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UPPER FEATHER RIVER IRWM PROJECT INFORMATION FORM

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Please submit by 5:00 p.m. on August 3, 2015, to UFR.contact@gmail.com

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

Agency / Organization	Lake Almanor Water Group
Name of Primary Contact	Aaron Seandel
Name of Secondary Contact	Charles Plopper, Courtney Gomola
Mailing Address	1207 Driftwood Cove Road, Lake Almanor CA 96137
E-mail	aseandel@frontiernet.net
Phone	530-259-4335
Other Cooperating Agencies / Organizations / Stakeholders	USDA Natural Resources Conservation Services (NRCS) Sierra Institute for Community and Environment
Is your agency/organization committed to the project through completion? If not, please explain	

II. GENERAL PROJECT INFORMATION

Project Title	FMW-2: Water Quality Monitoring Program – Lake Almanor
Project Category	<input type="checkbox"/> Agricultural Land Stewardship <input checked="" type="checkbox"/> Floodplains/Meadows/Waterbodies <input type="checkbox"/> Municipal Services <input type="checkbox"/> Tribal Advisory Committee <input type="checkbox"/> Uplands/Forest
Project Description (Briefly describe the project, in 300 words or less)	<p>To expand and extend lake and streamflow monitoring program in the Almanor Basin , and provide central clearing house (s) where monitoring data can be assessed and maintained, and programs of interest and for educational purposes about the watershed can be developed. distributed, and maintained.</p> <p>To continue the sampling program at Lake Almanor. The program of assessment and remediation has been an annual task of the Water Group, in conjunction with D.W.R. As the Almanor Basin goes through changes in population and land usage, it is important to document the impact of these changes on flow regimes, erosion</p>

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

	and stream degradation
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	All waterways in the County that are utilized for recreation purpose.and all streams and restoration projects in the County
Latitude:	Regional—covering entire Almanor Basin
Longitude:	

III. APPLICABLE IRWM PLAN OBJECTIVES ADDRESSED

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project outcomes will be quantified. If the project does not address *any* of the IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region.

Upper Feather River IRWM Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
Restore natural hydrologic functions.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Reduce potential for catastrophic wildland fires in the Region.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Build communication and collaboration among water resources stakeholders in the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Expand on communications between Lake Almanor Water Group (LAWG), Pacific Gas and Electric(PG&E), Department of Water Resources (DWR), and Natural Resource Conservation Services (NRCS)	
Work with DWR to develop strategies and actions for the management, operation, and control of SWP facilities in the Upper Feather River Watershed in order to increase water supply, recreational, and environmental benefits to the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Continuing to work cooperatively with DWR in the sampling program for Lake Almanor to improve recreational and environmental opportunities.	

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

Upper Feather River IRWM Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
Encourage municipal service providers to participate in regional water management actions that improve water supply and water quality.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Continue to actively engage in FERC relicensing of hydroelectric facilities in the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	A few members of LAWG have been involved with the current relicensing program for FERC 2105 since its inception .	
Address economic challenges of municipal service providers to serve customers.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Protect, restore, and enhance the quality of surface and groundwater resources for all beneficial uses, consistent with the RWQC Basin Plan.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Address water resources and wastewater needs of DACs and Native Americans.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Coordinate management of recharge areas and protect groundwater resources.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Improve coordination of land use and water resources planning.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Continue to work with local and County officials regarding land use and water availability.	
Maximize agricultural, environmental and municipal water use efficiency.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Effectively address climate change adaptation and/or mitigation in water resources management.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Have discussed this extensively in review of Draft Environmental Impact Report (DEIR) from the State Water Resources Control Board (SWRCB) re: Federal Energy Resources Commission (FERC) 2105	
Improve efficiency and reliability of water supply and other water-related infrastructure.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

Upper Feather River IRWM Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
Enhance public awareness and understanding of water management issues and needs.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Continue to have forums, distribution of printed materials regarding water management issues and needs	
Address economic challenges of agricultural producers.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
Work with counties/ communities/groups to make sure staff capacity exists for actual administration and implementation of grant funding.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

If no objectives are addressed, describe how the project relates to a challenge or opportunity for the Region:

IV. PROJECT IMPACTS AND BENEFITS

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do not leave a blank cell.** Note that DWR encourages multi-benefit projects.

