	Crane service, disconnecting vertical pumps for removal in block 4 area.	
Oct			
Oct		Month Expenses:	\$ 49,737.96
Nov	2950	Labor (1) Supervisor (4) Mechanics, (3) Seasonal Labors	\$ 46,593.30
Nov	2960	Labor Benefits & Burden	\$ 9,281.37
Nov	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Nov	8940	AT&T (1)	\$ 64.00
Nov	4930	Block (1) PP MC36.3L # (2) check valve removal for winter maintenance. Crane Service	\$ 800.00
Nov	5945	Pumping Plant vacuume service. Outside service with vacuum truck on removing sediment.	\$ 33,000.00
Nov			
Nov		Month Expenses:	\$ 94,929.93
Dec	2950	Labor (1) Supervisor (4) Mechanics, (3) Seasonal Labors	\$ 29,018.60
Dec	2960	Labor Benefits & Burden	\$ 5,780.51
Dec	5975	GSA (5) Units & PM services, etc.	\$ 5,191.26
Dec	8940	AT&T (1)	\$ 64.00
Dec	5945	Complete Pumping Plant Vaccume Service - 12/11/24	
Dec	3920	Winter Maintenance ongoing at shop - Gas engines, valves, check valves, right angle drive.	\$ 200.00
Dec			
Dec		Month Expenses:	\$ 40,254.37

**\$ 892,115.03**

Month	PHASE	Description of Charges	COST
<b>Deferred Maintenance &amp; Activities</b>			
Month	PHASE	Description of Charges	COST
Mar-24	4900	BLK - (2) PP G14.5R # (3) Vertical Pump removal for reconditioning.	\$ 24,000.00
Jun-24	4900	BLK- (4) PP MC45.7LB # (3) Horizontal split case pump Mechanical seals replacement.	\$ 6,000.00
Jun-24	4900	BLK-(4) PP MC36.3L # (1) vertical pump put on WIIN Act repair. Problem with Tension nut leak	\$ 26,200.00
24-Feb	4900	BLK (4) PP MC45.7LB # (4) Horizontal split case pump, pump beyond repair. Obtaining quotes	\$ 49,000.00
Jul-24	4930	BLK- (5) PP C4.4C EIM control cone valve, problem with opening. Tagged 7/2024	\$ 2,000.00
Jul-24	4930	BLK-(1) Gas eng. PP MC40.3R #(2)#(4)#(5) heat-exchanger replacement - @ \$9,500.00 X 3 =	\$ 28,500.00
Aug-24	4930	BLK-(1) Gas Eng. PP A10.9L #(1)#(3) heat-exchanger replacement - @ \$9,500.00 X (2) =	\$ 19,000.00
Aug-24	4930	BLK-(1) Gas Eng. PP G14.5L #(1) #(2) heat-exchanger replacement - @ \$9,500.00 X (2) =	\$ 19,000.00
Aug-24	4930	BLK (3) Gas Engine PP A10.9L # (2) Amarillo Right Angle gear drive replacement.	\$ 13,000.00
Aug-24	4930	BLK (1) Gas Engine PP MC38.8R #(2) Amarillo Right Angle Gear Drive Replacment.	\$ 14,500.00
Aug-24	4930	BLK (1) Gas Engine PP MC36.3R #(1) Amarillo Right Angle Gear Drive Replacment.	\$ 14,500.00
Aug-24	3925	Blk -(2) PP G14.5R Right Angle Gear replacement unit # 3 & # 4 - estimated replace cost ea.	\$ 24,000.00
Aug-24	4930	BLK-(6) PP A0.8L # (3) CHECK VALVE REPLACEMENT - ESTIMATE REPLACEMENT COST	\$ 9,000.00
Aug-24	4930	BLK -(6) PP A0.8L # (4) Check Valve Replacement - Estimate replacement cost.	\$ 6,000.00
Aug-24	4930	BLK-(6) PP A0.8L # (5) Check Valve Replacement - Estimate replacement cost.	\$ 8,500.00
Aug-24	3920	BLK -(1) Gas Engine PP MC38.8R # (1) Caterpillar gas engine recondition.	\$ 24,000.00
Aug-24	4910	10 Gallon oil Container for individual pump control valve oil dripper. (16)	\$ 900.00
Aug-24	4910	High Pressure washer - 150 gallon water tank on trailer @ 4200 PSI, 4.0 GPM	\$ 6,000.00
Aug-24	4910	BLK (4) PP MC45.7LA # (2) Cone valve REXROTH (4) way valve replacement.	\$ 7,000.00
Aug-24	4910	Gas engine Cam Shaft bearing installer and removable tool. For Caterpillar engine repair.	\$ 2,000.00
Aug-24	4910	Thermometer Temperature gun	\$ 2,000.00
Total			\$ 305,100.00

## SCADA - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor (1) SCADA Technician	\$ 4,432.00
Jan	2960	Operations Burden & Benefits	\$ 882.85
Jan	3996	MC43.8 Plant - Replace Hydrotank Level indicator	\$ 7,000.00
Jan	4915	MC43.8 Plant - Piping materials for level indicator installation	\$ 1,000.00
Jan	3996	MC563CK, MC718CK, MC1065CK - Integrate downstream level	\$ 15,000.00
Jan	5950	Outside contractors for hardware installations.	\$ 10,000.00
Jan	3960	Safety Shoe Reimbursement (1) Employee	\$ 100.00
Jan			
Jan			
Jan	4915	Maintenance Tools and Materials	\$ 5,000.00
Jan		Month Expenses:	\$ 43,414.85
Feb	2950	Labor (1) SCADA Technician	\$ 4,432.00
Feb	2960	Operations Burden & Benefits	\$ 882.85
Feb	3996	MC43.8 Plant - Replace Hydrotank Level indicator	\$ 7,000.00
Feb	4915	MC43.8 Plant - Piping materials for level indicator installation	\$ 1,000.00
Feb	3996	MC1222CK, M1397CK, MC1554CK - Integrate downstream level	\$ 15,000.00
Feb	5950	Outside contractors for hardware installations	\$ 10,000.00
Feb	4915	Maintenance Tools and Materials	\$ 5,000.00
Feb		Month Expenses:	\$ 43,314.85
Mar	2950	Labor (1) SCADA Technician	\$ 4,432.00
Mar	2960	Operations Burden & Benefits	\$ 882.85
Mar	3996	MC45.7LA Plant - Replace Hydrotank Level indicator	\$ 7,000.00
Mar	4915	MC45.7LA Plant - Piping materials for level indicator installation	\$ 1,000.00
Mar	3996	MC1922CK, M2259CK, MC2437CK - Integrate downstream level	\$ 15,000.00
Mar	5950	Outside contractors for hardware installations	\$ 10,000.00
Mar			
Mar	4910	Maintenance Tools and Materials	\$ 5,000.00
Mar		Month Expenses:	\$ 43,314.85
Apr	2950	Labor (1) SCADA Technician	\$ 4,432.00
Apr	2960	Operations Burden & Benefits	\$ 882.85
Apr	3996	MC45.7LA Plant - Replace Hydrotank Level indicator	\$ 7,000.00
Apr	4915	MC45.7LA Plant - Piping materials for level indicator installation	\$ 1,000.00
Apr	3996	G36+00CK, G393CK, G517CK - Integrate downstream level	\$ 15,000.00
Apr	5950	Outside contractors for hardware installations	\$ 10,000.00
Apr			
Apr	4910	Maintenance Tools and Materials	\$ 5,000.00
Apr		Month Expenses:	\$ 43,314.85
May	2950	Labor (1) SCADA Technician	\$ 6,648.00
May	2960	Operations Burden & Benefits	\$ 1,324.29
May	3996	C2.7L Plant - Replace Hydrotank Level indicator	\$ 7,000.00
May	4915	C2.7L Plant - Piping materials for level indicator installation	\$ 1,000.00
May	3996	G624CK, A45+96CK, A245CK, A436CK- Integrate downstream level	\$ 15,000.00
May	5950	Outside contractors for hardware installations	\$ 10,000.00
May			
May	4910	Maintenance Tools and Materials	\$ 5,000.00
May		Month Expenses:	\$ 45,972.29

Month	PHASE	Description of Charges	COST
June	2950	Labor (1) SCADA Technician	\$ 4,432.00
June	2960	Operations Burden & Benefits	\$ 882.85
June	3996	C4.4B Plant - Replace Hydrotank Level indicator	\$ 7,000.00
June	4915	C4.4B Plant - Piping materials for level indicator installation	\$ 1,000.00
June	3976	Technical Support Annual Contract Renewal	\$ 25,000.00
June		- Rockwell Automation -	
June	5950	Outside contractors for hardware installations	\$ 10,000.00
June			
June			
June	4910	Maintenance Tools and Materials	\$ 5,000.00
June			\$ 53,314.85
July	2950	Labor (1) SCADA Technician	\$ 4,432.00
July	2960	Operations Burden & Benefits	\$ 882.85
July	3996	G13.3L - Pumping Plant PLC replacement	\$ 10,000.00
July	4915	G13.3L - Hardware interfacing materials	\$ 1,000.00
July	5950	Outside contractors for hardware installations	\$ 10,000.00
July	5950	Outside service for programming services	\$ 10,000.00
July			
July	4910	Maintenance Tools and Materials	\$ 5,000.00
July		Month Expenses:	\$ 41,314.85
Aug	2950	Labor (1) SCADA Technician	\$ 4,432.00
Aug	2960	Operations Burden & Benefits	\$ 882.85
Aug	3996	B2.1R - Pumping Plant PLC replacement	\$ 10,000.00
Aug	4915	B2.1R - Hardware interfacing materials	\$ 1,000.00
Aug	5950	Outside contractors for hardware installations	\$ 10,000.00
Aug	5950	Outside service for programming services	\$ 10,000.00
Aug			
Aug	4910	Maintenance Tools and Materials	\$ 5,000.00
Aug		Month Expenses:	\$ 41,314.85
Sep	2950	Labor (1) SCADA Technician	\$ 4,432.00
Sep	2960	Operations Burden & Benefits	\$ 882.85
Sep	3996	B2.1R - Pumping Plant PLC replacement	\$ 10,000.00
Sep	4915	B2.1R - Hardware interfacing materials	\$ 1,000.00
Sep	5950	Outside contractors for hardware installations	\$ 10,000.00
Sep	5950	Outside service for programming services	\$ 10,000.00
Sep			
Sep	4910	Maintenance Tools and Materials	\$ 5,000.00
Sep		Month Expenses:	\$ 41,314.85
Oct	2950	Labor (1) SCADA Technician	\$ 4,432.00
Oct	2960	Operations Burden & Benefits	\$ 882.85
Oct	3996	B3.1AH - Pumping Plant PLC replacement	\$ 10,000.00
Oct	4915	B3.1AH - Hardware interfacing materials	\$ 1,000.00
Oct	5950	Outside contractors for hardware installations	\$ 10,000.00
Oct	5950	Outside service for programming services	\$ 10,000.00
Oct			
Oct	4915	Maintenance Tools and Materials	\$ 5,000.00
Oct		Month Expenses:	\$ 41,314.85

Month	PHASE	Description of Charges	COST
Nov	2950	Labor (1) SCADA Technician	\$ 6,648.00
Nov	2960	Operations Burden & Benefits	\$ 1,324.29
Nov	3996	B3.1C - Pumping Plant PLC replacement	\$ 10,000.00
Nov	4915	B3.1C - Hardware interfacing materials	\$ 1,000.00
Nov	5950	Outside contractors for hardware installations	\$ 10,000.00
Nov	5950	Outside service for programming services	\$ 10,000.00
Nov			
Nov	4915	Maintenance Tools and Materials	\$ 5,000.00
Nov		Month Expenses:	\$ 43,972.29
Dec	2950	Labor (1) SCADA Technician	\$ 4,432.00
Dec	2960	Operations Burden & Benefits	\$ 882.85
Dec	3996	B1.0L - Pumping Plant PLC replacement	\$ 10,000.00
Dec	4915	B1.0L - Hardware interfacing materials	\$ 1,000.00
Dec	3996	B2.9L - Pumping Plant PLC replacement	\$ 10,000.00
Dec	4915	B2.9L - Hardware interfacing materials	\$ 1,000.00
Dec	5950	Outside contractors for hardware installations	\$ 10,000.00
Dec	4915	Maintenance Tools and Materials	\$ 5,000.00
Dec		Month Expenses:	\$ 42,314.85

**\$ 524,193.08**

### Deferred Maintenance & Activities

Month	PHASE	Description of Charges	COST
	3978	Navajo Headworks - Replace the MCC for gate controls.	\$ 20,000.00
	3978	Cutter Dam - Replace the Motor/Reduction gears	\$ 50,000.00
	3978	Main Canal - Integrate the Downstream Canal water level into	\$ 25,000.00
		the 800 Control Center Display, for viewing analysis.	
	3978	Twenty pumping plants need to have the Pressure Transducers	\$ 100,000.00
		replaced, these are now obsolete.	
		Total	\$ 195,000.00

## Warehouse - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor (1) Supervisor	\$ 4,369.60
Jan	2960	Labor Benefits & Burden	\$ 870.43
Jan	5975	GSA (1) Unit	\$ 204.04
Jan	8940	Cell Phone Bill (1)	\$ 77.00
Jan	8935	Waste Management (3)	\$ 1,600.00
Jan	3960	85151 Safety Supplies: Safety Vest, glove, respirator, face shield, earplugs	\$ 800.00
Jan	4915	85134 Facilities: Keys, Handle, Broom, floor absorbent, cascade water	\$ 500.00
Jan	4934	85134 Safety Kleen Waste: Oil	\$ 500.00
Jan	5950	85134 Safety Kleen Parts Washer	\$ 200.00
Jan	4933	85134 Welding Rentals	\$ 200.00
Jan	4932	302/814 Facilities Propane Tanks 1&2 Refills	\$ 3,203.59
Jan	5945	302 Septic Tank	\$ 350.00
Jan	5945	302 Facility Maintenance	\$ 2,500.00
Jan	3960	Safety Shoe Reimbursement (1) Employee	\$ 100.00
Jan			
Jan		Month Expenses:	\$ 15,474.66
Feb	2950	Labor (1) Supervisor	\$ 4,369.60
Feb	2960	Labor Benefits & Burden	\$ 870.43
Feb	5975	GSA (1) Unit	\$ 204.04
Feb	8940	Cell Phone Bill (1)	\$ 77.00
Feb	8935	Waste Management (3)	\$ 1,600.00
Feb	3960	85151 Safety Supplies: Safety Vest, glove, respirator, face shield	\$ 800.00
Feb	4915	85122 Distribution: Batteries, Tape,	\$ 600.00
Feb	4915	85134 Facilities: Disinfectant, urinal block, mouse trap	\$ 600.00
Feb	4933	85134 Welding Rentals	\$ 200.00
Feb	5950	85134 Safety Kleen Parts Washer	\$ 200.00
Feb	4932	302/814 Facilities Propane Tanks 1&2 Refills	\$ 3,807.42
Feb			
Feb			
Feb		Month Expenses:	\$ 13,328.49
Mar	2950	Labor (1) Supervisor	\$ 4,369.60
Mar	2960	Labor Benefits & Burden	\$ 870.43
Mar	5975	GSA (1) Unit	\$ 204.04
Mar	8940	Cell Phone Bill (1)	\$ 77.00
Mar	8935	Waste Management (3)	\$ 1,600.00
Mar	4915	85134 Facilities: Disinfectant, urinal block, mouse trap	\$ 400.00
Mar	4933	85134 Welding Rentals	\$ 200.00
Mar	3960	85151 Safety Supplies: Hardhat	\$ 600.00
Mar	5950	85134 Safety Kleen Parts Washer	\$ 500.00
Mar	4932	302/814 Facilities Propane Tanks 1&2 Refills	\$ 3,912.90
Mar	4910	302/560 Copy Paper	\$ 400.00
Mar			
Mar			
Mar		Month Expenses:	\$ 13,133.97

Month	PHASE	Description of Charges	COST
Apr	2950	Labor (1) Supervisor	\$ 4,369.60
Apr	2960	Labor Benefits & Burden	\$ 870.43
Apr	5975	GSA (1) Unit	\$ 204.04
Apr	8940	Cell Phone Bill (1)	\$ 77.00
Apr	8935	Waste Management (3)	\$ 1,600.00
Apr	4933	85134 Welding Rentals	\$ 200.00
Apr	4910	85122 Distribution:Amorall, Wasp spray, padlock,trashbag,	\$ 800.00
Apr	3960	85151 Safety Supplies: Shoe	\$ 500.00
Apr	5950	85134 Safety Kleen Parts Washer	\$ 500.00
Apr	5945	302 Facility Maintenance	\$ 2,500.00
Apr			
Apr			
Apr		Month Expenses:	\$ 11,621.07
May	2950	Labor (1) Supervisor	\$ 6,554.40
May	2960	Labor Benefits & Burden	\$ 1,305.64
May	5975	GSA (1) Unit	\$ 204.04
May	8940	Cell Phone Bill (1)	\$ 77.00
May	8935	Waste Management (3)	\$ 1,600.00
May	4930	85134 Welding Rentals	\$ 200.00
May	5950	85134 Safety Kleen Parts Washer	\$ 500.00
May	3960	85151 Safety Supplies Shoe Cover, glove,	\$ 500.00
May	4910	85134 Facilities:Mouse Bait	\$ 400.00
May	4934	85134 Safety Kleen Waste:oil,anitfreeze,floor absorbent,bulbs,rags	\$ 6,000.00
May	4910	302/452 Faciliy Parts: lamps, coolers, ballast	\$ 3,000.00
May			
May			
May		Month Expenses:	\$ 20,341.08
Jun	2950	Labor (1) Supervisor	\$ 4,369.60
Jun	2960	Labor Benefits & Burden	\$ 870.43
Jun	5975	GSA (1) Unit	\$ 204.04
Jun	8940	Cell Phone Bill (1)	\$ 77.00
Jun	8935	Waste Management (3)	\$ 1,600.00
Jun	4932	85134 Propane Refills Equipment	\$ 100.00
Jun	4933	85134 Welding Rentals	\$ 200.00
Jun	5950	85134 Safety Kleen Parts Washer	\$ 200.00
Jun	4934	85134 Safety Kleen Waste: Oil	\$ 300.00
Jun	5945	302 Ice Machine Reinstatement	\$ 395.00
Jun	5945	302 Hvac Cooler, Ac Services	\$ 4,650.12
Jun			
Jun			
Jun		Month Expenses:	\$ 12,966.19

Month	PHASE	Description of Charges	COST
Jul	2950	Labor (1) Supervisor	\$ 4,369.60
Jul	2960	Labor Benefits & Burden	\$ 870.43
Jul	5975	GSA (1) Unit	\$ 204.04
Jul	8940	Cell Phone Bill (1)	\$ 77.00
Jul	8935	Waste Management (3)	\$ 1,600.00
Jul	4910	85134 Facilities:Ballast,mouse trap	\$ 600.00
Jul	4933	85134 Welding Rentals	\$ 300.00
Jul	5950	85134 Safety Kleen Parts Washer	\$ 484.45
Jul	3960	85151 Safety Supplies: Vest, Gloves, respirator	\$ 800.00
Jul	4934	85134 Safety Kleen Waste: lamps	\$ 413.00
Jul	5945	302 Septic Tank	\$ 350.00
Jul			
Jul			
Jul		Month Expenses:	\$ 10,068.52
Aug	2950	Labor (1) Supervisor	\$ 4,369.60
Aug	2960	Labor Benefits & Burden	\$ 870.43
Aug	5975	GSA (1) Unit	\$ 204.04
Aug	8940	Cell Phone Bill (1)	\$ 77.00
Aug	8935	Waste Management (3)	\$ 1,600.00
Aug	5950	85134 Safety Kleen Parts Washer	\$ 200.00
Aug	3960	85151 Safety Supplies: respirator	\$ 300.00
Aug	4934	85134 Safety Kleen Waste:Battery,lamps,oil	\$ 519.73
Aug	4910	85134 Facilities: Cascade Water, duster	\$ 250.00
Aug	4933	85134 Welding Rentals	\$ 200.00
Aug	4910	85122 Distribution: Measuring tape, amor all	\$ 150.00
Aug	4910	302/452 Faciliy Parts: lamps, coolers, ballast	\$ 416.29
Aug	4910	302/560 Copy Paper	\$ 200.00
Aug	4910	302/560 Restroom Supplies	\$ 600.00
Aug			
Aug			
Aug		Month Expenses:	\$ 9,957.09
Sep	2950	Labor (1) Supervisor	\$ 4,369.60
Sep	2960	Labor Benefits & Burden	\$ 870.43
Sep	5975	GSA (1) Unit	\$ 204.04
Sep	8940	Cell Phone Bill (1)	\$ 77.00
Sep	8935	Waste Management (3)	\$ 1,600.00
Sep	4910	85122 Distribution: oils, armor all, tissue	\$ 500.00
Sep	4932	85134 Propane Refills Equipment	\$ 100.00
Sep	4933	85134 Welding Rentals	\$ 200.00
Sep	5950	85134 Safety Kleen Parts Washer	\$ 200.00
Sep	4934	85134 Safety Kleen Waste: Oil	\$ 300.00
Sep			
Sep			
Sep		Month Expenses:	\$ 8,421.07

Month	PHASE	Description of Charges	COST
Oct	2950	Labor (1) Supervisor	\$ 4,369.60
Oct	2960	Labor Benefits & Burden	\$ 870.43
Oct	5975	GSA (1) Unit	\$ 204.04
Oct	8940	Cell Phone Bill (1)	\$ 77.00
Oct	8935	Waste Management (3)	\$ 1,600.00
Oct	3960	85151 Safety Supplies: Glove,Vest	\$ 1,000.00
Oct	4933	85134 Welding Rentals	\$ 200.00
Oct	5950	85134 Safety Kleen Parts Washer	\$ 300.00
Oct	4932	302/814 Facilities Propane Tanks 1&2 Refills	\$ 1,369.11
Oct	5945	302 Facilites Maintenance:Winterization Ice Machine, Coolers	\$ 250.00
Oct	4910	302/560 Restroom Supplies	\$ 1,200.00
Oct			
Oct			
Oct		Month Expenses:	\$ 11,440.18
Nov	2950	Labor (1) Supervisor	\$ 6,554.40
Nov	2960	Labor Benefits & Burden	\$ 1,305.64
Nov	5975	GSA (1) Unit	\$ 204.04
Nov	8940	Cell Phone Bill (1)	\$ 77.00
Nov	8935	Waste Management (3)	\$ 1,600.00
Nov	3960	85151 Safety Supplies: Safety Vest, glove, respirator,face shield	\$ 800.00
Nov	4910	85122 Distribution: rope	\$ 300.00
Nov	4933	85134 Welding Rentals	\$ 200.00
Nov	5950	85134 Safety Kleen Parts Washer	\$ 490.73
Nov	4910	85134 Facilities: Cascade water	\$ 200.00
Nov			
Nov			
Nov		Month Expenses:	\$ 11,731.81
Dec	2950	Labor (1) Supervisor	\$ 4,369.60
Dec	2960	Labor Benefits & Burden	\$ 870.43
Dec	5975	GSA (1) Unit	\$ 204.04
Dec	8940	Cell Phone Bill (1)	\$ 77.00
Dec	8935	Waste Management (3)	\$ 1,600.00
Dec	3960	85151 Safety Supplies: Glove,Vest	\$ 600.00
Dec	4915	85122 Distribution: Tie down straps	\$ 1,200.00
Dec	5950	85134 Safety Kleen Parts Washer	\$ 489.74
Dec	4933	85134 Welding Rentals	\$ 200.00
Dec	4932	302/814 Facilities Propane Tanks 1&2 Refills	\$ 4,000.00
Dec	5945	Facilities Maintenance	\$ 2,500.00
Dec			
Dec			
Dec		Month Expenses:	\$ 16,110.81

**\$ 154,594.94**

Month	PHASE	Description of Charges	COST
<b>Deferred Maintenance &amp; Activities</b>			
Month	PHASE	Description of Charges	COST
DEC	3960	First Aid Kit Refills: Portable, 2 boxes located at 371 Duty Station, purchases	\$ 600.00
DEC	3960	Fire Safety: Fire extinguisher refills, recharge, disposals, repairs, bottle purchases	\$ 1,602.03
NOV	5950	TRAILER REMOVAL	\$ 12,000.00
MAR	5950	Dock Station Modification	\$ 25,000.00
MAR	5950	Pavement Insertion: GSA parking, POV parking, entryways, concrete walkway	\$ 12,560.00
JAN	5950	Warehouse Light upgrade LED, Circuit A overload, air compressor circuit	\$ 9,000.00
DEC	5950	Bathrooms (Contactless: Sink, Toilet, Paper Towel)	\$ 20,900.00
DEC	5950	Building Floors (1500 sqft Commercial High traffic Carpeting)	\$ 10,725.00
APR	5950	Canopy for containment area	\$ 36,000.00
MAR	5950	Office painting, Restroom painting and conference painting of walls	\$4,000.00
MAR	5950	O&M WAREHOUSE YARD AND PARKING LOT WEED CONTROL SPRAY	\$ 1,500.00
Total			<b>\$ 133,887.03</b>

## Gallegos Pumping Plant / Burnham Plants / Pinabete - Projected CY 2026

Month	PHASE	Description of Charges	COST
Jan	2950	Labor (1) Supervisor, (2) Electricians, (2) Mechanics, (1) CST	\$ 24,027.07
Jan	2960	Labor Benefits & Burden	\$ 4,786.17
Jan	5975	GSA (5) Units & PM services	\$ 2,570.91
Jan	8940	Cell Phone Bill (1)	\$ 65.00
Jan	5950	Maintenance Outside Serv. Sub-Cont, Consl ( Crane Inspection)	\$ 1,500.00
Jan	4915	Maintenance Tools, Materials, & Supplies (Oil and Maintenance Materials)	\$ 7,000.00
Jan	5810	Equipment Rental for canal cleaning (2 Skid Steers 4 weeks)	\$ 3,000.00
Jan	3960	Safety Equipment testing and PPE (Test electrical equipment)	\$ 3,000.00
Jan	4920	Burnham, Cleaning Transformers (9)	\$ 2,000.00
Jan	3960	Safety Shoe Reimbursement (6) Employees	\$ 600.00
Jan	4915	Buss Work Inspection and Cleaning (Annual) - Pinabete	\$ 3,500.00
Jan	4915	Maintenance 230kv MOI (1) (Every 3 YR & Major Every 6 YR) - Pinabete	\$ -
Jan	4915	Maintenance 13.8Kv Circuit Breakers PCB (3) (Every 3 YR & Major Every 6 YR) Tested in 2020 next test cylce in 2023, \$7,776.00 - Pinabete	\$ -
Jan	4917	Office Supplies - Pinabete	\$ 300.00
Jan		Month Expenses:	\$ 52,349.15
Feb	2950	Labor (1) Supervisor, (2) Electricians, (2) Mechanics, (1) CST	\$ 24,027.20
Feb	2960	Labor Benefits & Burden	\$ 4,786.19
Feb	5975	GSA (5) Units & PM services	\$ 2,570.91
Feb	8940	Cell Phone Bill (1)	\$ 65.00
Feb	4915	Maintenance Tools, Materials, & Supplies ( 7 air compressors)	\$ 7,700.00
Feb	5810	Equipment Rental for canal cleaning (2 Skid Steers, 2 weeks)	\$ 1,500.00
Feb	4915	Maintain Transformer(1) 230.13.8kv (Every 3 YR & Major Every 6 YR) tested in 2019, next test cycle in 2022, \$7,400.00 - Pinabete	\$ 2,080.00
Feb	4915	Perform Oil Testing on Transformer(1) (Annual) - Pinabete	
Feb		Month Expenses:	\$ 42,729.30
Mar	2950	Labor (1) Supervisor, (2) Electricians, (2) Mechanics, (1) CST	\$ 24,027.20
Mar	2960	Labor Benefits & Burden	\$ 4,786.19
Mar	5975	GSA (5) Units & PM services	\$ 2,570.91
Mar	8940	Cell Phone Bill (1)	\$ 65.00
Mar	4910	Operations Tools, Materials, & Supplies (Trash Rack at GPP and B3.1)	\$ 4,500.00
Mar	4910	Chemical Weed Abatement - (Gallegos)	\$ 3,000.00
Mar	4910	Maintance on Traveling Water Screens on Burnham (5)	\$ 8,000.00
Mar	4910	Weed Spraying (Annual) - Pinabete	\$ 1,000.00
Mar			
Mar		Month Expenses:	\$ 47,949.30
Apr	2950	Labor (1) Supervisor, (2) Electricians, (2) Mechanics, (1) CST	\$ 28,507.60
Apr	2960	Labor Benefits & Burden	\$ 5,678.72
Apr	5975	GSA (5) Units & PM services	\$ 2,570.91
Apr	8940	Cell Phone Bill (1)	\$ 65.00
Apr	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
Apr			
Apr		Month Expenses:	\$ 42,322.23

Month	PHASE	Description of Charges	COST
May	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 42,761.40
May	2960	Labor Benefits & Burden	\$ 8,518.10
May	5975	GSA (5) Units & PM services	\$ 2,570.91
May	8940	Cell Phone Bill (1)	\$ 65.00
May	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
May			
May			
May			
May		Month Expenses:	\$ 59,415.41
Jun	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 28,507.60
Jun	2960	Labor Benefits & Burden	\$ 5,678.72
Jun	5975	GSA (5) Units & PM services	\$ 2,570.91
Jun	8940	Cell Phone Bill (1)	\$ 65.00
Jun	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
Jun			
Jun			
Jun			
Jun		Month Expenses:	\$ 42,322.23
Jul	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 28,507.60
Jul	2960	Labor Benefits & Burden	\$ 5,678.72
Jul	5975	GSA (5) Units & PM services	\$ 2,570.91
Jul	8940	Cell Phone Bill (1)	\$ 65.00
Jul	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
Jul			
Jul			
Jul			
Jul		Month Expenses:	\$ 42,322.23
Aug	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 28,507.60
Aug	2960	Labor Benefits & Burden	\$ 5,678.72
Aug	5975	GSA (5) Units & PM services	\$ 2,570.91
Aug	8940	Cell Phone Bill (1)	\$ 65.00
Aug	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
Aug			
Aug			
Aug			
Aug		Month Expenses:	\$ 42,322.23
Sep	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 28,507.60
Sep	2960	Labor Benefits & Burden	\$ 5,678.72
Sep	5975	GSA (5) Units & PM services	\$ 2,570.91
Sep	8940	Cell Phone Bill (1)	\$ 65.00
Sep	4910	Operations Tools, Materials, & Supplies	\$ 5,500.00
Sep			
Sep			
Sep			
Sep		Month Expenses:	\$ 42,322.23

Month	PHASE	Description of Charges	COST
Oct	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 28,507.60
Oct	2960	Labor Benefits & Burden	\$ 5,678.72
Oct	5975	GSA (5) Units & PM services	\$ 2,570.91
Oct	8940	Cell Phone Bill (1)	\$ 65.00
Oct	4910	Operations Tools, Materials, & Supplies	\$ 5,000.00
Oct			
Oct			
Oct			
Oct		Month Expenses:	\$ 41,822.23
Nov	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 36,040.80
Nov	2960	Labor Benefits & Burden	\$ 7,179.36
Nov	5975	GSA (5) Units & PM services	\$ 2,570.91
Nov	8940	Cell Phone Bill (1)	\$ 65.00
Nov	5950	Maintenance Outside Serv. Sub-Cont, Consl	\$ 500.00
Nov	4915	Maintenance Tools, Materials, & Supplies	\$ 5,000.00
Nov	5950	Vacuum Truck to Clean Forebay/ and Block 8 & 9 Pumping Plant Sumps	\$ 8,000.00
Nov	4915	Maintenance Tools, Materials, & Supplies Buss Work	\$ 6,000.00
Nov	4915	Canal Dewatering	\$ 2,000.00
Nov			
Nov			
Nov			
Nov		Month Expenses:	\$ 67,356.07
Dec	2950	Labor (1) Supervisor, (2) Electricans, (2) Mechanics, (1) CST	\$ 24,027.20
Dec	2960	Labor Benefits & Burden	\$ 4,786.19
Dec	5975	GSA (5) Units & PM services	\$ 2,570.91
Dec	8940	Cell Phone Bill (1)	\$ 65.00
Dec	4915	Maintenance Tools, Materials, & Supplies	\$ 5,500.00
Dec	4915	Gallegos Sandtrap sediment removal, Canal Repairs, Weed Management in D	\$ 3,000.00
Dec			
Dec			
Dec		Month Expenses:	\$ 39,949.30

**\$ 563,181.91**

### Deferred Maintenance & Activities

Month	PHASE	Description of Charges	COST
	4910	Gallegos, Upgrading MCC on Units 1,2,3	\$ 40,000.00
	4915	Gallegos, Testing on Large Brakers (5)	\$ 10,000.00
	4915	Gallegos, Testing Transformers and Relays, KZ1a, KZ2A, KZ3A	\$ 20,000.00
	4915	Gallegos, Testing Motor contacts (8)	\$ 15,000.00
	4915	Elevator Repair	\$ 15,000.00
	4915	GPP unit 1 rebuild DFM	\$ 20,000.00
	4915	GPP Unit 4, Replace Basler Voltage Regulator	\$ 24,000.00
	4915	GPPUnit 4, Power Supply for enusator panel	\$ 15,000.00
	4915	GPP Spair DFM	\$ 20,000.00
	4915	GPP HVAC System Rehab	
		Total	\$ 179,000.00

## **EXHIBIT C**

### **Electrical Service & Maintenance Contract Scope of Work NIIP Electrical Service and Maintenance Agreement**

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The Contractor agrees to provide copies of the approved Electric Service and Maintenance Agreement after NAPI and Contractor approval of Contract Agreement.



**NAVAJO  
PRIDE**

SCOPE OF WORK FOR

NIIP Electrical Service and Maintenance Agreement

Navajo Indian Irrigation Project

Farmington, NM

YEAR 2026

SERVICE AND MAINTENANCE WITH  
THE NAVAJO AGRICULTURAL PRODUCTS INDUSTRY

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**SERVICE AND MAINTENANCE WITH  
THE NAVAJO AGRICULTURAL PRODUCTS INDUSTRY**

**1. SCOPE OF WORK**

**1.1 Introduction**

The Scope of Work for an Electrical Service and Maintenance Agreement on the Navajo Indian Irrigation Project (NIIP) as authorized by the United States Congress on June 13, 1962 (76 Stat. 96) sets out the magnitude of the maintenance and replacement (M & R) functions, in terms of the infrastructure that has been installed that must, therefore, be operated and maintained.

The narrative description of the NIIP portrays the magnitude of the facilities that have been constructed and that require proper maintenance to not only safeguard the federal investment but also to ensure the longevity of the facilities to ensure safe and reliable delivery of irrigation water to the farm and any other ventures that may be located and built on the NIIP.

The SCOPE OF WORK that follows the project description provides a general description of the activities involved in General Service and Maintenance. These, in turn, provide the budget framework and the basis for the work schedules. All subcontractors will perform projects at a fixed fee rate.

Since October 1, 1985, NAPI has operated and maintained the NIIP facilities under Public Law 87-483 and Public Law 93-638. On August 21, 2001, NAPI entered into Contract No. No. 98-SCL-0395 with Western Area Power Administration (WAPA) to provide the NIIP long-term electrical service. On April 1, 2010, this contract was renewed and Contract No. 10-SLC-0649 was executed with a will termination date of March 31, 2020.

WAPA informed NAPI in January 2020 that they will no longer continue their maintenance support for NIIP. As a pre-contingent, NAPI staff has developed a scope of work with the same services and maintenance requirements provided by WAPA. We have sent the SOW to three (3) companies with the intent to get a general cost estimate on similar services. The three companies are Sayers Construction LLC, City of Farmington, and Eaton Corporation. Listed below are cost estimates for a one-year service from each company.

1. Western Area Power Administration	\$ 58,250.00
2. Sayer Construction, LLC	\$ 398,760.00
3. City of Farmington Electric Company	(Not able to provide services.)
4. Eaton Corporation	\$ 254,520.00

**1.2 Scope of Work**

The intent of this scope of work is to services, test, and maintenance of the electrical system that supports the NIIP Project. This would include testing transformers, breakers, inspecting electrical high-lines and substations. All testing and inspections will be based on NRC and Doble Guidelines.

The Navajo Indian Irrigation Project (NIIP) and site locations can be seen in Exhibit B. Exhibit C shows all the high-lines that will be associated with this scope of work.

### 1.3 Testing

Testing is performed to qualify the device to operate safely during rated electrical conditions. It is also a way to check the efficiency and life of the equipment. The testing and inspection schedule can be seen in Exhibit A:

- a. Metal Clad Breakers: Power Factor, Time Travel, Micro Ohm, Alarms, Gauge Calibration
- b. Vacuum Breakers: Power Factor, Time Travel, Micro Ohm, Alarms, Gauge Calibration High Pot
- c. Transformers: Power Factor, Excitation, Alarms, Calibrate Gauges, Pumps, and Fans, Oil Test
- d. Battery Banks: Impedance, Specific Gravity
- e. Oil Testing: Dissolved Gas Analysis, Furanic Compounds, Water in Oil Analysis, Degree of Polymerization, Oil Quality Screens, Metal-in-Oil
- f. Relay: Alarms Calibration, Function Test.
- g. Meter Inspections:
- h. General House Keeping: Weed Spraying, Rodent Control

### 1.4 Consultant Qualification

The Consultant shall meet or exceed applicable Standards, Codes, and Rule (NRC, IEEE, UL, NEC, FEUS, etc.) and Rules and Regulations Covering Electrical Service for City of Farmington, New Mexico

## 2. EXPLANATORY RECITALS

2.1 The Act of June 13, 1962, Public Law 87-483, authorized and directed the Secretary of Interior to construct, operate, and maintain the Navajo Indian Irrigation Project (NIIP), an element of the Upper Colorado River Storage Project; the purpose of which is to provide irrigation water for lands held in trust by the Secretary of the Interior for the benefit of the Navajo Nation.

