



COUNTY OF LAKE

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division
Courthouse - 255 N. Forbes Street
Lakeport, California 95453
Telephone 707/263-2221 FAX 707/263-2225

April 27, 2021

CALIFORNIA ENVIRONMENTAL QUALITY ACT

ENVIRONMENTAL CHECKLIST FORM

INITIAL STUDY, IS 20-115

- 1. Project Title:** Caporal Agricultural Reservoir – Grading Project
- 2. Permit(s):** Complex Grading, GR 20-12
Initial Study, IS 20-115
- 3. Lead Agency Name and Address:** County of Lake
Community Development Department
Courthouse – 255 North Forbes Street
Lakeport CA 95453
- 4. Contact Person:** Tracy Cline, Resource Planner II (707) 263-2221
- 5. Project Location(s) and APN(s):** 11501 Elk Mountain Road, Upper Lake, CA
(002-048-03)
- 6. Parcel Size:** 38.63 acres total
- 7. Project Sponsor's Name/Address:** Fabrice and Claudia Caporal
P.O. Box 1251
Alameda, CA 94501
- 8. General Plan Designation:** Agriculture
- 9. Zoning:** Agriculture / Water Way / Floodway Fringe
- 10. Flood Zone:** 2.9 acres of the parcel are mapped "AE" - Areas of 100-year flood; base flood elevations and flood hazards determined. The remainder of the 38.63 acre parcel is mapped "X" – Areas of minimal flooding – not in a special flood hazard area.
- 11. Slope:** The parcel is flat with a slope of 0-10%. Within the areas proposed for development the average slope is 4.18%.
- 12. Natural Hazards:** Approximately 2.9 acres of the western edge of the

parcel is within the Special Flood Hazard Area.

13. Fire District:

North Shore Fire FPD

14. Description of Project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary).

The applicant is seeking approval of a Grading Permit to construct an agricultural reservoir at 11501 Elk Mountain Road, Upper Lake, CA, further described as *one legal lot* as Assessor's Parcel Number: 002-048-03. The project area is north of Upper Lake and east of Witter Springs, CA.

The project proposes construction of an Agricultural Reservoir on a 38.63 acre parcel with an existing orchard. The Reservoir will have a maximum capacity of approximately 5.07 acre feet and the surface area of the water will be approximately 0.75 acres. The reservoir will be 14 feet deep with a liner covered with 1 foot of soil. The design includes an inlet with a stand pipe and a trash grate that will allow any over flow to travel through an 18" buried pipe approximately 236 feet to a rocked outlet. The pipe will be placed through the embankment of the reservoir. The overflow outlet culvert is sized for a 100-year storm event and the rock in the outlet is sized to ensure runoff leaving the proposed drainage improvement will not have erosive flow velocities. The overflow will empty into Middle Creek.

The proposed project will impact approximately 3.69 acres of the 38.63 acre parcel. The estimated volume of excavation is 9,115 cubic yards and 7,359 cubic yards of fill. Fill will be placed adjacent to the reservoir footprint on the site of a future residence. Prior to residential construction, compaction standards will be met. Any additional fill will be spread in the existing orchard. The area of disturbance has historically been managed for Agriculture and until recently was an orchard. The area of disturbance is ruderal and dominated by non-native grasses.

Access Road

Access to the parcel is through Elk Mountain Road, (County Road 301). There is a gated entrance a gated entry to a private driveway within a recorded easement off of Elk Mountain Road. Elk Mountain is a paved and county-maintained road that provides a direct connection to the driveway serving the property. A gravel road extends across the parcel and provides direct access to the proposed reservoir.

Water Use

There are three (3) existing wells on the parcel. The existing wells have been providing water for agricultural watering of the existing orchard.

Existing Conditions

The study area is located within the Inner North Coast Ranges geographic region. This region has a Mediterranean-type climate, characterized by distinct seasons of hot, dry summers and wet, moderately-cold winters. The study area and vicinity are in Sunset Climate Zone 7, California's Gray Pine Belt (Sunset, 2020). The topography of the area consists of hills surrounding a flat river valley. The elevation of the parcel is less than 1,400 feet. The surrounding hills peak elevations are approximately 3,493 feet on the eastside of the parcel and 2,800 feet on the west side of the

parcel. Drainage flows south from the east side of the property into Clover Creek and flows west from the western portion of the parcel, into Middle Creek.

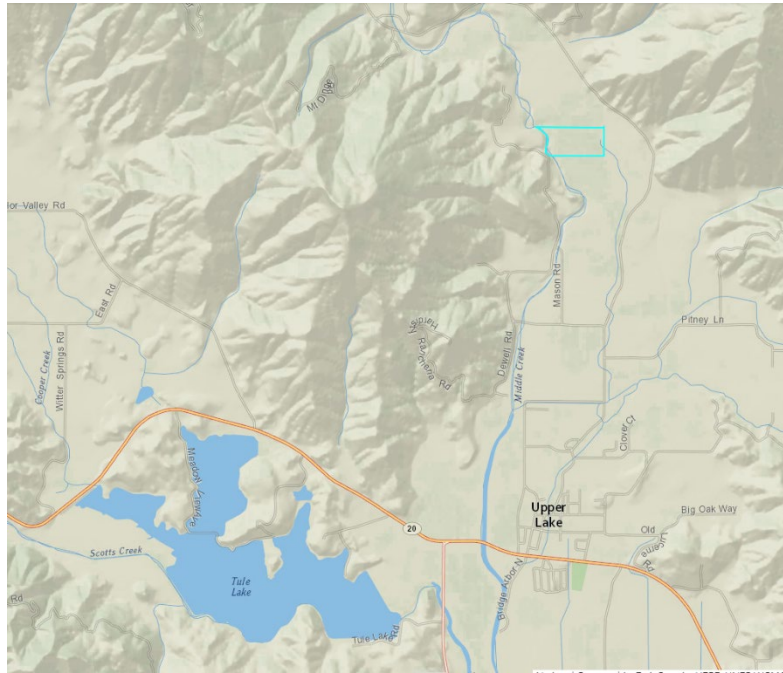


Figure 1. Vicinity Map of the Project Area

The surrounding land uses are made up of various agricultural practices such as vineyards, orchards and farming/grazing. Many parcels also have residences on them.

