PROJECT SUMMARY
HOPI ARSENIC MITIGATION PROJECT
AND POLACCA WEST TANK REPLACEMENT EPA SDWTSA 2015
HOPI INDIAN RESERVATION
NAVAJO AND COCONINO COUNTIES, ARIZONA

PROJECT NO. PH 15-U76
PUBLIC LAW 86-121

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
PHOENIX AREA OFFICE

JUNE 2015

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INTRODUCTION

The Hopi Tribe has been approved for an Environmental Protection Agency (EPA) Safe Drinking Water Tribal Set-Aside grant to improve water facilities in the Village of Polacca and has requested Indian Health Service (IHS) assistance to make the proposed improvements in Polacca, Hopi Indian Reservation.

It is proposed in this project to install piping to the west Polacca tank site which will serve as a water transmission main, thereby allowing direct connection to the tank as opposed to the tank "floating" on the distribution system, in either a regional system or treatment system scenario per the Preliminary Engineering Report dated August 2014. This project will also replace the deteriorating 200,000 gallon Polacca West Tank with a 250,000 gallon tank. The EPA, through a SDWTSA grant, is contributing all project funding.

EXISTING SANITATION FACILITIES

Water Supply: **Polacca (First Mesa Consolidated Villages, FMCV)** - The water system has three pressure zones. These zones contain two functioning wells, which are identified as Wells #5 and #8. These wells each have capacities of 100 GPM. Wells #1, 2, 3 and 4 have been abandoned. Wells #6 and 7 are currently not in use. Zone 1 has a 500,000-gallon tank; zone 2 has one 200,000-gallon tank; and zone 3 has an 8,500-gallon gravity tank with a pressure booster system. Approximately 450 homes are served by this system. Project PH 04-S63 was funded to address arsenic mitigation for the Polacca Public Water System.

B. Wastewater Disposal: **Polacca (First Mesa Consolidated Villages, FMCV)** - The FMCV's wastewater disposal system includes a six cell lagoon treatment system totaling 9.9 acres, with 14.8 acres of wastewater disposal area, making the total area of the wastewater treatment facility 24.7 acres. The facilities serve approximately 450 homes and 10 businesses.

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C. Solid Waste Disposal: The Hopi Tribe, in conjunction with the IHS and a HUD Community Development Block Grant (CDBG), has developed a solid waste disposal program for the entire Reservation. A RCRA compliant landfill has been designed and constructed, and is now in operation on the Reservation.

RECOMMENDED FACILITIES

A. Water: The proposed facilities include 2,450 feet of 8-inch water main, altitude valve and vault, tank yard piping, geotechnical foundation analysis, water sampling building, outlet meter vault, a 250,000 gallon water storage tank, cathodic protection with power line extension, chain link fencing, and demolition of the existing 200,000 gallon water storage tank.

B. Sewer: No wastewater disposal facilities are recommended under this Project. Projects are underway or are being planned to improve sewer facilities on the Reservation.

C. Solid Waste: No solid waste facilities are recommended under this Project. Existing facilities are adequate.

ENVIRONMENTAL CONSIDERATIONS

IHS conducted an environmental review of the scope of work under this project in accordance with IHS environmental review policies. The review indicates that an environmental assessment is required for the greater regional project. The environmental assessment funded under IHS project PH 11-E55 will be completed prior to the commencement of construction.

OPERATION AND MAINTENANCE (O&M)

The proposed facilities constructed under this project will be operated and maintained by a Tribally endorsed management entity tentatively titled the Hopi Public Utility Authority as defined in the "Hopi Water System Strategic Plan". Until such time as a Tribal entity takes over operation and/or maintenance of facilities installed, the facilities installed will be owned, operated, and maintained by First Mesa Consolidated Villages, which owns and operates the existing facilities in Polacca.

COST ESTIMATE

The estimated cost of the project, $700,000.00, is being contributed by the EPA through a SDWTSA grant. Project construction will be completed by Tribal procurement and force account.

Item	Description	Quantity	Units	Units Cost	Total
1	8" Water Main, 235 PSI rated	2,450	LF	$ 37.75	$ 92,487.50
2	Altitude Valve and Vault	1	LS	$ 30,000.00	$ 30,000.00
3	West Tank Yard Piping	1	LS	$ 20,000.00	$ 20,000.00
4	Geotechnical Evaluation	1	LS	$ 8,500.00	$ 8,500.00
5	Water Sampling Building	1	LS	$ 12,000.00	$ 12,000.00
6	Outlet Meter Vault	1	LS	$ 20,000.00	$ 20,000.00
7	250,000 Gallon Water Storage Tank	250,000	GAL	$ 1.25	$ 312,500.00
8	Cathodic Protection	1	LS	$ 10,000.00	$ 10,000.00
9	Power Line Extension	1	LS	$ 18,000.00	$ 18,000.00
10	Chain Link Fence	1	LS	$ 11,000.00	$ 11,000.00
11	Demolish Existing 200,000 Storage Tank and Abandon Site	1	LS	$ 31,000.00	$ 31,000.00
				Construction Total:	**$ 565,487.50**