2.2 The Secretary of the Interior, acting through the Bureau of Indian Affairs (BIA) and Bureau of Reclamation, is responsible for the funding, design, construction, operation, maintenance, and replacement of NIIP facilities.

2.3 Since October 1, 1985, NAPI has operated and maintained the NIIP facilities on behalf of the Secretary of the Interior pursuant to the authority of Public Law 87- 483, and Public Law 93-638, the Indian Self-Determination and Educational Assistance Act, as amended.

2.4 The contractor desire to provide long-term maintenance services for the electrical facilities associated with NIIP and each party is willing to provide O&M services for such facilities under the terms and conditions provided herein.

### 3. OPERATIONS and MAINTENANCE

3.1 Facilities to be Operated and Maintained: The facilities to be maintained include all substation equipment and control facilities located in Kutz, Gallegos, and Pinabete Substation.

Substations, and other substation or transmission facilities that may be added in the future and agreed upon by the Parties in writing. A description of maintenance and frequency of service to be provided by the Parties is provided in the Exhibits to this Scope. All O&M performed by the Contractor will be at the expense of NAPI.

3.2 Maintenance Plan: Facilities which the contractor will maintain for NAPI are similar to the facilities of the Colorado River Storage Project. The contractor will perform periodic maintenance and inspection on the NIIP facilities as listed in the Exhibits.

3.3 Operations Plan: NAPI facilities will be operated under the authority of the Western's Division of Power Operations. All operation of substation controls, switches, disconnects, breakers, and any other power system or auxiliary equipment will be accomplished under the direction of Western's Power System Dispatcher. Planned maintenance will be coordinated between the Parties and scheduled with Western's Division of Power Operations as soon as possible and at least thirty (30) days prior to the time the work is to begin for equipment rated under 100 kV. Switching to remove equipment from service for maintenance will be coordinated among the Parties. Also, if emergency switching has to be performed; the Party to perform the switching will obtain clearance from Western's system dispatcher prior to the time work is to begin.

3.4 Environmental Health and Safety, and Security Compliance: The Parties agree to comply with the environmental, health, safety, and security requirements set forth in the Exhibits and Articles 28 through 30 of the WAPA General Power Contract Provisions dated September 1, 2007, attached hereto and made a part hereof. Federal and Navajo regulations will govern all activities within the perimeter of the Kutz and Gallegos Substations and other facilities set forth in Exhibits to this Contract. All costs associated with bringing NAPI facilities up to Federal and Navajo environmental, health, safety, and security regulations shall be at NAPI's expense.

If NAPI does not comply with this subsection in a timely manner, and the deficiencies in environmental, safety, health, and security pose a danger to Contractors employees, The Contractor may elect to correct any deficiencies in environmental, safety, health, or security at NAPI's sole expense, not to exceed one thousand dollars (\$1,000) per occurrence. Further, the contractor may as its sole discretion, elect not to perform service described under the terms of this Contract; Provided, that if Contractor elects not to perform services, NAPI shall be relieved of its O&M charges during this period.

3.5 Replacement and Additions: The Contractor will perform services and make replacements and additions while performing routine O&M activities listed in the Exhibit A. Services, replacements, and additions made during routine maintenance will be included as part of the maintenance costs and will be billed in accordance with Articles 4 and 5. Extraordinary maintenance, major replacements, and major additions are those which cost more than ten thousand dollars (\$10,000) each and will be accomplished through a written notification and after consultation with and approval by NAPI.

4. PROGRAM AND BUDGET

On or before March 31 of each year, the Contractor will prepare and submit to NAPI for review and approval, an estimated budget for O&M to be provided to NAPI for the following two fiscal years. The estimates shall cover services to be performed from October 1 of that year to September 30, two (2) years later. The budget will cover all estimated costs, including routine O&M and inspection service, replacements, additions, and administrative and general expenses. During each operating year (October 1 to September 30). The Contractor will keep NAPI advised of any unanticipated costs, such as emergency maintenance or replacements, so that necessary funding can be provided by NAPI as soon as practicable.

5. PAYMENT OR SERVICES, OPERATIONS AND MAINTANANCE

NAPI shall pay the Contractor an annual estimated of services, including administrative and general expenses. At the end of each fiscal year, an adjustment will be made to the final billing to reflect any difference between the estimated and actual costs expended. Extraordinary or emergency maintenance shall be billed separately within thirty (30) days following completion of the work. The Contractor will provide NAPI a quarterly accounting of year-to-date expenditures.

6. OPERATION AND MAINTENANCE REVIEW

Every two (2) years, the Contractor and NAPI will make a joint inspection, at NAPI's expense, of all facilities covered by this Contract to ascertain that O&M is being performed to conform to the safety, health, security, environmental, maintenance, and operations requirements of this Contract and associated Exhibits. Following this review, and at the request and expense of NAPI, the Contractor will provide a line crew, for up to two (2) weeks, to correct deficiencies that were identified on the transmission lines.

7. CONTINGENT UPON APPROPRIATIONS

Where activities provided for in the Contract extend beyond the current fiscal year, continued expenditures by the Parties are contingent upon Congress making the necessary appropriation required for the continued performance of the Parties' obligations under the Contract. In case such an appropriation is not made, the Parties hereby release the Party or Parties not receiving such appropriation from its contractual obligations and from all liability due to the failure of Congress to make such appropriation.

8. NAVAJO NATION PREFERENCE LAWS

8.1 Preference shall be given to members of the Navajo Nation in employment and in the acquisition of goods and services required by this Contract in accordance with the laws of the Navajo Nation.

8.2 NAPI is an entity of the Navajo Nation and is immune from suit. Any waiver of NAPI's immunity must be made explicitly by the contract recommended by NAPI Board of Directors and approved by the Navajo Nation Council.

8.3 NAPI shall purchase liability insurance to cover up to five hundred thousand dollars (\$500,000) in damages per occurrence for injuries to property or persons that occur as a result of work performed under this Contract. The insurance policy shall contain a provision that the insurance carrier shall waive any right it may have to raise as a defense the Tribe's sovereign immunity from suit, but that such waiver shall extend only to claims the amount and name of which are within the coverage and limits of the policy and shall not authorize or empower such insurance carrier to waive or otherwise limit NAPI's sovereign immunity outside or beyond the coverage and limits of the policy of insurance.

**EXHIBIT A  
SCHEDULED MAINTENANCE SERVICES**

<u>Facility</u>	<u>Description of Service and/or Maintenance Provided</u>	<u>Frequency of Service</u>	<u>Unit Cost</u>
<b>Kutz Substation &amp; Kutz Pumping Plant Switchyard</b>	Test all 115-kV microprocessor relays that would affect PNM and Western's systems except pumping plants	Every 12 years	
	Test all 115-kV electromechanical and Solid-state relays that would affect PNM and Western's systems except pumping plants	Annually	
	Test other relays as requested by NAPI for pumping plants served from Kutz Substation	Annually	
	Maintain 34.5kv circuit breaker PCB 144 and 115kv motor operated interrupter MOI 363 at Kutz Substation	Annually and major every 5 years	
	Maintain battery bank	Every 6 months	
	Maintain transformer KX1A (34.5/4.16kv, 6.25 MVA) at Kutz Pumping Plant. Note: KX1B (station Service) has no maintenance	Annually and major every 6 years	
	Maintain transformer KY1A (115/34.5kv, 19 MVA, made of 4 single phases) at Kutz Substation. Note: KX1A (station Service) has no maintenance	Annually and major every 6 years	
	Test and maintain revenue meter at Kutz Substation	Every 3 years	
	Perform oil tests on transformers KX1A at Kutz Pumping Plant & KY1A at Kutz Substation	Annually	
	Perform safety, health, security, environmental, maintenance, and operations inspection	Every 2 years, with NAPI and as requested	
	Perform routine electrical equipment inspections	Monthly	
	Provide copies of monthly inspection and test reports	Monthly	
	Provide annual equipment test reports	Annually	
	Weed spraying	Annually	
Spray for rodents and insects in control room	Quarterly		
<b>Gallegos Substation &amp; Pinabete Substation</b>	Test all 115-kV microprocessor relays that would affect PNM and Western's systems except pumping plants	Every 12 years	
	Test all 115-kV electromechanical & solid-state relays that would affect PNM and Western's systems except pumping plants	Annually	

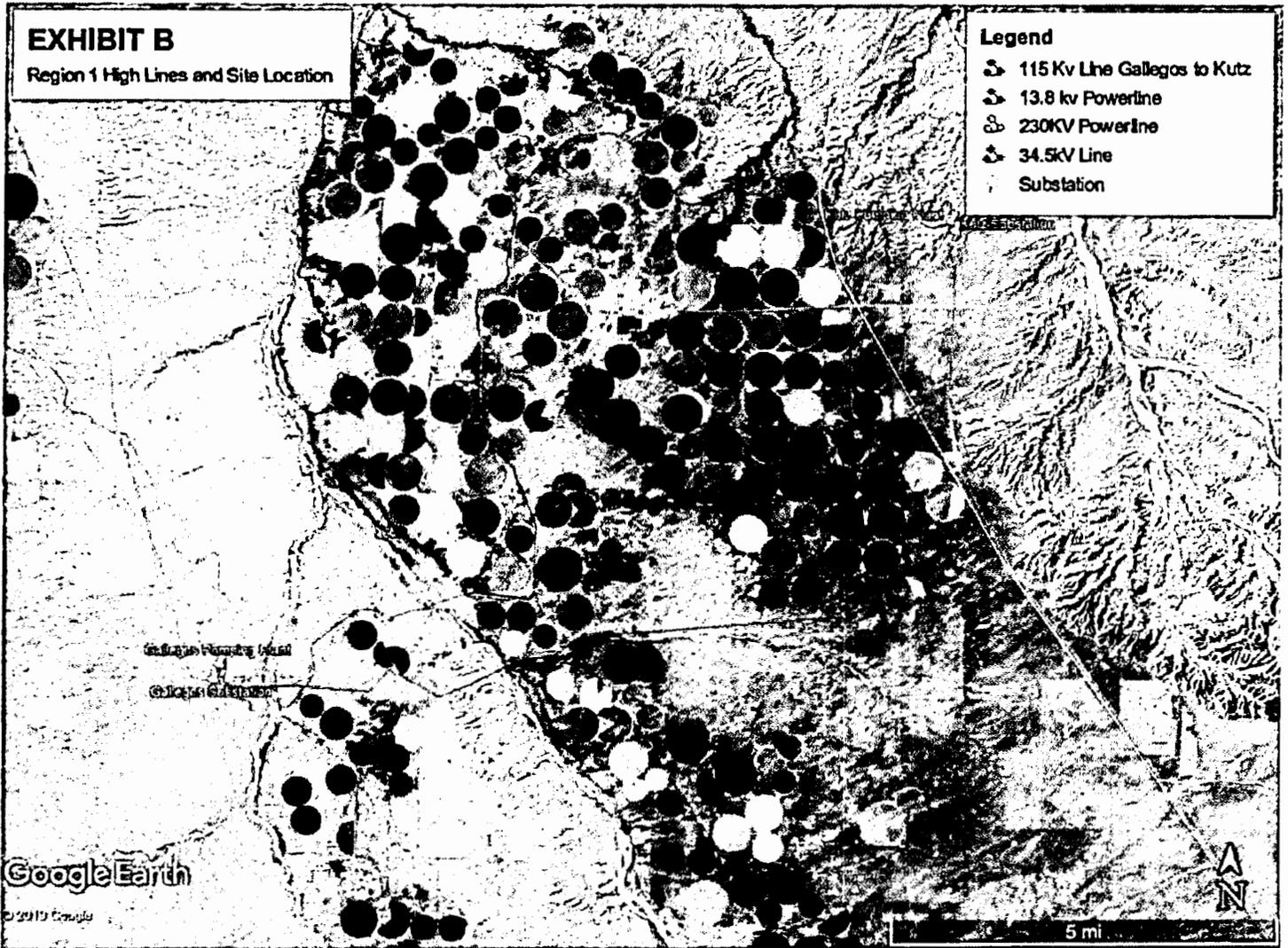
	Test other relays as requested by NAPI for pumping plants served from Gallegos Substation	Annually	
	Witness PNM meter test	Every 3 years	
	Maintain battery bank	Every 6 months	
	Perform safety, health, security, environmental, maintenance, and operations inspection	Every 2 years and as requested; major every 5 years	
	Maintain transformers KY1A (115/34.5, 50 MVA) & KY1B (115/34.5, 50 MVA). Note: KX1A (station service) has no maintenance	Annually and major every 6 years	
	Perform oil tests on transformers KY1A & KY1B	Annually	
	Perform routine electrical equipment inspections	Monthly	
	Provide copies of monthly inspection and test reports	Monthly	
	Provide annual equipment test reports	Annually	
	Maintain 34.5-kV breakers	Annually and major every 3 years	
	Weed spraying	Annually	
	Spray for rodents and insects in control room	Quarterly	
<b>Gallegos Pumping Plant</b>	Respond to NAPI when contacted for minor emergency work	As contacted by NAPI	
	Perform a general facilities safety, health, security, environmental, maintenance and operations inspection	Every 2 years	
	Maintenance of battery bank	Every 6 months	
	Maintain three 230kv MOIs 167, 267 & 367	Annual & major every 6 years	
	Weed spraying	Annually	
	Maintain 13.8kv circuit breaker PCB 124, 324, 524, 424 and 4.16kv circuit breaker pcb 224 at Gallegos Pumping Plant	Annually and major every 5 years	
	Maintain transformers KZ1A (230/13.8kv), KZ2A (230/4.16kv) & KZ3A (230/13.8kv)	Annual & major every 6 years	
	Perform oil tests on transformers KZ1A KZ2A & KZ3A	Annual	
<b>Transmission System</b>	Patrol via Air	Every 6 months	
	Patrol via Ground	Annually	
	Schedule high priority line work	Annually with NAPI	

# EXHIBIT B

Region 1 High Lines and Site Location

## Legend

-  115 Kv Line Gallegos to Kutz
-  13.8 kv Powerline
-  230KV Powerline
-  34.5KV Line
-  Substation

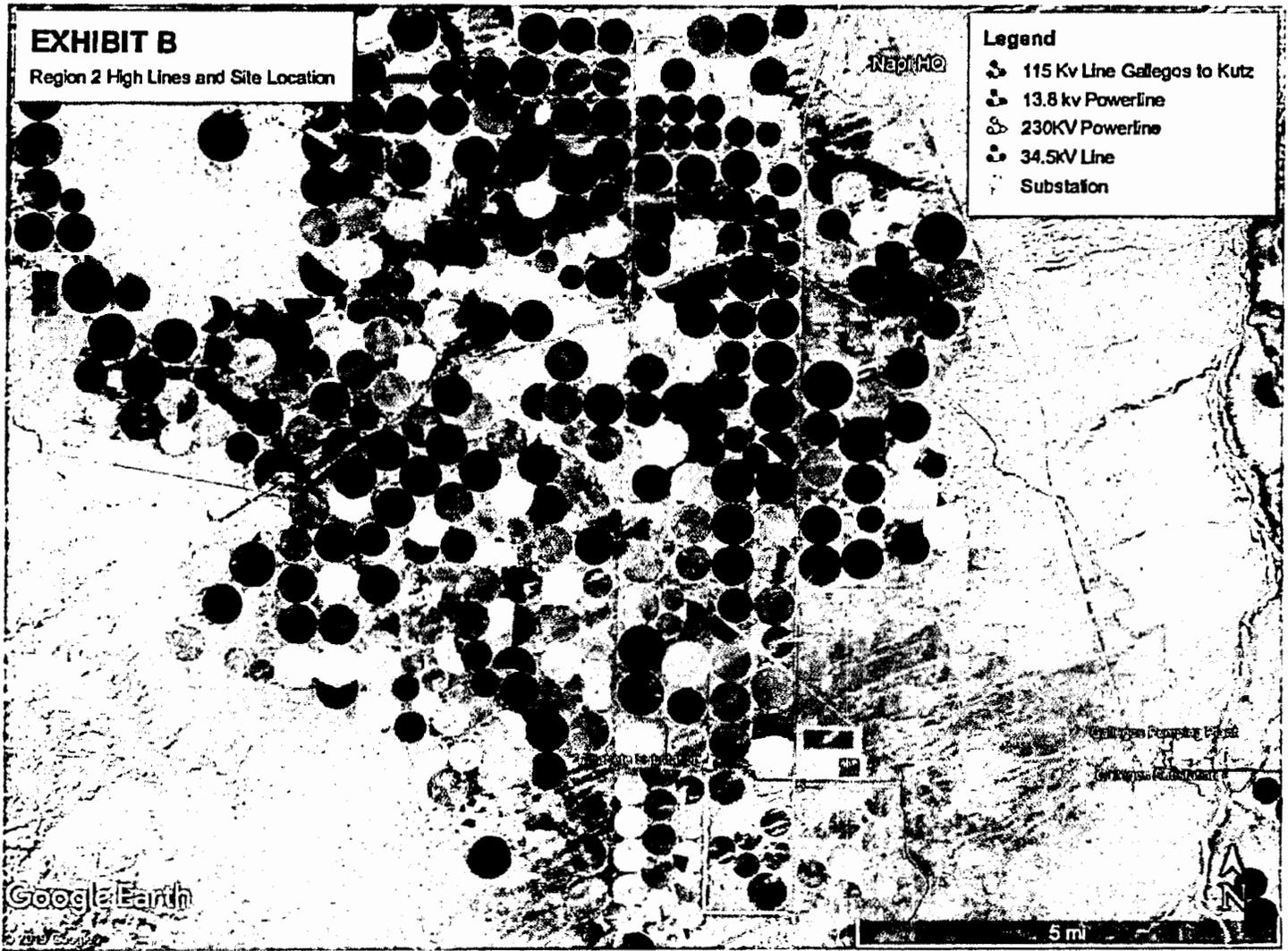


# EXHIBIT B

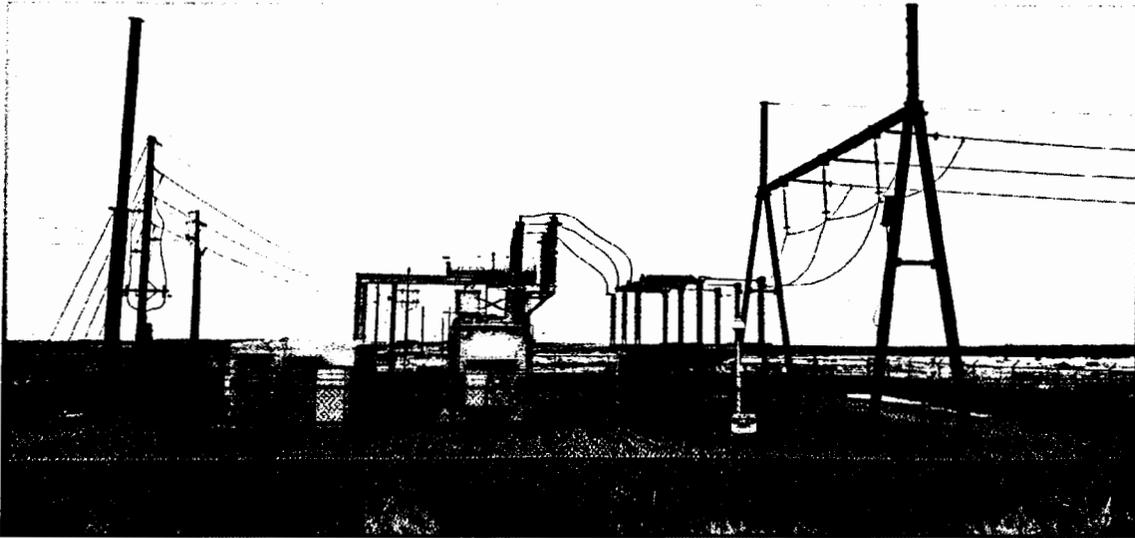
Region 2 High Lines and Site Location

## Legend

- 115 Kv Line Gallegos to Kutz
- 13.8 kv Powerline
- 230KV Powerline
- 34.5kV Line
- Substation



**EXHIBIT C**  
**SITE LOCATIONS**

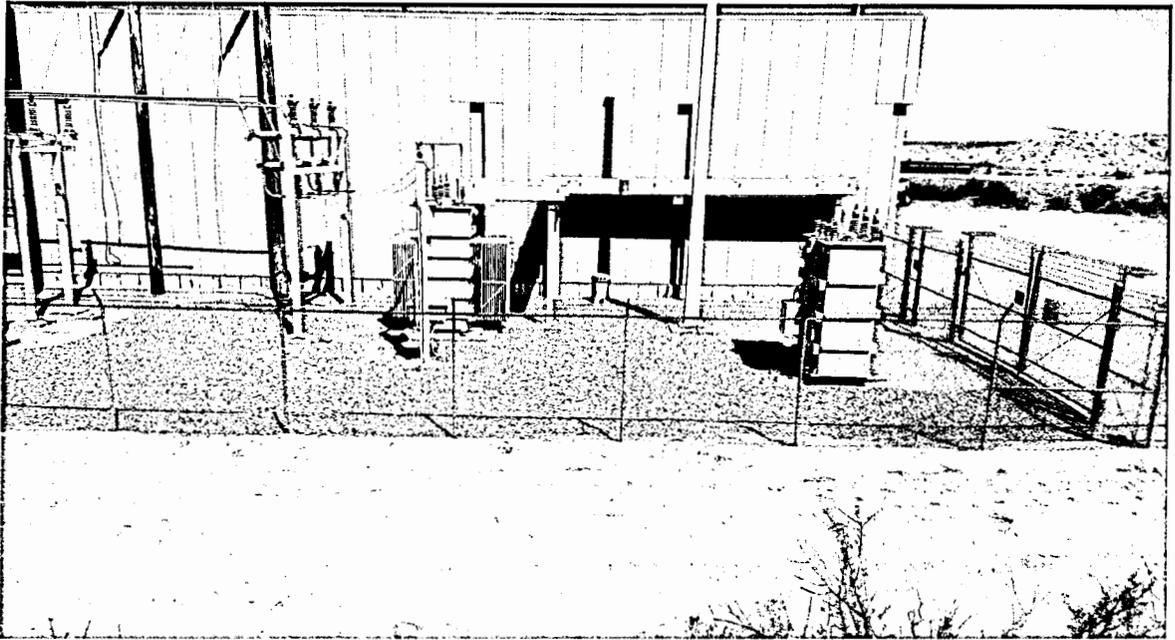


**Figure 1 PINABETE SUBSTATION**

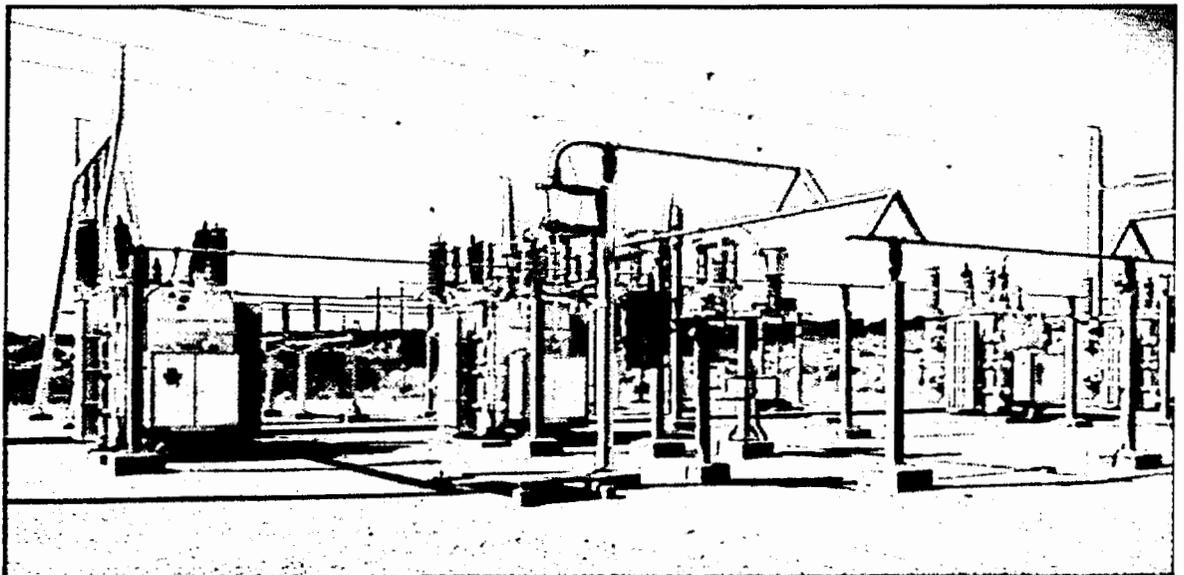


**Figure 2 GALLEGOS PUMPING PLANT**

**EXHIBIT C: SITE LOCATIONS**

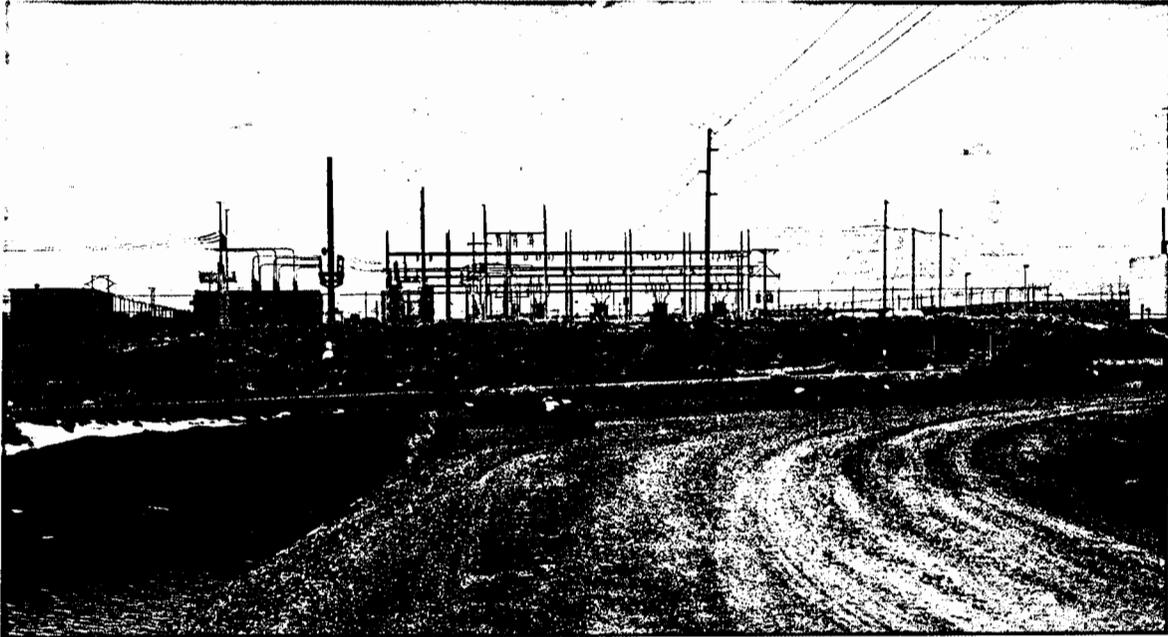


**Figure 3 KUTZ PUMPING PLANT**



**Figure 4 KUTZ SUBSTATION**

**EXHIBIT C: SITE LOCATIONS**



**Figure 5 GALLEGOS SUBSTATION**

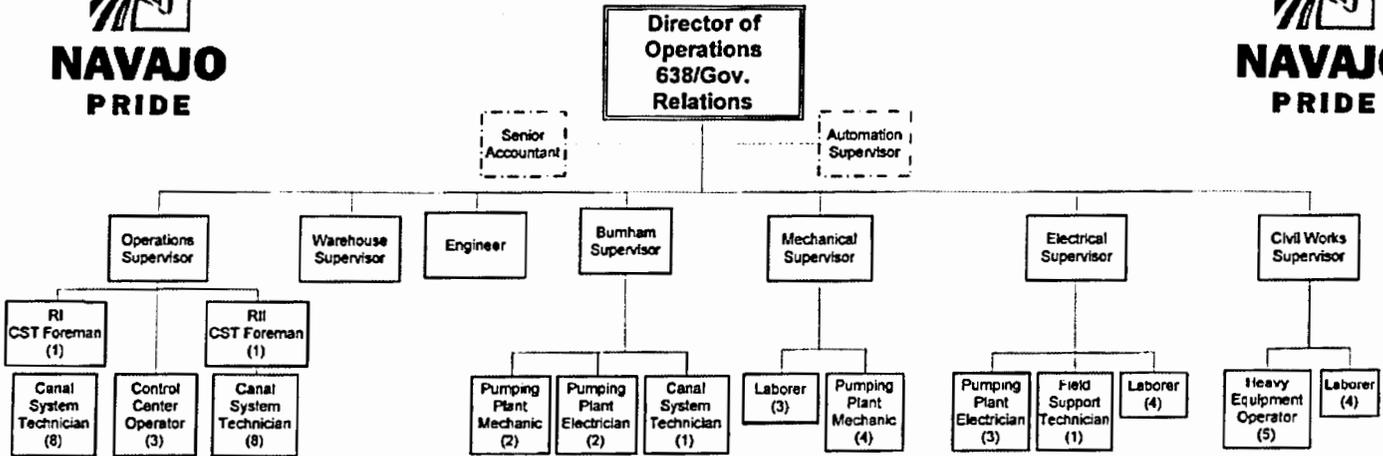
# **EXHIBIT D**

Operations & Maintenance Organizational Chart  
Director of Operations – 638/Government Relation

# Operations Maintenance 2026 Organizational Chart



## Navajo Agricultural Products Industry Operations & Maintenance Department



Revised 5/12/2023

*[Signature]* 5/27/23  
Director of Operations Date

*[Signature]* 5/25/23  
Human Resources Mgr. Date

*[Signature]* 5/25/23  
Brandy Horner, del. CFO Date

*[Signature]* 5/25/2023  
Roselyn Yazzie, COO Date

*[Signature]* 5/25/2023  
Dave Zeller, CEO Date

\*Subject to change based on BIA Funding

\*Automation Supervisor reports directly to Technical Services Mgr., indirectly to Director of Operations-638/Gov. Relations

\*Senior Accountant reports directly to Controller; indirectly to Director of Operations-638/Gov. Relations



NAVAJO AGRICULTURAL PRODUCTS INDUSTRY (NAPI)  
**POSITION DESCRIPTION**

JOB TITLE:	Director of Operations – 638 / Government Relations	JOB CODE:	
		PAY GRADE:	
DEPARTMENT:	Operations & Maintenance	PAY STATUS:	Full-time / Salary
REPORTS TO:	Chief Executive Officer	REGULAR/SEASONAL:	Regular
APPROVED BY:	<i>Leulah &amp; Gole</i> , Human Resources Manager	DATE APPROVED:	6/01/2019
		DATE REVISED:	1/13/2022

**I. POSITION FUNCTION SUMMARY:**

Under the direct supervision of the Chief Executive Officer, this position manages the water delivery system to include but not limited to planning, organizing, coordinating, and executing plans and objectives within the Operation & Maintenance Department, Pub L. 93-638 Federal Contract Programs, On-Farm Development and Technical Services Department. The Director of Operations is responsible for oversight of all new construction/rehabilitation of structures, to include power, water, communication inputs/sources and respective permitting, recordings, and filings. The Director of Operations also serves as primary Governmental Liaison to include, but not limited to, Navajo Nation Office of President/Vice President, Navajo Nation Council, U.S. Department of Interior, BIA/BOR and NAPI lobbying firms.

**II. ESSENTIAL FUNCTIONS, DUTIES, AND RESPONSIBILITIES:**

The following statements are essential functions of this position and not intended to be all-inclusive; rather, they are intended to describe the general nature and level of work to be performed. They are not to be construed as an exhaustive list of all responsibilities, duties and skills required of the incumbent, and an employee may be directed to perform other reasonably related job duties and responsibilities. NAPI reserves the right to revise or change the job duties and responsibilities as the need arises, based on business need, and this position description may be updated accordingly. This position description does not constitute a written or implied contract of employment.

General Duties & Responsibilities

1. Provide professional leadership to the department in pursuit of excellence by teamwork and a competitive spirit to an agricultural industry.
2. Ensures reliable water delivery to NAPI farm operations.
3. Plans, supervises, and organizes areas of preventative and corrective maintenance, non-routine rehabilitation and emergency repair of canals, laterals, elevated tanks, hydro-tans, pipelines, pumping plants and drainage collectors.
4. Develops training and safety programs in water and power delivery operations and maintenance.
5. Determines cost effectiveness of work performed by personnel and outside contacts and recommends appropriate action to provide and maintain service in the most cost effective manner.
6. Recommends and participates in the development of department goals, objectives, priorities and policies.
7. Oversee construction and renovation projects to improve efficiency and to ensure that facilities meet environmental, health, and security standards, and comply with government regulations.
8. Plan, organize, coordinate, implement, direct, evaluate, and adjust the Operation, Maintenance, and Replacement (OM&R) functions of the Navajo Indian Irrigation Project (NIIP) facilities and equipment contracted by NAPI under the provisions of Public Law 93-638 from the Bureau of Indian Affairs (BIA).

9. Serve as NAPI's principal agent in proposing, negotiating, implementing, and administering the PL 93-638 contract. Assuring compliance with applicable Navajo Nation and Federal Laws. These requirements include but not limited to: procurement, preference in employment and business practices, safety, environmental considerations, OMB circulars, GSA contracts, etc.
10. Prepare annual funding request with justification for the (OM&R) functions of the NIIP facilities. Prepare the annual budget for the department and coordinates the budget execution by O&M forces or by subcontracts insuring that funds are expended for programmed activities and that budget limits are not exceeded.
11. Interpret and administer operating guideline for the PL 93-638 contracts Cooperative Agreements to guide staff in preparing and carrying out the long and short-range plans for the O&M Department.
12. Coordinates with NAPI farm operations, Reclamation, Western Area Power administration (WAPA), City of Farmington, New Mexico Gas Company and other entities in scheduling outages and maintenance projects.
13. Supervises appropriate personnel in the review of designs prepared by Reclamation to recommend changes or modifications to improve the overall system design and its performance when constructed.
14. Develop, implement, and maintain an automated water control and accounting system and an asset management system to provide an accurate and reliable maintenance database of the NIIP facilities and equipment.
15. Establish and maintain effective working relationships with BIA, WAPA, Navajo Nation and various related communities.
16. Strives to achieve NAPI's Mission through an environmentally sound approach in all activities related to the OM&R of the NIIP facilities and features by considering the environment in all decisions, implementing the best management practices, advocating the protection of the NIIP water allocation, the Navajo Nation's unqualified water rights to the San Juan River and the best interests of NAPI operations.
17. Serves as department liaison or representative on committees, commissions, task force, and at meetings regarding the NIIP Pub L. 87-483 political advisory projects with NAPI and Navajo Nation leadership.
18. Oversees master development planning activities concerning NIIP.

#### Supervisory Duties and Responsibilities

19. Manages and supervises the work unit in keeping with applicable laws and regulations; and NAPI's policies, guidelines, and Navajo affirmative action policies.
20. Leads, directs and supervises reporting personnel including work procedures, workloads and work schedules by directing the workflow in such a manner as to promote productive efficiency of employees.
21. Identifies the developmental needs of employees in department and coaches, mentors, trains, or otherwise helps others to improve their knowledge or skills.
22. Manages performance of assigned direct reports and others in the work unit; conducts employee performance reviews for assigned staff, properly documents corrective action, performance improvement plans, and disciplinary actions, and salary adjustments in accordance with NAPI policy.
23. Ensures a safe working environment, and oversees compliance with applicable OSHA and other laws, regulations, and work rules concerning environmental safety and health by employees; assists with accident/injury investigations as directed by the Safety or HR department.
24. Establishes an effective flow of communication and information to ensure that problems can be responsibly solved and that support is provided to the staff as needed.
25. Observes, receives, and otherwise obtains information from all relevant sources as well as handling complaints, settling disputes and resolving conflicts or otherwise negotiating with others, and prepares reports of findings, in accordance with NAPI Policies & Procedures.

#### Other

26. Works collaboratively, cooperatively, and in coordination with fellow team members and with others in the organization, treats them with respect, courtesy and consideration, and shows understanding and the appropriate support of other team members to help get the job done.
27. Provides information, guidance and resources to diverse groups of customers, clients and others outside of the organization; treats them in a friendly manner with professionalism, helpfulness, respect, courtesy and consideration at all times regardless of circumstances.

28. Maintains regular, dependable attendance and punctuality, and physical presence at the assigned worksite; must interact directly with people or objects at the worksite on a regular basis. Communications technology may, for certain tasks and under certain circumstances, enable an employee to effectively perform some of the work-related duties from home on a temporary basis.
29. Performs other duties as assigned and which are deemed necessary or desirable by NAPI.