Figure 2. Zoning of site and vicinity

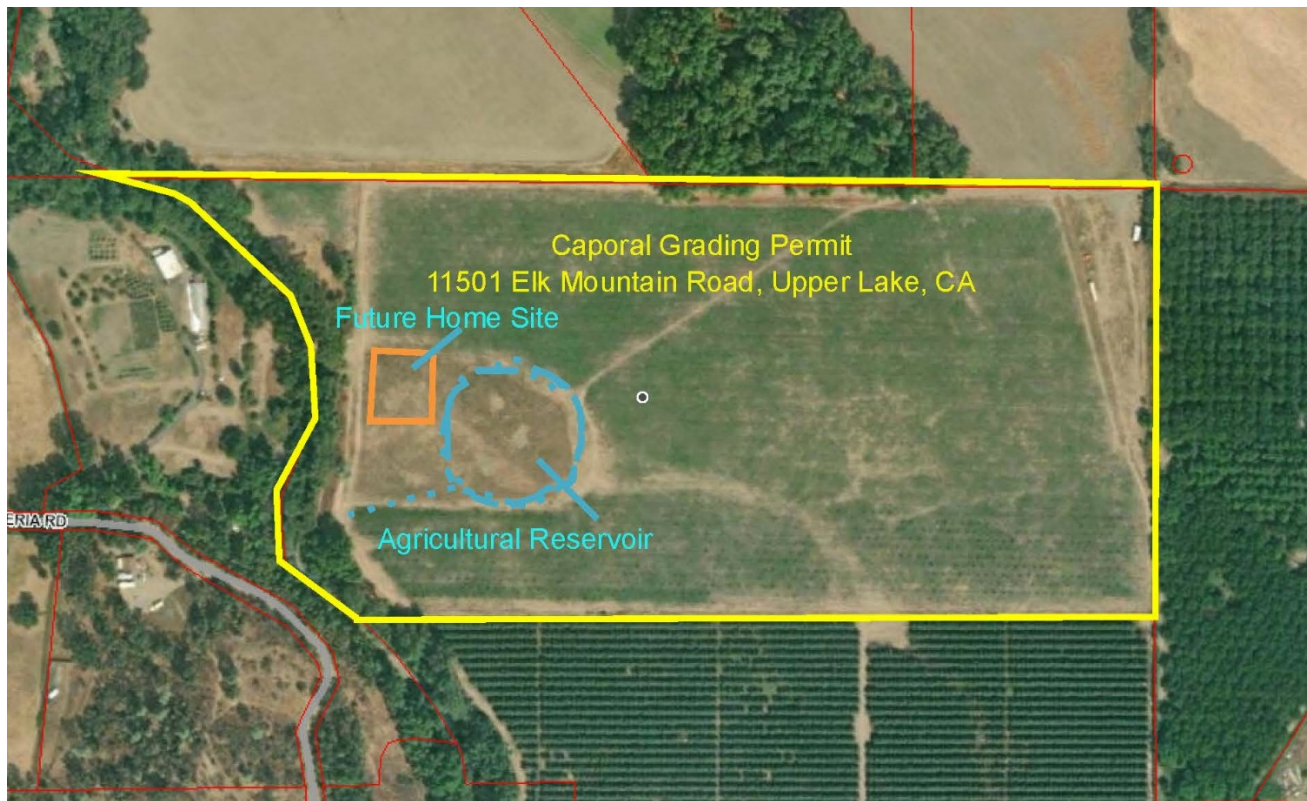


Figure 3. Satellite view of 11501 Elk Mountain Road, Upper Lake Ca. 95485.

16. Surrounding Land Uses and Setting: Briefly describe the project's surroundings:

North: "APZ" Agriculture Preservation Zone- parcels ranging from 8.92 to 20.74 acres in size. Consists of rural residential homes and active agricultural practices.

South: "A" Agriculture and "RL" Rural Lands. Parcel sizes range from approximately 23.40 to greater than 38.35 acres in size. Consists of active agricultural practices.

East: "A" Agriculture and "RL" Rural Lands Parcel sizes range from approximately 6.40 to greater than 18.35 acres in size. Consists of active agricultural practices.

West: "A" Agriculture and "RL" Rural Lands Parcel sizes range from approximately 5.70 to greater than 105.62 acres in size. Consists of active agricultural practices.

17. Attachments:

Attachment A: Engineered Site Plans
 Attachment B: Drainage Report
 Attachment C: Geotechnical Report
 Attachment D: Mitigation Monitoring and Reporting Program

Other public agencies whose approval may be required (e.g., Permits, financing approval, or participation agreement.)

Lake County Community Development Department
 Lake County Air Quality Management District
 Lake County Department of Water Resources
 Lake County Agricultural Commissioner
 California Department of Fish & Wildlife (CDFW)

- 18. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of the significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

Notification of the project was sent to local tribes on March 14, 2021. Big Valley Band of Pomo and Yocha Dehe tribes sent letters stating they would not request formal consultation on this project. No other comments were received. The California Historical Resources Information System stated that the proposed project area has no records of previous cultural resource studies of the proposed project site. If cultural resources are discovered, the applicant/contractor will respond accordingly as recommended in the mitigation measures and consult with a qualified archaeologist and local tribe.