If applicable, describe benefits or impacts of the project with respect to:		
a. Native American Tribal Communities	X YES	Work with the Native American communities in the development of a Cultural Center for the Maidus that relates current monitoring efforts to traditional uses of water.” to further monitoring efforts and interests in the Humbug Valley and Yellow Creek.
b. Disadvantaged Communities¹	X <input type="checkbox"/> N/A	
c. Environmental Justice²	X <input type="checkbox"/> N/A	
d. Drought Preparedness	X N/A	

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

<p>e. Assist the region in adapting to effects of climate change³</p>	<p>X <input type="checkbox"/> YES</p>	<p>Providing information regularly through announcements, forums and printed material on the effects of climate change re: the health of the lake (e.g. the impact of water temperatures on the health of cold water fish in the lake, as an example)</p>
<p>f. Generation or reduction of greenhouse gas emissions (e.g. green technology)</p>	<p>X <input type="checkbox"/> N/A</p>	
<p>g. Other expected impacts or benefits that are not already mentioned elsewhere</p>	<p>X N/A</p>	

¹ A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. DWR’s DAC mapping is available on the UFR website (<http://featherriver.org/maps/>) .

² Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities.

³ Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

DWR encourages multiple benefit projects which address one or more of the following elements (PRC §75026(a)). Indicate which elements are addressed by your project.

<p>a. Water supply reliability, water conservation, water use efficiency</p>	<p>x <input type="checkbox"/> N/A</p>	<p>g. Drinking water treatment and distribution</p>	<p>X N/A</p>
<p>b. Stormwater capture, storage, clean-up, treatment, management</p>	<p>x <input type="checkbox"/> Yes</p>	<p>h. Watershed protection and management</p>	<p>x Yes</p>
<p>c. Removal of invasive non-native species, creation/enhancement of wetlands, acquisition/protection/restoration of open space and watershed lands</p>	<p>x Yes</p>	<p>i. Contaminant and salt removal through reclamation/desalting, other treatment technologies and conveyance of recycled water for distribution to users</p>	<p>x <input type="checkbox"/> N/A</p>
<p>d. Non-point source pollution reduction, management and monitoring</p>	<p>x Yes</p>	<p>j. Planning and implementation of multipurpose flood management programs</p>	<p>x <input type="checkbox"/> N/A</p>
<p>e. Groundwater recharge and management projects</p>	<p>x <input type="checkbox"/> N/A</p>	<p>k. Ecosystem and fisheries restoration and protection</p>	<p>x <input type="checkbox"/> Yes</p>
<p>f. Water banking, exchange, reclamation, and improvement of water quality</p>	<p>x <input type="checkbox"/> N/A</p>		

V. RESOURCE MANAGEMENT STRATEGIES

For each resource management strategy (RMS) employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the RMS can be found in Volume 2 of the 2013 California Water Plan (<http://featherriver.org/2013-california-water-plan-update/>).

Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban water use efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Flood Management		
Flood management	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Improve Operational Efficiency and Transfers		
Conveyance – regional/local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
System reoperation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water transfers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Increase Water Supply		
Conjunctive management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Precipitation Enhancement	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Municipal recycled water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Surface storage – regional/local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Water Quality		
Drinking water treatment and distribution	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Groundwater remediation/aquifer remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching water quality to water use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pollution prevention	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The project will sample pollution sources and locations; green areas, golf courses et al. There is evidence of an increase in algae and other sources for excessive nutrients in the lake.
Salt and salinity management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban storm water runoff management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remind local golf courses to develop run off basins to prevent run off from traveling to the lake. There are pictures taken In November of 2006, showing the damage that was done to roads, homes and the lake because of lack of runoff management.
Practice Resource Stewardship		
Agricultural land stewardship	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Ecosystem restoration	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Forest management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
Land use planning and management	X <input type="checkbox"/> Yes <input type="checkbox"/> No	Participate in land use discussions, where the impact of these decisions could have a direct impact on the health of the lake.
Recharge area protection	<input type="checkbox"/> Yes X <input type="checkbox"/> No	
Sediment management	X <input type="checkbox"/> Yes <input type="checkbox"/> No	See response to urban storm water runoff management
Watershed management	<input type="checkbox"/> Yes X <input type="checkbox"/> No	
People and Water		
Economic incentives	X <input type="checkbox"/> Yes <input type="checkbox"/>	Working with business owners throughout the Watershed to improve ways to attract more visitors to the area. Development of a water trails map for visitors to the area is already underway.
Outreach and engagement	X Yes <input type="checkbox"/> No	A strong long-term monitoring program with public access to the data provides an opportunity for public groups & individuals to contribute to positive water management outcomes by being better informed. Also working with partners to provide educational programs for residents and visitors
Water and culture	Yes X No	
Water-dependent recreation	<input type="checkbox"/> Yes <input type="checkbox"/> X No	
Wastewater/NPDES		

Other RMS addressed and explanation:

VI. PROJECT COST AND FINANCING

Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as the source of the project cost in the table below.