### **III. POSITION AUTHORITIES AND ACCOUNTABILITIES:**

#### General:

Position has a high level of line responsibility and high-level authority to make independent decisions over an assigned department or function. A person in this position has a high level of responsibility for a key operation or function.

#### Results of Action:

Decisions will have a high degree of impact on operations or services. Errors may result in significant disruption of operations or services or damage to operational activities. Errors in accuracy, judgment, tact or communication could result in a loss of productivity, and a significant loss of credibility and potential income for the organization. Failure to establish and monitor work schedules for the Department will result in an inability to meet deadlines and will delay the completion of records and other projects.

#### Budgetary & Financial Resources Accountability:

Position has high level of accountability for budgetary or financial decisions, and decisions will have a high degree impact on resource utilization within NAPI; responsible for a moderate level of impact on an operating budget for the Department;

#### Equipment/Material Management & Accountability:

Position has a high level of responsibility for equipment, material, or supplies; proper utilization is required plus accountability for first-echelon maintenance may be required; minimal authority and accountability for purchase within strict policy guidelines may be present.

#### Confidential and Sensitive Information:

- Incumbent has a high level of access to sensitive and proprietary company data, including but not limited to services, legal and financial data, and an essential job result is the maintenance of a high level of confidentiality of the information processed by the employee.
- Incumbent has a minimal level of access to personal and professional data regarding individual employees and their families, and to personal data regarding customers/clients/members and their families and must comply with the Fair and Accurate Credit Transactions Act (FACTA) to keep that data secure and private.
- Incumbent has no access to health data of employees and their families, and to health data of customers/clients/members and their families and must comply with the Health Insurance Portability and Accountability Act (HIPAA), to keep that data secure and private.

#### Independence of Action; Supervision Received:

The Director of Operations works under general supervision of the Chief Executive Officer. Employee performs high level, complex management work, and performs a high level of analysis and problem-solving with a high degree of independence and discretion.

#### Supervision Exercised:

The Director of Operations has supervisory authority over all assigned staff, with proper delegation to other supervisors within the department. Determines work procedures, schedules and priorities. In addition to direct supervisory authority of this position, the Director of Operations may retain functional authority over specific projects or areas of responsibility as specified in this Job Description or otherwise delegated by the Chief Executive Officer.

#### IV. POSITION QUALIFICATIONS AND REQUIREMENTS:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required for the position, but is not a comprehensive list. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

##### Education and Experience:

###### *Required:*

- Bachelor's degree from an accredited four-year college or university in Civil or Mechanical Engineering with a relative field of study in earthwork, construction extraction, hydrology, electrical theory, structural theory, permit entitlements, hydraulics, economics and basic principles in surveying.
- Three (3) years progressive experience in managing a workforce performing construction and maintenance work of water distribution facilities, including underground pipelines and/or pumping plants or at a project management capacity in engineering; supervisory experience in an agricultural environment.

###### *Preferred:*

- Master's degree from an accredited four-year college or university in Agricultural Business, Agricultural Economics, or directly related discipline.

###### *Substitution:*

- Five (5) years of FLSA exempt-level experience in construction extraction, hydrology, electrical theory, surveying and management may be substituted for the Bachelor's degree requirement.

##### Navajo Preference:

Navajo preference will be applied in accordance with the Navajo Preference in Employment Act (NPEA), it is Navajo Agricultural Products Industry's ("NAPI") goal and intention to strictly adhere to the NEPA in all employment practices and hire qualified Navajo Personnel for all positions. Tribal sovereignty support and Navajo preference initiatives are mandatory.

##### Language Requirements:

###### *Required:*

Ability to read and write English in order to understand and interpret written procedures and technical manuals. This includes the ability to give and receive instructions in written and verbal forms and to effectively present information and respond to questions from vendors, contractors, supervisors and co-workers.

###### *Preferred:*

Bi-lingual (English/Navajo)

##### Shared Responsibilities:

As a requirement of their employment, all NAPI employees are expected and required to follow and adhere to the following job responsibilities:

- Support the mission, vision, values, and goals of Navajo Agricultural Products Industry.
- Support excellence in our customer service philosophy and deliver excellent customer service both to internal and external customers.
- Adhere to all company policies and procedures.
- Follow all safety policies, guidelines, and work rules, and participate in trainings.
- Practice good stewardship of NAPI property and follow policy.

- Act in a professional manner at all times.
- Function from INTEGRITY, HONESTY, and LOYALTY in all activities concerning NAPI.
- Follow the current NAPI Strategic Plan initiatives.
- Maintain and support a team environment within the workgroup, and with other departments.
- Champion NAPI in the community.

**Core Competencies:**

Performs the essential functions and elements of this position competently, demonstrating adequate progress throughout the course of the introductory period of employment and continuing throughout employment with NAPI. A variety of personal competencies need to be demonstrated by everyone at NAPI, and include but are not limited to:

- **Quality/Compliance:** Achieving a standard of excellence with our work processes and outcomes, honoring NAPI policies and all regulatory requirements.
- **Customer focus:** Striving for high customer satisfaction, going out of our way to be helpful and pleasant, making it as easy as possible on the customer or client, rather than on self, department, or organization.
- **Communication:** Balancing listening and talking, speaking and writing clearly and accurately, influencing others, keeping others informed.
- **Collegiality:** Being helpful, respectful, approachable, and team oriented, building strong working relationships and a positive work environment.
- **Initiative:** Taking ownership of our work, doing what is needed without being asked, following through
- **Efficiency and Continuous Improvement:** Planning ahead, managing time well, being on time, being cost conscious, thinking of better ways to do things
- **Coachability:** Being receptive to feedback, willing to learn, embracing continuous improvement
- **Safety:** Comply with and actively support all workplace safety policies and practices.
- **Team Player:** able to work collaboratively with others in the organization, and to work well with diverse groups of people and gain and maintain respect of others, both inside and outside of NAPI.

**Knowledge, Skills and Abilities:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required to perform the essential functions of the position, but are not a comprehensive list:

- Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.
- Knowledge of personnel practices, time management and negotiation.
- Knowledge of applicable laws and familiarity with the discipline's terminology.
- Knowledge of general and fund accounting and business practices to effectively manage budgets.
- Knowledge of budget control methods, policies, and procedures.
- Knowledge of project control and cost estimating techniques.
- Skill in being honest, ethical and professional.
- Skill in Developing skills and abilities of direct reports to improve individual and team performance.
- Skill in attention to detail and being thorough in completing tasks.
- Skill in being persistent in the face of obstacles and being able to accept criticism and dealing calmly and effectively in high stress environments.
- Skill in being pleasant with others on the job and displaying a good-natured, cooperative attitude.
- Skill in being open to change (positive or negative) and to considerable variety in the workplace.
- Skill in active listening as this position communicates with all levels of company employees, board of directors, customers, Standing Committees of the Navajo Nation, and U.S. Government offices.
- Ability to work collaboratively to build professional and working relationships with colleagues, coworkers, and constituents.

- Ability to establish rapport and gain the trust of others.
- Ability to speak and present in public forums.
- Ability to communicate effectively both orally and in writing in English. Navajo language is helpful.
- Ability to demonstrate customer and personal service; this includes NAPI O&M needs assessments, meeting quality standards for services, and evaluation of water customer satisfaction.
- Ability to analyze information and use logic to address work-related issues and problems.
- Ability to develop a self-motivating and self-sufficient work performance in an independent working environment.
- Ability to manage personnel resources by motivating, developing, and supervising subordinate supervisors as they work and identifying the best personnel for the job.
- Ability to complete task as directed by supervisor.
- Ability to demonstrate a willingness to take on additional responsibilities and challenges.
- Ability to keep up-to-date technically and applying new knowledge to your job.
- Ability to adhere to dress code standards; and personal protective equipment.

**Certification, Licenses and Registrations:**

- Must have and maintain a current New Mexico, or Arizona driver's license, must have and maintain an NAPI-insurable driving record, and must provide proof of current liability insurance meeting or exceeding State-required minimum coverages.
- First Aid, CPR, and Defensive Driving Course.

**Training Requirements:**

- Must successfully complete all NAPI-required safety and other training
- Must successfully pass and maintain training certification in all state, NAPI, individual-specific, and/or other training requirements of the position and job assignment.
- Additional specific training requirements for this position may be required by NAPI.

**Tools and Equipment Used:**

- Standard office equipment, including desktop computer and standard MS-Office applications, AutoCAD Civil 3D, Arc GIS 2010 and familiarity with Allen Bradley Compact Logix Application.
- Sage Intacct Accounting Software
- Must be able to operate a company vehicle and a two-way radio.

**Other:**

- In accordance with the conditional offer of employment, individual must pass drug screen, and all NAPI, and other required background investigations.
- Additional drug screening and background investigations may be required depending on the job assignment, or job transfer.
- Must read and acknowledge NAPI's Non-disclosure agreement.

**V. PHYSICAL & MENTAL DEMANDS and WORKING CONDITIONS**

The physical and mental demands, and working conditions described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. The physical and mental demands, and working conditions described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of this position.

NAPI maintains a comprehensive, detailed assessment of the physical and mental demands, and working conditions for this position, which are also included in the incumbent's employment file.

Physical Effort and Demand:

- None to insignificant physical demand is required to perform the work; an employee in this position frequently sits at a desk or workstation.

Visual Acuity, Hearing, Speaking, Manual Dexterity:

- Must have visual acuity and manual dexterity to perform timely and accurate data entry;
- Must be able to make individual, small group, and large group presentations as required by position

Mental Demand:

- Effective performance requires continual thinking and attention to work/detail demanded by the Knowledge, Skills and Abilities and essential functions of the job.
- Must be able to work non-standard work hours as required to fulfill job responsibilities and to respond to emergency situations and coordinate the systematic repair/shutdown of the system.

Environment/Working Conditions:

- Little to no hazardous conditions exist in the work environment. The work environment is pleasant; only minimal negative physical factors exist.
- Above average amount of negative psychological factors; these factors must be addressed and considered in the performance of duties and have potential for a negative impact on job incumbents.

**Continued on next page.**

**VI. EMPLOYEE ACCEPTANCE:**

By my signature below, I certify that I have read my Job Description and understand my assigned responsibilities, and have been given a copy of this Job Description.

Employee – please initial each of these statements below to indicate your agreement, in addition to your signature at the bottom of this page:

_____	I acknowledge that I have been given access to a print and/or electronic copy of the <b>Employee Policies and Procedures Handbook</b> , and understand that I am responsible for reading and following all relevant policies and procedures outlined in it.
_____	I understand that I am responsible for following all departmental and job-specific policies, procedures, work rules, and other guidelines.
_____	I understand that neither the Board of Directors nor management of NAPI can guarantee my employment, and that NAPI can change compensation, benefits, and conditions of my employment at any time and at its full and sole discretion to meet business needs of NAPI.
_____	I further understand that the foregoing Job Description is not all-inclusive of the duties to which I may be assigned. To meet business needs, ensure maximum flexibility and efficiency, and to encourage cross training, I acknowledge that I may be assigned additional duties as are deemed necessary or desirable by NAPI.
_____	I acknowledge that NAPI also reserves the exclusive right to transfer, assign, or locate the incumbent to another job assignment within this job title for which I am qualified. Such transfer, re-assignment or re-location may be on either a temporary or regular basis, and shall be done to meet the business needs of NAPI.
_____	I also certify that I can perform the essential functions of this Job Description either with or without a reasonable accommodation.
_____	I further acknowledge that this Job Description does not constitute a written or implied contract of employment with NAPI.

**Accepted and Acknowledged by:**  
Employee Signature

\_\_\_\_\_ Date

Print Employee's Name

\_\_\_\_\_

**Witnessed by:**  
NAPI Representative Signature

\_\_\_\_\_ Date

Print NAPI Representative's Name and Job Title

\_\_\_\_\_

## **EXHIBIT E**

### **Operation & Maintenance Work Schedule**

## WORK SCHEDULES

The Scope of Work activities are scheduled to occur in accordance with the operational requirements of Navajo Agricultural Products Industry (NAPI). From a historical perspective, the operational mode during water delivery is from the beginning of March to late October, about seven months of continuous activity, every day. The maintenance cycle is continuous, with major repair and replacement work performed from November through March, while operational maintenance during the water delivery period, March through October. Heavy equipment maintenance is a continuous activity.

Typically, during Operation Season, the Control Center and Irrigation System Operators work (120) hours per pay-period.

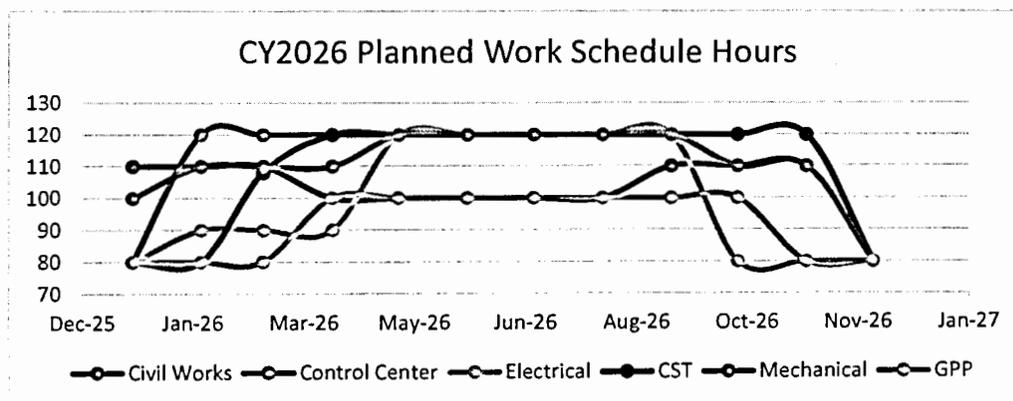
Each O&M division develops its own situational work schedule based upon factors as the inspection of the NIIP facilities, operational problems that may have been experienced during the operational mode, the life cycle of the equipment, manufacturers recommend maintenance cycle of equipment, vibration analysis that indicate a need to do maintenance on equipment, and emergency repairs when equipment fail.

Generally, there is a limit of (120) hours per pay period for all hourly O&M employees, while salary O&M staff are restricted to an (80) hour pay period. During the March start up and November dewatering, O&M employees work a maximum of (120) hours per pay period. During the Irrigation season, the Canal Service Technicians (CST) work a maximum of 108 hours per pay period, when fully staffed. The dispatcher operator works a maximum of (120) hours per pay period during the irrigation season. The SCADA staff is determined by MAXIMO work order and winter maintenance and replacement projects. All other times, all O&M employees are restricted to an (80) hour pay period to control labor hours, with the caveat being the O&M division is fully staffed. A historical 2-year average of O&M hourly pay period hours from January 2023 to October 2024 is utilized to forecast seasonality of hours per hourly employee within each department, shown below in Table 1 and Figure 1.

CY2026 Planned Work Schedule Hours

<b>Table 1</b>	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26
Civil Works	110	110	110	100	100	100	100	100	110	110	110	80
Control Center	80	120	120	120	120	120	120	120	120	120	120	80
Electrical	80	90	90	90	120	120	120	120	120	80	80	80
CST	80	80	108	120	120	120	120	120	120	120	120	80
Mechanical	100	110	110	110	120	120	120	120	120	110	110	80
GPP	80	80	80	100	100	100	100	100	100	100	80	80

Figure 1



## **EXHIBIT F**

Emergency Procedures

Standing Operating Procedures

## **SECTION IX -EMERGENCY RESPONSE PROCEDURES**

All injuries shall be reported immediately to a supervisor. Immediately upon completion of any investigation, supervisors shall correct any conditions contributing to the accident. -all injuries should be reported to the Security and Safety department to provide adequate first aid/CPR care. Employees should be trained to comply with the NAPI Emergency call list.

- Contact Security---security will contact Safety
- Render first aid/CPR as needed
- Notify foreman/supervisor

### **9.1 HELICOPTER-ASSISTED-EMERGENCIES**

For life threatening situations, call 9-1-1. Following are examples of life-threatening injuries:

- Patient is involved in a motor vehicle accident resulting in severe injuries.
- Patient has fallen greater than 6 feet.
- Patient has a severe penetrating injury to anybody region.
- Patient has a blunt injury with indications of internal bleeding or head injury.
- Patient is trapped in a motor vehicle or there are multiple victims with unknown and/or severe injuries.
- Required information to be given to the 9-1-1 dispatch center for emergencies requiring Air Care-1.
- NAPI Security contacts NAPI Safety Department
- Provide landmarks and landing zone procedures
- Specific location of patient, using major landmarks such as highways, or provide a ground contact person.
- Specific location of landing zone using major landmarks and clearly identifying the area with the following criteria:
- Landing and approach route will need to be clear of obstructions, such as power poles, buildings, fences, wires, trees, etc.
- Size of landing area, at least 100 x 100 feet.
- Information on how the area will be marked. (For example, by using headlights on a vehicle or reflective cones.)
- Approximate altitude of the location. Most areas of NAPI average 5500 feet.
- Descriptive weather information, including estimated winds, temperature, and visibility.

### **9.1 SERIOUS INJURIES**

Evaluate the situation and provide first aid. Immediately report the following information to your supervisor.

- Contact Security
- Render first aid/CPR as needed
- Specific location of accident.
- Names(s) of injured.
- Extent of injuries.
- First aid treatment provided.

## Operations, Maintenance, & Replacement Scope of Work for CY 2026

The accident site shall not be disturbed until an accident investigation has been completed. If possible, the investigation should be completed with one hour of the accident.

For all injuries requiring treatment by a physician, the supervisor shall:

- Make sure the injured party have been given or received any needed first aid.
- Arrange for immediate transportation of the injured party.
- Notify the Safety Department and Human Resources so they can notify appropriate Navajo Nation offices.
- Make sure that all applicable information for the Navajo Nation Workers Compensation Program form is completed immediately following the injury/accident. The following information is needed:
- The injured employee must sign the Workers Compensation Medical Information release for the doctor to complete.
- The completed form is to be returned by the employee to Human Resources or mailed to NAPI by the doctor.
- A Supervisor Report of Injury form must be completed and turned in to Human Resources within 12 hours of reporting the accident. All blanks on the form must be completed. The following items need to be attached:
- A copy of each injured employee's job description.
- All witness reports.
- If possible, a statement from the injured employee as to how, when, where, and why the injury/accident occurred and who and what equipment, if any, was involved.

The supervisor will conduct an accident investigation to determine the cause of the accident. The accident investigation should be conducted with the Safety and/or Property Departments. The final accident investigation report should be submitted to the Safety Office within 24 hours of the accident. The supervisor must also provide all reports to Human Resources.

### 9.2 MINOR INJURIES

All injuries are to be reported immediately to the supervisor. If treatment by a physician is not required the supervisor shall:

- Check the injury, provide first aid, and notify Human Resource and the Safety Department.
- Complete both an accident report and report of injury and submit to Human Resource within 12 hours of the injury.
- Make certain that the accident site is not disturbed until the accident investigation has been completed. If possible, the investigation should be completed within one hour of the accident.

### 9.3 FIRES

Obtain assistance from other employees if the fire can be controlled by the use of portable fire extinguishers. If the fire cannot be controlled by the use of a portable fire extinguisher, immediately evacuate all employees to a pre-determined location, notify the supervisor, and call "9-1-1".

The supervisor will take the following steps in the event of a fire:

- Check to ensure that all employees are safe in the event of a fire.
- Determine the seriousness of the fire.

## Operations, Maintenance, & Replacement Scope of Work for CY 2026

- If the fire is large or uncontrollable, call "9-1-1". For location information, use the N-series road number, for example N3003/N3005. Arrange for an escort to meet the Fire Department and guide them to the fire, if necessary. Coordinate with the Fire Department to establish a central location from which to control the situation.
- Notify Safety.

Once the fire has been put out, the supervisor shall arrange for an immediate accident investigation and determine which Navajo Law Enforcement District to contact. If the fire is located west of State Highway 371, contact Shiprock Law Enforcement at (505) 368-1360. If the fire is located on the east side of State Highway 371, contact Crownpoint Law Enforcement at (505) 786-2050. The supervisor shall complete and submit an Accident Report and submit it to the Property Control Office within hours of the fire.

### 9.4 HAZARDOUS MATERIAL RESPONSE

Personnel trained in handling hazardous material will take the following steps:

- Assess the area to determine if there is an immediate danger to employees. Under no circumstance is an employee to enter the danger zone.
- Immediately clear the area and set up a road block to prevent other employees or the public from entering the area.
- Immediately contact your supervisor and provide information as to the materials involved in the fire or accident.

The supervisor is responsible for contacting the Fire Department and/or the Hazardous Materials Response Team by calling 9-1-1, the Safety Department, and any regulatory authorities or other appropriate company personnel. If the emergency involves hazardous materials, specify what type of material, whether a fire is involved, and if so, its nature and extent, the location of the emergency, and the number of people involved or injured. The supervisor must arrange for an escort to meet the Fire Department and guide them to the location.

If the fire involves hazardous materials such as oil, fuels, or pesticides, maintain a Safety zone upwind of the fire. Coordinate with the Fire Department to establish a central location from which to control the situation. Once the fire has been put out, arrange for an immediate accident investigation.

### 9.5 GROUND COMMUNICATION PROCEDURES FOR ALL EMERGENCIES

Ground communication shall be established between NAPI and a designated person at the location through one of the following:

- Radio Frequency or channel along with company name.
- Contact NAPI Security on Radio Call #470, Mobile (505) 478-5401
- Contact NAPI Security Dispatch at Mobile (505) 446-7114
- NAPI Main Office on Channel One, Radio Call #100 from 7:00 a.m. until 4:00 p.m. (Monday - Friday only).
- NAPI O&M Dispatch - Channel One, Radio Call #800 from 4:00 p.m. until 7:00 a.m. (7 days a week, March through October).
- Telephone contact number, NAPI Main Office (505) 566-2600

**Operations, Maintenance, & Replacement Scope of Work for CY 2026**

## **ATTACHMENT 2**

### **Scope of Work for On-Farm Development**



**NAVAJO  
PRIDE**

**SCOPE OF WORK  
For  
On-Farm Development**

**Calendar Year 2026**

**Navajo Indian Irrigation Project  
Farmington, NM**

**Public Law 93-638  
Contract Number A26AVxxxxx**

**Rick Gilbreath  
On-Farm Development Manager**

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# SECTION ONE

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## 1.0 Introduction

The Technical Services/On-Farm Development (OFD) Yard will increase its office yard to house equipment and supplies. Figure 1 shows purpose site will expand the yard from its current 19,454 sq. ft. to 40,044 sq. ft. The new location has a trailer on site and will become the new headquarters for the OFD Field crew. The trailer will require infrastructure, foundational support, and renovations to the trailer's interior. Figure 1.2 shows the current OFD trailer, manufactured in the late 1970's, it has become timeworn. It lacks sufficient insulation which makes heating in the winter and cooling in the summer difficult.

OFD does have a newer trailer that was used during the construction of Block 9 Stage 1 but has not yet utilized since its completion. For the new site, OFD workers will begin site prep for the new site location, install water/sewer piping, and set up the newer trailer. Contractors will fence around the new site location and connect to the electrical utility.

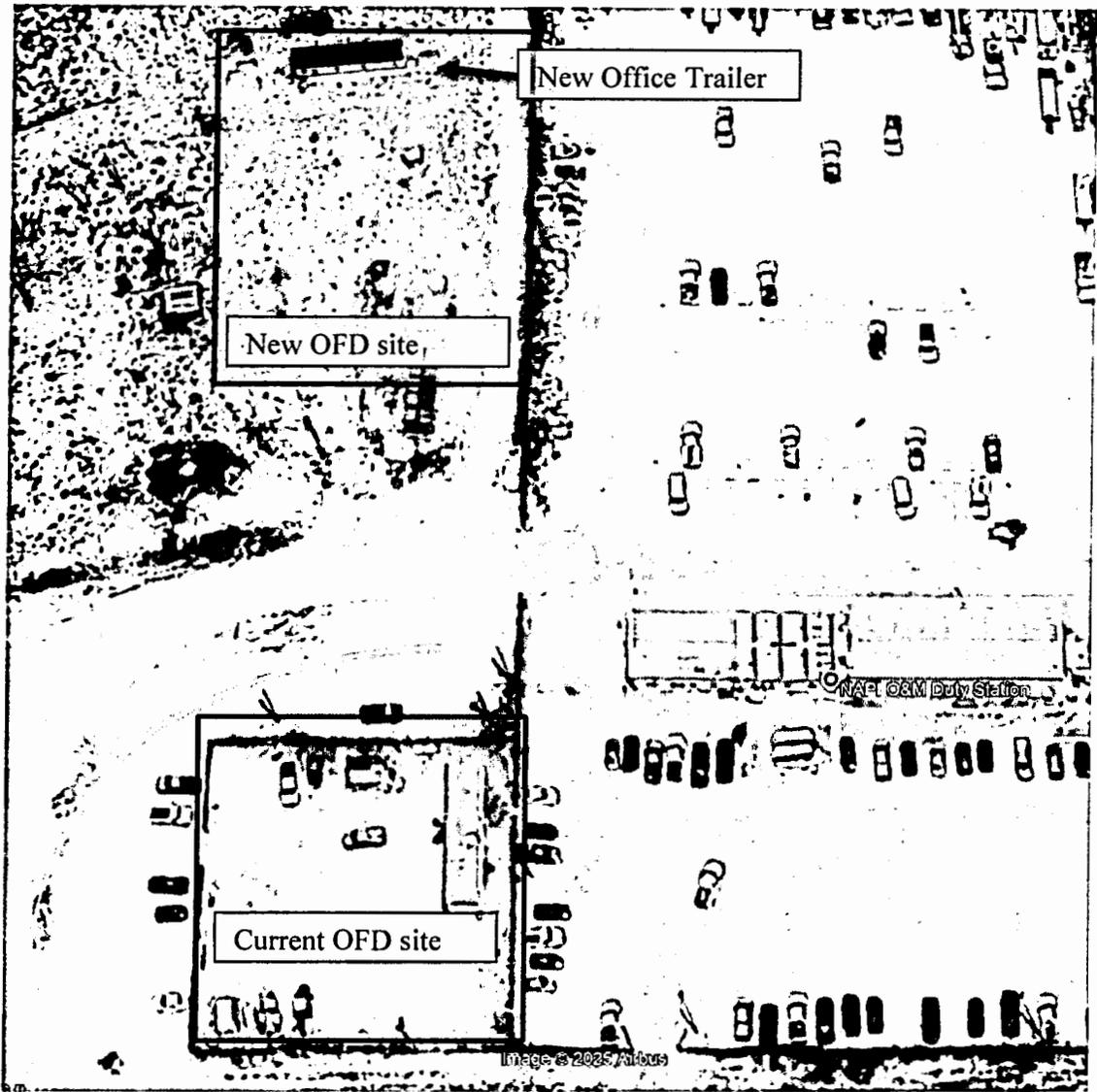


Figure 1: OFD Expansion Site

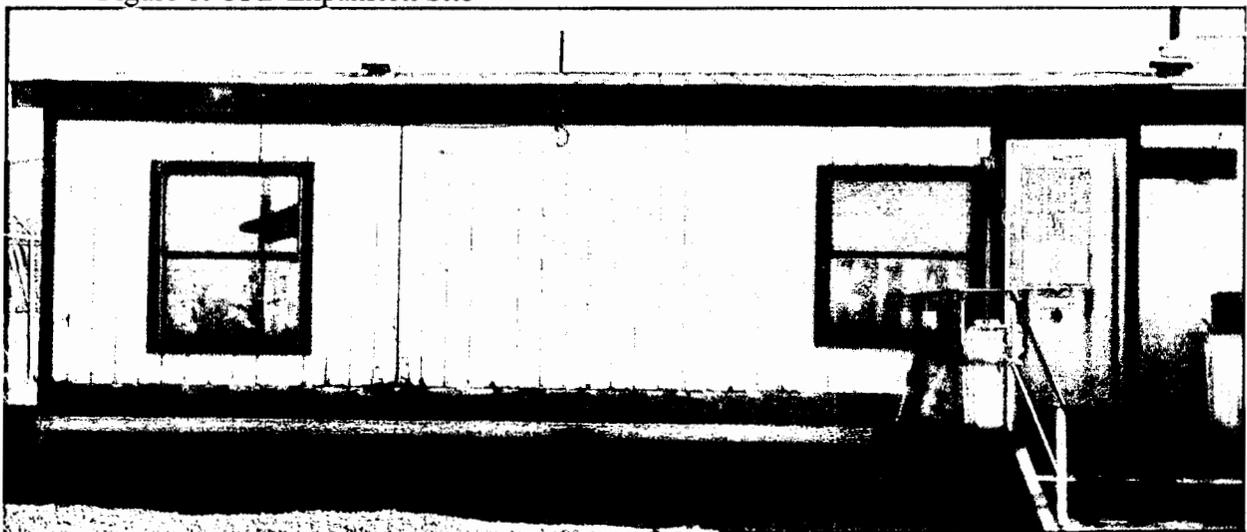


Figure 2: OFD Current Trailer

Another focus for 2026 is to address sub-surface drainage issues that are becoming a larger burden for NAPI's crop production in Block 8. The first two goals for Block 7 and Block 8 continue design and construction for Subsurface Phase 2.

Figure 2 shows the fields NAPI's Irrigation Technicians and Agronomists have listed as the highest priority fields to address 8-19A, 8-28A, 8-31A, 8-31B, 8-32B, 8-33A, 8-35A, 8-36A, 8-38A, 8-39A, 8-53A, 8-66A, 8-67A, 8-68A, and 8-69A. For example, ponding issues in field 8-66A caused the Irrigation manager to ask to block off watering approximately 14 acres of land on the east side by setting up end barriers, to turn the field into a partial pivot field instead of utilizing the full circle. For Block 8.

OFD still has previous Block 7 fund requests to do approximately 20,000 ft for Phase 4 Drainage design and construction and 11,500 ft for Block 8 Phase 1 design and construction. In addition, the purchase of a custom Trencher from Clark Farm Drainage using OFD funds, we can add an additional 11,500 ft in Block 8 after training and practice in 2025.

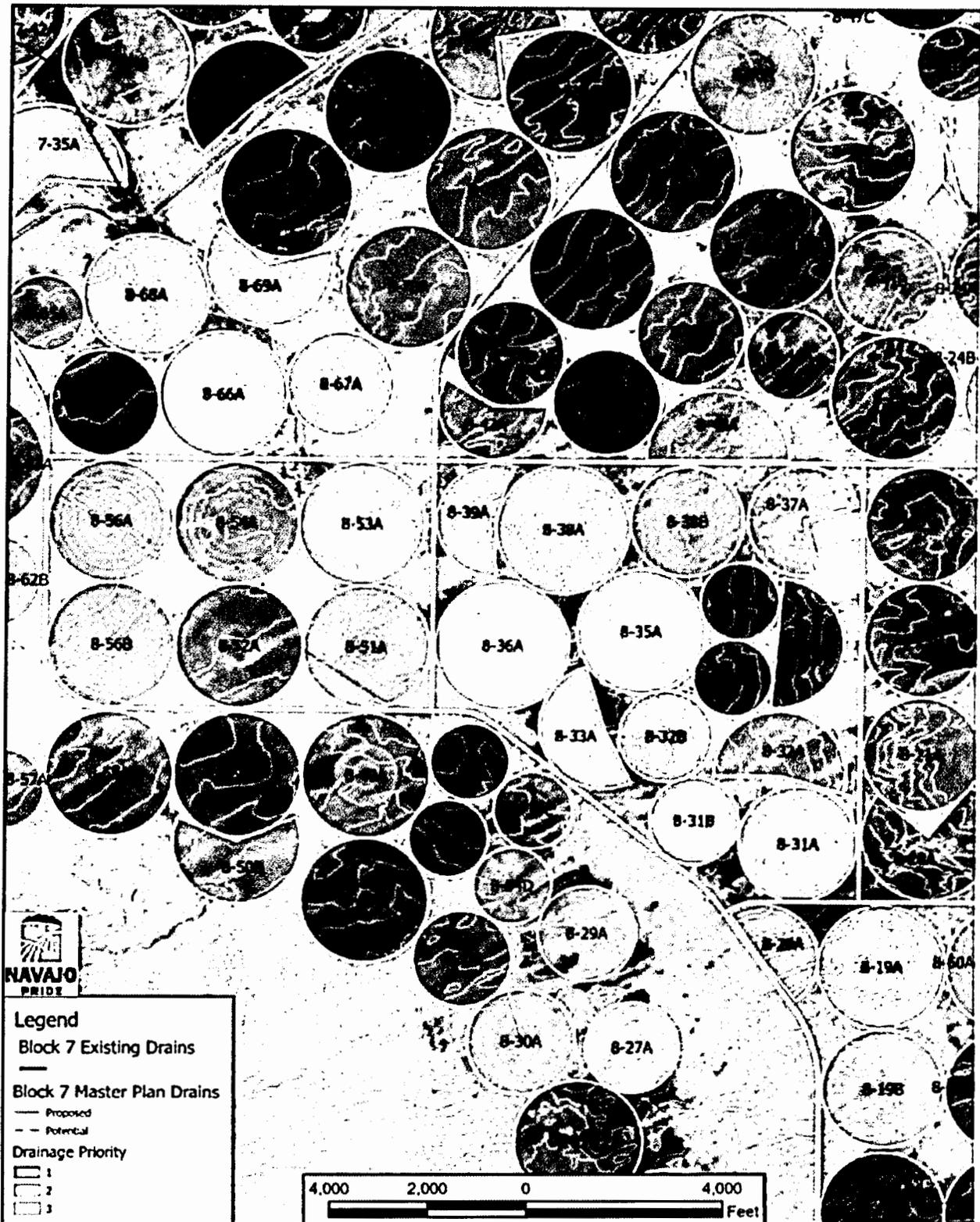


Figure 3: Block 8 High Drainage Priority Fields

## 1.1 Management Controls

### Technical Services/On-Farm Development (OFD) Manager

Responsibilities for the OFD Manager will include project oversight, planning, cost estimating, progress monitoring, QA/QC, and overall project safety.

### Cost Centers

The Cost Center is an accounting function and visual aid to be used within the SOW. NAPI Accounting department has preassigned a unique set of account codes to be used for this SOW and Work Schedule. These codes allow for standardized budgeting and collection. The codes are used on all purchase orders, time sheets, and other accounting structures. Codes are created to identify project specific tasks such as the following:

- Entitlements
- Design
- Construction
- Close-Out

## 1.2 NAPI Phase Name Descriptions

### Labor

Technical Services/On-Farm Development (OFD) Manager will provide general oversight and progress monitoring of the Project. Also, will be the point of contact for construction, scheduling, and budgets are maintained all within a reasonable manner.

Engineer will support for entitlements, design, and construction. Tasks of engineer is, but not limited to; conceptual layout, design, construction drawings, obtaining quantities/quotes, projection coordination, reporting, and general assistance with permits or other needed details.

Land Development Technician will execute all permits and right-of-way documentations. Heavy Equipment Operators will be removing excess soil from the proposed alignment.

### Labor Benefits & Burden

The benefits and burdens will cover the taxes, health insurance, and retirement.

### Heavy Equipment

This section includes equipment cost, maintenance, and replacement costs for each heavy equipment used to complete the SOW.

### Raw Materials

Raw materials will be materials required to complete the SOW specified in the construction drawings.

### Equipment Rental

Equipment rental is that additional equipment NAPI will need to complete the SOW.

### Outside Services

This item includes contractors, professional services, maintenance/repairs on heavy equipment, etc. needed to complete SOW.

### 1.3 Budget Summary

The budget was determined from past data for contracts, material bids, labor cost, heavy equipment with some assumed inflation.

**Table 1: New OFD Trailer Yard**

Phase ID	Phase Name		Cost
<b>Planning</b>			
1.1	Labor	\$	1,000.00
<b>Construction</b>			
2.1	Labor	\$	37,048.00
2.2	Labor Benefits & Burden	\$	8,974.00
2.3	Equipment	\$	5,849.00
2.4	Materials	\$	7,034.00
<b>Outside Services</b>			
3.1	Fencing	\$	24,905.00
3.2	Utilities	\$	4,000.00
3.3	Electrician/Inspector	\$	2,250.00
<b>Closeout</b>			
4.1	Labor	\$	2,000.00
4.2	Labor Benefits & Burden	\$	400.00
	<b>Subtotal</b>	\$	<b>93,460.00</b>

**Table 2: Block 8 Subsurface Drainage Construction Phase 2 (11,500 ft)**

Task	Phase Name		Cost
<b>Planning</b>			
1.1	Technical Service/OFD Manager	\$	1,569.00
<b>Design</b>			
2.1	OFD Manager/Engineer/Survey	\$	12,554.00
2.2	Outside Services (Engineering)	\$	98,077.00
<b>Construction</b>			
3.1	OFD Manager/Engineer/Survey	\$	6,277.00
3.2	Labor (Equipment Operators/Laborers)	\$	117,691.00
3.3	Supplies	\$	3,923.00
3.4	Material	\$	156,922.00
3.5	Outside Services	\$	141,230.00
3.6	Heavy Equipment	\$	39,230.00
3.7	Rental Heavy Equipment	\$	39,230.00
<b>Close-Out</b>			
4.1	Technical Service/OFD Manager	\$	1,569.00
	<b>Subtotal</b>	\$	<b>618,272.00</b>

**Table 3: General & Administrative**

1.1	Labor (OFD Manager, Engineer, Crew Foreman, & Automation)	\$	132,866.67
1.2	Labor Benefits & Burden	\$	26,573.33
1.3	Office Supplies	\$	5,000.00
1.4	Pest Control Services	\$	1,680.00
1.5	GSA Vehicles	\$	36,000.00
	<b>Subtotal</b>	<b>\$</b>	<b>202,120.00</b>

**Table 4: Funding Totals**

1	New OFD Trailer Yard	\$	93,460.00
2	Block 8 Subsurface Drainage Construction Phase 2 (11,500 ft)	\$	618,272.00
3	General & Administrative	\$	202,120.00
	<b>Total</b>	<b>\$</b>	<b>913,852.00</b>

## 1.4 Scope of Work

The tasks, listed in the Cost Center section, are used to reference all activities to perform work or reports on accomplishments for this contract.