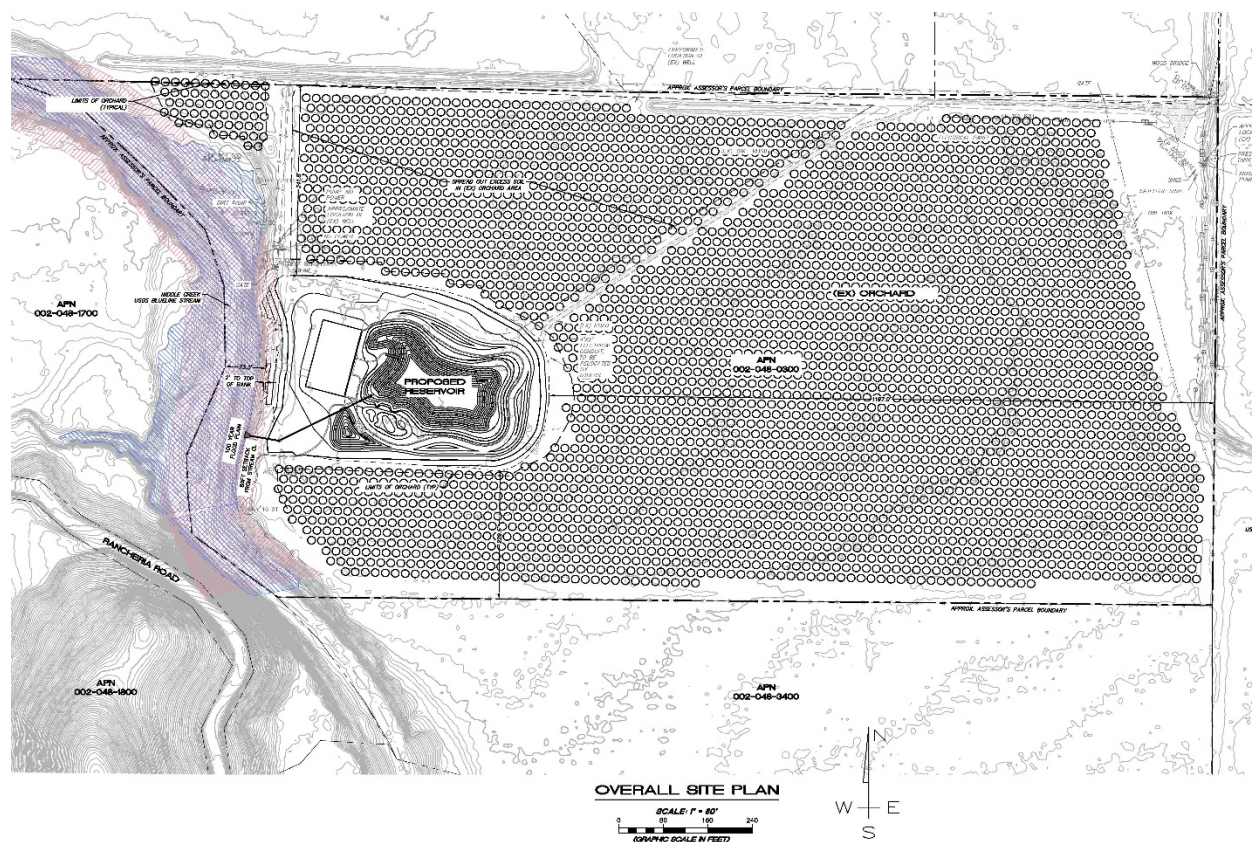


Figure 4. Overall Site Plan. Existing Orchard and Proposed Reservoir Construction.

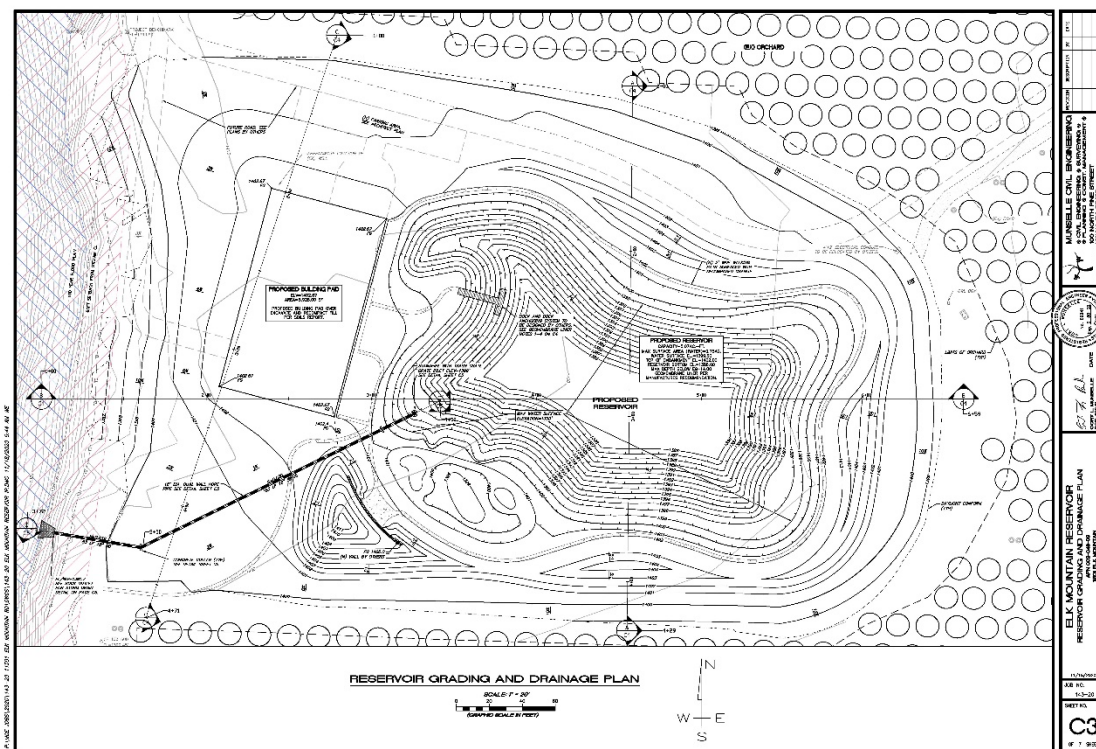


Figure 5. Engineered Grading and Drainage Site Plans.

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

- | | | |
|--|--|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Population / Housing |
| <input type="checkbox"/> Agriculture & Forestry | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services |
| <input checked="" type="checkbox"/> Air Quality | <input checked="" type="checkbox"/> Hydrology / Water Quality | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Land Use / Planning | <input type="checkbox"/> Transportation |
| <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Mineral Resources | <input checked="" type="checkbox"/> Tribal Cultural Resources |
| <input checked="" type="checkbox"/> Geology / Soils | <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Utilities / Service Systems |
| <input type="checkbox"/> Wildfire | <input type="checkbox"/> Energy | <input checked="" type="checkbox"/> Mandatory Findings of Significance |

DETERMINATION: (To be completed by the Lead Agency)

Based on this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ **I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.**
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Initial Study Prepared By:

Tracy Cline, Resource Planner II

Tracy Cline
SIGNATURE

Date: April 27, 2021

Scott DeLeon, Director
Community Development Department

SECTION 1**EVALUATION OF ENVIRONMENTAL IMPACTS:**

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, and then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA processes, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures, which were incorporated or refined from the earlier document, and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than the significance