Planning & Design Total (Schedule A)		**$ -**	
Construction Total (Schedule B)		**$ 565,487.50**	
O&M Support Total (Schedule C)		**$ -**	
Contingency (Schedules A, B, & C)		**$ 28,274.38**	5.00%
		Subtotal	**$ 593,761.88**
TERO	0.5%	**$ 2,968.81**	
Tribal Procurement 1=YES, 0=NO	1		
Tribal Administrative Support Fee		**$ 14,125.24**	$6250+2%over$200,000
		Subtotal Tribal Fees	**$ 17,094.05**
PROFESSIONAL FEES:			
IHS Engineering Program Support (EPS)		**$ 29,688.09**	5.00
		Subtotal Professional Fees	**$ 29,688.09**
IHS Project Technical Support Fee (PTS)		**$ 59,376.19**	10.00%
		Subtotal PTS	**$ 59,376.19**
		Total	**$ 699,920.20**
		Rounded	**$ 700,000.00**

SUMMARY

Maximum Contribution to the Tribe	$610,855.92
Project Technical Support	59,376.19
Engineering Program Support	29,688.09
Total	$699,920.20
Total Rounded	$700,000.00

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POLACCA EPA SDWTSA
HOPI INDIAN RESERVATION
NAVAJO AND COCONINO COUNTIES, ARIZONA

PROJECT NO. PH 15-U76
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PREPARED BY:

Date	Jesse DeCoteau Project Engineer

REVIEWED BY:

Date	Robert Lorenz, P.E. District Engineer

APPROVED BY:

Date	Eric Matson, P.E., Acting Director Division of Sanitation Facilities Construction

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EXHIBIT 5 NEW PROJECT OR MODIFIED PROJECT APPROVAL FORM
PHOENIX AREA INDIAN HEALTH SERVICE SANITATION FACILITIES PROJECT

ASSIGNED PROJECT NUMBER	PROJECT TITLE AND DATE	TOTAL PROJECT ESTIMATED COST	
PH 15-U76	POLACCA EPA SDWTSA	IHS	$
	HOPI RESERVATION	TRIBAL	$
	JUNE 2015	L.H.A.	$
		EPA	$700,000
		TOTAL	$700,000

PROJECT DESCRIPTION: ON THE HOPI INDIAN RESERVATION.

UNDER AND PURSUANT TO PUBLIC LAW 86-121 AND THE AUTHORITY DELEGATED TO ME, I HEREBY APPROVE THE SANITATION FACILITIES PROJECT OR MODIFIED PROJECT OUTLINED IN THE ATTACHED PROJECT SUMMARY OR AMENDED PROJECT SUMMARY DESCRIBED ABOVE.

THIS ACTION: __X__ APPROVES A NEW SANITATION FACILITIES CONSTRUCTION PROJECT
_____ APPROVES AN AMENDMENT TO A PREVIOUSLY APPROVED PROJECT
_____ INCREASES THE COST ESTIMATED OF A PREVIOUSLY APPROVED PROJECT

NEGOTIATION OF NECESSARY AGREEMENTS OR AGREEMENT AMENDMENTS RELATED TO PROJECT EXECUTION, CONTRIBUTIONS, AND RESPONSIBILITIES FOR OPERATION AND MAINTENANCE OF THE PLANNED FACILITIES MAY NOW BE INITIATED. NEGOTIATIONS SHALL BE BASED UPON THE PROJECT SUMMARY OR AMENDED PROJECT SUMMARY AS APPROVED. INDIAN HEALTH SERVICE COMMITMENTS SHALL NOT EXCEED THE ESTIMATED SET FORTH ABOVE.

THE ASSIGNED PROJECT NUMBER SHALL BE UTILIZED ON ALL CORRESPONDENCE AND DOCUMENTS RELATED TO THIS PROJECT.

JESSE DECOTEAU IS HEREBY DESIGNATED AS PROJECT OFFICER AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL ACTIVITIES RELATED TO THE EXECUTION OF THE PROJECT.

UPON RECEIPT OF A "REQUEST FOR TRANSFER OF FUNDS BETWEEN PUBLIC LAW 86-121 PROJECT ACCOUNTS" FROM THE AREA OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING, THE AREA FINANCIAL MANAGEMENT OFFICER IS HEREBY INSTRUCTED TO ESTABLISH A NEW PROJECT ACCOUNT IF NECESSARY AND TO TRANSFER INTO SUCH ACCOUNT OR PREVIOUSLY ESTABLISHED ACCOUNT AN AMOUNT EQUAL TO THE ESTIMATED COST SET FORTH ABOVE LESS AMOUNTS PREVIOUSLY TRANSFERRED. OBLIGATIONS AND EXPENDITURES RELATED TO THE PROJECT ARE TO BE CHARGED TO THIS ACCOUNT.

FUND CERTIFICATIONS:

DATE: _____
FUNDS IN THE AMOUNT OF THE IHS ESTIMATED COST LESS AMOUNTS PREVIOUSLY TRANSFERRED TO THIS PROJECT ARE AVAILABLE IN THE AREA AND RESERVED FOR THIS PROJECT.

_____
AREA FINANCIAL MANAGEMENT OFFICER

APPROVAL RECOMMENDED:

_____ _____
DIRECTOR, DIVISION OF SANITATION FACILITIES CONSTRUCTION — DATE

CONCURRENCE:

_____ _____
ASSOCIATE DIRECTOR, OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING — DATE

_____ _____
DIRECTOR, PHOENIX AREA INDIAN HEALTH SERVICE — DATE

CC: SERVICE UNIT DIRECTOR
DIR., IHS, ATTN: DIR., OEH
AREA FINANCIAL MGM'T OFFICER