### *New OFD Trailer Yard*

#### Task One – Planning

OFD will survey site location, determine existing infrastructure and strip site.

1. Survey site, locating existing infrastructure and site parameters.
2. Removing transformers and water collection tower currently stored at future yard location.

#### Task Two – Design

1. Design locations for potable water pipes, sewage lines, and electrical power source.
2. Install electrical lines, piping for water and sewer.

#### Task three – Construction

OFD will work with the city of Farmington and Mesa Sand and gravel install infrastructure.

1. NAPI will purchase all material specified from the construction drawings.
2. NAPI will perform earthwork and site preparation.
3. The city of Farmington will assist with the installation of the electrical lines, and sewage pipes based on approved construction drawings.
4. Mesa Sand and Gravel will pour concrete foundation.

#### Task four – Renovation and fence installation

1. Trailer renovation on existing infrastructure requires updating.
2. Fencing off new site location.

## ***Block 8 Subsurface Drainage Construction Phase 2 (11,500 ft)***

### **Task One - Planning**

OFD will Develop an RFP that will be bid out to various engineering firms and award the project.

1. NAPI will solicit for an outside vendor to complete the design for the selected subsurface drainage.
2. NAPI will perform a topographic survey for the corridor along the drainage. Develop right-of-way, legal survey, and mapping exhibits.
3. NAPI will share preliminary documentation BIA NRO Branch of Engineering NIIP Office.
4. NAPI will execute road crossing permits, NIIP lateral crossing, and gas line crossing.
5. NAPI will deliver all approved road crossing/NIIP lateral crossing/gas line crossing permit, environmental documentation, and right-of-way to BIA-NIIP.

### **Task Two – Design**

OFD will work with the selected outside vendor to complete the design of Phase I for 11,500 feet of subsurface drainage.

1. The outside vendor will provide NAPI with approved construction drawings.
2. The outside vendor will prepare the crossing documents required to complete the construction.
3. NAPI will deliver all approved design documents, all approved road crossing/NIIP lateral crossing/gas line crossing permit, environmental documentation, and right-of-way to BIA-NIIP.

### **Task Three – Construction**

NAPI has used Clark Family Drainage for the three previous projects in Block 2 and Block 7 but has purchased their trencher that was purchased in 2024. With the with the assistance of Bob Clark, the owner of Clark Farm Drainage, he will assist OFD in the maintenance and training of staff on how to use the trencher while installing the drainage lines. The subsurface drainage pipe will be installed with gravel envelope. Concrete manholes will be used to connect two or more drainage system.

1. NAPI will purchase all material specified from the construction drawings.
2. NAPI will notify the BIA NRO Branch of Engineering NIIP Office the drawings and construction schedule.
3. NAPI will perform all construction surveys before/during construction.
4. NAPI will perform earthwork that is required prior to the contractor arriving to the project site.
5. Contractor will assist with the installation of the subsurface drainage based on approved construction drawings.

### **Task Four – Closeout**

Technical Service/OFD Manager will execute close-out report after review with the Land Development Technician and GIS Technician.

1. Inform the BIA NRO Branch of Engineering NIIP Office.

## **SECTION TWO**

---

### **2.0 SUMMARY**

The scope of work for CY2026 will focus on the expansion of the OFD field office to 40,044 sq. ft. The design and construction of 11,500 feet of the Block 8 Subsurface Drainage. General and Administrative will focus on the salaries of the OFD Manager, Technical Services Engineer, GIS Technician, Land Development Coordinator, and Automation Supervisor. Also to cover expenses associated with GSA Vehicle Lease and office supplies.

## SECTION THREE (See Attachments)

### 3.0 Proposed 2026 On-Farm Development (OFD) Budget – NAPI Phase Names

Phase ID	Phase Name	Budget
<b>New OFD Trailer Yard</b>		
2850	Labor	\$ 39,848.00
2860	Labor Benefits & Burden	\$ 9,574.00
5800	Outside Svcs, Sub-contract, Consultant	\$ 31,155.00
3810	Raw Materials - Concrete/Hardware	\$ 7,034.00
5905	Heavy Equipment	\$ 5,849.00
	<b>Subtotal</b>	<b>\$ 93,460.00</b>
<b>Block Subsurface Drainage Construction Phase 2 (11,500 ft)</b>		
2850	Labor	\$ 111,728.00
2860	Labor Benefits & Burden	\$ 27,932.00
5800	Outside Svcs, Sub-contract, Consultant	\$ 239,307.00
3835	Supplies	\$ 3,923.00
3810	Raw Materials - Concrete/Hardware	\$ 156,922.00
5905	Heavy Equipment	\$ 39,230.00
5810	Equipment Rental	\$ 39,230.00
	<b>Subtotal</b>	<b>\$ 618,272.00</b>
<b>General &amp; Administrative</b>		
2850	Labor	\$ 132,866.67
2860	Labor Benefits & Burden	\$ 26,573.33
4917	Office Supplies	\$ 5,000.00
5800	Outside Svcs, Sub-contract, Consultant	\$ 1,680.00
5835	GSA Vehicles	\$ 36,000.00
	<b>Subtotal</b>	<b>\$ 202,120.00</b>
	<b>Total</b>	<b>913,852.00</b>

### 3.1 On-Farm Development Manager Job Description

(Please view attachment)

### 3.2 Scope of Work and Cost Estimate for Block 7 Phase 4 and Block 8 Phase I Drainage System Design Memo – Keller Bliesner

(Please view attachment)



**NAVAJO AGRICULTURAL PRODUCTS INDUSTRY (NAPI)  
POSITION DESCRIPTION**

<b>JOB TITLE:</b>	<b>ON-FARM DEVELOPMENT MANAGER</b>	<b>JOB CODE:</b>	
<b>DEPARTMENT:</b>	Technical Services	<b>PAY GRADE:</b>	MN
<b>REPORTS TO:</b>	Director of Operations – 638/Governmental Relations	<b>PAY STATUS:</b>	Salaried
<b>APPROVED BY:</b>	<i>Richard J. [Signature]</i> , Human Resources Manager	<b>REGULAR/SEASONAL:</b>	Regular, FT
		<b>DATE APPROVED:</b>	12/23/2019
		<b>DATE REVISED:</b>	6/19/2024

**I. POSITION FUNCTION SUMMARY:**

Under the direction of the Director of Operations-638/Governmental Relations, the On-Farm Development Manager plans, designs, and coordinates construction of farming development projects for Navajo Agricultural Products Industry.

**II. ESSENTIAL FUNCTIONS, DUTIES, AND RESPONSIBILITIES:**

*The following statements are essential functions of this position and not intended to be all-inclusive; rather, they are intended to describe the general nature and level of work to be performed. They are not to be construed as an exhaustive list of all responsibilities, duties and skills required of the incumbent, and an employee may be directed to perform other reasonably related job duties and responsibilities. NAPI reserves the right to revise or change the job duties and responsibilities as the need arises, based on business need, and this position description may be updated accordingly. This position description does not constitute a written or implied contract of employment.*

General Duties & Responsibilities

1. Develop deliverables related to project initiation including feasibility studies, risk assessment, project proposals, resource management, project scheduling, and quality control procedures.
2. Monitor project progress, deliverables, quality control, and customer service. Report status to management and identify and resolve risks that impact project completion. Manage time and budget, initiate action to identify and resolve problems, and ensure goals are met. Coordinates planning, development, testing, documentation, and installation of project to ensure timely deliverables, project success and quality.
3. Adjusts resources as necessary to ensure project success and completion. Provide work direction and feedback to all team members. Provide guidance to team members on administrative and technical problems. Providing customer service by developing team behaviors and empowering team members to plan and execute work. Assist in staffing activities related to project.
4. Develop processes as necessary to ensure critical projects are completed; provide expertise in identifying appropriate methodologies for large-scale development efforts.
5. Coordinate and direct entitlement, design construction, and transfer of projects.
6. Consult or negotiate with clients to prepare project specifications.
7. Prepares and explains proposals, reports, and findings to clients and management.
8. Direct, review, and approve design, budgets and schedules.
9. Prepare weekly, monthly, quarterly, and annual reports to NAPI, NIIP, and BIA Offices
10. Perform administrative functions such as developing reports, approving expenditures, enforcing policy, and staff development.
11. Prepare budgets, bids, and contracts, and direct the negotiation of contracts.

12. Perform administrative functions on routine and major preventative maintenance of heavy equipment fleet.
13. Confer with management (Executive/Department/Crop) to discuss project specifications, updates, procedures and other relevant information on a consistent and timely basis.
14. Review and recommend sub-contracts and cost estimates, scopes of work, and budgets.
15. Coordinate and assist in the planning, design, and installation of irrigation systems, underground cables, PVC pipes, electrical cables, and 3-phase overhead electrical power lines
16. Maintain consistent communication with the Irrigation and Director of Operations-638/Government Relations concerning entitlements, design, and construction of farm development.
17. Develop and Implement Radio Telemetry unit in setting, monitoring, and programming systems to communicate with Base Station.
18. Prepare work orders for supplies or materials to complete construction projects
19. Maintain and catalog preventative and replacement maintenance on all Technical Services heavy equipment. Procurement of new or used or rebuilt heavy equipment.

#### Supervisory Duties and Responsibilities

20. Manages and supervises the work unit in keeping with applicable laws and regulations; and NAPI's policies, guidelines, and Navajo affirmative action policies.
21. Leads, directs and supervises reporting personnel including work procedures, workloads and work schedules by directing the workflow in such a manner as to promote productive efficiency of employees.
22. Identifies the developmental needs of employees in department and coaches, mentors, trains, or otherwise helps others to improve their knowledge or skills.
23. Manages performance of assigned direct reports and others in the work unit; conducts employee performance reviews for assigned staff, properly documents corrective action, performance improvement plans, and disciplinary actions, and salary adjustments in accordance with NAPI policy.
24. Ensures a safe working environment, and oversees compliance with applicable OSHA and other laws, regulations, and work rules concerning environmental safety and health by employees; assists with accident/injury investigations as directed by the Safety or HR department.
25. Establishes an effective flow of communication and information to ensure that problems can be responsibly solved and that support is provided to the staff as needed.
26. Observes, receives, and otherwise obtains information from all relevant sources as well as handling complaints, settling disputes and resolving conflicts or otherwise negotiating with others, and prepares reports of findings, in accordance with NAPI Policies & Procedures.

#### Other

27. Works collaboratively, cooperatively, and in coordination with fellow team members and with others in the organization, treats them with respect, courtesy and consideration, and shows understanding and the appropriate support of other team members to help get the job done.
28. Provides information, guidance and resources to diverse groups of customers, clients and others outside of the organization; treats them in a friendly manner with professionalism, helpfulness, respect, courtesy and consideration at all times regardless of circumstances.
29. Maintains regular, dependable attendance and punctuality, and physical presence at the assigned worksite; must interact directly with people or objects at the worksite on a regular basis. Communications technology may, for certain tasks and under certain circumstances, enable an employee to effectively perform some of the work-related duties from home on a temporary basis.
30. Performs other duties as assigned and which are deemed necessary or desirable by NAPI.

### **III. POSITION AUTHORITIES AND ACCOUNTABILITIES:**

#### General:

Position has a high level of line responsibility and high-level authority to make independent decisions over an assigned department or function. A person in this position has a high level of responsibility for a key operation or function.

**Results of Action:**

Decisions will have a high degree of impact on operations or services. Errors may result in significant disruption of operations or services or damage to operational activities. Errors in accuracy, judgment, tact or communication could result in a loss of productivity, and a significant loss of credibility and potential income for the organization. Failure to establish and monitor work schedules for the Department will result in an inability to meet deadlines and will delay the completion of records and other projects.

**Budgetary & Financial Resources Accountability:**

Position has high level of accountability for budgetary or financial decisions, and decisions will have a high degree impact on resource utilization within NAPI; responsible for a moderate level of impact on an operating budget for the Department.

**Equipment/Material Management & Accountability:**

Position has a high level of responsibility for equipment, material, or supplies; proper utilization is required plus accountability for first-echelon maintenance may be required; minimal authority and accountability for purchase within strict policy guidelines may be present.

**Confidential and Sensitive Information:**

- Incumbent has a high level of access to sensitive and proprietary company data, including but not limited to services, legal and financial data, and an essential job result is the maintenance of a high level of confidentiality of the information processed by the employee.
- Incumbent has a minimal level of access to personal and professional data regarding individual employees and their families, and to personal data regarding customers/clients/members and their families and must comply with the Fair and Accurate Credit Transactions Act (FACTA) to keep that data secure and private.
- Incumbent has no access to health data of employees and their families, and to health data of customers/clients/members and their families and must comply with the Health Insurance Portability and Accountability Act (HIPAA), to keep that data secure and private.

**Independence of Action; Supervision Received:**

The On-Farm Development Manager works under general supervision of the Director of Operations-638/Governmental Relations. Employee performs high level, complex management work, and performs a high level of analysis and problem-solving with a high degree of independence and discretion.

**Supervision Exercised:**

The On-Farm Development Manager has supervisory authority over all assigned staff, with proper delegation to other supervisors within the department. Determines work procedures, schedules and priorities. In addition to direct supervisory authority of this position, the On-Farm Development Manager may retain functional authority over specific projects or areas of responsibility as specified in this Job Description or otherwise delegated by the Director of Operations 638 and Government Relations.

**IV. POSITION QUALIFICATIONS AND REQUIREMENTS:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required for the position, but is not a comprehensive list. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

**Education and Experience:**

***Required:***

- Bachelor's degree from an accredited four-year college or university in Construction Management, Civil Engineering, Mechanical Engineering, or directly related discipline.

- Five (5) years progressive experience in Construction Management, design management, project management in a complex business environment.
- Five (5) years supervisory experience in an agricultural or construction environment.
- Certificate in Drafting, Electrical, and Electronics

*Substitution:*

- Ten (10) years of FLSA exempt-level experience in construction and project management may be substituted for the Bachelor's degree requirement.

Navajo Preference:

Navajo preference will be applied in accordance with the Navajo Preference in Employment Act (NPEA), it is Navajo Agricultural Products Industry's ("NAPI") goal and intention to strictly adhere to the NEPA in all employment practices and hire qualified Navajo Personnel for all positions. Tribal sovereignty support and Navajo preference initiatives are mandatory.

Language Requirements:

*Required:*

Ability to read and write English in order to understand and interpret written procedures and technical manuals. This includes the ability to give and receive instructions in written and verbal forms and to effectively present information and respond to questions from vendors, contractors, supervisors and co-workers.

*Preferred:*

Bi-lingual (English/Navajo)

Shared Responsibilities:

As a requirement of their employment, all NAPI employees are expected and required to follow and adhere to the following job responsibilities:

- Support the mission, vision, values, and goals of Navajo Agricultural Products Industry.
- Support excellence in our customer service philosophy and deliver excellent customer service both to internal and external customers.
- Adhere to all company policies and procedures.
- Follow all safety policies, guidelines, and work rules, and participate in trainings.
- Practice good stewardship of NAPI property and follow policy.
- Act in a professional manner at all times.
- Function from INTEGRITY, HONESTY, and LOYALTY in all activities concerning NAPI.
- Follow the current NAPI Strategic Plan initiatives.
- Maintain and support a team environment within the workgroup, and with other departments.
- Champion NAPI in the community.

Core Competencies:

Performs the essential functions and elements of this position competently, demonstrating adequate progress throughout the course of the introductory period of employment and continuing throughout employment with NAPI. A variety of personal competencies need to be demonstrated by everyone at NAPI, and include but are not limited to:

- **Quality/Compliance:** Achieving a standard of excellence with our work processes and outcomes, honoring NAPI policies and all regulatory requirements.
- **Customer focus:** Striving for high customer satisfaction, going out of our way to be helpful and pleasant, making it as easy as possible on the customer or client, rather than on self, department, or organization.

- **Communication:** Balancing listening and talking, speaking and writing clearly and accurately, influencing others, keeping others informed.
- **Collegiality:** Being helpful, respectful, approachable, and team oriented, building strong working relationships and a positive work environment.
- **Initiative:** Taking ownership of our work, doing what is needed without being asked, following through
- **Efficiency and Continuous Improvement:** Planning ahead, managing time well, being on time, being cost conscious, thinking of better ways to do things
- **Coachability:** Being receptive to feedback, willing to learn, embracing continuous improvement
- **Safety:** Comply with and actively support all workplace safety policies and practices.
- **Team Player:** able to work collaboratively with others in the organization, and to work well with diverse groups of people and gain and maintain respect of others, both inside and outside of NAPI.

**Knowledge, Skills and Abilities:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily the requirements listed below are representative of the knowledge, skill, and/or ability required to perform the essential functions of the position, but are not a comprehensive list:

- Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.
- Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, personnel information systems, and be familiar with the Navajo Preference in Employment Act.
- Knowledge in basic education and training to include principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.
- Knowledge of chemicals, herbicides, and pesticides.
- Knowledge of accounting, budgeting marketing, negotiation.
- Knowledge about proper use of GPS/GIS systems.
- Knowledge about irrigation construction
- Skill in planning, organizing, directing, and coordinating.
- Skill in leadership, management, and supervision.
- Skill in training, coaching, and developing skills of assigned personnel.
- Skill to read, analyze, and interpret highly complex documents
- Skill in analysis and interpretation of financial data, and in preparation of financial reports, statements and/or projections.
- Skill in active listening as this position communicates with all levels of company employees, board of directors, customers, and local governments.
- Skill in analyzing information and use logic to address work-related issues and problems.
- Skill in self-management; to manage one's own time and the time of others.
- Ability to develop, analyze, and interpret production schedules
- Ability to speak in public.
- Ability to use a computer and computer programs is required.
- Ability to use search engines, data queries, and assimilate printed information.
- Ability to communicate effectively orally and in writing in English. Navajo language is helpful.
- Ability to effectively lead, manage, supervise, coach, motivate, and develop assigned staff.
- Ability to be self-directed, developing one's own way of doing things, guiding oneself with little or no supervision.
- Ability to communicate effectively both orally and in written form information and ideas so other will understand.
- Able to be careful about detail and thorough in completing tasks.
- Ability to be persistent in the face of obstacles and being able to accept criticism and dealing calmly and effectively with high stress situations.

- Ability to be pleasant with others on the job and displaying a good-natured, cooperative attitude.
- Ability to be open to change (positive or negative) and to considerable variety in the workplace.
- Ability to be available 24 hours a day 7 days a week to meet deadlines.
- Ability to operate 4X4 Tractor, Row Crop Implements, Potato Processing Equipment, Forklift, Front-end loader, Backhoe, Dozer, Scraper, Trencher, and Company Vehicle.
- Ability to identify key policy issues and make recommendations to senior management officials.
- Ability to communicate in writing in order to develop and issue regulations, instructions, policy interpretation and guidelines.
- Ability to examine and re-engineer operations and procedures,
- Ability to formulate policy, and develop and implement new strategies and procedures.
- Ability to lead project teams, to include organizing, prioritizing, and scheduling work assignments.
- Ability to thrive in a fast-paced and pressured environment and must be able to shift to other functions and priorities as needed.
- Ability to do CAD Drafting
- Ability to read blueprints and schematics
- Ability to develop and implement departmental budget

#### Certification, Licenses and Registrations:

- Must have and maintain a current New Mexico, or Arizona driver's license, must have and maintain an NAPI-insurable driving record, and must provide proof of current liability insurance meeting or exceeding State-required minimum coverages.
- First Aid, CPR, Defensive Driving Course, HazWoper, and Pesticide Applicator's license.

#### Training Requirements:

- Must successfully complete all NAPI-required safety and other training
- Must successfully pass and maintain training certification in all state, NAPI, individual-specific, and/or other training requirements of the position and job assignment.
- Additional specific training requirements for this position may be required by NAPI.

#### Tools and Equipment Used:

- Standard office equipment, including desktop computer and standard MS-Office applications
- Sage Accounting Software, Microsoft (Excel, Word, PowerPoint, Outlook), Adobe Acrobat, AutoCAD, SCADA, Trimble and Project Management Tools
- Must be able to operate a company vehicle and a two-way radio.

#### Other:

- In accordance with the conditional offer of employment, individual must pass drug screen, and all NAPI, and other required background investigations.
- Additional drug screening and background investigations may be required depending on the job assignment, or job transfer.
- Must read and acknowledge NAPI's Non-disclosure agreement.

## **V. PHYSICAL & MENTAL DEMANDS and WORKING CONDITIONS**

The physical and mental demands, and working conditions described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. The physical and mental demands, and working conditions described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of this position.

NAPI maintains a comprehensive, detailed assessment of the physical and mental demands, and working conditions for this position, which are also included in the incumbent's employment file.

**Physical Effort and Demand:**

- None to insignificant physical demand is required to perform the work; an employee in this position frequently sits at a desk or workstation.

**Visual Acuity, Hearing, Speaking, Manual Dexterity:**

- Must have visual acuity and manual dexterity to perform timely and accurate data entry;
- Must be able to make individual, small group, and large group presentations as required by position

**Mental Demand:**

- Effective performance requires continual thinking and attention to work/detail demanded by the Knowledge, Skills and Abilities and essential functions of the job.
- Must be able to work non-standard work hours as required to fulfill job responsibilities.

**Environment/Working Conditions:**

- Little to no hazardous conditions exist in the work environment. The work environment is pleasant; only minimal negative physical factors exist.
- Above average amount of negative psychological factors; these factors must be addressed and considered in the performance of duties and have potential for a negative impact on job incumbents.

**Continued on next page.**

**VI. EMPLOYEE ACCEPTANCE:**

By my signature below, I certify that I have read my Job Description and understand my assigned responsibilities and have been given a copy of this Job Description.

Employee – please initial each of these statements below to indicate your agreement, in addition to your signature at the bottom of this page:

_____	I acknowledge that I have been given access to a print and/or electronic copy of the <b>Employee Policies and Procedures Handbook</b> and understand that I am responsible for reading and following all relevant policies and procedures outlined in it.
_____	I understand that I am responsible for following all departmental and job-specific policies, procedures, work rules, and other guidelines.
_____	I understand that neither the Board of Directors nor management of NAPI can guarantee my employment, and that NAPI can change compensation, benefits, and conditions of my employment at any time and at its full and sole discretion to meet business needs of NAPI.
_____	I further understand that the foregoing Job Description is not all-inclusive of the duties to which I may be assigned. To meet business needs, ensure maximum flexibility and efficiency, and to encourage cross training, I acknowledge that I may be assigned additional duties as are deemed necessary or desirable by NAPI.
_____	I acknowledge that NAPI also reserves the exclusive right to transfer, assign, or locate the incumbent to another job assignment within this job title for which I am qualified. Such transfer, re-assignment or re-location may be on either a temporary or regular basis and shall be done to meet the business needs of NAPI.
_____	I also certify that I can perform the essential functions of this Job Description either with or without a reasonable accommodation.
_____	I further acknowledge that this Job Description does not constitute a written or implied contract of employment with NAPI.

**Accepted and Acknowledged by:**

\_\_\_\_\_ Employee Signature Date

\_\_\_\_\_ Print Employee's Name

**Witnessed by:**

\_\_\_\_\_ NAPI Representative Signature Date

\_\_\_\_\_ Print NAPI Representative's Name and Job Title



## MEMORANDUM

**DATE:** March 29, 2022

**FROM:** Shawn Stout

**SUBJECT:** NIIP Block 7 Phase IIIB Drainage Investigation Memo

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NAPI uses a phased approach for the Block 7 subsurface drainage work. The drainage contractor completed Phase I of this drainage project in 2018 and Phase II in 2020. Each phase uses the priority areas and preliminary drainage alignments identified in the Block 7 Drainage Master Plan along with NAPI input to determine which area(s) to include in the detailed drainage investigation.

NAPI originally had a subsurface drain installation target of 27,000 ft for the Block 7 Phase III Drainage Project. Due to project timing and the need to develop right-of-way (ROW) for the subsurface drainage system, NAPI decided to postpone drainage construction from the winter of 2022 to the fall/winter of 2022 and 2023. The drainage target was also increased from 27,000 ft for Phase III to 37,000 ft for Phase IIIB. The priority areas selected for Phase IIIB include fields:

- 7-34B
- 7-35A
- 7-36A
- 7-44B
- 7-44C
- 7-45A
- 7-45B
- 7-49B

Other lower priority areas were also investigated to determine feasibility and to obtain additional drainage data that will help to prioritize future subsurface drainage work. These lower priority drainage investigation areas include fields:

- 7-31A
- 7-31B
- 7-38A
- 7-39A
- 7-39B
- 7-40B

The Phase IIIB detailed drainage investigation occurred in January and February 2022 (Table 1). A manual soil auger was used for all of the soil logs. The results of the drainage investigation are in the maps in Attachment A and the soil logs in Attachment B. The barrier data are in the attachment GIS shapefiles.

The depth to drainage barrier and depth to barrier are documented in the drainage assessment. The drainage barrier is a layer where the peak drainage coefficient exceeds the permeability of this layer – perching the water and often causing drainage problems. The depth to barrier documents the depth to bedrock (shale/sandstone) or heavy, compacted clay. Sometimes, the drainage barrier may consist of a perching lense that impacts the soil profile drainage, and the barrier (bedrock) is deeper. There is often no perching layer, and the depth to barrier and drainage barrier values are the same.

**Table 1. Block 7 Drainage Project Soil Log Data Collected by KB**

Company	Date (Mo-Yr)	Count	Description
KB	Feb-22	74	Phase IIIB Detailed Drainage Investigation
KB	May-21	78	Phase III Detailed Drainage Investigation
KB	Jun-21	85	Phase III Detailed Drainage Investigation
KB	Jun-19	98	Phase II Detailed Drainage Investigation
NAPI	Mar-19	10	Reconnaissance-Level Investigation
NAPI	Feb-19	2	Reconnaissance-Level Investigation
KB	Feb-19	75	Reconnaissance-Level Investigation
KB	Aug-18	10	Drain Performance Study

Three priority areas have been selected for Phase III: Drain 736 (Figure 1), Drain 745 (Figure 2), and Drain 746 (Figure 3). NAPI has a construction target of 37,000 ft for this phase of the Block 7 subsurface drainage project. Table 2 shows the subsurface drain lengths by drain and phase, and Figures 1 through 3 show the drain names for reference. The total length for the drains shown in Figures 1 through 3 is 37,265 ft. Below is a discussion of the proposed subsurface drainage systems.

#### **Drain 736**

The drainage investigations show water tables less than 4 feet deep throughout a significant portion of the Drain 736 alignment, particularly in Fields 7-36B and 7-37A (Figure A-2, Attachment A). This area is generally highly suitable for subsurface drainage. But water table perching layers and shallow depths to barrier in some areas add complexity and impact the subsurface drainage layout and designs. This drain is expected to perform similarly to nearby Drains 721 and 727.

Drains 736\_1 was added in Phase IIIB to drain the east side of Field 7-36B (Figure 1). The east edge of this field has barrier issues, so Drain 736\_1 has a 500 ft spacing to avoid the shallow barrier. There is a 600 ft spacing between Drains 736 and 736\_2. Due to the extent of Field 7-36B with the water table less than 4 ft deep (Figure A-2, Attachment A), approximately 7,570 ft of subsurface drain is required in this field. This drain layout would cost roughly \$2,200 per acre based on Clark's 2017 bid indexed to 2022 dollars using Bureau of Reclamation Construction Cost Trends data. If NAPI decides to minimize disturbance to this alfalfa field until the end of the crop rotation, select drains can be postponed. In that case, additional drainage can be installed at another location to meet the target (See Drain 746 Extension Alternative).

The Drain 736-3\_2 alignment in Field 7-49B was adjusted to avoid the shallow barrier in the southwest side of the field (Figure 1). The first 1,300 ft of this drain is higher priority. As the drain alignment shifts to the south, the depth to water increases and is lower priority (Figure A-2, Attachment A). This drain eventually will be the collector drain for 7-48A and 7-49A, so it extends to the Southwest boundary of 7-49B to allow future connection. We recommend extending the drain out of the field as it is being constructed to facilitate future construction.

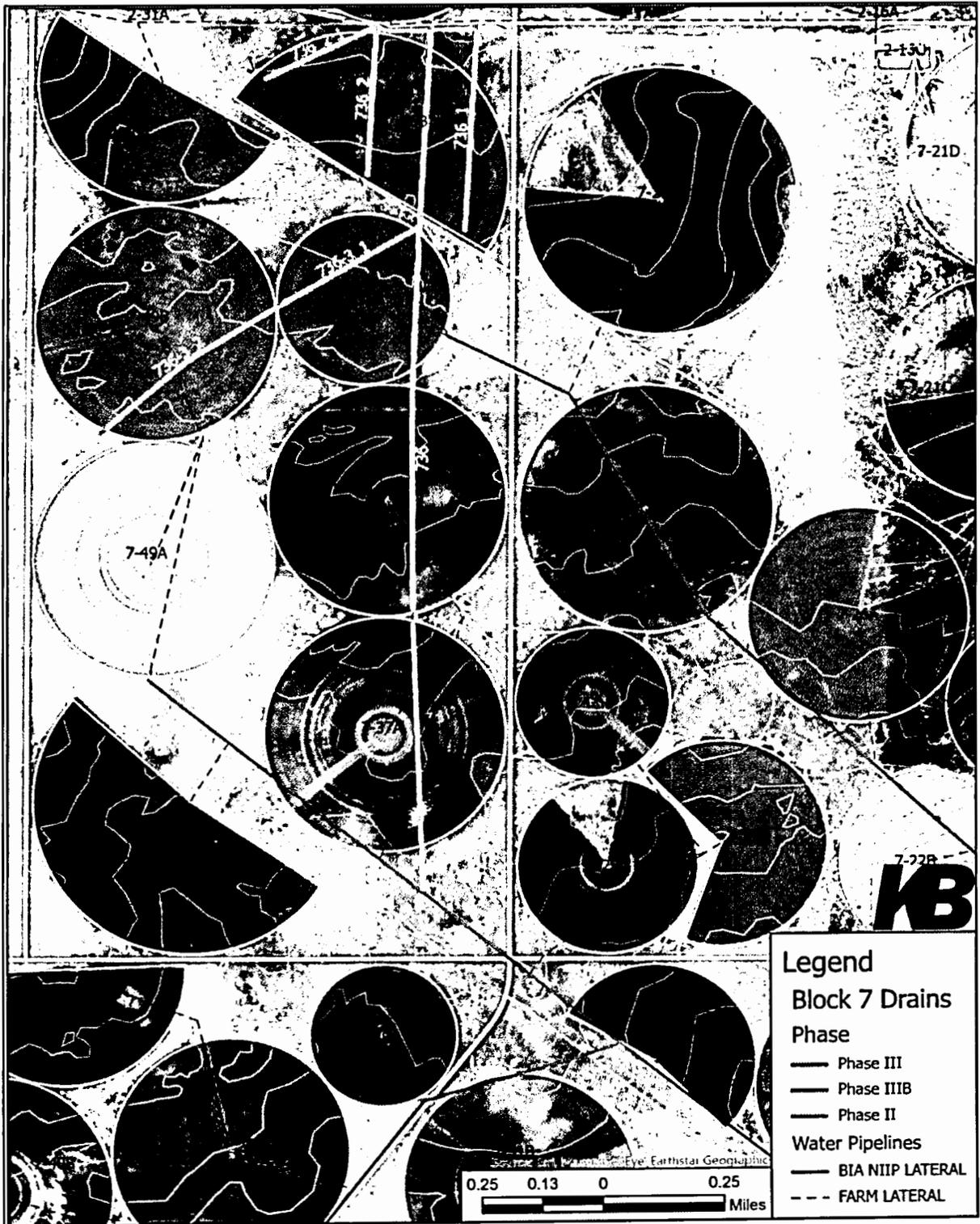


Figure 1. Block 7 Phase III & IIIB Drain 736 Drainage System

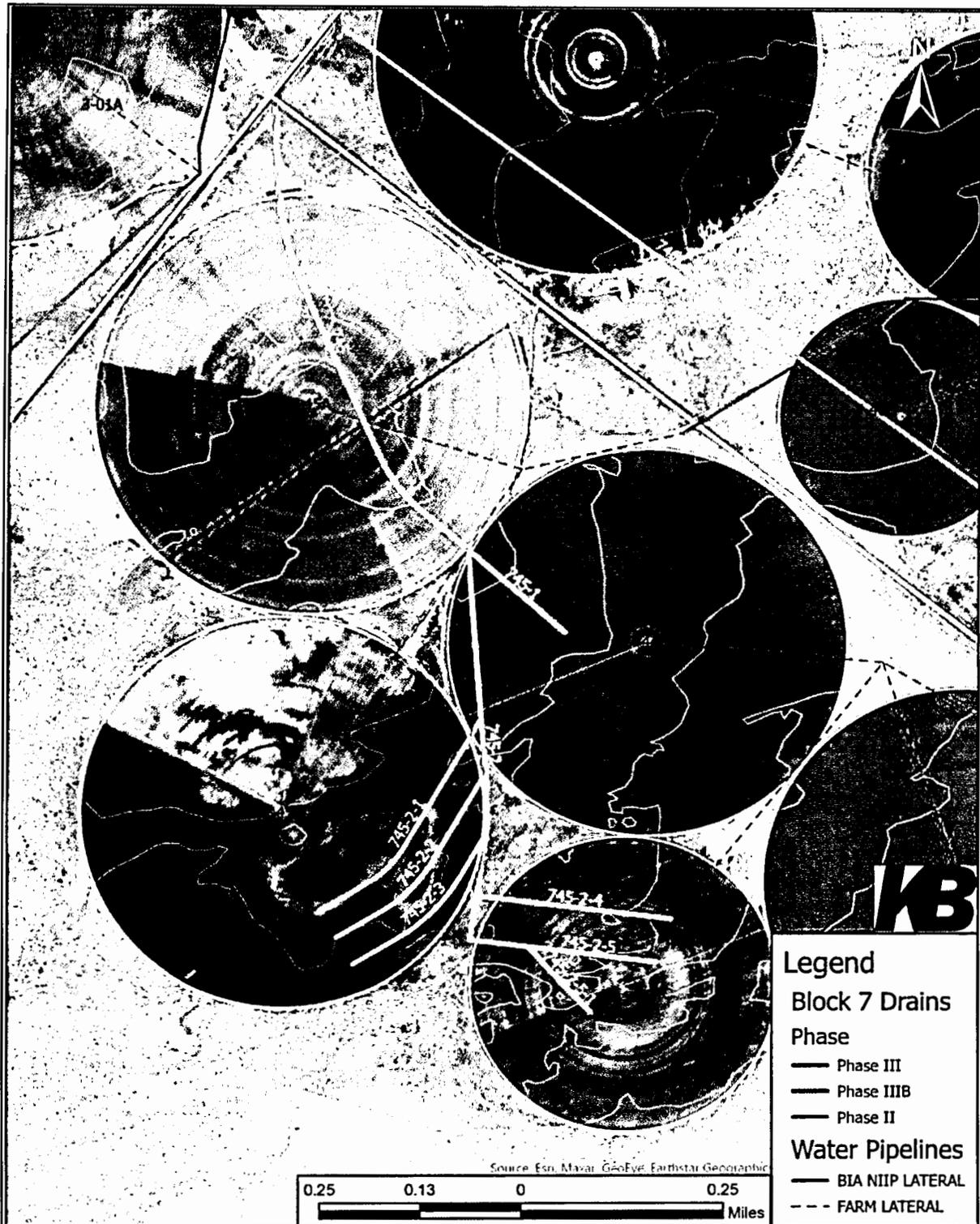


Figure 2. Block 7 Phase III & III B Drain 745 Drainage System



Figure 3. Block 7 Phase III & IIIB Drain 746 Drainage System

**Table 2. Drain Lengths by Name and Phase**

<b>Drain Name</b>	<b>Length (ft)</b>	<b>Phase</b>	<b>Drain</b>
736	9,717.7	III	736
736_1	2,305.8	IIIB	736
736_2	1,714.4	III	736
736_2-1	1,346.0	III	736
736-3_1	1,802.8	III	736
736-3_2	2,374.5	IIIB	736
745	3,374.3	III	745
745-1	841.9	III	745
745-2	2,650.5	III	745
745-2-1	1,714.0	IIIB	745
745-2-2	1,514.3	III	745
745-2-3	1,263.0	IIIB	745
745-2-4	1,278.6	III	745
745-2-5	1,222.7	III	745
745-2-5-1	604.6	III	745
746-3	3,125.6	IIIB	746
<b>Drain 736</b>	<b>19,261.2</b>		
Phase III Subtotal	14,580.9		
Phase IIIB			
Subtotal	4,680.3		
<b>Drain 745</b>	<b>14,463.9</b>		
Phase III Subtotal	11,486.9		
Phase IIIB			
Subtotal	2,977.0		
<b>Drain 746</b>	<b>3,125.6</b>		
Phase III Subtotal	0.0		
Phase IIIB			
Subtotal	3,125.6		
<b>Total</b>	<b>36,850.7</b>		
Phase III Subtotal	26,067.8		
Phase IIIB			
Subtotal	10,782.9		
<b>Target</b>	<b>37,000.0</b>		
<b>Remaining</b>	<b>149.3</b>		

**Drain 745**

Fields 7-45A, 7-45B, and 7-44C are priority drainage areas for NAPI. This area typically has heavier, and in many cases, stratified soils, with shallow barrier in portions of the fields. The water tables are less than 4 feet deep throughout significant portions of Fields 7-44C and 7-45B (Figure A-4, Attachment A). The detailed drainage investigation results show the following areas

with heavy, stratified soils and shallow drainage barrier conditions not suitable for subsurface drainage:

- The low-lying area west of the 7-45A pivot point
- The fallow portion of 7-45B (north quadrant)
- The low-lying area between the 7-45B pivot point and Drain 745-2-1 (Figure 2)

Due to these findings, the Drain 745 alignments were realigned to target the areas most conducive to subsurface drainage (Figure 2). These low-lying areas to be drained in 7-44C and 7-45B fill with water during irrigation season, making harvesting adjacent areas difficult. The wet area in 7-45B northwest of drain 745-2-1 also fills with water but is not currently drainable. To drain this area, it is estimated that about 6,000 cubic yards (CY) of fill would be required. is a sandy hill between fields 7-44C and 7-45A that has approximately 17,000 CY of primarily loamy sand fill available with more available to the south. The fill would reduce surface drainage and ponding and increases the depth to barrier for subsurface drainage. Because both fill and subsurface drainage is required for this area, it will be very expensive to drain.