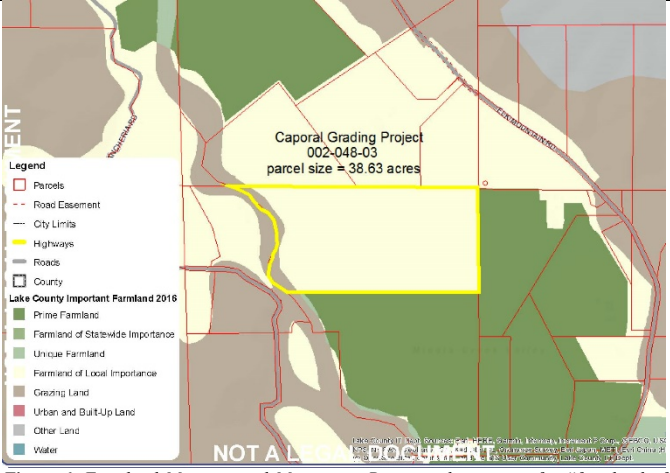
KEY: 1 = POTENTIALLY SIGNIFICANT IMPACT

2 = LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATION

3 = LESS THAN SIGNIFICANT IMPACT

4 = NO IMPACT

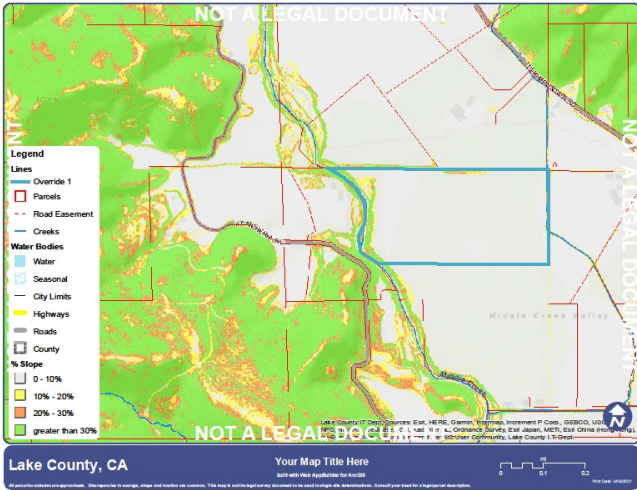
IMPACT CATEGORIES*	1	2	3	4	All determinations need explanation. Reference to documentation, sources, notes, and correspondence.	Source Number **
I. AESTHETICS						
<i>Would the project:</i>						
a) Have a substantial adverse effect on a scenic vista?				X	The parcel is not located within a scenic combining district per the local zoning ordinance and will have no impact on a scenic vista. No impact.	1, 2, 3, 4, 6, 9
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				X	The proposed project is not located within a State Scenic Highway and is therefore not expected to impact scenic resources such as historic buildings, rock outcroppings or trees. The project site will not be visible from the highway. No impact.	1, 2, 3, 4, 6, 9
c) Substantially degrade the existing visual character or quality of public views of the site and its surroundings?			X		The proposed project is 0.34 miles from Elk Mountain Road, which is part of the scenic combining district per the local zoning ordinance. Existing orchards and residences provide a visual barrier to the project site. Should the site be visible from Elk Mountain Road, the grading project is anticipated to have only temporary visual impacts during reservoir construction and would not significantly impact visual resources in the area. Post construction, the new Agriculture Reservoir would not detract from the rural landscape and would be consistent with other uses in the vicinity. Less than significant impact.	1, 2, 3, 4, 6, 9
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				X	The project is not anticipated to create additional light or glare. There is no proposed nighttime work that would involve lighting. No impact.	1, 2, 3, 4,
II. AGRICULTURE AND FORESTRY RESOURCES						
<i>In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest protocols adopted by the California Air Resources Board.</i>						
<i>Would the project:</i>						
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X	The proposed project is located in lands designated as "Farmland of Local Importance" by the Farmland Mapping and Monitoring Program. The proposed project will not convert farmland to non-agricultural use, as the new agricultural reservoir would make more water available for orchard irrigation and reduce the amount of water being pumped out of the wells during the driest time of the year. Installation of the agricultural reservoir will likely benefit local agricultural operations in the vicinity of the project by reducing the volume of water being withdrawn from subsurface aquifers.	1, 2, 3, 4, 5, 7, 8

				 <p>Figure 6. Farmland Mapping and Monitoring Program designation for "farmland of local important".</p>	
				No impact.	
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?			X	See Section II (a). The project does not conflict with zoning and the project property is not in a Williamson Act Contract.	1, 2, 3, 4, 5, 7, 8
				No impact.	
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?			X	This property is zoned "A" Agriculture. The proposed vineyard development is consistent with the "A" zoning district. The General Plan designation is Agriculture. The project would not result in the rezoning of forest land, timber land, or Timberland Production lands.	1, 2, 3, 4, 5, 7, 8
				No impact.	
d) Involve other changes in the existing environment which, due to their location or nature, could result in the conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?			X	The project would not result in the loss or conversion of forest land to a non-forest use.	1, 2, 3, 4, 5, 7, 8
				No impact.	
III. AIR QUALITY <i>Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.</i> <i>Would the project:</i>					
a) Conflict with or obstruct implementation of the applicable air quality plan?		X		<p>The project will not likely result in any long-term air quality impacts; temporary air quality impacts are likely to occur during construction. Dust, fumes, and diesel exhaust may be released as a result of excavating and grading activities during project development. Truck traffic on dirt roads may create fugitive dust and impact air quality.</p> <p>Mitigation Measures:</p> <p>AQ-1: Work practices shall minimize vehicular and fugitive dust during pond excavation and management by use of water or other acceptable dust palliatives on the access roads and project area to insure that dust does not leave the property and cause a nuisance to surrounding parcels and highway traffic. Access to project areas shall be limited to authorized vehicles.</p> <p>AQ-2: The permit holder shall avoid earth disturbances during windy conditions. In the event that substantive complaints are received regarding fugitive dust, work at the site shall halt until a</p>	1, 2, 3, 4, 5, 10, 22, 32