PROJECT BUDGET					
Project serves a need of a DAC?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
	Category	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund	Total Cost
a.	Direct Project Administration	\$120,000	\$ 20,000 by		\$140,000
b.	Land Purchase/Easement		Two Home		
c.	Planning/Design/Engineering/ Environmental		Owners Associations—contributing \$5,000 in		
d.	Construction/Implementation		of the four phases		
e.	Environmental Compliance/Mitigation/Enhancement				
f.	Construction Administration				
g.	Other Costs				
h.	Construction/Implementation Contingency				
i.	Grand Total (Sum rows (a) through (h) for each column)	\$120,000	\$20,000		\$140,000
j.	Can the Project be phased? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes , provide cost breakdown by phases				
		Project Cost	O&M Cost	Description of Phase	
	Phase 1	\$35,000		For sampling costs and purchase of additional equipment and data preparation	
	Phase 2	\$35,000		For sampling costs, mtce., replacement , new equipment and for data preparation	
	Phase 3	\$35,000		For sampling costs, mtce., replacement, data preparation.	
	Phase 4	\$35,000		For sampling costs, replacement costs, and data preparation.	
k.	Explain how operation and maintenance costs will be financed for the 20-year planning period for project implementation (not grant funded).				
l.	Has a Cost/Benefit analysis been completed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
m.	Describe what impact there may be if the project is not funded (300 words or less)		There is a need for continuing the water quality monitoring in the Almanor Basin . Without this information, the Basin could see land/water		

FMW-2: Water Quality Monitoring Program – Lake Almanor & its Tributaries

	management decisions not grounded in scientifically based information. We are fortunate in that we have local May expertise at this time to conduct the monitoring program.
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*List all sources of funding.

Note: See Project Development Manual, Exhibit B, for assistance in completing this table

(<http://featherriver.org/documents/>).

VIII. PROJECT STATUS AND SCHEDULE

Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown, enter **TBD**.

Project Stage	Check the Current Project Stage	Completed?	Description of Activities in Each Project Stage	Planned/ Actual Start Date (mm/yr)	Planned/ Actual Completion Date (mm/yr)
a. Assessment and Evaluation	X	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Many years of accumulated data verify the need for continued review and evaluation of water resources in the County.	TBD Continuing assessment and evaluation by P.G.E., D.W.R., Plumas County Water Quality Committee. Lake Almanor Water Group (LAWG) and comparable bodies throughout the Feather River Basin	TBD
b. Final Design	<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		TBD	
c. Environmental Documentation (CEQA / NEPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
d. Permitting	<input type="checkbox"/>	X N/A			
e. Construction Contracting	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
f. Construction Implementation	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Provide explanation if more than one project stage is checked as current status					

IX. PROJECT TECHNICAL FEASIBILITY

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project. See www.featherriver.org/catalog/index.php for documents gathered on the UFR Region.

<p>a. List the adopted planning documents the proposed project is consistent with or supported by (e.g. General Plans, UWMPs, GWMPs, Water Master Plan, Habitat Conservation Plans, TMDLs, Basin Plans, etc.).</p>	<p>Water Master Plan, TMDLs, Basin Plan for CVRWQP.</p>
<p>b. List technical reports and studies supporting the feasibility of this project.</p>	<p>Review prepared by M.J. Hill and Co. in the mid 1990's</p>
<p>c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.</p>	<p>There is much research to support a consistent, pro-active approach towards dealing with issues and problems that can arise in water management. There is a need to learn more about the potential impact of climate change on the management of the lake.</p>
<p>d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.).</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, please describe.</p>
<p>e. Are you an Urban Water Supplier¹?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>f. Are you an Agricultural Water Supplier²?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>g. Is the project related to groundwater?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, please indicate which groundwater basin.</p>
<p>¹ Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. ² Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.</p>	

Climate Change – Project Assessment Checklist

This climate change project assessment tool allows project applicants and the planning team to assess project consistency with Proposition 84 plan standards and RWMG plan assessment standards. The tool is a written checklist that asks GHG emissions and adaptation/resiliency questions.