The southeast quadrant of Field 7-45A is drainable, but due to heavier soils and shallow barrier conditions, the drain will be constructed at or near the barrier at approximately 4.5 to 6 ft. The barrier gets shallower moving south to north in the southeast quadrant. The minimum drain invert depth is 4.5 ft to minimize root intrusion plugging. Drain 745-2-1 is placed as far north as possible while maintaining the 4.5 ft target depth (Figure 2). The average depth to barrier is approximately 5.1 ft along the Drain 745-2-1 alignment. The average depth to barrier increases in Drain 745-2-2 and 742-2-3 to approximately 5.4 ft and 5.6 ft, respectively. The average drain spacing required is 200 ft between these three drains (Figure 2). This spacing and the three drains are required to maintain depth to water tables of no less than 4 ft. This drain layout would cost about \$4,250 per acre to drain the SE quadrant (roughly 30 acres). One of the drains could be eliminated to reduce cost but the water table would rise to 2-3 ft between the drains, reducing the effectiveness of the drain field. We recommend that NAPI seriously consider the economics of installing these drains since it is not possible to reclaim the fallow portion of this field and fill and subsurface drainage is required to drain the large ponding area SE of the pivot point.

### **Drain 746**

Drain 746-3 was included in Phase IIIB to achieve the 37,000 ft target. This drain extends Drain 746 into Field 7-35A and requires a road crossing (Figure 3). Most of the boreholes drilled between Field 7-34B and 7-35A and along the east side of Field 7-35A recorded water tables depths between 2 and 4 ft. There is a weather shale layer encountered at 5 to 7 ft in less than half of the holes in this area. This drain is expected to perform similarly to Drain 746 in Field 7-42A where drainage conditions have improved significantly along the low-lying areas of this field.

### **Drain 746 Extension Alternative**

There are several areas where the current subsurface drain layout for Phase III could be reduced if the target changes or NAPI would prefer to minimize disturbance in alfalfa fields. KB uses a conservative approach when designing the subsurface drainage systems, meaning additional drainage may be necessary in the future. However, subsurface drains placed at shallower depths due to barrier conditions are not as efficient and may experience root intrusion plugging over time, requiring periodic jetting. Significant drainage is required for Fields 7-36B, 7-44C and 7-45B due to the extent of the drainage problem coupled with depth to barrier constraints that limit drain depth, particularly in Field 7-45B. These proposed layouts are subject

to NAPI's review and discussion to determine any drains they would prefer not to install in this phase. The following are areas where drainage systems could be reduced:

- Drain 736 south of Field 7-37A. Approximately 460 ft could be dropped without impacting drainage in Field 7-37A. The extra length is to facilitate future drain construction to the south.
- Drain 736-3\_2. The last 1,000 to 1,120 ft of this drain is lower priority because the water table depth is over 6 ft deep. We recommend extending this drain outside the field boundary as it is a collector drain for future fields to the south, but it could be shortened to save cost now.
- Drains 745-2-1, 2 and 3 are high cost per acre and Field 7-45B cannot be fully drained because of shallow depth to barrier.

Alternatively, if NAPI wants to prepare to drain Fields 7-39A, 7-39B and 7-40B, a portion of Drain 746-1 (Figure A-7, Attachment A) could be constructed to hit NAPI's target of 37,000 ft. The total preliminary length of Drain 746-1 is 10,527 ft.

## Other Drainage Investigation Areas

### **Fields 7-39A, 7-39B & 7-40B**

Fields 7-39A, 7-39B, and 7-40B are some of the primary areas to be drained by Drain 746-1 – the drain extension alternative (Figure A-7). Field 7-39A has water tables less than 4 ft deep on the east one-third of this half-circle pivot (Figure 4). Borehole 739B4 is located in the middle of the east area, where drainage issues are evident. The depth to water table was 3.58 ft in February 2022. There are some surface drainage and infiltration issues at this site caused by a heavy sandy clay loam layer in the top 2.4 ft of the soil profile. Deep tilling this area and building soil organic matter would improve surface drainage and infiltration issues. The tilling/organic matter coupled with subsurface drainage would help mitigate drainage impacts in this field.

Field 7-39B has documented water table depths less than 4 ft deep in the northwest quadrant (Figure 4). In general, the conditions are favorable for subsurface drainage. Borehole 739A2 encountered a silty clay drainage barrier at less than 4 ft deep along the north edge of the field, but these conditions appear to be localized.

Field 7-40B has a section that has been fallowed due to drainage issues in the northwest quadrant (Figure 4). Near the middle of this fallowed section, a clay layer was encountered at about 3 ft and is almost 2 feet thick (Boreholes 740B1 & 740B4). Both holes were dry when drilled, but these readings do not reflect conditions under irrigation. This clay layer perched the water table during past irrigation, causing NAPI to fallow this portion of the pivot. This stratified condition is not conducive to subsurface drainage. However, other boreholes along the edge of the fallowed acreage did not encounter the perching clay layer and would be appropriate for subsurface drainage. The subsurface drainage system could break up the perching layer to alleviate some of the water table build up on the perching layer. However, the clay layer needs to be broken up throughout the fallow area to eliminate the drainage issues caused by the perched table that occurs with irrigation. Due to the depth, the only alternative is deep ripping using a bulldozer. Based on the Caterpillar Handbook of Ripping<sup>1</sup>, the D8 is capable ripping to 62 inches using a deep ripping shank. This shank is long enough to penetrate the clay layer encountered, but this shank costs approximately \$11,000 to \$14,000. It does not make sense to

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<sup>1</sup> [https://www.echoframe.com/doc/handbook\\_of\\_ripping\\_caterpillar.pdf](https://www.echoframe.com/doc/handbook_of_ripping_caterpillar.pdf) (p.30)

purchase the shank for this small area, but if other areas on NIIP have similar issues that NAPI would like to reclaim, this may be a viable alternative.

**Fields 7-31A, 7-31B & 7-38A**

Fields 7-31A and 7-31B have water tables less than 4 ft deep in the northwest quadrant of Field 7-31A and the north quadrant of Field 7-31B. The currently available data shows a perching drainage barrier that varies between 1.75 to 4.33 ft deep (Boreholes 731B5 & 736B6). Two road crossings would be required to extend Drain 736 into this area. Field 7-38A should continue to be monitored, but the water tables are currently over 5 ft deep on the east side of the field.

The proposed layout in Figures 1 through 3 is recommended for Phase 3. However, the layout is subject to NAPI's review and can be modified based on changing economic constraints or the decision to minimize disturbance in select alfalfa fields. The Block 7 drainage conditions are complex with variable soil and barrier conditions. Drainage conditions continue to change throughout NIIP and should be closely monitored to identify trends and aid in prioritizing drainage efforts.



**Figure 4. Depth to Water (ft) for Fields 7-39A, 7-39B, and 7-40B**



**Figure 5. Depth to Water (ft) for Fields 7-39A, 7-39B and 7-40B**

Attachments: Blk7\_Soil\_Logs\_2018-2021\_20220310ss.zip (Soil Logs 2018-2021)  
Blk7\_Soil\_Logs\_Feb2022\_20220315ss.zip (Soil Logs Jan/Feb 2022)

**Attachment A: Block 7 Drainage Phase III Maps**



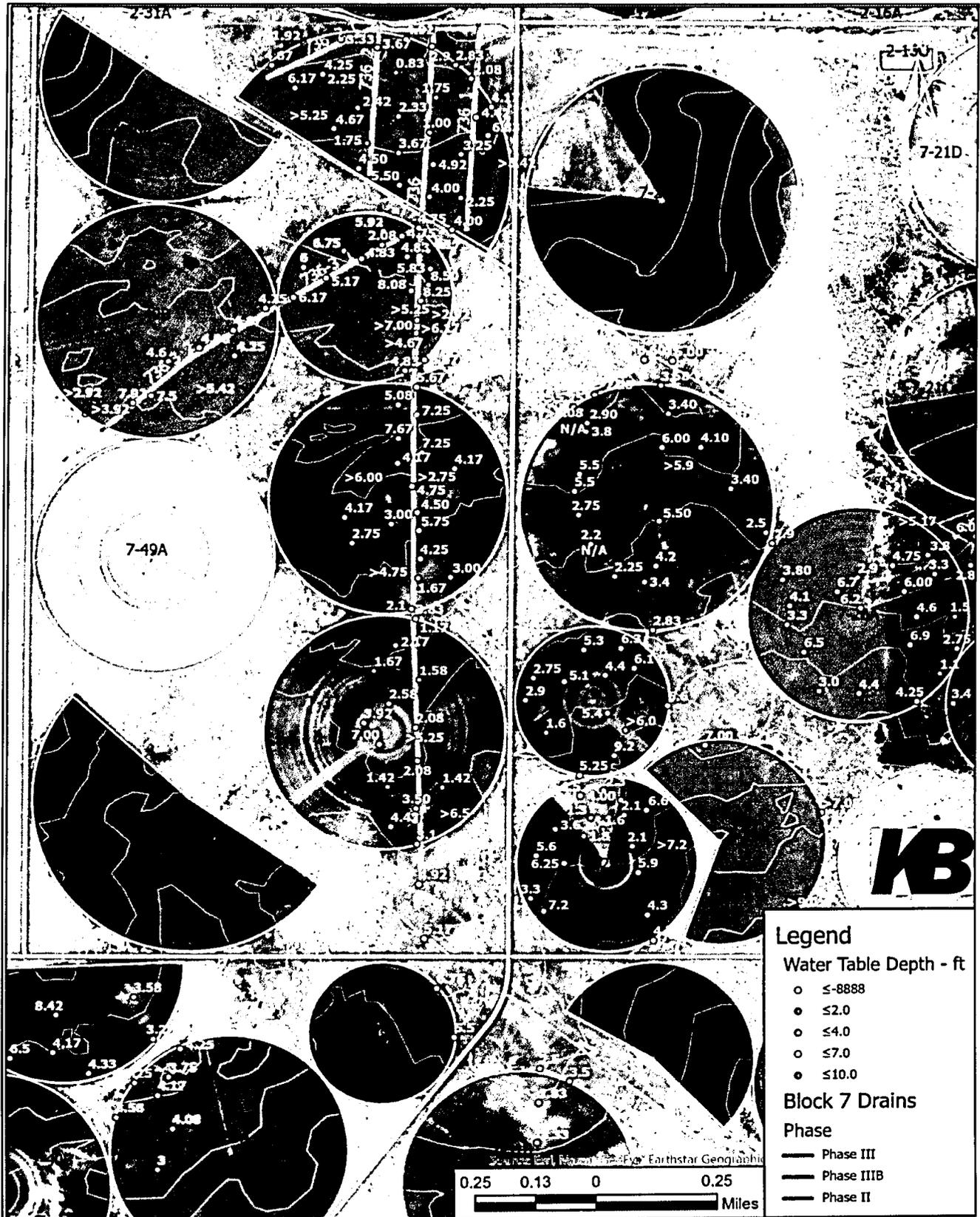


Figure A-2. Block 7 Phase III & III B Drain 736 Depth to Water Table

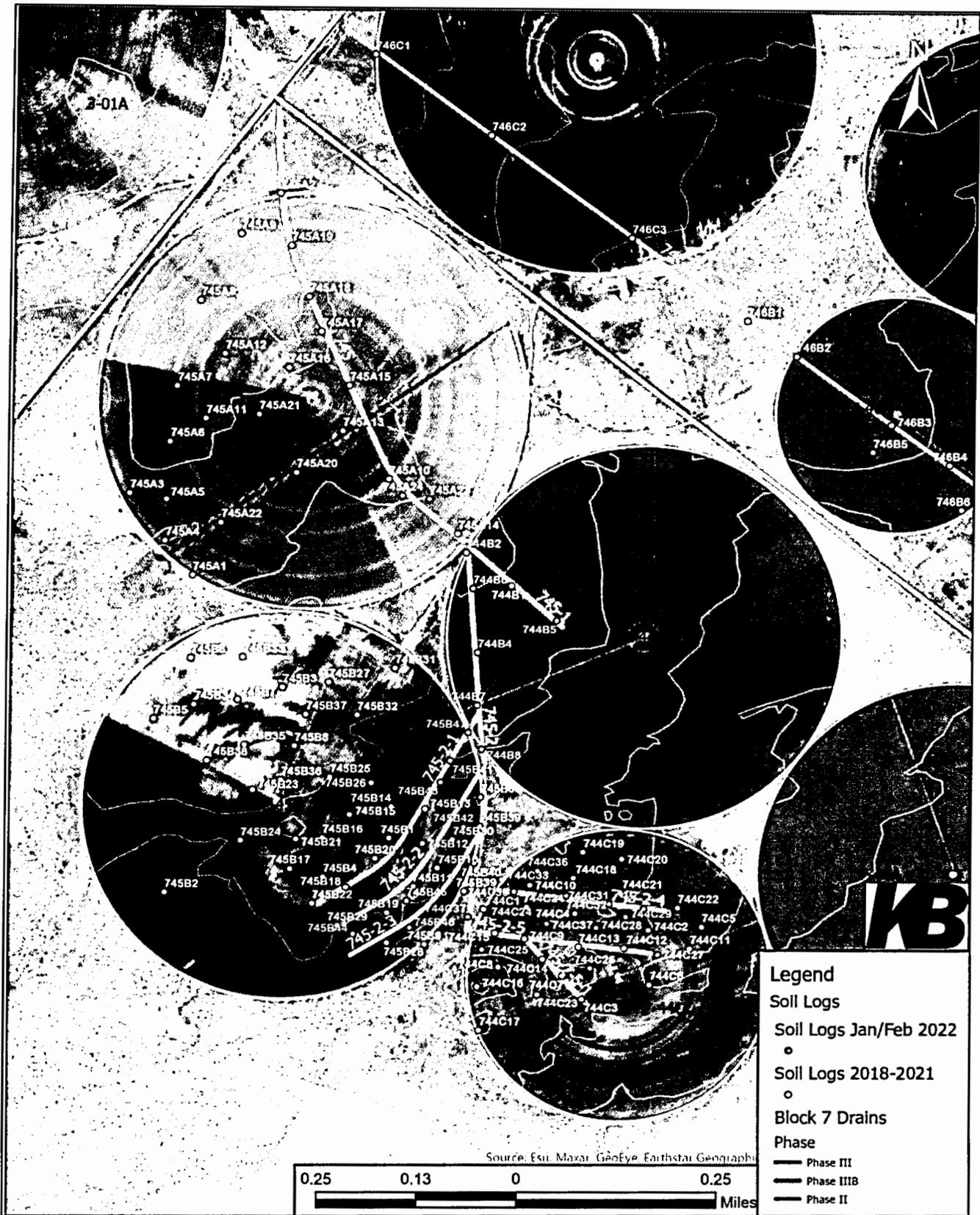


Figure A-3. Block 7 Phase III & III B Drain 745 Borehole Locations

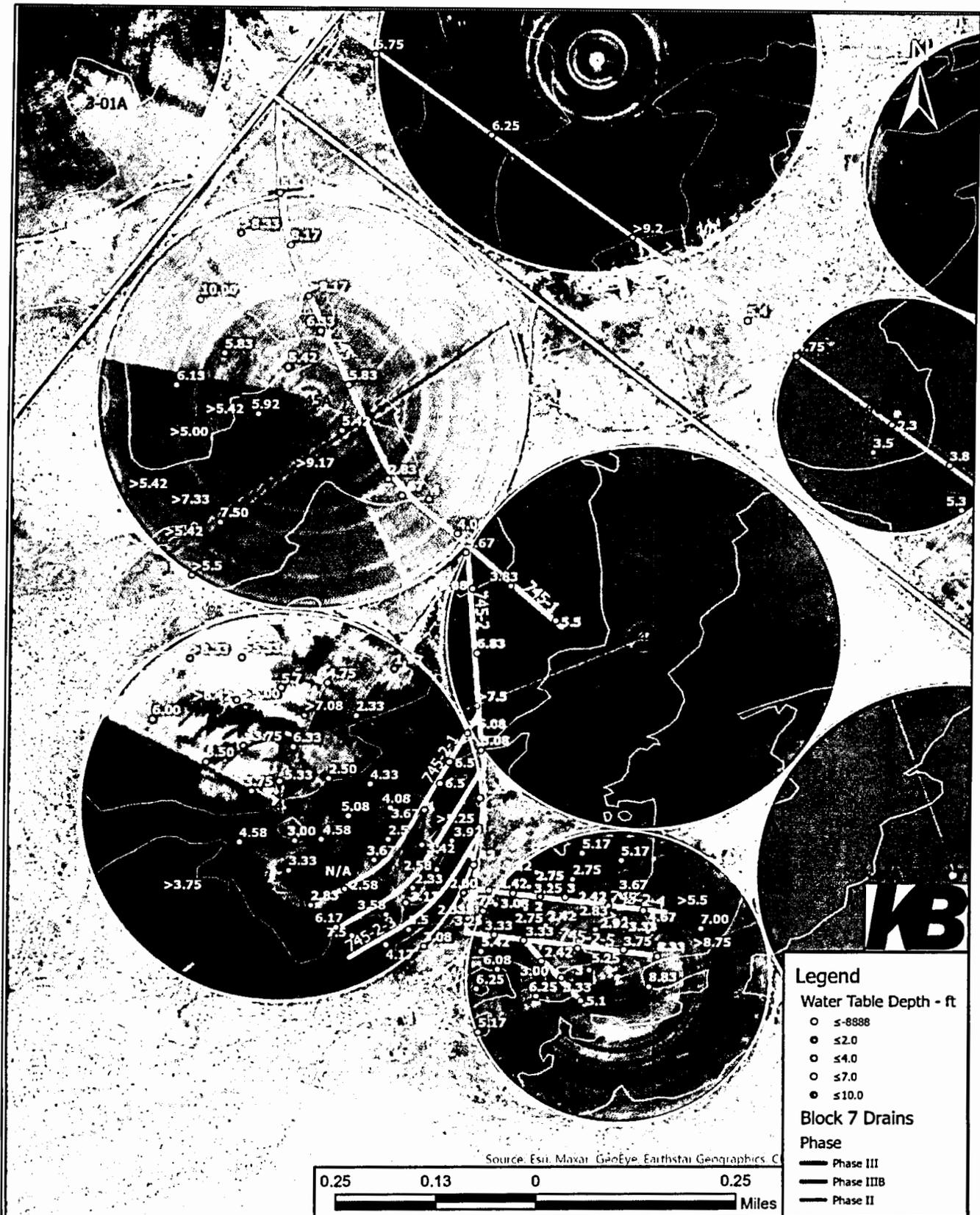


Figure A-4. Block 7 Phase III & IIIB Drain 745 Depth to Water Table

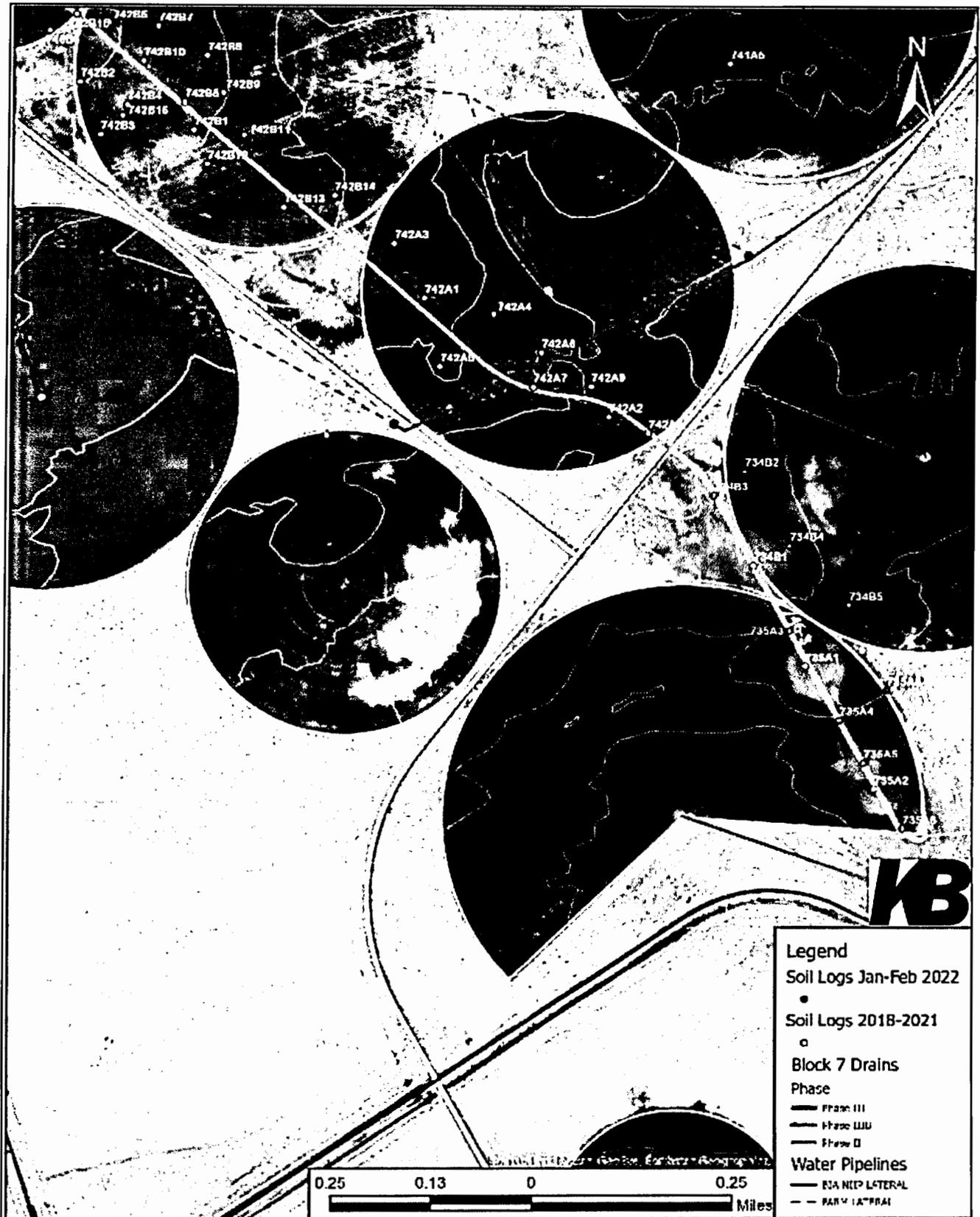


Figure A-5. Block 7 Phase III & IIIB Drain 746 Borehole Locations

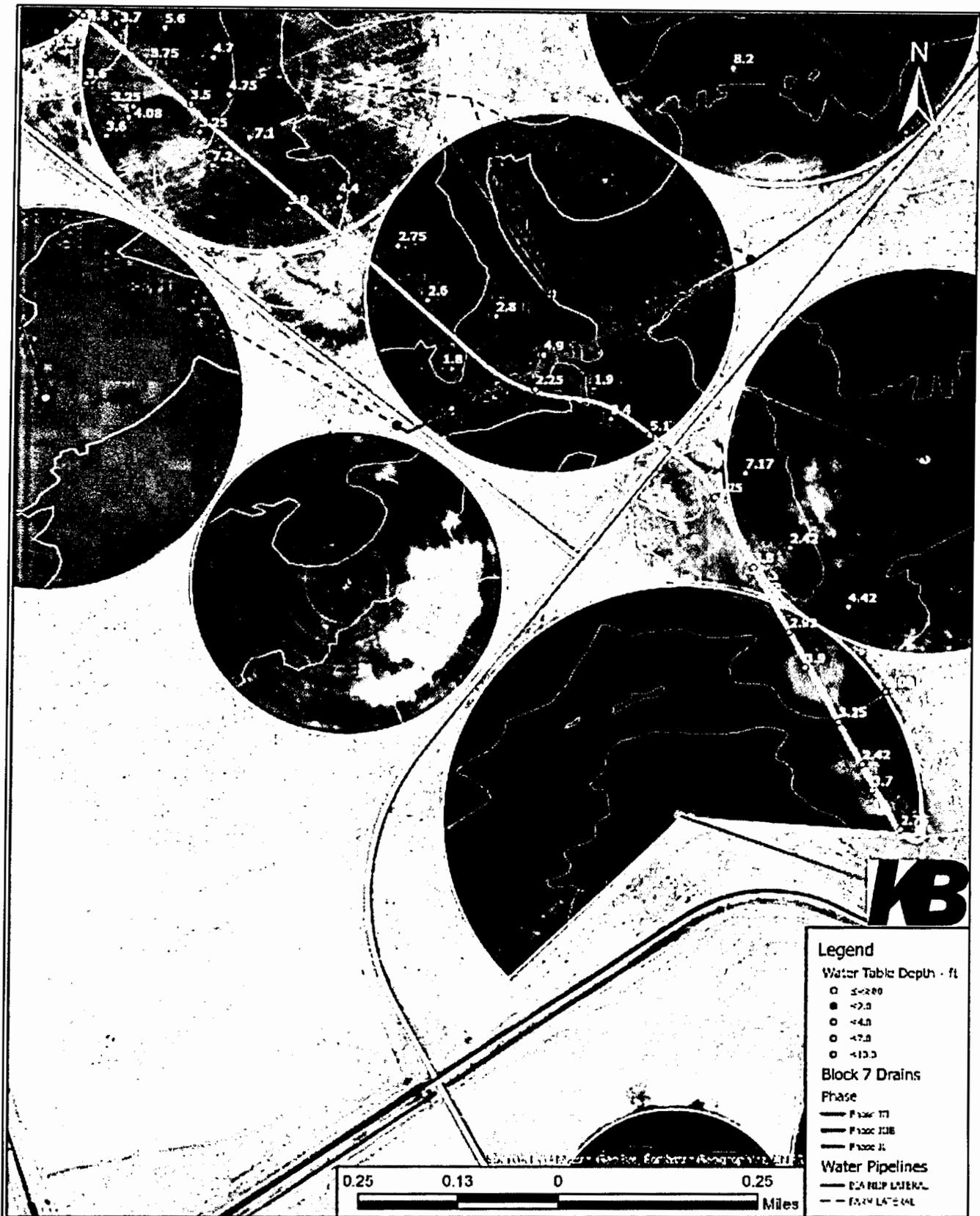


Figure A-6. Block 7 Phase III & IIIB Drain 746 Depth to Water Table



## Attachment B: Drainage Investigation Soil Logs

In this attachment, Block 7 drainage investigation soil logs completed by Keller-Bliesner Engineering (KB) in January and February 2022. The locations of these boreholes are shown in Figures A-1, A-3 and A-5. Soil log locations from 2018 to 2020 are included in Figures A-1 through A-7.

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**Hole:** 731A3  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.75 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-57	Sandy Loam	
57-84	Sandy Clay Loam	Hole Sloughing

---

**Hole:** 731A4  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.42 ft  
**Depth to Barrier:** Greater than 6 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-72	Sandy Loam	

---

**Hole:** 731B3  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.5 ft  
**Depth to Barrier:** Greater than 5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-41	Sandy Loam	
41-52	Silty Clay Loam	Drainage Barrier
52-60	Sandy Loam	Sloughing

---

**Hole:** 731B4  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 4.5 ft  
**Depth to Barrier:** 3.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-31	Loamy Sand	
31-46	Silty Clay Loam	Calcic
46-54	Silty Clay	Green/White – Barrier – Weathered Shale

---

**Hole:** 731B5  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.83 ft  
**Depth to Barrier:** Greater than 5.67 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-52	Sandy Loam	
52-68	Sandy Clay Loam	Calcic Mottling – Drainage Barrier

---

**Hole:** 731B6  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.33 ft  
**Depth to Barrier:** Greater than 4.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-17	Sandy Loam	
17-21	Sandy Clay Loam	
21-26	Sandy Clay	Drainage Barrier
26-58	Sandy Clay Loam	

---

**Hole:** 734B2  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 7.17 ft  
**Depth to Barrier:** Greater than 7.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-6	Loamy Sand	
6-53	Sandy Loam	
53-82	Loamy Sand	
82-94	Silty Clay Loam	Green/White – Drainage Barrier

---

**Hole:** 734B3  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.25 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-33	Loamy Sand	
33-57	Sandy Loam	
57-79	Coarse Loamy Sand	
79-84	Silty Clay Loam	Green/White – Drainage Barrier

---

**Hole:** 734B4  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.42 ft  
**Depth to Barrier:** Greater than 5.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-12	Sandy Loam	
12-56	Sandy Clay Loam	
56-66	Silty Clay Loam	Green – Drainage Barrier

---

**Hole:** 734B5  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.42 ft  
**Depth to Barrier:** Greater than 7.33 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-70	Sandy Loam	
70-76	Sandy Clay Loam	
76-88	Sandy Loam	

---

**Hole:** 735A3  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.92 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-46	Sandy Loam	
46-52	Loamy Sand	
52-78	Sandy Loam	
78-84	Silty Clay Loam	Green, Weathered Shale – Drainage Barrier

---

**Hole:** 735A4  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.25 ft  
**Depth to Barrier:** Greater than 7.75 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-64	Loamy Sand	
64-93	Sandy Loam	Hole Sloughing

---

**Hole:** 735A5  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.42 ft  
**Depth to Barrier:** 6.58 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-58	Sandy Loam	
58-64	Loamy Sand	
64-79	Sandy Loam	
79-84	Silty Clay	Green – Weathered Shale – Diggable

---

**Hole:** 735A6  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.75 ft  
**Depth to Barrier:** Greater than 6.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-78	Loamy Sand	Hole Sloughing

---

**Hole:** 735A7  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.75 ft  
**Depth to Barrier:** Greater than 5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-60	Sandy Loam	Hole Sloughing

---

**Hole:** 735A8  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.08 ft  
**Depth to Barrier:** Greater than 5.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-13	Loamy Sand	
13-70	Sandy Loam	Hole Sloughing

---

**Hole:** 736A20  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6 ft  
**Depth to Barrier:** Greater than 6 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-5	Loamy Sand	
5-50	Sandy Loam	
50-78	Loamy Sand	
78-100	Sandy Loam	

---

**Hole:** 736A21  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.75 ft  
**Depth to Barrier:** Greater than 7.67 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-30	Sandy Loam	
30-56	Loamy Sand	
56-92	Sandy Loam	

---

**Hole:** 736A22  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 5.92 ft  
**Depth to Barrier:** Greater than 8.25 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-28	Sandy Loam	
28-37	Sandy Clay Loam	Calcic Mottling
37-63	Sandy Loam	Some Calcic Mottling
63-68	Clay Loam	Heavy Clay Loam
68-99	Sandy Loam	

---

**Hole:** 738A2  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.75 ft  
**Depth to Barrier:** Greater than 8 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-29	Sandy Loam	
29-44	Sandy Clay Loam	
44-57	Sandy Loam	
57-96	Loamy Sand	

---

**Hole:** 739A2  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.25 ft  
**Depth to Barrier:** Greater than 5.25 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-25	Loamy Sand	
25-41	Sandy Clay Loam	
41-57	Silty Clay	Drainage Barrier
57-63	Sandy Loam	Compacted

---

**Hole:** 739A3  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.75 ft  
**Depth to Barrier:** Greater than 6 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-61	Loamy Sand	
61-72	Sandy Loam	Hole Sloughing

---

**Hole:** 739A4  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.58 ft  
**Depth to Barrier:** 6.33 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-70	Loamy Sand	
70-76	Silty Clay Loam	Calcic Soil
76-80	Silty Clay	Barrier

---

**Hole:** 739A5  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.17 ft  
**Depth to Barrier:** Greater than 7.08 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-79	Loamy Sand	
79-85	Sandy Clay Loam	

---

**Hole:** 739A6  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.08 ft  
**Depth to Barrier:** 6.75 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-41	Sandy Loam	
41-47	Silty Clay Loam	Perching Layer
47-64	Sandy Clay Loam	
64-81	Silty Clay Loam	
81-85	Silty Clay	Barrier

---

**Hole:** 739A7  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3 ft  
**Depth to Barrier:** Greater than 6.75 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-31	Sandy Loam	
31-35	Gravelly Sandy Loam	
35-77	Sandy Loam	
77-81	Sandy Clay	Drainage Barrier

---

**Hole:** 739B2  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.5 ft  
**Depth to Barrier:** Greater than 8 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-29	Loamy Sand	
29-36	Sandy Loam	
36-43	Clay Loam	
43-62	Silty Clay Loam	Calcic Soil
62-78	Sandy Loam	
78-83	Loamy Sand	
83-96	Coarse Loamy Sand	

---

**Hole:** 739B3  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 8.42 ft  
**Depth to Barrier:** Greater than 9 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-27	Sandy Loam	
27-45	Loamy Sand	
45-57	Sandy Clay Loam	
57-61	Sandy Loam	
61-68	Silty Clay Loam	Calcic Mottling
68-94	Sandy Loam	Calcic Mottling
94-108	Sandy Clay Loam	

---

**Hole:** 739B4  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.58  
**Depth to Barrier:** Greater than 4.67 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-14	Sandy Clay Loam	Compacted – Perching
14-29	Sandy Loam	
29-56	Sandy Clay Loam	Calcic

---

**Hole:** 739B5  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.33 ft  
**Depth to Barrier:** Greater than 6.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-45	Loamy Sand	
45-57	Sandy Clay Loam	
57-78	Silty Clay Loam	

---

**Hole:** 739B6  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.25 ft  
**Depth to Barrier:** Greater than 6.08 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-69	Loamy Sand	
69-73	Sandy Loam	

---

**Hole:** 740B4  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 5.17 ft  
**Depth to Barrier:** Greater than 5.17 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-39	Loamy Sand	
39-58	Sandy Clay	Rust – Drainage Barrier
58-62	Sandy Loam	Rust – Compacted

---

**Hole:** 740B5  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 8.17 ft  
**Depth to Barrier:** 7.58 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-26	Loamy Sand	
26-80	Sandy Loam	
80-91	Sandy Clay Loam	Green/White - Drainage Barrier
91-98	Clay	Green/White - Barrier

---

**Hole:** 740B6  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.25 ft  
**Depth to Barrier:** Greater than 6 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-50	Loamy Sand	
50-57	Sandy Loam	
57-61	Silty Clay Loam	Calcic
61-72	Sandy Loam	Compacted – Hole Sloughing

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**Hole:** 744B4  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.83 ft  
**Depth to Barrier:** Greater than 8 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-18	Sandy Loam	
18-40	Clay Loam	Calcic Mottling
40-48	Silty Clay	Light Green – Drainage Barrier
48-57	Sandy Loam	
57-68	Sandy Clay	Light Green
68-77	Sandy Clay Loam	
77-96	Sandy Loam	

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**Hole:** 744B5  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 5.5 ft  
**Depth to Barrier:** Greater than 8.17 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-34	Sandy Loam	
34-50	Sandy Clay Loam	Calcic Mottling
50-61	Sandy Loam	Light Sandy Loam
61-98	Coarse Sand	

---

**Hole:** 744B6  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 5.08 ft  
**Depth to Barrier:** Greater than 6.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-27	Sandy Loam	
27-46	Sandy Clay Loam	
46-54	Sandy Loam	
54-60	Sandy Clay	Drainage Barrier
60-65	Sandy Clay Loam	
65-78	Sandy Clay	

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**Hole:** 744B7  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 7.5 ft  
**Depth to Barrier:** Greater than 7.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-40	Sandy Loam	
40-54	Silty Clay Loam	Calcic Mottling
54-60	Silty Clay	Green-White Weathered Shale Drain Barrier
60-78	Clay Loam	Calcic Mottling
78-90	Sandy Clay	Gray/Rust – Calcic Mottling