				<p>dust mitigation plan is submitted to and approved by the Lake County Air Quality Management Control District (LCAQMD). Contact LCAQMD at (707) 263-7000 for more information.</p> <p>AQ-3: Vehicles and equipment shall be well maintained, in good running order and in compliance with State emission requirements. A complete list of all equipment utilized at the site with potential to emit air contaminants should be submitted to the LCAQMD including generators, diesel powered pumps, off-road equipment, etc.</p> <p>AQ-4: If serpentine rock or soils are exposed during grading, all work shall be halted and a serpentine dust mitigation plan shall be submitted and approved by the LCAQMD.</p> <p>Less than significant with mitigation measures AQ-1 through AQ-4 added.</p>	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under and applicable federal or state ambient air quality standard?			X	<p>The Lake County Air Basin is designated as an attainment area. No criteria pollutants for the project region have been exceeded.</p> <p>No impact.</p>	1, 2, 3, 4, 5, 10, 22, 32, 34
c) Expose sensitive receptors to substantial pollutant concentrations?	X			<p>The project is located in a rural area where the surrounding parcels are undeveloped or developed with orchards and vineyards, and few residences. Surrounding parcels range in size from 2.7 to 105 acres. The nearest residents are about 0.23 miles to the north of the proposed project area and the nearest school is approximately 2.4 air-miles away from the project area.</p> <p>Mitigations:</p> <p>AQ-1: Work practices shall minimize vehicular and fugitive dust during pond excavation and management by use of water or other acceptable dust palliatives on the access roads and project area to insure that dust does not leave the property and cause a nuisance to surrounding parcels and highway traffic. Access to project areas shall be limited to authorized vehicles.</p> <p>AQ-2: The permit holder shall avoid earth disturbances during windy conditions. In the event that substantive complaints are received regarding fugitive dust, work at the site shall halt until a dust mitigation plan is submitted to and approved by the Lake County Air Quality Management Control District (LCAQMD). Contact LCAQMD at (707) 263-7000 for more information.</p> <p>AQ-3: Vehicles and equipment shall be well maintained, in good running order and in compliance with State emission requirements. A complete list of all equipment utilized at the site with potential to emit air contaminants should be submitted to the LCAQMD including generators, diesel powered pumps, off-road equipment, etc.</p> <p>AQ-4: If serpentine rock or soils are exposed during grading, all work shall be halted and a serpentine dust mitigation plan shall be submitted and approved by the LCAQMD.</p> <p>Less than significant impact with mitigation measures AQ-1 through AQ-4 incorporated.</p>	1, 2, 3, 4, 5, 10, 22, 32, 34
d) Result in other emissions (such as those leading to odors or dust) adversely affecting a substantial	X			<p>The pond has potential to develop objectionable odors. The nearest residence is 0.24 miles from the project area and has a substantial stand of oak trees between the area of disturbance and the nearest</p>	1, 2, 3, 4, 5, 10, 22, 32, 34

number of people?				<p>residence, creating a vegetative buffer.</p> <p>Groundwater will be pumped into the reservoir and then onto the orchard. This circulation of water will prevent standing water and associated odor issues. The applicant indicated that appropriate actions to treat pond water shall be enacted should the pond develop odor issues.</p> <p>AQ 5: If objectionable odors develop, appropriate actions to treat the odor shall be enacted.</p> <p>Less than significant impact with mitigation measure AQ-5 incorporated.</p>	
IV. BIOLOGICAL RESOURCES <i>Would the project:</i>					
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?			X	<p>A Biological Resource Assessment was not prepared for this project because the area of potential impact is an actively managed agricultural area. The parcel has been in agricultural production since at least 1985 (36 years). From 1986 to 2009 the land was producing walnuts. In 2009, the walnuts were removed and the parcel was used for hay production. Recently, the hay fields have been planted with orchards again. The parcel is surrounded by other agricultural crops such as orchards, vineyards and hay fields.</p> <p>The entire parcel and surrounding parcels, have been heavily impacted by agricultural activities, including disking, tilling, farming and grading. The reservoir site is mapped as ruderal lands and supports weedy and non native grass and forb species. The site does not contain suitable habitat for special status species.</p> <p>The CNDDB reported 1 species occurrence within the vicinity of the study area: American Badger. Badgers are known to utilize burrows and dens in undisturbed grasslands and oak woodlands (CWHR). There is no suitable habitat for American Badger within the project area or surrounding parcels therefore there will be no direct, indirect or cumulative impacts to American Badger.</p> <p>No impact.</p>	1, 2, 3, 4, 5, 11, 12, 29
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?			X	<p>The western edge of the property contains riparian woodland habitats along Middle Creek. Riparian woodlands provide habitat for a variety of plants and animals.</p> <p>No adverse effect on any sensitive natural habitat is expected. Removal of riparian vegetation is not proposed as part of this project and no activities will occur within 100' of Middle Creek.</p> <p>Less than significant.</p>	1, 2, 3, 4, 5, 11, 12, 14, 29
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?			X	<p>There are no federally-protected wetlands identified within the project area.</p> <p>No impact.</p>	1, 2, 3, 4, 5, 11, 12, 14, 21, 29
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with an established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?			X	<p>The project is not expected to interfere with any wildlife corridors. Middle Creek supports fish and serves as a wildlife corridor. The project will have no impact on Middle Creek or the associated habitat. There is no work proposed within 100 feet of Middle Creek.</p>	1, 2, 3, 4, 5, 11, 12, 21, 29

					No impact.	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X	The project does not conflict with any local policies or ordinances protecting biological resources. No impact.	1, 2, 3, 4, 5, 11, 12
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or another approved local, regional, or state habitat conservation plan?				X	There are no adopted Habitat Conservation Plans or Natural Community Conservation Plans, or other local, regional, or state habitat conservation plans associated with this site. No impact.	1, 2, 3, 4, 5, 11, 12, 29
V. CULTURAL RESOURCES <i>Would the project:</i>						
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?				X	The Office of Historic Preservation has determined that any building or structure 45 years or older may be of historical value. There are no buildings or structures present on the property therefore there will be no impact to historic buildings or structures. No impact.	1, 3, 4, 15
b) Cause a substantial adverse change in the significance of an archeological resource pursuant to §15064.5?		X			<p>According to the California Historical Resources Information System (CHRIS), there are no records of any previous cultural resource studies for the proposed project area. CHRIS recommends a qualified archaeologist conduct an archival field study for the entire project area to identify archaeological resources prior to ground disturbance.</p> <p>The site has been heavily impacted by historic agricultural practices including grading, discing, tilling and farming for at least 36 years.</p> <p>CUL-1: Should any archaeological, paleontological, or cultural materials be discovered during pond excavation, all activity shall be halted in the vicinity of the find(s). The local overseeing Tribe(s) shall be notified, and a qualified archaeologist retained to evaluate the find(s) and recommend mitigation procedures, if necessary, subject to the approval of the Community Development Director. Should any human remains be encountered, they shall be treated in accordance with Public Resources Code Section 5097.98 and with California Health and Safety Code section 7050.5.</p> <p>CUL-2: All employees shall be trained in recognizing potentially significant artifacts that may be discovered during the ground disturbance. If any artifacts or remains are found, the local tribe shall immediately be notified; a licensed archaeologist shall be notified, and the Lake County Community Development Director shall be notified of such finds.</p> <p>CUL-3: In the event of an unanticipated discovery of cultural resources during the implementation of the project, all work must be halted within 100 feet (30 meters) of the find and a qualified archaeologist (36 CFR Part 61) notified so that its potential significance can be assessed.</p> <p>Less than significant impact with mitigation measures CUL-1 through CUL-3 added.</p>	1, 3, 4, 15
c) Disturb any human remains, including those interred outside of formal cemeteries?		X			<p>See response section V(b).</p> <p>Less than significant impact with mitigation measures CUL-1 through CUL-3 added.</p>	1, 3, 4, 15