Name of project: FMW-2: Water Quality Monitoring for Lake Almanor and its Tributaries

Project applicant: Sierra Institute/ LAWG

GHG Emissions Assessment

Project Construction Emissions

(If you check any of the boxes, please see the attached worksheet)

- The project requires nonroad or off-road engines, equipment, or vehicles to complete.
- The project requires materials to be transported to the project site.
- The project requires workers to commute to the project site.
- The project is expected to generate GHG emissions for other reasons.
- The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase.

Operating Emissions

(If you check any of the boxes, please see the attached worksheet)

- The project requires energy to operate.
- The project will generate electricity.
- The project will proactively manage forests to reduce wildfire risk.
- The project will affect wetland acreage.
- The project will include new trees.
- Project operations are expected to generate or reduce GHG emissions for other reasons.

Adaptation & Resiliency Assessment

Water Supply

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water supply vulnerability issues:

- Not applicable
- Reduced snowmelt
- Unmet local water needs (drought)
- Increased invasive species

Water Demand

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water demand vulnerability issues:

- Not applicable
- Increasing seasonal water use variability
- Unmet in-stream flow requirements
- Climate-sensitive crops
- Groundwater drought resiliency
- Water curtailment effectiveness

Water Quality

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority water quality vulnerability issues:

- X Not applicable
- Increasing catastrophic wildfires
- Eutrophication (excessive nutrient pollution in a waterbody, often followed by algae blooms and other related water quality issues)
- Seasonal low flows and limited abilities for waterbodies to assimilate pollution
- Water treatment facility operations
- Unmet beneficial uses (municipal and domestic water supply, water contact recreation, cold freshwater habitat, spawning habitat, wildlife habitat, etc.)

This is a monitoring project to identify and quantify degradation in the quality of water in the Basin and provide information for decision making regarding mitigation projects if they become necessary.

Flooding

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority flooding vulnerability issues:

- X Not applicable
- Aging critical flood protection
- Wildfires
- Critical infrastructure in a floodplain
- Insufficient flood control facilities

Ecosystem and Habitat

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority ecosystem and habitat vulnerability issues:

- X Not applicable
- Climate-sensitive fauna or flora
- Recreation and economic activity
- Quantified environmental flow requirements
- Erosion and sedimentation
- Endangered or threatened species
- Fragmented habitat

Hydropower

Describe how the project makes the watershed (more/less) resilient to one or more of the following high priority hydropower vulnerability issues:

- X Not applicable
- Reduced hydropower output

FMW-2: Water Quality Monitoring Program for Lake Almanor & its Tributaries

GHG Emissions Analysis

Project Construction Emissions

The project requires non-road or off-road engines, equipment, or vehicles to complete. If yes:

Type of Equipment	Maximum Number Per Day	Total 8-Hour Days in Operation	Total MTCO ₂ e
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
Total Emissions			0

The project requires materials to be transported to the project site. If yes:

Total Number of Round Trips	Average Trip Distance (Miles)	Total MTCO ₂ e
		0

The project requires workers to commute to the project site. If yes:

Average Number of Workers	Total Number of Workdays	Average Round Trip Distance Traveled (Miles)	Total MTCO ₂ e
			0

The project is expected to generate GHG emissions for other reasons. If yes, explain:

The project does not have a construction phase and/or is not expected to generate GHG emissions during the construction phase.

FMW-2: Water Quality Monitoring Program for Lake Almanor & its Tributaries

Project Operating Emissions

The project requires energy to operate. If yes:

Annual Energy Needed	Unit	Total MTCO ₂ e
	kWh (Electricity)	0
	Therm (Natural Gas)	0

The project will generate electricity. If yes:

Annual kWh Generated	Total MTCO ₂ e
	0

*A negative value indicates GHG reductions

The project will proactively manage forests to reduce wildfire risk. If yes:

Acres Protected from Wildfire	Total MTCO ₂ e
	0

*A negative value indicates GHG reductions

The project will affect wetland acreage. If yes:

Acres of Protected Wetlands	Total MTCO ₂ e
	0

*A negative value indicates GHG reductions

The project will include new trees. If yes:

Acres of Trees Planted	Total MTCO ₂ e
0	0

*A negative value indicates GHG reductions

Project operations are expected to generate or reduce GHG emissions for other reasons. If yes, explain:

FMW2 is an assessment project only, and is not expected to generate significant greenhouse gases for duration of project.

GHG Emissions Summary

Construction and development will generate approximately:	0 MTCO ₂ e
In a given year, operation of the project will result in:	0 MTCO ₂ e