---

**Hole:** 744B8  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.08 ft  
**Depth to Barrier:** Greater than 5.33 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-46	Loamy Sand	
46-57	Sandy Clay	Rust Brown/White
57-60	Sandy Clay Loam	Compacted
60-64	Sandy Clay	Compacted

---

**Hole:** 744C24  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.08 ft  
**Depth to Barrier:** Greater than 6.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-49	Sandy Loam	
49-78	Clay Loam	Calcic Mottling, Compacted

---

**Hole:** 744C25  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 5.42 ft  
**Depth to Barrier:** Greater than 7.25 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-87	Loamy Sand	

---

**Hole:** 744C26  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3 ft  
**Depth to Barrier:** Greater than 6 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-53	Loamy Sand	
53-72	Sandy Loam	Hole Sloughing

---

**Hole:** 744C27  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 8.33 ft  
**Depth to Barrier:** Greater than 8.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-98	Loamy Sand	
98-101	Sandy Clay	
101-106	Sandy Loam	

---

**Hole:** 744C28  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.92 ft  
**Depth to Barrier:** Greater than 5.08 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-4	Sandy Clay Loam	
4-22	Loamy Sand	
22-36	Sandy Loam	
36-49	Loamy Sand	
49-56	Silty Clay Loam	Compacted
56-61	Sandy Clay	

---

**Hole:** 744C29  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.33 ft  
**Depth to Barrier:** Greater than 5.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-37	Loamy Sand	
37-47	Sandy Loam	
47-66	Silty Clay Loam	Compacted, Drainage Barrier

---

**Hole:** 744C30  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.67 ft  
**Depth to Barrier:** Greater than 7.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-39	Loamy Sand	
39-55	Sandy Loam	
55-60	Sandy Clay Loam	
60-94	Sandy Loam	Heavy

---

**Hole:** 744C31  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.42 ft  
**Depth to Barrier:** Greater than 6.92 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-41	Loamy Sand	
41-57	Sandy Clay Loam	
57-75	Sandy Loam	
75-83	Sandy Clay	Drainage Barrier

---

**Hole:** 744C32  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3 ft  
**Depth to Barrier:** Greater than 7.08 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-23	Loamy Sand	
23-85	Sandy Loam	Compacted

---

**Hole:** 744C33  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.75 ft  
**Depth to Barrier:** Greater than 6.08 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-46	Sandy Loam	
46-54	Silty Clay Loam	Drainage Barrier
54-73	Sandy Clay Loam	Compacted

---

**Hole:** 744C34  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-84	Sandy Loam	Hole Sloughing

---

**Hole:** 744C35  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.42 ft  
**Depth to Barrier:** 5.83 ft

---

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-46	Sandy Loam	
46-63	Sandy Clay Loam	Calcic Mottling, Drainage Barrier
63-70	Sandy Loam	Compacted
70-72	Sandy Clay	Barrier

---

**Hole:** 744C36  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.92 ft  
**Depth to Barrier:** Greater than 6.5 ft

---

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-65	Loamy Sand	
65-74	Sandy Loam	
74-76	Sandy Clay	Calcic Mottling - Drainage Barrier
76-78	Silty Clay	Green/White

---

**Hole:** 744C37  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.42 ft  
**Depth to Barrier:** Greater than 5.58 ft

---

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-59	Loamy Sand	
59-67	Clay	Rust/Gray – Drainage Barrier

---

**Hole:** 744C38  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 2.33 ft  
**Depth to Barrier:** Greater than 4.5 ft

---

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-48	Sandy Loam	
48-54	Silty Clay	Green/White - Weathered Shale

---

**Hole:** 744C39  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 7.75 ft  
**Depth to Barrier:** Greater than 9 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-94	Loamy Sand	
94-104	Sandy Loam	
104-108	Silty Clay	Green/White Weathered Shale – Drainage Barrier

---

**Hole:** 745A23  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-42	Loamy Sand	
42-80	Sandy Loam	
80-84	Silty Clay Loam	Calcic

---

**Hole:** 745A24  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.67 ft  
**Depth to Barrier:** Greater than 7.17 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-39	Sandy Loam	
39-70	Sandy Clay Loam	
70-86	Sandy Loam	

---

**Hole:** 745B38  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.17 ft  
**Depth to Barrier:** 7.92 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-38	Sandy Loam	
38-50	Sandy Clay Loam	
50-95	Clay Loam	Light Green – Compacted Heavy Clay Lome
95-97	Silty Clay	Rust/White
97-100	Gravelly Loam	Green – Near Bedrock

---

**Hole:** 745B39  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4 ft  
**Depth to Barrier:** Greater than 8.33 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-10	Sandy Loam	
10-37	Sandy Clay Loam	
37-68	Sandy Loam	
68-73	Sandy Clay Loam	Calcic Mottling
73-100	Sandy Loam	

---

**Hole:** 749B4  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.17 ft  
**Depth to Barrier:** Greater than 8.42 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-35	Sandy Loam	
35-101	Loamy Sand	Hole Sloughing

---

**Hole:** 749B5  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.08 ft  
**Depth to Barrier:** Greater than 8.33 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-30	Sandy Loam	
30-100	Loamy Sand	Hole Sloughing

---

**Hole:** 749B6  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.25 ft  
**Depth to Barrier:** Greater than 8.17 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-23	Sandy Loam	
23-30	Loamy Sand	
30-42	Sandy Loam	
42-54	Loamy Sand	
54-98	Sandy Loam	Hole Standing/Moderate Structure

---

**Hole:** 749B7  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 5.42 ft  
**Depth to Barrier:** Greater than 5.42 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-44	Sandy Loam	
44-54	Loamy Sand	
54-65	Sand	

---

**Hole:** 749B8  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 7.5 ft  
**Depth to Barrier:** Greater than 8.25 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-14	Sandy Loam	
14-30	Loamy Sand	
30-34	Sandy Loam	Calcite Mottling
34-54	Sandy Clay Loam	Calcite Mottling
54-58	Loamy Sand	
58-70	Sandy Loam	
70-79	Loamy Sand	
79-85	Sandy Loam	
85-89	Sandy Clay	Calcic Mottling – Drainage Barrier
89-99	Loamy Sand	

---

**Hole:** 749B9  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 7.92 ft  
**Depth to Barrier:** Greater than 8 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-34	Sandy Loam	
34-49	Sandy Clay Loam	Caliche Mottling
49-74	Sandy Loam	
74-88	Loamy Sand	Moderate Soil Structure
88-96	Coarse Sand	

---

**Hole:** 749B10  
**Date:** 1/31/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 2.92 ft  
**Depth to Barrier:** Greater than 2.92 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-10	Sandy Clay Loam	
10-35	Silty Clay Loam	Light Green, Weathered Shale

---

**Hole:** 745B40  
**Date:** 2/1/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 4.42 ft  
**Depth to Barrier:** Greater than 7.5 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-82	Loamy Sand	
82-85	Sandy Clay Loam	
85-90	Silty Clay	Light Green/White

---

**Hole:** 745B41  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.5 ft  
**Depth to Barrier:** Greater than 8.42 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-58	Loamy Sand	
58-95	Sandy Loam	
95-101	Sandy Clay Loam	

---

**Hole:** 745B42  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 5.25 ft  
**Depth to Barrier:** 4.83 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-31	Loamy Sand	
31-58	Sandy Loam	
58-63	Silty Clay	Green/White - Barrier

---

**Hole:** 745B43  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 6.5 ft  
**Depth to Barrier:** Greater than 7 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-34	Loamy Sand	
34-41	Sandy Loam	
41-52	Silty Clay Loam	Light Brown – Calcic
52-61	Sandy Loam	Compacted
61-69	Coarse Loamy Sand	
69-75	Clay	Drainage Barrier
75-84	Sandy Loam	Compacted

---

**Hole:** 745B44  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 7.5 ft  
**Depth to Barrier:** Greater than 8 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-86	Loamy Sand	
86-96	Sandy Loam	

---

**Hole:** 745B45  
**Date:** 2/2/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.17 ft  
**Depth to Barrier:** 5.17 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-53	Loamy Sand	
53-62	Sandy Loam	Moderate Compaction
62-66	Silty Clay	Green – Barrier - Shale

---

**Hole:** 745B46  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** 3.5 ft  
**Depth to Barrier:** 4.42 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-46	Loamy Sand	
46-51	Clay Loam	Calcic Mottling
51-53	Sandy Loam	Compacted – Drainage Barrier
53-58	Clay	Barrier

---

**Hole:** 745B47  
**Date:** 2/3/22  
**Logged:** Shawn Stout, Keller-Bliesner Engineering  
**Excavation:** Soil Auger  
**Depth to Water Table:** Greater than 5.08 ft  
**Depth to Barrier:** 4.58 ft

<u>Depth (in)</u>	<u>Texture</u>	<u>Note</u>
0-38	Loamy Sand	
38-43	Sandy Clay Loam	Calcic Mottling
43-55	Silty Clay Loam	Heavy, Compacted – Drainage Barrier
55-61	Silty Clay	Barrier

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**ATTACHMENT 3**

**Scope of Work for Agricultural Testing & Research  
Laboratory**

**&**

**Water Quality Monitoring**



**NAVAJO  
PRIDE**

**SCOPE OF WORK  
For  
Agricultural Testing & Research  
Laboratory**

**Calendar Year 2026**

**Navajo Indian Irrigation Project**

**Public Law 93-638  
Contract Number A26AVxxxxx**

**Dineh John  
Agricultural Testing and Research  
Laboratory Manager**

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## SECTION ONE

### 1.0 INTRODUCTION

Our primary goal for the Agricultural Testing and Research Laboratory (ATRL) is to provide efficient, precise, and accurate analytical and technical support to Navajo Agricultural Products Industry (NAPI) personnel. The ATRL performs various chemical constituents, immunoassays, and microbiological analysis. Services provided within the ATRL department also include plant damage analysis, crop fertility recommendations, and fertilizer program management.

The ATRL is capable of selecting selected chemical constituents of soil, plant tissue, water, fertilizer, and feed using state-of-the-art analytical equipment. Immunoassays procedures are used to determine Mycotoxin (Vomitoxin and Aflatoxin) concentration for NAPI grains such as corn, wheat, and flour. For requested products, Microbiological analysis is conducted to better identify harmful microorganisms that can cause spoilage of NAPI products. Tests include Aerobic Plate Counts, E.coli, Coliform, Yeast, Mold, Salmonella, and Listeria to ensure food safety.

ATRL Calendar-Year (CY) 2024 operating budget is funded through a federal fund supporting P.L. 93-638. On average, 59% (\$254,000) of budget is dedicated to ATRL personnel and remaining 41% (\$177,000) budget is apportioned to operating expenditures. The operating expenditures are testing supplies and reagents, equipment purchases, maintenance and repairs, proficiency testing and accreditation costs.

High quality work is a prerequisite in serving the needs of ATRL clients. ATRL clients are NAPI Crop Managers, NAPI Contractors, Navajo Nation organizations, New Mexico State University, and Navajo Nation community members. ATRL department performs tests on over 4,000 samples annually. All test results performed by ATRL are reported to the Chief Operating Office, Crop Managers and Supervisors to aid their decision-making processes.

ATRL Scope of Work includes activities the ATRL will perform and complete during the CY 2026.

### 1.1 STATEMENT OF WORK (SOW)

The ATRL offers multiple services to clients. To provide further detail regarding budget framework and work criterion, individual narrative statements have been included.

#### **Environmental Studies**

The Laboratory will continue to select, develop, document, and verify the recommended analytical processes for NAPI by determining trace organic and inorganic chemicals in water and soil extracts from samples drawn from the NIIP. Procedures used are from the "Soil, Plant, and Water Reference Methods for the Western Region" (Gavlak, 2003) and laboratory equipment requirements in order to provide high standard results. The technical aspects of our procedures may include, but are not limited to, near infrared spectrometry, solid phase extraction,

inductively coupled plasma spectrometry (ICP), combustion analysis, and digestion.

In response to anticipated needs, the NIIP/BIA Office and NAPI have initiated a group of tests under the environmental classification. There are three available which are pesticide residue, drainage water quality, and irrigation water quality. During irrigation months, we collect seven monthly water irrigation samples from canal, irrigation systems, and run-off sites to monitor nutrient and microbial levels. Water from processing facilities (Fresh Pack, Bean Plant, Granary, and Navajo Mesa Farms) are collected once a month throughout the entire year to monitor microbial levels. For analysis, these samples are sent to Midwest Laboratories which is ISO 17025 certified. Region One and Region Two Canal irrigation water is also submitted to AGQ Laboratories for heavy metal analysis. Each sample cost approximately \$100. Each sample cost approximately \$245 for irrigation months (February-October) and \$75 for facilities during closed irrigation months (November-January).

The results are monitored for spikes in chemical concentrations which would red flag the department of possible problems upstream. Microbiological results are monitored for colony counts and possible biological hazards upstream or in facilities.

### **Soils Lab Operation**

There are seven sub-groups of technical activities assigned to the ATRL. These are (1) Soil Analysis, (2) Plant Tissue Analysis, (3) Water Analysis, (4) Fertilizer Analysis, (5) Quality Testing for potatoes, grains, and forage (protein, fiber content, nitrates, and/or prussic acid) (6) Livestock Feed Analysis, and (7) Microbiological Analysis.

For continued certification, our participation in Laboratory Proficiency Programs is vital due to the assessment of our testing accuracy and precision. Every quarter, we participate in the National Forge Testing Association (NFTA), North American Proficiency Testing Program (NAPT) and the NIRS Consortium.

The ATRL analyzes soils before farming operations begin to locate potential soil problems or identify unique characteristics. On an annual basis, prior to each cropping season, all fields are tested to determine levels for each of the primary nutrients. The individual histories give NAPI a base point to determine fertilizer needs for any given crop on any given field.

During the growing season on a routine basis, NAPI submits plant tissue samples of each crop to be analyzed by the ATRL for various nutrient levels. Since 1997, the volume of tissue testing has remained around 4,000 samples per year, with as many as twelve analyses being performed per sample. These tests are essential to NAPI's agronomy advisers and crop managers in making appropriate and economically feasible decisions in crop production.

A measure of ATRL value to NAPI can be calculated by the total amount of premium NAPI receives for crops that exceed certain minimal values. For example, alfalfa crop price is based on quality and marketing; NAPI needs to determine the protein and fiber percentages of the hay produced. Hay

guaranteed to have a protein level of 20% or more (or a Relative Feed Value above 170) warrants a premium price. With NAPI alfalfa production approaching 100,000 tons annually, any premium can add substantially to NAPI. The proximity of the ATRL and the excellent level of service means that NAPI can keep statistical records to justify higher market prices for its products.

As a quality assurance measure, crops at NAPI are monitored and tested throughout the year. Before harvest and during customer storage shipments, samples are collected and tested. Analytical tests such as vomitoxin, aflatoxin, moisture, protein percentages and/or microbial counts are conducted to determine quality of the crop prior to harvest and customer shipments.

It has become necessary in recent years to support the marketing of corn, wheat, and flour by providing mycotoxin testing (vomitoxin and aflatoxin). Corn buyers will reject shipments that exceed one part per million in vomitoxin. Wheat and flour buyers will reject shipments that have aflatoxin exceeding three parts per million. The test kits for these analytical procedures are expensive because of the technique used and the accuracy with which the test must be performed.

Having the capability to test all crops daily at the ATRL significantly decreases the wait time for product results and lower costs. Our goal is to decrease the turnaround time for results so in the event of quality issues, we can notify the crop or plant manager quicker.

#### Budget Walk-Thru:

- Environmental Studies
  - Outside Services, Sub-Contract, Consultant is for third party water testing laboratory
- Soil Lab Operation
  - Office Supplies is supplies needed by Laboratory Technicians.
  - Supplies can be chemicals, parts, kits, glassware, etc. needed to complete laboratory testing and NAPI apparel.
  - Operations Labor and Burden/Benefits is for Laboratory Technicians.
  - Outside Services, Sub-Contract, Consultant services: such as annual preventative maintenance on equipment (FOSS, Spectro-ICP, LaChat, and Leco), DI water systems, chemical disposals systems, proficiency testing fees, specific technical support of laboratory equipment, required third party laboratory testing (Midwest, Servi-Tech, etc.), replacement of aging laboratory equipment (Chemical hoods, ICP, pipettes, soil grinders, and sample drying ovens), external storage building and contracted services (GSA costs, Lab Coat sanitation services, Pest Tech, AT&T, etc.).
  - Equipment rental is for chemical gas cylinders and emergency rental lab equipment, if necessary.
  - Travel & per diem is for Laboratory Technicians

- Soil Fertility Research
  - Outside Services is to cover samples sent to outside laboratory for NRCS soil fertility improvement verification.
- Soil Parasitic Research
  - Outside Services is to cover samples sent to outside laboratory for parasitic testing such as nematodes.
- Laboratory Management & Admin
  - Supplies is supplies needed by Laboratory Manager
  - Tuition and Fees is for trainings and conferences attended
  - Outside Services, Sub-Contract, Consultant is for services requested specifically for Laboratory Manager such as requesting assistance in updated methods.
  - Travel & Per Diem is for Laboratory Manager
  - Trade Journal is for journals selected to keep the Laboratory Manager updated on new equipment and possible methods.

**Government Property/Carryover**

Various items are provided to ATRL by the Bureau of Indian Affairs (BIA) are laboratory equipment, furniture, and fixtures. The items are no longer listed as government property until such time as the Self-Determination Act is completely implemented. In the interim, new items will be acquired, under authority of the contract and by the NIIP/BIA office.

**1.2 WORK SCHEDULE**

The Statement of Work (SOW) activities are scheduled to occur in accordance with the operational requirements of NAPI. From a historical perspective, the various functions must occur in close proximity to the times shown in Table 1.

**Table 1.** Analyses performed by Agricultural Testing and Research Laboratory.

	<u>Type:</u>	<u>Analyses</u>	<u>Schedule</u>
SOIL	Standard	pH, Plant available nutrients: NO <sub>3</sub> -N, P, K, Mg, Na, Ca, Zn, Fe, Mn, Cu	Year round (July to April)
	Special	Texture, Saturated Paste, Salinity, Organic Matter, Nitrate	
PLANT	Routine	Elements: TN, P, K, Mg, Na, Ca, Zn, Fe, Mn, Cu, S, B	May to August
	Chipper QT1	Glucose, Sucrose	August to June
	Potato – Petiole	NO <sub>3</sub>	June to August
	Potato – whole leaf	Elements: TN, P, K, Mg, Na, Ca, Zn, Fe, Mn, Cu, S, B	June to August
	Watermelon	Brix %	July to August
FORAGE	Alfalfa	Protein, Moisture, ADF, NDF, RFV, GMO	Year round

	Alfalfa Grass	Protein, Moisture, ADF, NDF, RFQ, GMO	Year round
	Feed Quality	Protein, Moisture, NDF, NO <sub>3</sub> , Ca, P	Year round
	Hay Grazer	Protein, Moisture, Nitrates, Prussic Acid	Year round
	Cover Crop	Protein, Moisture, Nitrates, Prussic Acid	Year round
GRAINS	Corn Quality	Moisture, Vomitoxin, Aflatoxin	Year round
	Wheat	Moisture, Crude Protein, Vomitoxin, Aflatoxin, GMO	Year round
	Beans	Moisture	Year round
	Barley	Moisture, Crude Protein	Year round
WATER	Basic	Elements: P, K, Mg, Ca, Zn, Fe, Mn, Cu, B, Cl; pH; Nitrate; Salinity, Heavy Metals	Year round
FERTILIZERS	Basic	Moisture, Elements: P, K, Mg, Ca, Zn, Fe, Mn, Cu, B	Year round
MICROBIOLOGICAL	Basic	APC, E.coli, Coliform, Yeast, Mold, Salmonella, Listeria	Year round

## SECTION TWO

### 2.0 AUTHORIZED REPRESENTATIVES

The Management Board of NAPI, by submission of this proposal delegate's contract signature authority to NAPI Chief Executive Officer, Dave Zeller with Management Board concurrence, will subsequently appoint or affirm the Contractor's Representative, responsibility for the day-to-day administration of the CY 2026 Contract.

### 2.1 POSITION DESCRIPTIONS

The Positions in the ATRL operation include: Lab Manager, Laboratory Supervisor, Lab Tech III, Lab Tech II, and Lab Tech I. See attached

#### References

Gavlak, R., Horneck D., Miller, RO., Koturby-Amacher, J. (2003) Soil, Plant, and Water Reference Methods for the Western Region, 2<sup>nd</sup> Ed. (WCC-103 Publication). Ft. Collins: Colorado State University.



8. Develop and maintain Standard Operation Procedure (SOP) for all lab methods used by staff.
9. Develop and maintain efficient data and reporting system.
10. Manages laboratory safety programs.
11. Procures equipment as needed. Maintains instruments and physical facility.
12. Presents training seminars to NAPI staff as requested or needed.
13. Prepares, justify, and manages departmental budget.

Performs other related duties and assignments as specified in the contract (638).

**Education, prior work experience, and specialized skills and knowledge:**

- This job requires a Masters Degree in Soil Science or other closely related disciplines; a PhD is preferred.
- Requires a minimum of 1 year laboratory related experience with a strong background in analytical chemistry and production agriculture.
- Requires the incumbent to have a valid driver's license with an acceptable driving record.
- This job requires the incumbent to have ability to communicate information and ideas so others will understand both verbally and in written form; ability to speak in Navajo is highly preferred.
- Must possess knowledge of a good safety program. This includes uses of chemicals and their interactions, danger signs, and disposal methods.
- This job requires analyzing information and using logic to address work-related issues and problems.
- This job requires being careful about detail and thorough in completing work tasks.
- Requires a willingness to take on responsibilities and challenges.
- Requires being reliable, responsible, and dependable, and fulfilling obligations.
- Requires being persistent in the face of obstacles.
- Requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks
- Requires accepting criticism and dealing calmly and effectively with high stress situations

**Physical environment and working conditions:**

This job requires you to work in the laboratory environment with the presence of compressed gas and chemicals, as well as outside elements when conducting field research.

**Physical Demands**

Strength	Hearing	Kneeling
Stamina	Visual Acuity	Squatting
Physical Flexibility	Visual Color Perception	Twisting

Reaction Time                      Sitting                                      Standing  
Whole Body Steadiness      Manual Dexterity                                      Walking  
Lifting 50# minimum

**Business machines and computer software used:**

Ability to operate basic and advanced laboratory tools such as, but not limited to, scales, meters, ICP, LECO Carbon and Nitrogen Analyzer, NIR Spectrometer, Flow Injection Auto Analyzer (FIA) a Company Vehicle, a Company Computer or Laptop, and all common computer software, such as Microsoft Office Suite and Famous software.

**Other factors, such as access to confidential information or contact with the public:**

Must read and acknowledge NAPI's Non-disclosure agreement.

I have reviewed the above job description and have an understanding of my job duties. I understand I will be evaluated on each of the duties described above.

\_\_\_\_\_ Employee \_\_\_\_\_ Date  
\_\_\_\_\_ Supervisor \_\_\_\_\_ Date

Created July 23, 2009 by Human Resources  
Revised May 23, 2013



NAVAJO AGRICULTURAL PRODUCTS INDUSTRY (NAPI)  
**POSITION DESCRIPTION**

<b>JOB TITLE:</b>	<b>LABORATORY Supervisor</b>	<b>JOB CODE:</b>	
		<b>PAY GRADE:</b>	SU
<b>DEPARTMENT:</b>	Agricultural Testing & Research	<b>PAY STATUS:</b>	Full-time / Salary
<b>REPORTS TO:</b>	Laboratory Manager	<b>REGULAR/SEASONAL:</b>	Regular
<b>APPROVED BY:</b>	, Human Resources Manager	<b>DATE APPROVED:</b>	_/_/2020

**I. POSITION FUNCTION SUMMARY:**

Under direct supervision of the Laboratory Manager, the Laboratory Supervisor provides leadership and over-all management of the Agricultural Testing and Research Lab. This position provides technical direction of the lab, including method development, field and lab research, and training lab technicians. Other responsibilities include performing standardized qualitative and quantitative tests to ensure compliance with quality control measures and to monitor and manage the quality assurance needs of Navajo Pride brand products.

**II. ESSENTIAL FUNCTIONS, DUTIES, AND RESPONSIBILITIES:**

*The following statements are essential functions of this position and not intended to be all-inclusive; rather, they are intended to describe the general nature and level of work to be performed. They are not to be construed as an exhaustive list of all responsibilities, duties and skills required of the incumbent, and an employee may be directed to perform other reasonably related job duties and responsibilities. NAPI reserves the right to revise or change the job duties and responsibilities as the need arises, based on business need, and this position description may be updated accordingly. This position description does not constitute a written or implied contract of employment.*

General Duties & Responsibilities

14. Coordinates all phases of laboratory operations supervises Laboratory Technicians.
15. Supervises chemical and physical analysis of soil samples, plant tissues, forage and animal feed, fertilizer, and water samples, and summarizes and interprets data from such analysis.
16. Supervises the laboratory Quality Control by participating in external certification and proficiency programs, and establishing internal quality control standards.
17. Communicate results and recommendations to ATRL Manager. Conduct standardized tests on wheat, grain, beans, potatoes, alfalfa, etc. to ensure compliance with standards and regulations regarding factors such as color, texture, and nutrients, protein, quality, and other requested requirements.
18. Trouble shoot product issues received from customers. Communicate results and recommendation to ATRL Manager if a serious violation of specifications occurs.
19. Record and compile test results, prepare graphs, charts, and reports on daily results and results by customers.
- 20.
- 21.
22. Maintains Standard Operation Procedure (SOP) for all lab and Quality Control methods used by staff.

23. Maintains efficient data and reporting system.
24. Maintains laboratory safety programs.
25. Maintains instruments and physical facility.
26. Presents training seminars to NAPI staff as requested or needed and evaluates performance of staff in product processing unit.
27. .

#### Supervisory Duties and Responsibilities

28. Manages and supervises the work unit in keeping with applicable laws and regulations; and NAPI's policies, guidelines, and Navajo affirmative action policies.
29. Leads, directs and supervises reporting personnel including work procedures, workloads and work schedules by directing the workflow in such a manner as to promote productive efficiency of employees.
30. Identifies the developmental needs of employees in department and coaches, mentors, trains, or otherwise helps others to improve their knowledge or skills.
31. Manages performance of assigned direct reports and others in the work unit; conducts employee performance reviews for assigned staff, properly documents corrective action, performance improvement plans, and disciplinary actions, and salary adjustments in accordance with NAPI policy.
32. Ensures a safe working environment, and oversees compliance with applicable OSHA and other laws, regulations, and work rules concerning environmental safety and health by employees; assists with accident/injury investigations as directed by the Safety or HR department.
33. Establishes an effective flow of communication and information to ensure that problems can be responsibly solved and that support is provided to the staff as needed.
34. Observes, receives, and otherwise obtains information from all relevant sources as well as handling complaints, settling disputes and resolving conflicts or otherwise negotiating with others, and prepares reports of findings, in accordance with NAPI Policies & Procedures.

#### Other

35. Works collaboratively, cooperatively, and in coordination with fellow team members and with others in the organization, treats them with respect, courtesy and consideration, and shows understanding and the appropriate support of other team members to help get the job done.
36. Provides information, guidance and resources to diverse groups of customers, clients and others outside of the organization; treats them in a friendly manner with professionalism, helpfulness, respect, courtesy and consideration at all times regardless of circumstances.
37. Maintains regular, dependable attendance and punctuality, and physical presence at the assigned worksite; must interact directly with people or objects at the worksite on a regular basis. Communications technology may, for certain tasks and under certain circumstances, enable an employee to effectively perform some of the work-related duties from home on a temporary basis.
38. Performs other duties as assigned and which are deemed necessary or desirable by NAPI.

### **III. POSITION AUTHORITIES AND ACCOUNTABILITIES:**

#### General:

Position has a high level of line responsibility and high-level authority to make independent decisions over an assigned department or function. A person in this position has a high level of responsibility for a key operation or function.

Results of Action:

Decisions will have a high degree of impact on operations or services. Errors may result in significant disruption of operations or services or damage to operational activities. Errors in accuracy, judgment, tact or communication could result in a loss of productivity, and a significant loss of credibility and potential income for the organization. Failure to establish and monitor work schedules for the Department will result in an inability to meet deadlines and will delay the completion of records and other projects.

Budgetary & Financial Resources Accountability:

Position has high level of accountability for budgetary or financial decisions, and decisions will have a high degree impact on resource utilization within NAPI; responsible for a moderate level of impact on an operating budget for the Department;

Equipment/Material Management & Accountability:

Position has a high level of responsibility for equipment, material, or supplies; proper utilization is required plus accountability for first-echelon maintenance may be required; minimal authority and accountability for purchase within strict policy guidelines may be present.

Confidential and Sensitive Information:

- Incumbent has a high level of access to sensitive and proprietary company data, including but not limited to services, legal and financial data, and an essential job result is the maintenance of a high level of confidentiality of the information processed by the employee.
- Incumbent has a minimal level of access to personal and professional data regarding individual employees and their families, and to personal data regarding customers/clients/members and their families, and must comply with the Fair and Accurate Credit Transactions Act (FACTA) to keep that data secure and private.
- Incumbent has no access to health data of employees and their families, and to health data of customers/clients/members and their families, and must comply with the Health Insurance Portability and Accountability Act (HIPAA), to keep that data secure and private.

Independence of Action; Supervision Received:

The Laboratory Supervisor works under general supervision of the Laboratory Manager. Employee performs high level, complex management work, and performs a high level of analysis and problem-solving with a high degree of independence and discretion.

Supervision Exercised:

The Laboratory Supervisor has supervisory authority over all assigned staff, with proper delegation to other supervisors within the department. Determines work procedures, schedules and priorities. In addition to direct supervisory authority of this position, the Laboratory Supervisor may retain functional authority over specific projects or areas of responsibility as specified in this Job Description or otherwise delegated by the Laboratory Manager.

**IV. POSITION QUALIFICATIONS AND REQUIREMENTS:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required for the position, but is not a comprehensive list. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and Experience:

*Required:*

- Bachelor's degree from an accredited four-year college or university in Soil Science, Food Science Technology or directly related discipline.
- Three (3) years progressive experience in analytical chemistry, production agriculture, quality control in an agricultural field, and administering contracts; supervisory experience in an agricultural environment.

*Preferred:*

- Master's degree from an accredited four-year college or university in Chemistry, Soil Science, Food Science, or directly related discipline.
- Ability to demonstrate knowledge on operating ICP, NIRS, and/or LECO.
- Ability to demonstrate knowledge on laboratory instruments such as balance, pH meters, EC meters, and drying ovens.

*Substitution:*

- Five (5) years of FLSA exempt-level experience in agricultural business and management may be substituted for the Bachelor's degree requirement.

Navajo Preference:

Navajo preference will be applied in accordance with the Navajo Preference in Employment Act (NPEA), it is Navajo Agricultural Products Industry's ("NAPI") goal and intention to strictly adhere to the NEPA in all employment practices and hire qualified Navajo Personnel for all positions. Tribal sovereignty support and Navajo preference initiatives are mandatory.

Language Requirements:

*Required:*

Ability to read and write English in order to understand and interpret written procedures and technical manuals. This includes the ability to give and receive instructions in written and verbal forms and to effectively present information and respond to questions from vendors, contractors, supervisors and co-workers.

*Preferred:*

Bi-lingual (English/Navajo)

Shared Responsibilities:

As a requirement of their employment, all NAPI employees are expected and required to follow and adhere to the following job responsibilities:

- Support the mission, vision, values, and goals of Navajo Agricultural Products Industry.
- Support excellence in our customer service philosophy, and deliver excellent customer service both to internal and external customers.
- Adhere to all company policies and procedures.
- Follow all safety policies, guidelines, and work rules, and participate in trainings.
- Practice good stewardship of NAPI property and follow policy.
- Act in a professional manner at all times.
- Function from INTEGRITY, HONESTY, and LOYALTY in all activities concerning NAPI.
- Follow the current NAPI Strategic Plan initiatives.

- Maintain and support a team environment within the workgroup, and with other departments.
- Champion NAPI in the community.

### Core Competencies:

Performs the essential functions and elements of this position competently, demonstrating adequate progress throughout the course of the introductory period of employment and continuing throughout employment with NAPI. A variety of personal competencies need to be demonstrated by everyone at NAPI, and include but are not limited to:

- **Quality/Compliance:** Achieving a standard of excellence with our work processes and outcomes, honoring NAPI policies and all regulatory requirements.
- **Customer focus:** Striving for high customer satisfaction, going out of our way to be helpful and pleasant, making it as easy as possible on the customer or client, rather than on self, department, or organization.
- **Communication:** Balancing listening and talking, speaking and writing clearly and accurately, influencing others, keeping others informed.
- **Collegiality:** Being helpful, respectful, approachable, and team oriented, building strong working relationships and a positive work environment.
- **Initiative:** Taking ownership of our work, doing what is needed without being asked, following through
- **Efficiency and Continuous Improvement:** Planning ahead, managing time well, being on time, being cost conscious, thinking of better ways to do things
- **Coachability:** Being receptive to feedback, willing to learn, embracing continuous improvement
- **Safety:** Comply with and actively support all workplace safety policies and practices.
- **Team Player:** able to work collaboratively with others in the organization, and to work well with diverse groups of people and gain and maintain respect of others, both inside and outside of NAPI.

### Knowledge, Skills and Abilities:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required to perform the essential functions of the position, but are not a comprehensive list:

- Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.
- Knowledge of personnel practices, time management and negotiation.
- Knowledge in basic education and training to include principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects.
- Knowledge of chemicals, herbicides, and pesticides.
- Knowledge of general and fund accounting and business practices to effectively manage budgets.
- Knowledge of budget control methods, policies, and procedures.
- Skill in supervising people, including skills in organizing work flow to accomplish established objectives, delegating responsibility, training and development, evaluating

subordinate effectiveness, administering necessary corrective action and discipline, teambuilding, and project management.

- planning, organizing, directing, and coordinating.
- Skill in leadership, management, and supervision.
- Skill in training, coaching, and developing skills of assigned personnel.
- Skill to read, analyze, and interpret highly complex documents
- Skill in analysis and interpretation of financial data, and in preparation of financial reports, statements and/or projections.
- Skill in active listening as this position communicates with all levels of company employees, board of directors, customers, and local governments.
- Skill in analyzing information and use logic to address work-related issues and problems.
- Skill in self-management; to manage one's own time and the time of others.
- Ability to plan, organize and schedule the activities of staff.
- Ability to set standards and measure production. Ability to work with people and work under stress.
- Ability to develop the skills and abilities of direct reports to improve individual and team performance.
- Ability to develop, analyze, and interpret production schedules
- Ability to speak in public.
- Ability to use a computer and computer programs is required.
- Ability to use search engines, data queries, and assimilate printed information.
- Ability to write concise, logical, grammatically correct analytical reports.
- Ability to communicate effectively orally and in writing in English. Navajo language is helpful.
- Ability to effectively lead, manage, supervise, coach, motivate, and develop assigned staff.
- Ability to be self-directed, developing one's own way of doing things, guiding oneself with little or no supervision.
- Ability to communicate effectively both orally and in written form information and ideas so other will understand.
- Able to be careful about detail and thorough in completing tasks.
- Ability to be persistent in the face of obstacles and being able to accept criticism and dealing calmly and effectively with high stress situations.
- Ability to be pleasant with others on the job and displaying a good-natured, cooperative attitude.
- Ability to be open to change (positive or negative) and to considerable variety in the workplace.
- Ability to identify key policy issues and make recommendations to senior management officials.
- Ability to communicate in writing in order to develop and issue regulations, instructions, policy interpretation and guidelines.
- Ability to examine and re-engineer operations and procedures,
- Ability to formulate policy, and develop and implement new strategies and procedures.
- Ability to lead project teams, to include organizing, prioritizing, and scheduling work assignments.
- Ability to thrive in a fast-paced and pressured environment and must be able to shift to other functions and priorities as needed.

Certification, Licenses and Registrations:

- Must have and maintain a current New Mexico, or Arizona driver's license, must have and maintain an NAPI-insurable driving record, and must provide proof

of current liability insurance meeting or exceeding State-required minimum coverages.

- First Aid, CPR and Defensive Driving Course.

Training Requirements:

- Must successfully complete all NAPI-required safety and other training
- Must successfully pass and maintain training certification in all state, NAPI, individual-specific, and/or other training requirements of the position and job assignment.
- Additional specific training requirements for this position may be required by NAPI.

Tools and Equipment Used:

- Standard office equipment, including desktop computer and standard MS-Office applications
- Scales, meters, ICP, FOSS, LECO Carbon and Nitrogen Analyzer, NIR Spectrometer, Flow Injection Auto Analyzer (FIA)
- Famous Accounting Software
- Must be able to operate a company vehicle and a two-way radio.

Other:

- In accordance with the conditional offer of employment, individual must pass drug screen, and all NAPI, and other required background investigations.
- Additional drug screening and background investigations may be required depending on the job assignment, or job transfer.
- Must read and acknowledge NAPI's Non-disclosure agreement.

**V. PHYSICAL & MENTAL DEMANDS and WORKING CONDITIONS**

The physical and mental demands, and working conditions described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. The physical and mental demands, and working conditions described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of this position.

NAPI maintains a comprehensive, detailed assessment of the physical and mental demands, and working conditions for this position, which are also included in the incumbent's employment file.