VI. ENERGY <i>Would the project:</i>					
a) Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operation?			X	The proposed project includes excavation of an agricultural reservoir. This will allow for additional water storage on site for irrigation of the orchard. The use of the reservoir may decrease the hours/day of electrical use for pumping water out of the wells. This will also allow the aquifers to recharge between pumping activities. No impact.	1, 3, 4, 5
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	The proposed project is not expected to obstruct a state or local plan for renewable energy or energy efficiency? See response VI (a). No impact.	1, 3, 4, 5
VII. GEOLOGY AND SOILS <i>Would the project:</i>					
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: <ul style="list-style-type: none"> i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. ii) Strong seismic ground shaking? iii) Seismic-related ground failure, including liquefaction? iv) Landslides? 			X	<p>Earthquake Faults There are no mapped earthquake faults on or adjacent to the project site.</p> <p>Seismic Ground Shaking and Seismic-Related Ground Failure, including liquefaction. The project property does not contain any mapped unstable soils. It appears unlikely that ground shaking, ground failure, or liquefaction will occur on this property in the future.</p> <p>Landslides There is no risk of landslides based on the parcel's slope, which is flat (0-10% slope).</p>  <p>No impact.</p>	1, 2, 3, 4, 5, 6, 7, 10
b) Result in substantial soil erosion or the loss of topsoil?		X		<p>Grading and excavation activities associated with agricultural reservoir development have the potential to result in substantial erosion and loss of topsoil if not properly mitigated. According to the Soil Survey of Lake County, prepared by the U.S.D.A., the soil at the project site is Lupoyoma silt loam with 0-2% slopes (soil unit 158). The soil is a deep, moderately well drained soil in flood plains. Permeability is moderately slow and surface runoff is very slow. The hazard of erosion is slight. Proper installation and ongoing maintenance</p>	1, 2, 3, 4, 5, 6, 7, 10

				<p>of erosion control and sedimentation prevention measures, including planting and maintenance of a cover crop, would reduce potential environmental impacts to a level of less than significant.</p> <p>GEO-1: In order to reduce impacts related to soil erosion and loss of top soil the permit holder is required to protect all disturbed areas by applying Best Management Practice principles (BMPs). BMPs may include the placement of straw, mulch, seeding, all disturbed areas to prevent erosion until the vegetation is established.</p> <p>GEO-2: All slopes shall be monitored and maintained by the permit holder to assure the success of the erosion control measures and revegetation. All disturbed areas shall be revegetated with native species consistent with fire safe practices and protected from erosion and stormwater runoff utilizing BMPs appropriate to the site conditions. Vegetation shall be maintained until permanent establishment is achieved.</p> <p>GEO-3: In the event that the Community Development Department determines that significant erosion is occurring at the site, additional erosion control measures may be required and shall be implemented by the permit holder.</p> <p>Less than significant impact with mitigation measures GEO-1 through GEO-3 incorporated.</p>	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on-site or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?		X		<p>According to the soil survey of Lake County, prepared by the U.S.D.A., the soil at the site is considered stable and there is a less than significant chance of landslide, subsidence, liquefaction or collapse as a result of the project. However, improper earthwork resulting in erosion has the potential to induce localized subsidence or earth movement.</p> <p>Less than significant impact with mitigation measures GEO-1 through GEO-3 incorporated.</p>	1, 2, 3, 4, 5, 6, 7, 10
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			X	<p>The shrink-swell potential for the project soil types is low to moderate. There is no risk to life or property from pond development.</p> <p>No impact.</p>	1, 2, 3, 4, 5, 6, 7, 10
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?			X	<p>Lupoyoma Silt Loam (158). Increasing the size of the septic tank absorption fields or using a specially designed sewage disposal system can help to compensate for the moderately slow permeability. Dikes and channels that have outlets for floodwater can be used to protect buildings and onsite sewage disposal systems from flooding.</p> <p>Less than significant impact.</p>	1, 2, 3, 4, 5, 6, 7, 10
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?			X	<p>The proposed project will not directly or indirectly destroy unique paleontological resources or unique geologic features, and there are currently none mapped or known to occur in the project area.</p> <p>Less than significant impact.</p>	1, 2, 3, 4, 5, 6, 7, 10
VIII. GREENHOUSE GAS EMISSIONS					
<i>Would the project:</i>					
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X	<p>Air emissions will result from the use of standard grading and excavation equipment. Combustion engine emissions are anticipated to be temporary and will not result in a significant impact to air quality standards. During the installation period, equipment will produce combustion emissions including criteria pollutants. (Carbon Monoxide – CO, Carbon Dioxide - CO₂, Nitrogen Dioxide – NO₂, Sulfur Dioxide – SO₂, and Particulate Matter less than 2.5 and 10 microns – PM_{2.5} & PM₁₀). Ozone is not emitted directly into the environment but is</p>	1, 3, 4, 5, 30, 32, 34