Physical Effort and Demand:

- None to insignificant physical demand is required to perform the work; an employee in this position frequently sits at a desk or workstation.

Visual Acuity, Hearing, Speaking, Manual Dexterity:

- Must have visual acuity and manual dexterity to perform timely and accurate data entry;
- Must be able to make individual, small group, and large group presentations as required by position

Mental Demand:

- Effective performance requires continual thinking and attention to work/detail

- demanded by the Knowledge, Skills and Abilities and essential functions of the job.
- Must be able to work non-standard work hours as required to fulfill job responsibilities.

**Environment/Working Conditions:**

- Little to no hazardous conditions exist in the work environment. The work environment is pleasant; only minimal negative physical factors exist.
- Above average amount of negative psychological factors; these factors must be addressed and considered in the performance of duties and have potential for a negative impact on job incumbents.

**CONTINUED ON NEXT PAGE.**

**VI. EMPLOYEE ACCEPTANCE:**

By my signature below, I certify that I have read my Job Description and understand my assigned responsibilities, and have been given a copy of this Job Description.

Employee – please initial each of these statements below to indicate your agreement, in addition to your signature at the bottom of this page:

_____	I acknowledge that I have been given access to a print and/or electronic copy of the <b>Employee Policies and Procedures Handbook</b> , and understand that I am responsible for reading and following all relevant policies and procedures outlined in it.
_____	I understand that I am responsible for following all departmental and job-specific policies, procedures, work rules, and other guidelines.
_____	I understand that neither the Board of Directors nor management of NAPI can guarantee my employment, and that NAPI can change compensation, benefits, and conditions of my employment at any time and at its full and sole discretion to meet business needs of NAPI.
_____	I further understand that the foregoing Job Description is not all-inclusive of the duties to which I may be assigned. To meet business needs, ensure maximum flexibility and efficiency, and to encourage cross training, I acknowledge that I may be assigned additional duties as are deemed necessary or desirable by NAPI.
_____	I acknowledge that NAPI also reserves the exclusive right to transfer, assign, or locate the incumbent to another job assignment within this job title for which I am qualified. Such transfer, re-assignment or re-location may be on either a temporary or regular basis, and shall be done to meet the business needs of NAPI.
_____	I also certify that I can perform the essential functions of this Job Description either with or without a reasonable accommodation.
_____	I further acknowledge that this Job Description does not constitute a written or implied contract of employment with NAPI.

**Accepted and Acknowledged by:**

\_\_\_\_\_ Date

Employee Signature

\_\_\_\_\_

Print Employee's Name

**Witnessed by:**

\_\_\_\_\_ Date

NAPI Representative Signature

\_\_\_\_\_

Print NAPI Representative's Name and Job Title



NAVAJO AGRICULTURAL PRODUCTS INDUSTRY (NAPI)  
**POSITION DESCRIPTION**

JOB TITLE:	LAB TECHNICIAN	JOB CODE:	
		PAY GRADE:	ST
DEPARTMENT:	DNLOC	PAY STATUS:	Full-time / Hourly
REPORTS TO:	Lab Manager	REGULAR/SEASONAL:	Regular
APPROVED BY:	<i>[Signature]</i> Human Resources Manager	DATE APPROVED:	9/22/2020

**I. POSITION FUNCTION SUMMARY:**

Under the direction of the Lab Manager, this position performs technical laboratory procedures for the preparation and analysis of samples, data reporting and archiving, maintenance of laboratory equipment and facilities.

**II. ESSENTIAL FUNCTIONS, DUTIES, AND RESPONSIBILITIES:**

The following statements are essential functions of this position and not intended to be all-inclusive; rather, they are intended to describe the general nature and level of work to be performed. They are not to be construed as an exhaustive list of all responsibilities, duties and skills required of the incumbent, and an employee may be directed to perform other reasonably related job duties and responsibilities. NAPI reserves the right to revise or change the job duties and responsibilities as the need arises, based on business need, and this position description may be updated accordingly. This position description does not constitute a written or implied contract of employment.

General Duties & Responsibilities

1. Receive and prepare laboratory samples for analysis, following proper protocols to ensure that they will be stored, prepared, and disposed of safely, efficiently and effectively.
2. Adjust laboratory instruments and prepare chemical solutions and standards, following standard procedures.
3. Interpret lab data and make recommendations to Lab Manager.
4. Analyze samples according to standard operating procedures and QA/QC protocols.
5. Properly dispose of samples, solutions, and chemicals when testing is completed.
6. Properly clean and store instrument equipment.
7. Perform routine maintenance on equipment and determine when and what kind of maintenance is needed.
8. Prepare data summaries, reports, and analyses that include results, charts, and graphs to document results and archive information.
9. Maintain equipment consumable supplies.
10. Dresses appropriately for the position and wears lab coat and personal protective equipment as directed.
11. Able to function effectively in the absence of Lab Manager.

Other

12. Works collaboratively, cooperatively, and in coordination with fellow team members and with others in the organization, treats them with respect, courtesy and consideration, and shows understanding and the appropriate support of other team members to help get the job done.
13. Provides information, guidance and resources to diverse groups of customers, clients and others outside of the organization; treats them in a friendly manner with professionalism, helpfulness, respect, courtesy and consideration at all times regardless of circumstances.

14. Maintains regular, dependable attendance and punctuality, and physical presence at the assigned worksite; must interact directly with people or objects at the worksite on a regular basis. Communications technology may, for certain tasks and under certain circumstances, enable an employee to effectively perform some of the work-related duties from home on a temporary basis.
15. Complies with all applicable environmental health and safety policies, procedures and work rules, giving maximum effort to performing job functions in a manner that protects the health and safety of the incumbent, co-workers, and the general public
16. Performs other duties as assigned and which are deemed necessary or desirable by NAPI.

### **III. POSITION AUTHORITIES AND ACCOUNTABILITIES:**

#### **General:**

Position has a high level of line responsibility and high-level authority to make independent decisions over an assigned department or function. A person in this position has a high level of responsibility for a key operation or function.

#### **Results of Action:**

Decisions will have a high degree of impact on operations or services. Errors may result in significant disruption of operations or services or damage to operational activities. Errors in accuracy, judgment, tact or communication could result in a loss of productivity, and a significant loss of credibility and potential income for the organization. Failure to adhere to work schedules will result in an inability to meet deadlines and will delay the completion of records and other projects.

#### **Budgetary & Financial Resources Accountability:**

Position has moderate level of accountability for budgetary or financial decisions, and decisions will have a high degree impact on resource utilization within NAPI; responsible for a moderate level of impact on an operating budget for the Department;

#### **Equipment/Material Management & Accountability:**

Position has a high level of responsibility for equipment, material, or supplies; proper utilization is required plus accountability for first-echelon maintenance may be required; minimal authority and accountability for purchase within strict policy guidelines may be present.

#### **Confidential and Sensitive Information:**

- Incumbent has a moderate level of access to sensitive and proprietary company data, including but not limited to services, legal and financial data, and an essential job result is the maintenance of a high level of confidentiality of the information processed by the employee.
- Incumbent has a minimal level of access to personal and professional data regarding individual employees and their families, and to personal data regarding customers/clients/members and their families, and must comply with the Fair and Accurate Credit Transactions Act (FACTA) to keep that data secure and private.
- Incumbent has no access to health data of employees and their families, and to health data of customers/clients/members and their families, and must comply with the Health Insurance Portability and Accountability Act (HIPAA), to keep that data secure and private.

#### **Independence of Action; Supervision Received:**

The Laboratory Technician works under general supervision of the Laboratory Manager. Employee works along on routine work and checks with supervisor only when in doubt. Production generally precedes a check on the quality of work. Established methods and procedures are clearly established and general instructions provided.

Supervision Exercised:

The Laboratory Technician is responsible for own work, and has not supervisory authority or responsibility, although the Laboratory Technician may have functional authority over specific projects or areas of responsibility as specified in this Job Description or otherwise delegated by the Laboratory Manager.

**IV. POSITION QUALIFICATIONS AND REQUIREMENTS:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required for the position, but is not a comprehensive list. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and Experience:

*Required:*

- College course work in Agricultural Science, Chemistry, Environmental Science, or directly related discipline.
- One (1) year progressive work experience in a laboratory setting.

*Preferred:*

- Associate's degree from an accredited college or university in Agricultural Science, Chemistry, or directly related discipline.

*Substitution:*

- None

Navajo Preference:

Navajo preference will be applied in accordance with the Navajo Preference in Employment Act (NPEA), it is Navajo Agricultural Products Industry's ("NAPI") goal and intention to strictly adhere to the NEPA in all employment practices and hire qualified Navajo Personnel for all positions. Tribal sovereignty support and Navajo preference initiatives are mandatory.

Language Requirements:

*Required:*

Ability to read and write English in order to understand and interpret written procedures and technical manuals. This includes the ability to give and receive instructions in written and verbal forms and to effectively present information and respond to questions from vendors, contractors, supervisors and co-workers.

*Preferred:*

Bi-lingual (English/Navajo)

Shared Responsibilities:

As a requirement of their employment, all NAPI employees are expected and required to follow and adhere to the following job responsibilities:

- Support the mission, vision, values, and goals of Navajo Agricultural Products Industry.
- Support excellence in our customer service philosophy, and deliver excellent customer service both to internal and external customers.
- Adhere to all company policies and procedures.
- Follow all safety policies, guidelines, and work rules, and participate in trainings.
- Practice good stewardship of NAPI property and follow policy.

- Act in a professional manner at all times.
- Function from INTEGRITY, HONESTY, and LOYALTY in all activities concerning NAPI.
- Follow the current NAPI Strategic Plan initiatives.
- Maintain and support a team environment within the workgroup, and with other departments.
- Champion NAPI in the community.

#### Core Competencies:

Performs the essential functions and elements of this position competently, demonstrating adequate progress throughout the course of the introductory period of employment and continuing throughout employment with NAPI. A variety of personal competencies need to be demonstrated by everyone at NAPI, and include but are not limited to:

- **Quality/Compliance:** Achieving a standard of excellence with our work processes and outcomes, honoring NAPI policies and all regulatory requirements.
- **Customer focus:** Striving for high customer satisfaction, going out of our way to be helpful and pleasant, making it as easy as possible on the customer or client, rather than on self, department, or organization.
- **Communication:** Balancing listening and talking, speaking and writing clearly and accurately, influencing others, keeping others informed.
- **Collegiality:** Being helpful, respectful, approachable, and team oriented, building strong working relationships and a positive work environment.
- **Initiative:** Taking ownership of our work, doing what is needed without being asked, following through
- **Efficiency and Continuous Improvement:** Planning ahead, managing time well, being on time, being cost conscious, thinking of better ways to do things
- **Coachability:** Being receptive to feedback, willing to learn, embracing continuous improvement
- **Safety:** Comply with and actively support all workplace safety policies and practices.
- **Team Player:** able to work collaboratively with others in the organization, and to work well with diverse groups of people and gain and maintain respect of others, both inside and outside of NAPI.

#### Knowledge, Skills and Abilities:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required to perform the essential functions of the position, but are not a comprehensive list:

- Knowledge of chemistry and laboratory procedures.
- Knowledge of chemicals, herbicides, and pesticides.
- Skill to read, analyze, and interpret highly complex documents
- Skill in analysis and interpretation of analytical data.
- Skill in active listening as this position communicates with various levels of company employees, customers, and local governments.
- Skill in analyzing information and use logic to address work-related issues and problems.
- Skill in self-management; to manage one's own time and the time of others.
- Ability to train on operating ICP, NIRS, and LECO.
- Ability to demonstrate knowledge of laboratory instruments such as balance, pH meters, EC meters and drying ovens.
- Ability to train Laboratory Technicians to prepare samples, conduct analyses and report data.
- Ability to develop, analyze, and interpret production schedules
- Ability to speak in public.
- Ability to use a computer and computer programs is required.
- Ability to use search engines, data queries, and assimilate printed information.
- Ability to communicate effectively orally and in writing in English. Navajo language is helpful.
- Ability to be self-directed, developing one's own way of doing things, guiding oneself with little or no supervision.

- Ability to communicate effectively both orally and in written form information and ideas so other will understand.
- Able to be careful about detail and thorough in completing tasks.
- Ability to be persistent in the face of obstacles and being able to accept criticism and dealing calmly and effectively with high stress situations.
- Ability to be reliable, responsible, and dependable, and fulfilling obligations.
- Ability to be honest and ethical.
- Ability to take on responsibilities and challenges.
- Ability to keep up-to-date technically and apply new knowledge to your job.
- Ability to be pleasant with others on the job and displaying a good-natured, cooperative attitude.
- Ability to be open to change (positive or negative) and to considerable variety in the workplace.

**Certification, Licenses and Registrations:**

- Must have and maintain a current New Mexico, or Arizona driver's license, must have and maintain an NAPI-insurable driving record, and must provide proof of current liability insurance meeting or exceeding State-required minimum coverages.
- First Aid, CPR, Defensive Driving Course, and HazWoper.

**Training Requirements:**

- Must successfully complete all NAPI-required safety and other training
- Must successfully pass and maintain training certification in all state, NAPI, individual-specific, and/or other training requirements of the position and job assignment.
- Additional specific training requirements for this position may be required by NAPI.

**Tools and Equipment Used:**

- Standard office equipment, including desktop computer and standard MS-Office applications
- ICP, NIRS, and LECO, and other specialized equipment depending on the job assignment.
- Must be able to operate a company vehicle and a two-way radio.

**Other:**

- In accordance with the conditional offer of employment, individual must pass drug screen, and all NAPI, and other required background investigations.
- Additional drug screening and background investigations may be required depending on the job assignment, or job transfer.
- Must read and acknowledge NAPI's Non-disclosure agreement.

**V. PHYSICAL & MENTAL DEMANDS and WORKING CONDITIONS**

The physical and mental demands, and working conditions described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. The physical and mental demands, and working conditions described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of this position.

NAPI maintains a comprehensive, detailed assessment of the physical and mental demands, and working conditions for this position, which are also included in the incumbent's employment file.

**Physical Effort and Demand:**

- Significant physical demand is required to perform the work; an employee in this position frequently stands,

- walks, kneels, squats, crawls, twists, and climbs.
- Significant physical demand is required to perform the work; an employee in this position frequently lifts a minimum of 50 pounds.
  - Significant physical demand is required to perform the work; an employee in this position frequently uses hands to finger, handle or feel, reach with hands and arms.

Visual Acuity, Hearing, Speaking, Manual Dexterity:

- Must have visual acuity and manual dexterity to perform timely and accurate data entry;
- Must be able to make individual, small group, and large group presentations as required by position

Mental Demand:

- Effective performance requires continual thinking and attention to work/detail demanded by the Knowledge, Skills and Abilities and essential functions of the job.
- Must be able to work non-standard work hours as required to fulfill job responsibilities.

Environment/Working Conditions:

- Little to some hazardous conditions exist in the work environment. The work environment is pleasant; only minimal negative physical factors exist.
- Above average amount of negative psychological factors; these factors must be addressed and considered in the performance of duties and have potential for a negative impact on job incumbents.

**Continued on next page.**

**VI. EMPLOYEE ACCEPTANCE:**

By my signature below, I certify that I have read my Job Description and understand my assigned responsibilities, and have been given a copy of this Job Description.

Employee – please initial each of these statements below to indicate your agreement, in addition to your signature at the bottom of this page:

_____	I acknowledge that I have been given access to a print and/or electronic copy of the <b>Employee Policies and Procedures Handbook</b> , and understand that I am responsible for reading and following all relevant policies and procedures outlined in it.
_____	I understand that I am responsible for following all departmental and job-specific policies, procedures, work rules, and other guidelines.
_____	I understand that neither the Board of Directors nor management of NAPI can guarantee my employment, and that NAPI can change compensation, benefits, and conditions of my employment at any time and at its full and sole discretion to meet business needs of NAPI.
_____	I further understand that the foregoing Job Description is not all-inclusive of the duties to which I may be assigned. To meet business needs, ensure maximum flexibility and efficiency, and to encourage cross training, I acknowledge that I may be assigned additional duties as are deemed necessary or desirable by NAPI.
_____	I acknowledge that NAPI also reserves the exclusive right to transfer, assign, or locate the incumbent to another job assignment within this job title for which I am qualified. Such transfer, re-assignment or re-location may be on either a temporary or regular basis, and shall be done to meet the business needs of NAPI.
_____	I also certify that I can perform the essential functions of this Job Description either with or without a reasonable accommodation.
_____	I further acknowledge that this Job Description does not constitute a written or implied contract of employment with NAPI.

**Accepted and Acknowledged by:**

\_\_\_\_\_ Date

Employee Signature

\_\_\_\_\_

Print Employee's Name

**Witnessed by:**

\_\_\_\_\_ Date

NAPI Representative Signature

\_\_\_\_\_

Print NAPI Representative's Name and Job Title

SECTION THREE

3.0 FISCAL YEAR REVISED 2026 BUDGET

The NAPI ATRL – Soils Lab Budget for Fiscal Year 2026.

COST CENTER	DESCRIPTION	BUDGET
<b>26-5331</b>	<b>Environmental Studies Lab</b>	
5800	Outside Svcs, Sub-Contract, Consultant	\$ 1,000
		\$ 1,000
<b>26-5341</b>	<b>Soils Lab Operation</b>	
3825	Office Supplies	\$ 1,000
3835	Supplies	\$ 20,000
2850	Operations Labor	\$ 250,000
2860	Operations Burden & Benefits	\$ 59,000
5800	Outside Svcs, Sub-Contract, Consultant	\$ 51,784
5810	Equipment Rental	\$ 1,986
5840	Travel & Per diem	\$ 1,000
		\$ 384,770
<b>26-5342</b>	<b>Soils Fertility Research</b>	
3835	Supplies	\$ 0
5800	Outside Svcs, Sub-contract, Consultant	\$ 1,000
		\$ 1,000
<b>26-5360</b>	<b>Soils Parasitic Research</b>	
5800	Outside Svcs, Sub-Contract, Consultant	\$ 500
		\$ 500
<b>26-5370</b>	<b>Laboratory Management &amp; Admin</b>	
5905	Computer Office Equipment	\$ 0
3835	Supplies	\$ 1,000
5965	Tuition & fees	\$ 500
5800	Outside Svcs, Sub-Contract, Consultant	\$ 1,000
5840	Travel & Per diem	\$ 100
5845	Trade Journals	\$ 0
		\$ 2,600
<b>26-5380</b>	<b>General &amp; Administrative</b>	
5800	Outside Svcs, Sub-Contract, Consultant	\$ 1,000
8940	AT&T	\$ 780
		\$ 1,780
	<b>TOTAL</b>	<b>\$ 391,650</b>



**SCOPE OF WORK**  
**For**  
**WATER QUALITY MONITORING**  
  
**Calendar Year 2026**

**Navajo Indian Irrigation Project**

**Public Law 93-638**  
**Contract Number A26AVxxxxx**

A handwritten signature in black ink, appearing to read "Dineh John", is written over a solid horizontal line.

**Dineh John**  
**Agricultural Testing and Research**  
**Laboratory Manager**

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## SECTION ONE

### 1.0 INTRODUCTION

The purpose of the Water Quality Monitoring Program is to document the changes in project ground water, return flows and its impact on the San Juan River. This Program is a requirement for the Section VII of the Endangered Species Act (ESA). There are three categories of on-project monitoring which are Observation Wells, Subsurface Drain Discharge, and Return Flow Discharge Channels.

### 1.1 STATEMENT OF WORK (SOW)

The ATRL offers their service to follow the NIIP Ground Water Quality Monitoring sampling protocol when visiting each well and project sites for data and sample collection. As required, all samples will be submitted to the ACZ Laboratories, Inc. for analysis. To provide further detail regarding budget framework and work criterion, individual narrative statements have been included. The monitoring and sampling procedures will follow the Standard Operating Procedures outlined in the Navajo Indian Irrigation Project Water Quality Monitoring Program.

#### Well Monitoring

There are 84 observation wells and 4 deep wells (Table 2). Water quality samples are collected biannually in April and October using KBE-GW-2019 protocol. Depth to water table samples are collected quarterly in January, April, July and October.

In addition, 43 additional NIIP monitoring wells which are not included in Table 2 that are less than 10 feet deep and located in areas where subsurface drainage is needed or may be needed in the near future. Water samples are not collected for these wells but depth to water table measurements are collected biannually (March and October). The monitoring well locations are shown on Figure A-1 and Figure A-2 in Appendix A.

In March 2021, two new observation wells were added; OW 2-05B and OW 3-03B.

**Table 2. NIIP Observation and Deep Wells**

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8-11
DW1-1	OW2-01	OW3-01	OW4-01	OW5-01	DW2-1	DW2-2	OW8-01B
DW1-2	OW2-02	OW3-02	OW4-02	OW5-02	OW6-01B	OW7-01	OW8-02
OW1-01	OW2-03	OW3-03B	OW4-03	OW5-03	OW6-03	OW7-02	OW8-03
OW1-02	OW2-04	OW3-04	OW4-04	OW5-04	OW6-04	OW7-03	OW8-04
OW1-03	OW2-05B	OW3-06	OW4-05	OW5-05	OW6-05	OW7-04	OW9-01
OW1-04	OW2-07	OW3-07	OW4-06	OW5-06	OW6-06	OW7-05	OW9-02
OW1-05	OW2-08	OW3-08	OW4-07	OW5-07	OW6-07	OW7-06	OW10-01
OW1-06	OW2-09			OW5-08	OW6-08		OW10-02
OW1-07	OW2-10			OW5-09	OW6-10		OW10-03
OW1-08	OW2-11				OW6-11		OW11-01
OW1-09	OW2-12						OW11-02
OW1-10	OW2-13						
OW1-11	OW2-14						
OW1-12	OW2-15						
	OW2-16						
	OW2-17						
	OW2-18						
	OW2-19						
	OW2-20						

*See Appendix A for mapped well locations.*

### Subsurface Drains

There are 14 drains and discharge points located on Figure A-2 in the Appendix 1. Using the NIIP Drain and Return Flow Water Quality protocol, water quality samples are collected biannually in March and October along with flow measurements.

In March 2021, one new subsurface drain was added; 7-46.

**Table 3. Subsurface Drain Discharge Sites**

<b>Name</b>	<b>NAD83 Latitude (dd.ddddd)</b>	<b>NAD83 Longitude (ddd.ddddd)</b>
1-21	36.61127	108.11132
1-35B	36.59674	108.13468
1-39	36.58059	108.12052
1-40	36.57437	108.12559
1-43	36.57384	108.11060
1-44	36.57434	108.12469
1-47	36.56522	108.12195
2-41A	36.65330	108.35928
2-42	36.66123	108.34120
2-45A NW	36.67049	108.35922
2-45A SW	36.66605	108.35921
2-53A NE	36.66145	108.35999
721-727	36.63254	108.32390
736	36.63256	108.32660
736B1	36.63262	108.32490
736B2	36.63271	108.32860
745	36.59461	108.37490
746	36.59616	108.37350

*See Appendix A for mapped drain outlet locations.*

### Return Flows

Quarterly in February, May, August, and November, 16 sites are sampled located on A-3 in the Appendix 1. Originally, 18 sites (Table 4) were sampled but due to drying out flows, Arroyo 1 and Arroyo 17 return flows are not included. The protocol to ensure consistency will be NIIP Drain and Return Flow Water Quality SOP.

**Table 4. Return Flow Monitoring Sites**

Location	NAD83 Latitude (dd.ddddd)	NAD83 Longitude (ddd.ddddd)	Notes
Gallegos Wash	36.67954	108.10847	Critical - On 303(d) List for Selenium
Ojo Wash at Flume	36.70859	108.34487	Upstream of Fruitland Wasteway
Ojo Wash - Fruitland	36.71675	108.34747	Downstream of Fruitland Wasteway
214A	36.71311	108.31240	
264	36.71224	108.36800	Hiking Required
265	36.71409	108.36923	Hiking Required
274 Wash	36.70833	108.39564	
344B North	36.61533	108.44457	Hiking Required
344B Mid	36.61342	108.44195	Hiking Required
344B South	36.61272	108.44240	Hiking Required
347	36.65602	108.42182	New 3-47 Site Combines 347 Stream & 347 North Return Flows
347 Stream <sup>1</sup>	36.65324	108.42182	Site Abandoned
347 North <sup>1</sup>	36.65640	108.42357	Site Abandoned
370	36.56864	108.51068	
401A Seepage	36.62730	108.02802	
Hwy 550	36.62924	108.00906	
Upper Fruitland - 01	36.71136	108.36140	
Upper Fruitland - 02	36.71117	108.36403	
Arroyo 1 <sup>1</sup>	36.70916	108.36116	Not Currently Monitored
Arroyo 17 <sup>1</sup>	36.71976	108.38402	Not Currently Monitored

<sup>1</sup>Return flow sites not currently monitored

### San Juan River Quality Monitoring

10 sites are monitored and 2 spiked sites (Table 5) are sampled quarterly in February, May, August and November along the San Juan River. Sites are located on A-4 in the Appendix 1. The protocol used is the San Juan River Quality Monitoring SOP. Testing used for May, August and November samples are KBE-1-SW. Testing used for the February samples are KBE-2-SW.

**Table 5. Water Quality Monitoring Sites along the San Juan River**

Location	ID	Start Date
San Juan River at the Archuleta Bridge	9355500	4/19/1994
Animas River at Farmington (Miller Bridge)	9364500	4/20/1994
San Juan River at the Hwy 371 Bridge	9365000	4/20/1994
San Juan River at the Hwy 371 Bridge (spike)	9365001	11/23/1998
La Plata River at the Mouth	9367500	5/18/1994
San Juan River at the Shiprock Bridge (split)	9367990	4/21/1994
Mancos River near Four Corners	9371005	4/21/1994
San Juan River at the Four Corners Bridge	9371010	4/21/1994
San Juan River at the Four Corners Bridge (spike)	9371011	11/23/1998
San Juan River at the Montezuma Creek Bridge	9378590	4/21/1994
San Juan River at the Bluff Bridge (split)	9379495	4/21/1994
San Juan River at the Mexican Hat Bridge	9379500	4/21/1994

### Ojo Flume Maintenance and Logger Download

The Ojo Flume requires some maintenance during each visit. High flow events can create channels that bypass the flume. During the collection, any erosion or new channels are filled in.

The Flume is also equipped with a Hobo MX2001-04 data logger made by Onset Computer Corporation. This data logger is read wirelessly by Bluetooth with a mobile phone. The logger takes measurements every 15 minutes and can store one year of data. Once the data is retrieved, it can be downloaded through HoboMobile and shared with Keller-Bliesner Engineering, LLC.

**ACZ Laboratories, INC. Shipment**

Required materials will be ordered from the ACZ Lab project manager, Sue Webber. Materials include sample containers, preservatives, chain of custody forms, custody seals, and sample labels. The order will include protocol and sample sets. Inspection of all materials will be conducted on receipt to prevent cross contamination or loss of preservatives.

**Special Training**

Training from Paul Thompson, former NIIP Water Quality Monitoring Sampler, is requested to ensure that the staff are following all protocols properly. The training will include but not be limited to preparation process, equipment calibrations, finding sample locations, sampling process, and shipping requirements.

**Travel**

Travel to sample collection sites will be completed with a designated NAPI Agricultural Testing Research Laboratory GSA.

**1.2 WORK SCHEDULE**

The Statement of Work (SOW) activities are scheduled to occur in accordance with the BIA-NIIP Monitoring Schedule.

*BIA-NIIP Annual Monitoring Schedule:*

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
San Juan River Water Quality		KBE-2-SW			KBE-1-SW			KBE-1-SW			KBE-1-SW	
Observation and Deep Well Water Quality				KBE-GW						KBE-GW		
Observation and Deep Well Depth to Water Table	X			X			X			X		
Monitoring Well Depth to Water Table			X							X		
Subsurface Drains (Water Quality and Flow)			KBE-2-SW							KBE-2-SW		
NIIP Return Flows (Water Quality and Flow)		KBE-2-SW			KBE-2-SW			KBE-2-SW			KBE-2-SW	
Ojo Flume Maintenance and Logger Download		X			X			X			X	

*Five-Year Frequency:*

San Juan River - Razorback Sucker Muscle Tissue Sampling (Year 2025, 2030, 2035, ...)

**SECTION TWO**

**2.0 AUTHORIZED REPRESENTATIVES**

The Management Board of NAPI, by submission of this proposal delegates the contract signature authority to the NAPI Chief Executive Officer- Dave Zeller, with the Management Board's

concurrency, will subsequently appoint or affirm the Contractor's Representative, responsibility for the day-to-day administration of the FY 2026 Contract.

**SECTION THREE**

**3.0 CALENDAR YEAR 2026 PROPOSED BUDGET**

The NAPI ATRL – Water Quality Monitoring Proposed Budget for Calendar Year 2026.

Budget Calendar Year 2026													
	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Total
Water Quality Monitoring													
210 LABOR	2,427	2,427	2,427	2,427	2,427	2,427	2,427	2,427	2,427	2,427	2,427	2,427	21,843
250/252 FRINGES	400	400	400	400	400	400	400	400	400	400	400	400	3,604
<b>SUB-TOTAL</b>	<b>2,827</b>	<b>25,447</b>											
412 TOOLS/MAINTENANCE	50	50	50	50	50	50	50	50	50	50	50	50	8,200
451 SUPPLIES	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135	3,135
527 DUES/SUBSCRIPTIONS													
550 FUEL MAINTENANCE													
546 FUEL-UNLEADED													
568 MAINTENANCE/REPAIRS													
571 MEETINGS/SEMINARS	50	50	50	50	50	50	50	50	50	50	50	50	450
589 OUTSIDE SERVICES													
599 POSTAGE/FREIGHT													
609 PRINTING/STATIONARY													
622 RENTAL - AUTO													
645 TRAVEL													
704 DEPRECIATION													
822 TELEPHONE	100	100	100	100	100	100	100	100	100	100	100	100	1,200
<b>SUB-TOTAL</b>	<b>100</b>	<b>1,200</b>											
<b>TOTAL Water Quality Monitoring</b>	<b>\$ 2,927</b>	<b>\$ 38,432</b>											

### 3.1 PROPOSED SUPPLY LIST

NIIP Groundwater Quality Program Equipment/Materials			
Qty	Item	Price	Total
<b>Standards</b>			
1	pH 7.0	\$ 215.64	\$ 215.64
1	pH 10.0	\$ 219.88	\$ 219.88
1	Redox 275mv	\$ 36.00	\$ 36.00
1	Redox 470mv	\$ 27.00	\$ 27.00
1	Electrical Conductivity 0.1M	\$ 10.49	\$ 10.49
1	Electrical Conductivity 0.2 M KCL	\$ 15.23	\$ 15.23
<b>Spike Solution 10 Mg/L</b>			
1	Ag	\$ 55.10	\$ 55.10
1	Al	\$ 34.55	\$ 34.55
1	As	\$ 67.80	\$ 67.80
1	Br	\$ 406.48	\$ 406.48
1	Be	\$ 72.72	\$ 72.72
1	Ca	\$ 33.05	\$ 33.05
1	Co	\$ 85.60	\$ 85.60
1	Cr	\$ 32.55	\$ 32.55
1	Cu	\$ 36.45	\$ 36.45
1	Mn	\$ 32.60	\$ 32.60
1	Ni	\$ 42.10	\$ 42.10
1	PB	\$ 32.80	\$ 32.80
1	Sb	\$ 34.60	\$ 34.60
1	Se	\$ 44.25	\$ 44.25
1	TI	\$ 69.08	\$ 69.08
1	V	\$ 32.60	\$ 32.60
1	Zn	\$ 33.40	\$ 33.40
1	Nitric Acid	\$ 152.67	\$ 152.67
100	0.45 Micron Filters	\$ 27.00	\$ 270.00
1	Filter Pump	\$ 975.00	\$ 975.00
	Ziplock Bags	\$ 33.84	\$ 33.84
	Ziplock Bags	\$ 33.86	\$ 33.86
	<i>Standards</i>		\$ 524.24
	<b>Total</b>		<b>\$3,135.34</b>