				<p>formed in the atmosphere by complex chemical reactions between oxides of nitrogen and reactive organic gasses (ROG) in the presence of sunlight. Ozone formation is greatest on warm, windless, sunny days. The main sources of nitrogen oxides (NOx) and ROG, often referred to as ozone precursors, are a result of combustion processes.</p> <p>The California Emissions Estimator Model (CalEEMod) version 2013.2.2 air quality monitoring software was utilized to estimate air emissions. This software is designed to calculate air emissions from land use development based on standard assumption for construction projects. Calculated air pollutants are evaluated in comparison to Lake County Air Quality Management District stationary source thresholds for new source permitting.</p> <table><tr><th colspan="7">CalEEMod Summary Report for Annual Emissions (tons/year)</th></tr><tr><th>ROG</th><th>NOx</th><th>CO</th><th>SO2</th><th>PM10</th><th>PM2.5</th><th>CO2</th></tr><tr><td colspan="7">Agricultural Pond Excavation Totals</td></tr><tr><td>0.035</td><td>0.297</td><td>0.217</td><td>0.00</td><td>0.032</td><td>0.025</td><td>26.97</td></tr><tr><td colspan="7">Insignificant Source Thresholds</td></tr><tr><td>2</td><td>2</td><td>2</td><td>2</td><td>NE</td><td>NE</td><td>NE</td></tr><tr><td colspan="7">Major Source Thresholds</td></tr><tr><td>50</td><td>50</td><td>100</td><td>100</td><td>70</td><td>NE</td><td>NE</td></tr><tr><td colspan="7">NE = Not established</td></tr><tr><td colspan="7">This project is not anticipated to result in a violation of any air quality standards.</td></tr><tr><td colspan="7">Less than significant impact.</td></tr></table>	CalEEMod Summary Report for Annual Emissions (tons/year)							ROG	NOx	CO	SO2	PM10	PM2.5	CO2	Agricultural Pond Excavation Totals							0.035	0.297	0.217	0.00	0.032	0.025	26.97	Insignificant Source Thresholds							2	2	2	2	NE	NE	NE	Major Source Thresholds							50	50	100	100	70	NE	NE	NE = Not established							This project is not anticipated to result in a violation of any air quality standards.							Less than significant impact.							
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b) Conflict with an applicable plan, policy, or regulation adopted to reduce the emissions of greenhouse gases?			X	<p>This project will not conflict with any adopted plans or policies for the reduction of greenhouse gas emissions. The County of Lake is an ‘air attainment’ County and does not have any established thresholds of significant greenhouse gases.</p> <p>No impact.</p>	1, 3, 4, 5, 30, 32, 34																																																																													
IX. HAZARDS AND HAZARDOUS MATERIALS <i>Would the project:</i>																																																																																		
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	<p>The project does not involve the transport, use, or disposal of hazardous materials.</p> <p>No impact.</p>	1, 3, 4, 5, 10, 21, 25, 29, 31, 32, 33, 34																																																																													
b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			X	<p>See response to Section VIII (a).</p> <p>No impact.</p>	1, 3, 4, 5, 10, 25, 31, 32, 33, 34																																																																													
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			X	<p>The proposed project is not located within one-quarter mile of an existing or proposed school. The nearest school is approximately 2.4 air-miles from the project.</p> <p>No impact.</p>	1, 3, 4, 5, 10, 21, 25, 31																																																																													
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or			X	<p>The project site is not listed as a site containing hazardous materials in the databases maintained by the Environmental Protection Agency (EPA), the California Department of Toxic Substance, and the State Water Resources Control Board on the EnviroStor Database.</p>	1, 3, 4, 5, 10, 21, 25, 29, 31, 32, 33, 34																																																																													

the environment?					No impact.	
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				X	The project is not located within an airport land use plan nor is it within two miles from a public airport. No impact.	1, 3, 4, 5, 18, 20
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				X	The project would not impair or interfere with the adopted emergency response or evacuation plan. No impact.	1, 3, 4, 5, 16
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?				X	The project does not occur within the Wildland Fire Hazard Area. The project would not increase risks to people or structures due to wildland fires and the available surface water in the reservoir could decrease risk of catastrophic wildfire in the area, as the water could be utilized by Cal Fire during wildland fire fighting operations. No impact.	1, 3, 4, 5
X. HYDROLOGY AND WATER QUALITY <i>Would the project:</i>						
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?		X			Grading and excavation activities have the potential to cause erosion. Sedimentation from erosion has the potential to negatively impact surface water quality. The proposal includes erosion control measures that will keep soils on-site. The site will be seeded with a cover crop to enhance appearance and prevent erosion. HYD-1: In order to reduce impacts to water quality the permit holder shall protect all disturbed areas by applying BMPs, which may include the placement of straw, mulch, seeding, straw wattles, silt fencing and planting of native vegetation on all disturbed areas to prevent erosion. HYD-2: All slopes shall be monitored and maintained by the permit holder to assure the success of the erosion control measures and revegetation. All disturbed areas shall be revegetated with native species consistent with fire safe practices and protected from erosion and stormwater runoff utilizing BMPs appropriate to the site conditions. Vegetation shall be maintained until permanent establishment is achieved. Less than significant impact with mitigation measures HYD-1 and HYD-2 incorporated.	1, 3, 4, 5, 13, 21, 25, 26, 29, 31, 32, 33, 34
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			X		Withdrawal of groundwater for pond maintenance and irrigation has the potential to decrease the quantity of groundwater in the vicinity. Water will be supplied by three existing wells that have a combined capacity of 1,400 gallons per minute (GPM). The pond will allow for a reduced stable draw of groundwater to more readily allow for natural recharge of the groundwater supply. The reserved water will prevent excessive groundwater draw during periods of high demand. Less than significant impact	1, 3, 4, 5, 13, 21, 25, 26, 29, 31, 32, 33, 34
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious		X			Because the total ground disturbance of the pond will exceed one acre, the project will be subject to the Construction General Permit (CGP) and must prepare and file a stormwater pollution prevention plan (SWPPP) and notice of intent (NOI) with the Central Valley Regional Water Quality Control Board (CVRWQCB).	1, 3, 4, 5, 13, 21, 25, 26, 29, 31, 32, 33, 34

surfaces, in a manner which would:					<p>The project may alter the drainage on site slightly, however, no substantial drainage changes are anticipated off-site. The reservoir will collect storm water during wet weather, which will reduce the amount of sheet flow off the property. In the event the reservoir fills above capacity, the overflow pipe will drain excess water into Middle Creek by way of a buried pipe with a rock outlet. In this overflow system, the water would not come into contact with soil so there would be no soil erosion into Middle Creek. The proposal includes erosion control measures including revegetation that will keep soil on site.</p> <p>HYD-3: The permit holder shall use BMPs to prevent erosion and ensure that sediment and silt exceeding the natural background level do not enter any nearby streams and water courses. The natural background level is the level of erosion that currently occurs from the area in a natural, undisturbed state. BMPs may include the placement of straw, mulch, seeding, straw wattles, silt fencing and planting of native vegetation on all disturbed areas.</p> <p>Less than significant impact with mitigation measure HYD-3 incorporated.</p>	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				X	<p>The project site is not located in an area of potential inundation by seiche or tsunami. The soils at the project site are relatively stable; there is minimal potential to induce mudflows.</p> <p>No impact.</p>	1, 3, 4, 5, 20, 21, 25, 29
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?		X			<p>The applicant will install straw wattles for sediment control, however, no specific water quality control plan was provided by the applicant (none are required by the county), and there is no threshold in Lake County for groundwater depletion or baseline for sustainable groundwater.</p> <p>Less than significant impact with mitigation measures HYD-1 through HYD-3 incorporated.</p>	1, 3, 4, 5, 10, 21, 29
XI. LAND USE AND PLANNING <i>Would the project:</i>						
a) Physically divide an established community?				X	<p>The proposed project site would not physically divide an established community.</p> <p>No impact.</p>	1, 3, 4, 5, 6
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				X	<p>The project will not conflict with any land use plan. Article 27 of the Lake County Zoning Ordinance allows construction of medium reservoirs (defined as having a capacity of 5 to 15 acre-feet) on parcels zoned "A" – Agriculture through the issuance of a grading permit.</p> <p>No impact.</p>	1, 3, 4, 5
XII. MINERAL RESOURCES <i>Would the project:</i>						
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X	<p>Project site is not identified by the Lake County Aggregate Resource Management Plan as a mineral resource site.</p> <p>No impact.</p>	1, 3, 4, 5, 22, 26
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land-use plan?				X	<p>See response to Section XI (a).</p> <p>No impact.</p>	1, 3, 4, 5, 22, 26