Appendix 1-MONITORING LOCATION MAPS

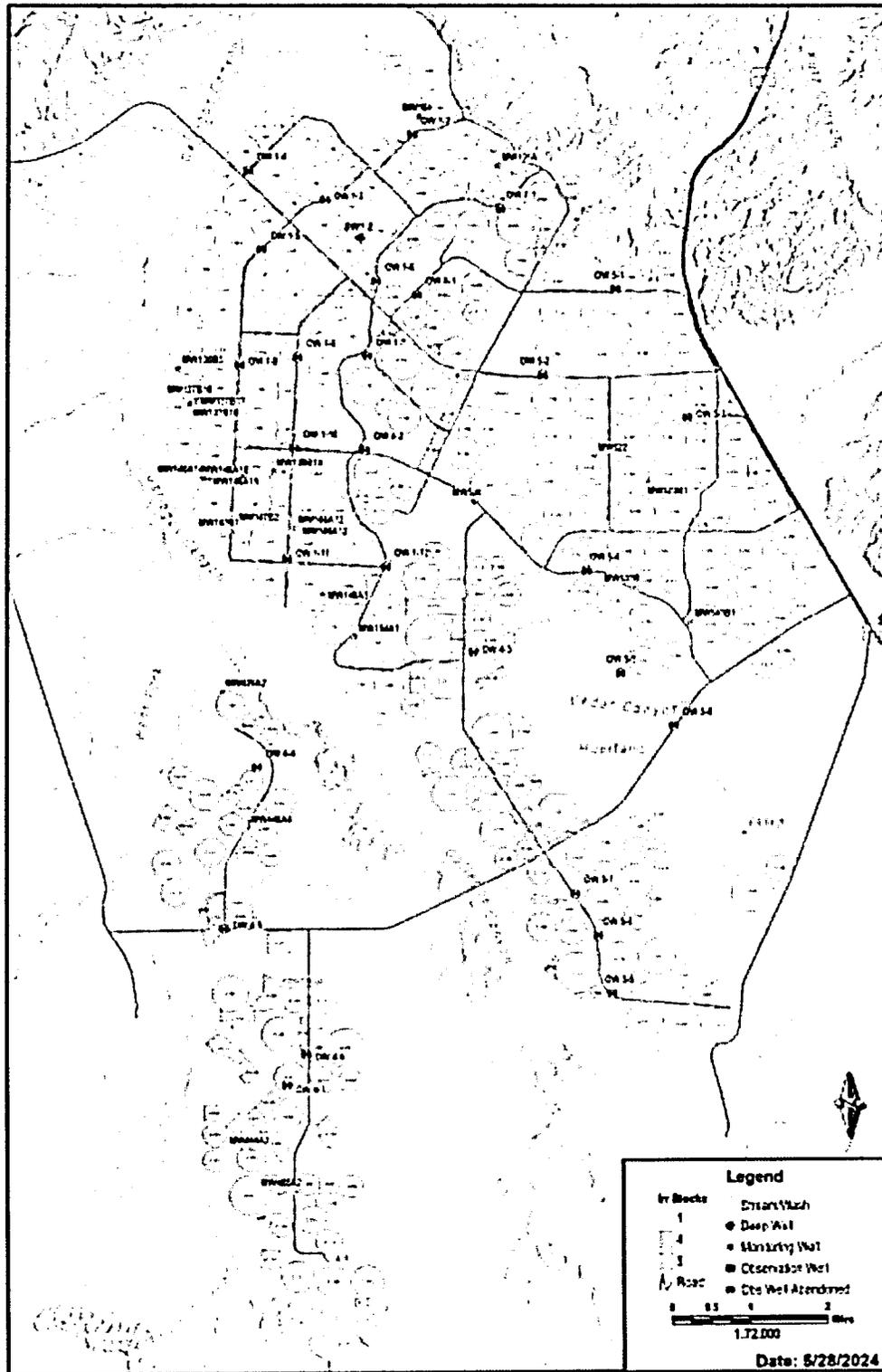


Figure A-1. NIP Region 1 Well Locations and Subsurface Drain Sample Sites

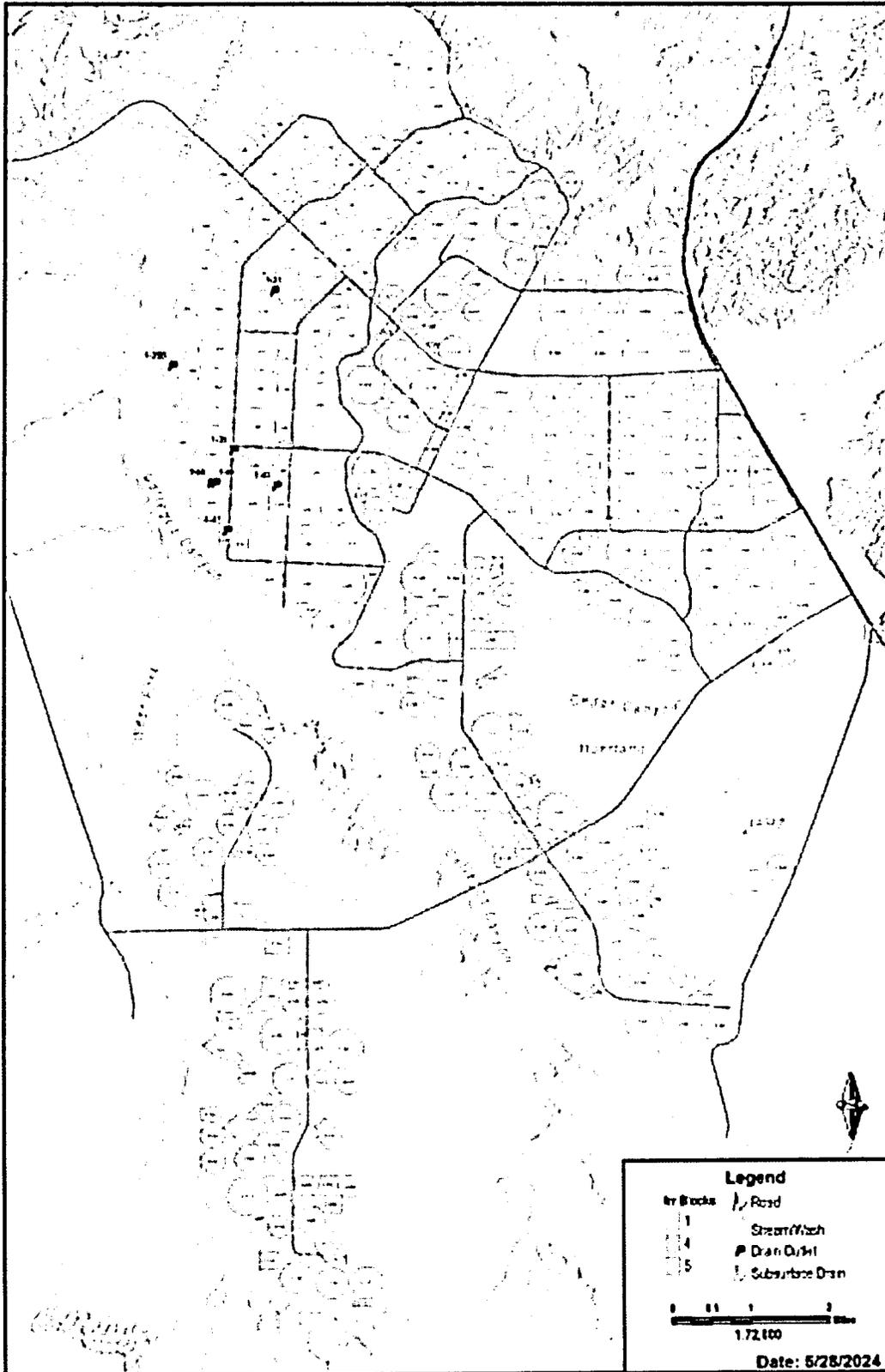


Figure A-2. NIP Region 1 Subsurface Drain Alignments and Sample Sites

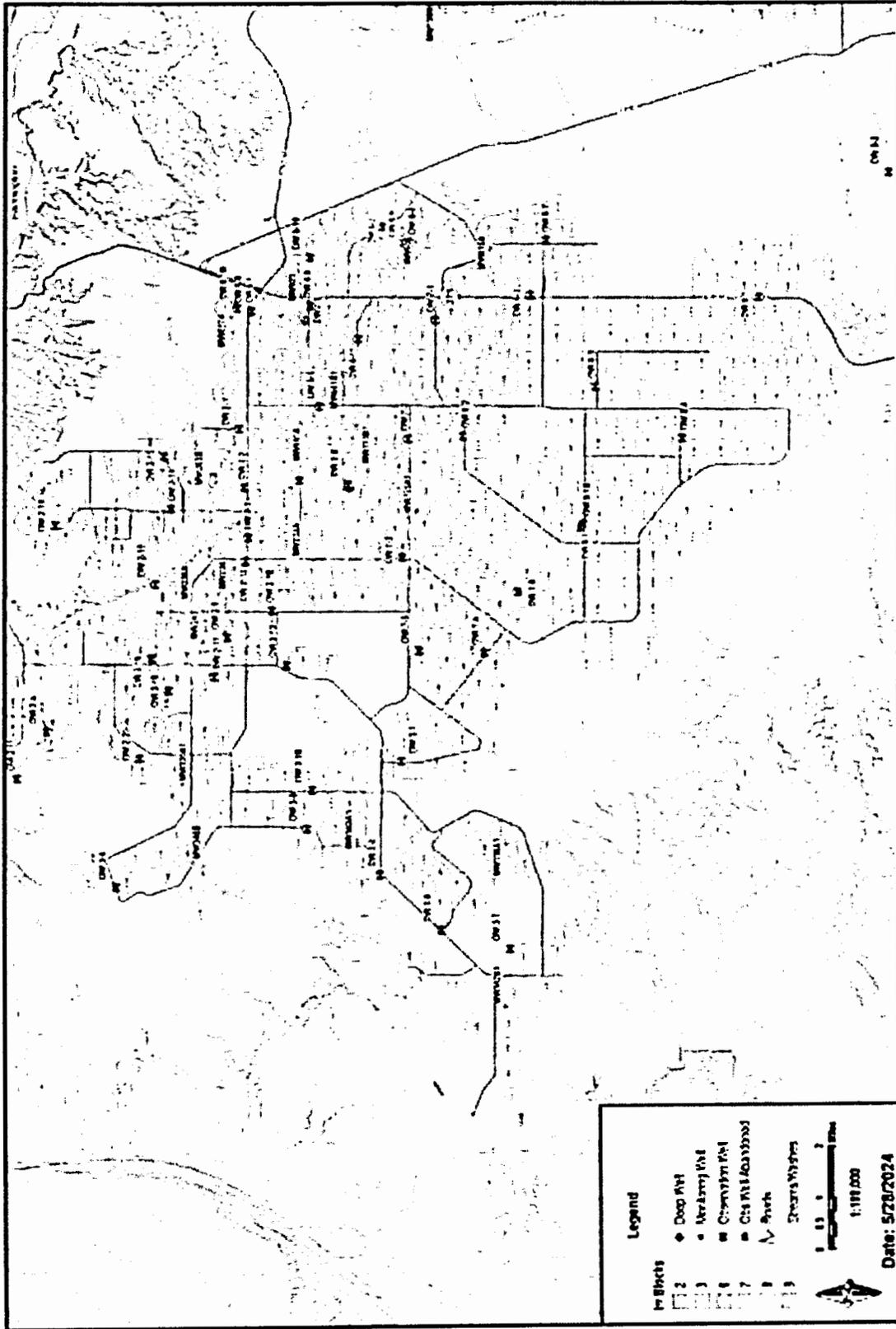


Figure A-3. NIP Region 2 Well Locations and Subsurface Drain Sample Sites - Wells Not Shown for Blocks 10 and 11

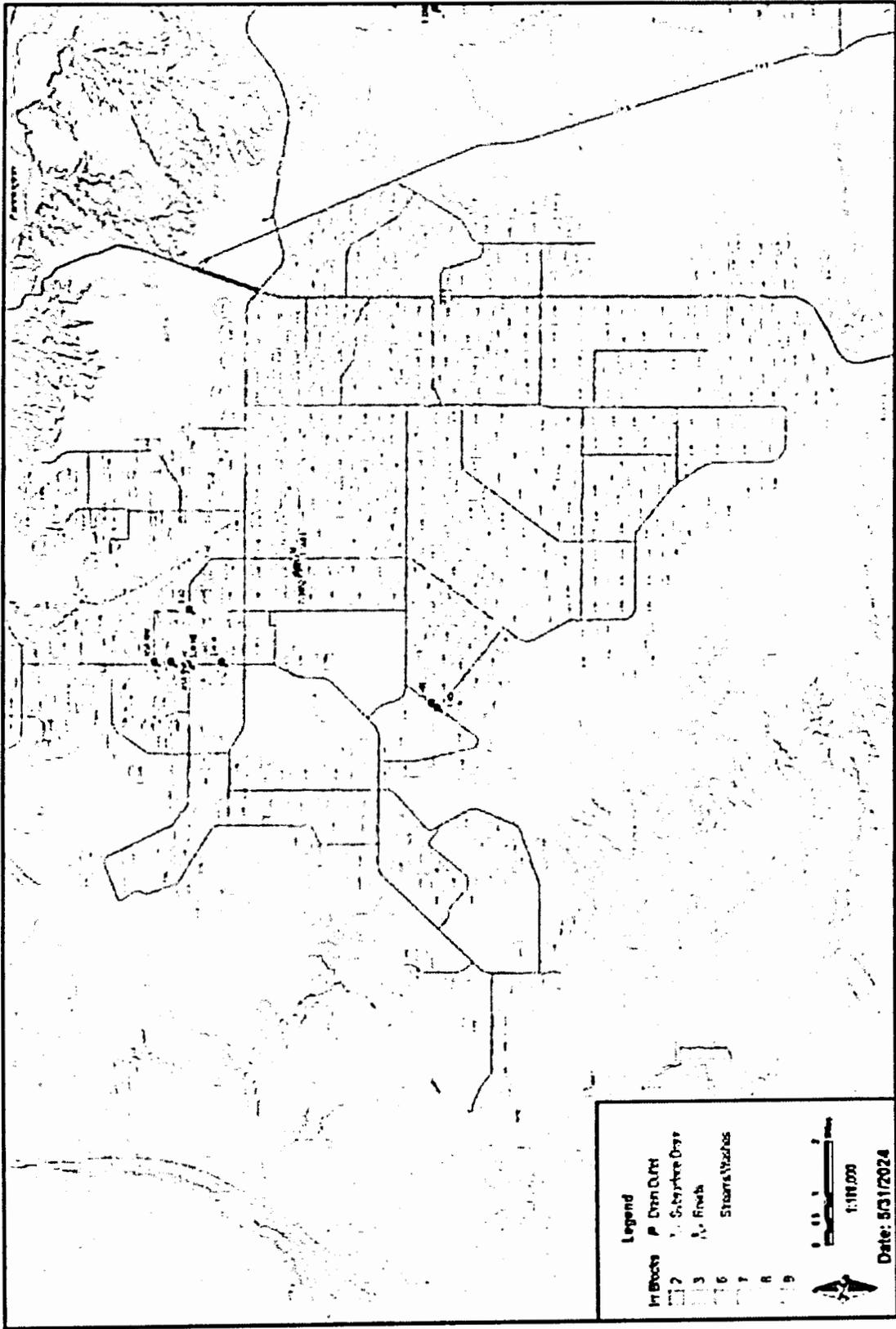


Figure A-4. MIP Region 2 Subsurface Drain Alignments and Sample Sites

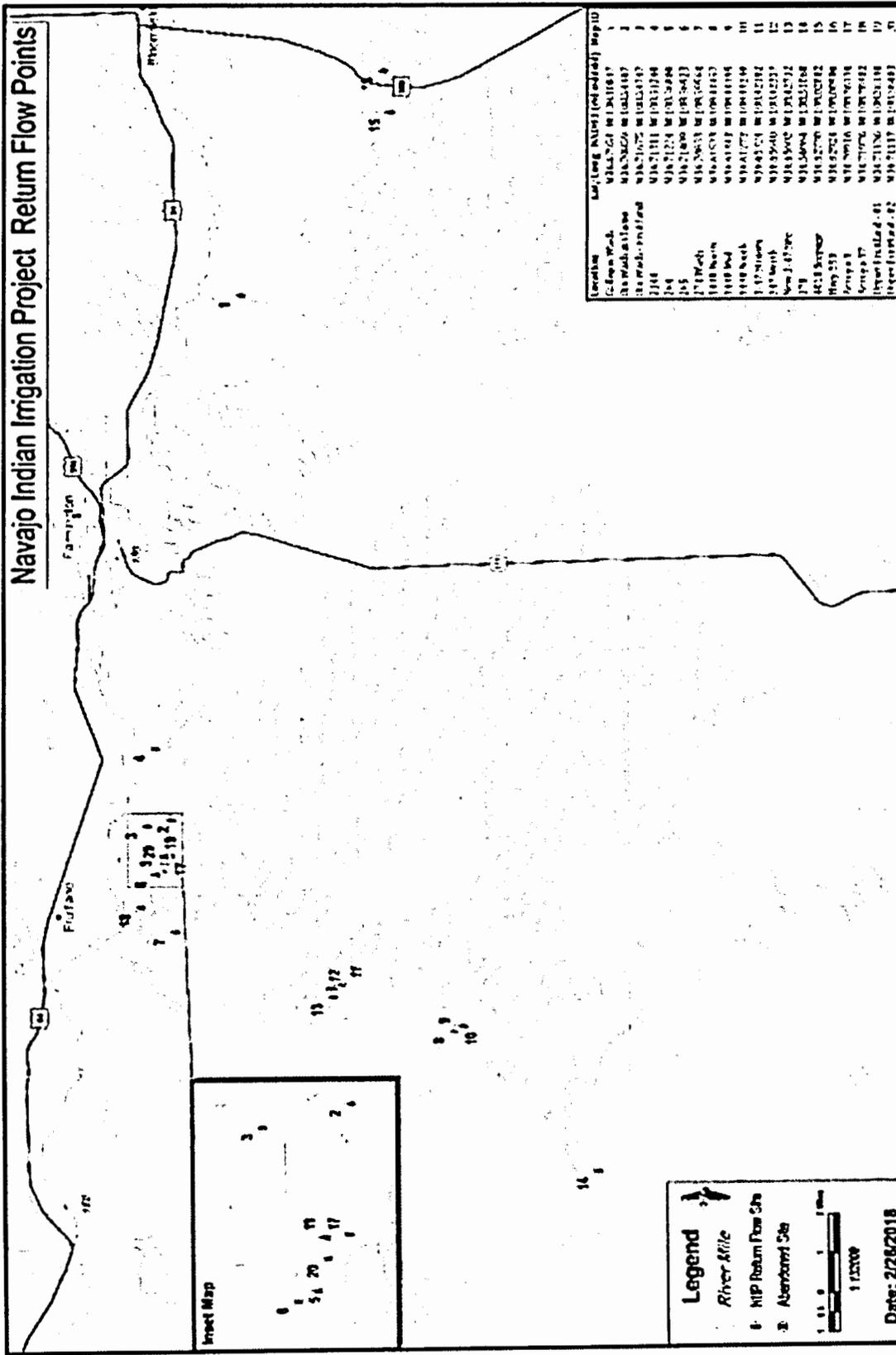


Figure A-5. MIP Return Flow Monitoring Sites

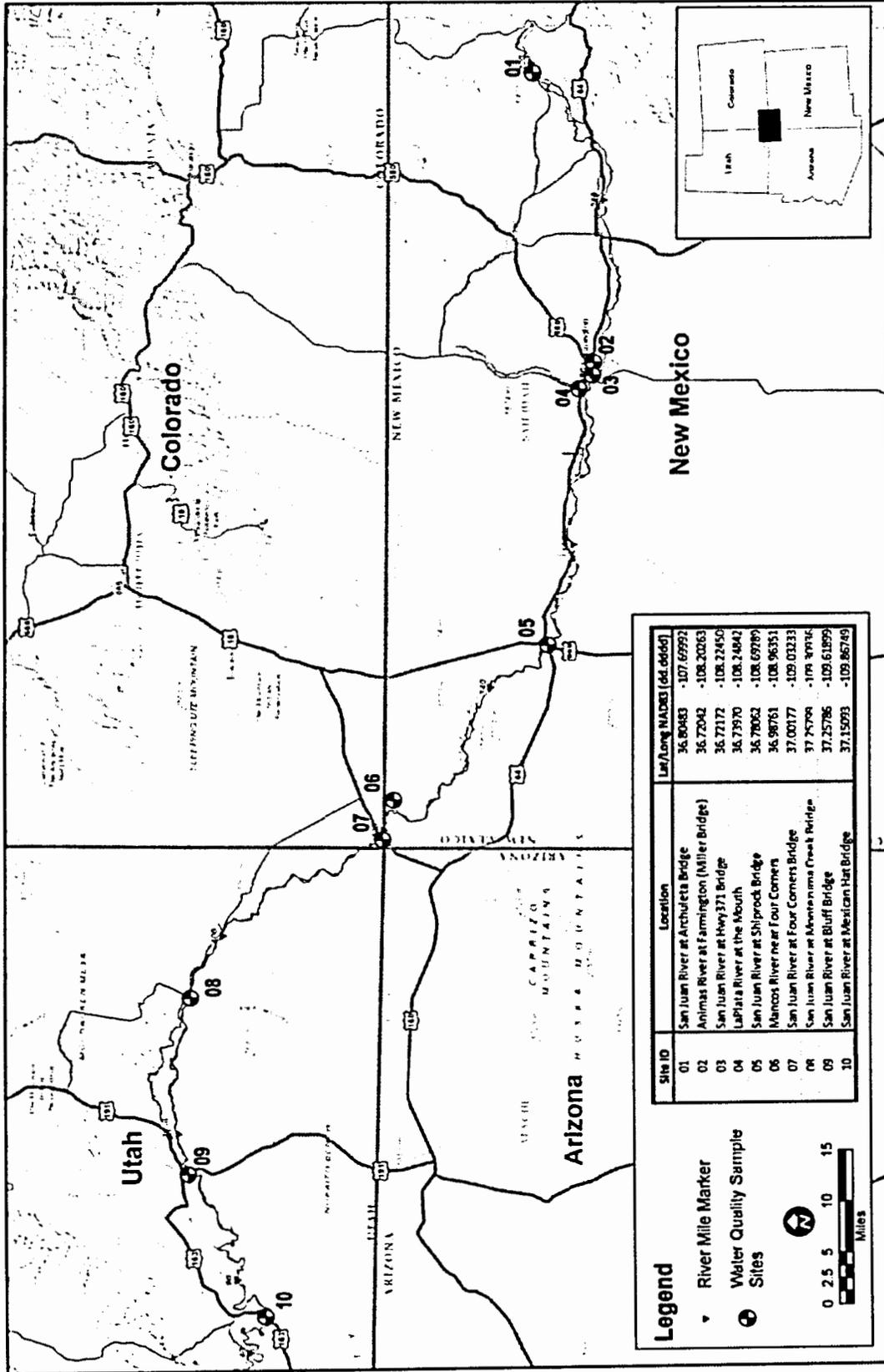


Figure A-4. San Juan River and Tributary Water Quality Sampling Sites

# **ATTACHMENT 4**

## **Federal Acquisition Regulations (FAR)**

The following clauses are hereby incorporated into the contract and the contractor agrees to incorporate the clauses into each applicable subcontract.

<u>48 CFR Reference</u>	<u>Title</u>
52.202-1	Definitions (JUL 2004)
52.203-3	Gratuities (APR 1984)
52.203-5	Covenant Against Contingent Fees (APR 1984)
52.203-7	Anti-Kickback Procedures (JUL 1995)
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity (JAN 1997)
52.203-12	Limitation on Payments to Influence Certain Federal Transaction (JUNE 2005)
52.204-07	Central Contractor Registration (OCT 2003)
52.209-6	Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JAN 2005)
52.211.10	Commencement, Prosecution, and Completion of Work (APR 1984)
52.211.12	Liquidated Damage-Construction (SEPT 2000)
52.211.13	Time Extensions (SEPT 2000)
52.211.18	Variations in Estimated Quantities (APR 1984)
52.214-26	Audit and Records- Sealed Bidding (OCT 1997)
52.214-27	Price Reduction for Defective Cost or Pricing Data-Modification-Sealing Bidding (OCT 1997)
52.214-28	Subcontractor Cost or Pricing Data- Modifications-Sealed Bidding (OCT 1997)
52.219-8	Utilization of Small Business Concerns (MAY 2004)
52.219-14	Limitations of Subcontracting (DEC 1996)
52.222.1	Notice to the Government of Labor Disputes (FEB 1997)
52.222-3	Convict Labor (June 2003)
52.222-4	Contract Work Hours and Safety Standards Act-Overtime Compensation (JUL 2005)
52.222-6	Davis-Bacon Act (JUL 2005)
52.222-7	Withholding of Funds (FEB 1988)
52.222-08	Payrolls and Basic Records (FEB 1988)
52.222-9	Apprentices and Trainees (JUL 2005)
52.222-10	Compliance with Copeland Act Requirements (FEB 1988)
52.222-11	Subcontracts (Labor Standards) (JUL 2005)
52.222-12	Contract Termination-Debarment (FEB 1988)
52.222-13	Compliance with Davis-Bacon and Related Act Regulations (FEB 1988)
52.222-14	Disputes Concerning Labor Standards (FEB 1988)
52.222-15	Certification of Eligibility (FEB 1988)
52.222-21	Prohibition of Segregated Facilities (FEB 1999)
52.222-26	Equal Opportunity (APR 2002)
52.222-27	Affirmative Action Compliance Requirements for Construction (FEB 1999)
52.222-35	Affirmative Action for Special Disabled and Vietnam Era Veterans (DEC 2001)
52.222-36	Affirmative Action for Workers with Disabilities (JUN 1998)
52.222-37	Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)
52.223-3	Hazardous Material Identification and Material Safety Data (JAN 1997)
52.223-6	Drug-Free Workplace (MAY 2001)
52.225-9	Buy American Act – Construction Materials (JAN 2005)
52.226-1	Utilization of Indian Organizations and Indian-Owned Economic Enterprises (JUNE 2000)
52.227-1	Authorization and Consent (JULY 1995)
52.227-4	Parent Indemnity-Construction Materials (APR 1984)
52-228-1	Bid Guarantees (SEP 1996)
52-228-2	Additional Bond Security (OCT 1997)
52-228-5	Insurance-Work on a Government Installation (JAN 1997)
52.228-11	Pledges of Assets (FEB 1992)
52.228-12	Prospective Subcontractor Requests for Bonds (OCT 1995)
52.228-15	Performance and Payment Bonds – Construction (SEP 2005)
52.229-3	Federal, State, and Local Taxes (APR 2003)
52.232-5	Payments under Fixed-Price Construction Contract (SEP 2002)
52.232-27	Prompt Payment for Construction Contracts (SEP 2005)
52.233-01	Disputes (JUL 2002)
52-236-1	Performance of Work by Contractor (APR 1984)
52.236-2	Differing Site Conditions (APR 1984)
52.236-3	Site Investigation and Conditions Affecting the Work (APR 1984)
52.236-4	Physical Data (APR 1984)
52.236-5	Material and Workmanship (APR 1984)

52.236-6 Superintendence by the Contractor (APR 1984)  
 52.236-7 Permits and Responsibilities (NOV 1991)  
 52.236-8 Other Contracts (APR 1984)  
 52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities and Improvements (APR 1984)  
 52.236-10 Operation and Storage Area (APR 1984)  
 52.236-11 Use and Possession Prior to Completion (APR 1984)  
 52.236-12 Cleaning Up (APR 1984)  
 52.236-13 Accident Prevention (NOV 1991)  
 52.236-14 Availability and Use of Utility Services (APR 1984)  
 52.236-15 Schedules of Construction Contracts (APR 1984)  
 52.236-16 Quantity Surveys (APR 1984)  
 52.236-17 Layout of Work (APR 1984)  
 52.236-21 Specifications and Drawings for Construction (FEB 1997)  
 52.236-26 Preconstruction Conference (APR 1995)  
 52.242.13 Bankruptcy (JUL 1995)  
 52.242-14 Suspension of Work (APR 1984)  
 52.243-4 Changes (AUG 1987)  
 52.243-5 Changes and Changed Conditions (APR 1984)  
 52.246-12 Inspection of Construction (AUG 1996)  
 52.246-21 Warranty of Construction (APR 1984)  
 52.249-1 Termination for Convenience of the Government (Fixed-Price) (Short Form) (APR 1984)  
 52.249-2 Termination for Convenience of the Government (Fixed-Price), Alternate 1 (May 2004)  
 52.249-10 Default (Fixed-Price Construction) (APR 1984)  
 1452.204-70 Release of Claims – Department of the Interior (JUL 1996)  
 1452.204-71 Indian Preference-Department of Interior (April 1984)  
 1452.204-72 Indian Preference Program-Department of Interior (April 1984)  
 1452.228-70 Liability Insurance – Department of Interior (JUL 1996)

# **ATTACHMENT 5**

## **Wage Determinations – Department of Labor Davis Bacon Act Wage Rates**

General Decision Number: NM20240040

State: New Mexico

Construction Type: Heavy HEAVY  
CONSTRUCTION PROJECTS

County: San Juan County in New Mexico. HEAVY

CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	01/24/2025

\* CARP1319-011 01/01/2025

Rates	Fringes
CARPENTER (Form Work Only).....\$ 27.31	13.18

-----  
ELEC0611-001 01/01/2017

	Rates	Fringes
ELECTRICIAN.....	\$34.50	10.81

-----  
\* SUNM2016-009 09/26/2018

	Rates		Fringes
CARPENTER, Excludes Form Work.....	\$16.43	**	0.00
CEMENT MASON/CONCRETE FINISHER...\$	19.44		8.08
IRONWORKER, REINFORCING.....	\$27.80		0.00
LABORER: Common or General.....	\$14.87	**	3.36
LABORER: Pipelayer.....	\$16.67	**	3.04
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$20.85		4.19
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$21.06		0.00
OPERATOR: Bulldozer.....	\$21.00		0.00
OPERATOR: Grader/Blade.....	\$19.02		0.00
OPERATOR: Loader.....	\$18.30		0.00
OPERATOR: Oiler.....	\$18.23		0.00
OPERATOR: Roller.....	\$18.83		0.00
TRUCK DRIVER: Dump Truck.....	\$15.53	**	0.00

-----  
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====  
\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

-----  
The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

#### Union Rate Identifiers

A four-letter identifier beginning with characters other than "SU", "UAVG", "SA", or "SC" denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

#### Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the

collective bargaining agreements on which the rate is based. Survey

#### Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

#### State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

-----  
**WAGE DETERMINATION APPEALS PROCESS**

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to [davisbaconinfo@dol.gov](mailto:davisbaconinfo@dol.gov) or by mail to:

Branch of Wage Surveys Wage  
and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

Regarding any other wage determination matter such as

conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W. Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W. Washington, DC 20210.

===== END OF GENERAL DECISION"

**ATTACHMENT 6**

**DI-137, Release of Claims Form**

Contract Number:

UNITED STATES  
DEPARTMENT OF THE INTERIOR

Date:

**RELEASE OF CLAIMS**

WHERE AS, by terms of the above contract for

, entered into by the United States of America, hereinafter also referred to as the

United States, and the contractor

, it is provided that after completion of all work, and prior to final payment,

the contractor will furnish the United States with a release of all claims;

NOW, THEREFORE, in consideration of the above premises and the payment by the United States to the contractor of the amount now due

under the contract, to wit, the sum of \_\_\_\_\_ dollars( \_\_\_\_\_ ), the

contractor hereby remises, releases, and forever discharges the United States, its officers, agents, and employees, of and from all manner of debts, dues, liabilities, obligations, accounts, claims, and demands whatsoever, in law and in equity, under or by virtue of the said contract except:

IN WITNESS WHEREOF, the contractor has \_\_\_\_\_ executed this \_\_\_\_\_ day of, \_\_\_\_\_ 20 \_\_\_\_\_  
release this \_\_\_\_\_

\_\_\_\_\_  
(Contractor)

By \_\_\_\_\_  
(Signature)

Corporation

Partnership

Joint Venture

Individual

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street Number or R.F.D.)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(City, State, & Zip Code)

**COMPLETE ONLY IF CONTRACTOR IS A CORPORATION**

I, \_\_\_\_\_, certify That I am the \_\_\_\_\_, who  
of the corporation named as contractor herein; that \_\_\_\_\_  
signed this release on behalf of the corporation, was then \_\_\_\_\_  
of said corporation; and that

said release as duly signed for and on behalf of said corporation by authority of its governing body.

---

(SEAL)

\_\_\_\_\_  
(Signature)

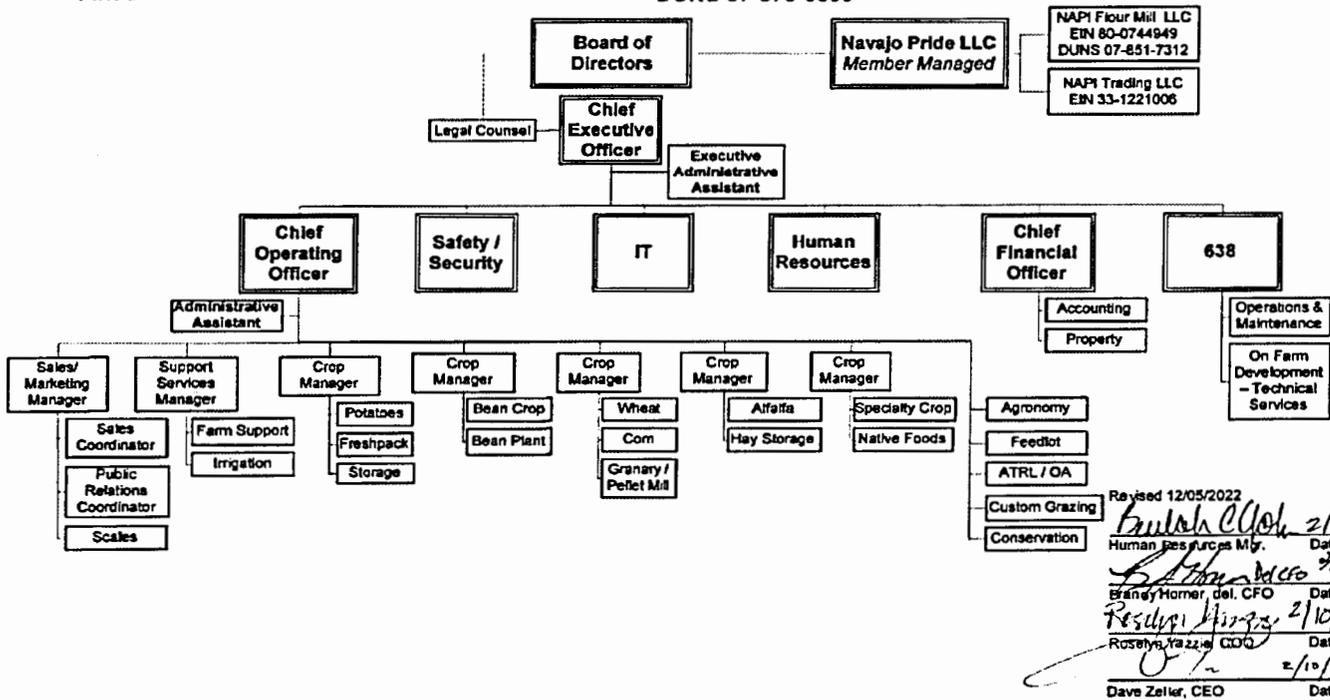
**ATTACHMENT 7**

**Navajo Agricultural Products Industry Organizational  
Structure & Board Member Listing**



# Navajo Agricultural Products Industry

Organizational Chart  
 EIN 85-0218765  
 DUNS 07-576-0850



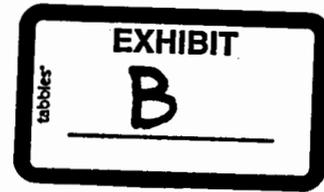


**NAVAJO AGRICULTURAL PRODUCTS INDUSTRY  
2025 - BOARD OF DIRECTORS**

<b>BOARD OF DIRECTOR</b>	<b>REPRESENTING:</b>	<b>TERM</b>
<b>Lawrence R. Platero</b> P.O. Box Albuquerque, N. M. 87125 Cell No.: Email:	<b>Eastern Agency</b>	<b>Term: Three-Years</b> <b>Term Ends: October 28, 2017</b> RDC Resolution: RDCO-69-14
<b>Melissa Begay, Vice Chairperson</b> Los Lunas, NM 87031 Cell No.: Email:	<b>Chinle Agency</b>	<b>Term: Three-Years</b> <b>Term Ends: July 5, 2026</b> RDC Resolution: RDCJY-14-23
<b>Dustin K. Johnson</b> P.O. Box Farmington, NM 87499 Cell No.: Email:	<b>District 19</b>	<b>Term: Three-Years</b> <b>Term Ends: May 20, 2027</b> RDC Resolution: RDCMY-17-24
<b>Ernest Diswood</b> P.O. Box Kirtland, NM 87417 Cell No.: Email:	<b>District 13</b>	<b>Term: Three-Years</b> <b>Term Ends: May 20, 2027</b> RDC Resolution: RDCMY-18-24
<b>VACANT</b> Cell No.: Email:	<b>Western Agency</b>	<b>Term: Three-Years</b> <b>Term Ends: January 3, 2027</b> RDC Resolution: RDCJA-01-24



**RESOLUTION OF THE  
NAVAJO AGRICULTURAL PRODUCTS INDUSTRY  
BOARD OF DIRECTORS**



**Requesting the Resources Development Committee to Recommend and the Naabik'iyáti' Committee of the Navajo Nation Council to Authorize the Navajo Agricultural Products Industry to Contract on Behalf of the Navajo Nation with the Bureau of Indian Affairs for the Operation and Maintenance, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring on the Navajo Indian Irrigation Project Beginning with Calendar Year 2026 and Subsequent Calendar Years Under a Mature Contract Status**

**WHEREAS:**

1. The Navajo Agricultural Products Industry ("NAPI") is a wholly owned enterprise of the Navajo Nation charged with operating and managing a commercial farm on land held in trust by the United States for the Navajo Nation under legislation authorizing the Navajo Indian Irrigation Project ("NIIP"); and

2. Pursuant to NAPI's Plan of Operation, adopted by the Resources and Development Committee by Resolution No. RDCS-049-19 (Sept. 27, 2019), the NAPI Board of Directors ("NAPI Board") is delegated the authority and responsibility for the management, direction and operation of NAPI, to direct officers of NAPI in the execution of their duties, and to perform such acts as are necessary, proper, and lawful to accomplish the purposes of NAPI; and

3. NAPI performs certain functions under a mature contract with the United States Department of the Interior, Bureau of Indian Affairs ("BIA"), approved under the Indian Self-Determination and Education Assistance Act, 25 U.S.C. § 5301, et seq., commonly referred to as Public Law 93-638, such agreements relating to Operations and Maintenance ("O&M"), On-Farm Development ("OFD"), Agricultural Testing and Research Laboratory ("ATRL"), and Water Quality Monitoring ("WQM"); and

4. The purpose of NAPI is to plan, develop and promote the use of agricultural land, water and related resources for the use of NAPI and the NIIP resulting in a profit for NAPI and to prevent waste of valuable resources; and

5. Pursuant to Article 7(O) and (Q) of NAPI's Plan of Operation, NAPI has the authority to enter contracts for any lawful purposes set forth in Article 3 and to apply for and accept grants and enter into contracts, agreements or other transactions with any Federal Agency; and

6. NAPI has continuously and successfully administered the NIIP Operation and Maintenance, On-Farm Development, Agricultural Testing and Research Laboratory, and Water Quality Monitoring programs within limited funds provided by the BIA each calendar year and consistent with all contractual requirements; and

7. Public Law 93-638, as amended, under Section 105 (C)(1) provides for a definite or indefinite term “mature contract” where the Tribal organization has continuously operated a contract for three or more years, and for which there are no significant or material audit exceptions in the annual audit of the Tribal organization; and

8. The NAPI Board of Directors requests that the Resources and Development Committee recommend and the Naabik’íyáti’ Committee of the Navajo Nation Council authorize NAPI to contract on behalf of the Navajo Nation with the Bureau of Indian Affairs for the O&M, OFD, ATRL, and WQM on the NIIP beginning with Calendar Year 2026 and subsequent calendar years under a mature contract status, which is outlined in the contract, attached hereto as Exhibit “A.”

**NOW THEREFORE BE IT RESOLVED THAT:**

1. The NAPI Board of Directors requests that the Resources Development Committee recommend and the Naabik’íyáti’ Committee of the Navajo Nation Council authorize NAPI to contract on behalf of the Navajo Nation with the Bureau of Indian Affairs for the “Operation and Maintenance”, “On-Farm Development”, “Agricultural Testing and Research Laboratory”, and “Water Quality Monitoring” on the Navajo Indian Irrigation Project beginning with Calendar Year 2026 and subsequent calendar years under a mature contract status, which is outlined in the contract, attached hereto as Exhibit “A”.

2. The NAPI Board of Directors authorizes and directs the Chief Executive Officer to take any and all actions necessary to carry out the purpose and intent of this Resolution.

**CERTIFICATION**

I hereby certify that the foregoing resolution was considered by the Navajo Agricultural Products Industry Board of Directors at a duly called special meeting at which a quorum was present at NAPI Headquarters located near Farmington, New Mexico, and that the same was passed by vote of 2 in favor, 0 opposed, and 1 abstained, this 22<sup>nd</sup> day of February 2025.

Motion: Ernest Diswood

Second: Dustin Johnson

  
Lawrence R. Platero, Chairperson  
NAPI Board of Directors

NAVAJO NATION

758

9/25/2025  
02:26:31 PM

Naa'bik'iyati' Committee Regular Meeting

Amd# to Amd# MOT Jesus, B SEC Notah, N	New Business: Item A. [1ST CONSENT AGENDA] - #'s 0198-25;0210/0211/0212-25; 0217-25;0043-25
--	--

PASSED

Yeas : 20

Nays : 0

Excused : 2

Not Voting : 1

Yea : 20

Arviso, S	James, V	Nez, R	Tolth, G
Begay, H	Jesus, B	Notah, N	Tso, O
Begay, N	Johnson, C	Parrish, S	Yanito, C
Charles-Newton, E	Mitchell, A	Simonson, G	Yazzie, C
Crotty, A	Nez, A	Slater, C	Yazzie, L

Nay : 0

Excused : 2

Claw, S	Daniels, H
---------	------------

Not Voting : 1

Simpson, D

Presiding Speaker: Curley, C