XIII. NOISE*Would the project result in:*

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?		X			<p>The proposed project has the potential to result in a temporary increased level of noise during excavation.</p> <p>NOI-1: All construction activities including engine warm-up shall be limited to the hours of 7:00 am and 7:00 pm to minimize noise impacts. Back-up beepers shall be adjusted to the lowest allowable levels. If substantive noise complaints are received due to site activities, the permit holder shall be responsible for submitting and implementing a noise mitigation plan. This plan shall be reviewed and approved by the Community Development Department.</p> <p>Less than significant impact with mitigation measures NOI-1 incorporated.</p>	1, 3, 4, 5
b) Generation of excessive ground-borne vibration or ground-borne noise levels?				X	<p>The project is not expected to create unusual groundborne vibration. The low level truck traffic will create a minimal amount of groundborne vibration. Impacts are expected to be less than significant.</p> <p>No impact.</p>	1, 3, 4, 5
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X	<p>The proposed project is not expected to have a permanent increase in ambient noise levels in the project vicinity. The project is not located within the vicinity of a private airstrip or an airport land use plan, within two miles of a public airport or public use airport.</p> <p>No impact.</p>	1, 2, 3, 4, 5, 6

XIV. POPULATION AND HOUSING*Would the project:*

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through the extension of roads or other infrastructure)?				X	<p>The project is not anticipated to induce population growth.</p> <p>No impact.</p>	1, 3, 4, 5
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X	<p>No housing will be displaced as a result of the project.</p> <p>No impact.</p>	1, 3, 4, 5

XV. PUBLIC SERVICES*Would the project:*

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, to maintain acceptable service ratios, response times or other performance objectives for any of the public services: - Fire Protection? - Police Protection?				X	<p>The project does not propose housing or other uses that would necessitate the need for new or altered government facilities. There will not be a need to increase fire or police protection, schools, parks, or other public facilities as a result of the project's implementation.</p>	1, 3, 4, 5
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- Schools? - Parks? - Other Public Facilities?					No impact.	
XVI. RECREATION <i>Would the project:</i>						
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X	The project will not have any impact on existing parks or other recreational facilities. No impact.	1, 3, 4, 5
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				X	This project will not necessitate the construction or expansion of any recreational facilities. No impact.	1, 3, 4, 5
XVII. TRANSPORTATION <i>Would the project:</i>						
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadways, bicycle lanes, and pedestrian paths?				X	The proposed project is accessed by Elk Mountain Road, a County Maintained Road. Elk Mountain Road is accessed via Hwy 20. A temporary increase due to the grading and excavating activity and the transportation of related materials will occur. The increase in traffic is expected to be negligible and not result in significant transportation-related impacts. The project will not conflict with any program, plan, ordinance, or policy addressing the circulation system. No impact.	1, 3, 4, 5, 9, 20, 22, 23, 24
b) For a land-use project, would the project conflict with or be inconsistent with CEQA guidelines section 15064.3, subdivision (b)?				X	Significant impacts are not anticipated and the project is consistent with 15064.3 (b). See Response to Section XVII (a). Less than significant impact.	1, 3, 4, 5, 9, 23, 24
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				X	No existing road alignments will be altered by this project. No impact.	1, 3, 4, 5, 9, 23, 24, 33
d) Result in inadequate emergency access?				X	See response in section XVII (c). No impact.	1, 3, 4, 5, 9, 23, 24, 33
XVIII. TRIBAL CULTURAL RESOURCES <i>Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:</i>						
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or		X			<p>According to the California Historical Resources Information System (CHRIS), there are no records of any previous cultural resource studies for the proposed project area. CHRIS recommends a qualified archaeologist conduct an archival field study for the entire project area to identify archaeological resources prior to ground disturbance.</p> <p>The site has been heavily impacted by historic agricultural practices including grading, discing, tilling and farming for at least 36 years.</p> <p>All local tribes were sent a request for review under AB52 requirements. No comments were received.</p> <p>TRIB-1: Should any cultural materials be discovered during pond excavation, all activity shall be halted in the vicinity of the find(s). The local overseeing Tribe(s) shall be notified, and a</p>	1, 3, 4, 5, 13

				<p>qualified archaeologist retained to evaluate the find(s) and recommend mitigation procedures, if necessary, subject to the approval of the Community Development Director. Should any human remains be encountered, they shall be treated in accordance with Public Resources Code Section 5097.98 and with California Health and Safety Code section 7050.5.</p> <p>TRIB-2: All employees shall be trained in recognizing potentially significant artifacts that may be discovered during the ground disturbance. If any artifacts or remains are found, the local tribe shall immediately be notified; a licensed archaeologist shall be notified, and the Lake County Community Development Director shall be notified of such finds.</p> <p>TRIB-3: In the event of an unanticipated discovery of cultural resources during the implementation of the project, all work must be halted within 100 feet (30 meters) of the find and a qualified archaeologist (36 CFR Part 61) notified so that its potential significance can be assessed.</p> <p>Less than significant impact with mitigation measures TRIB-1 through TRIB-3 added.</p>	
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.		X		<p>There are no mapped significant resources that are on or adjacent to the site. See response for section V (a).</p> <p>Less than significant impact with mitigation measures CUL-1 and CUL-2 added.</p>	1, 3, 4, 5, 13
<p>XIX. UTILITIES AND SERVICE SYSTEMS</p> <p><i>Would the project:</i></p>					
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			X	<p>Not applicable. The site is not served by a sewer district and wastewater treatment facilities are not a part of the proposed project. The project will not require the construction of new storm water facilities or the expansion of existing facilities. The project is not proposing to produce wastewater that would require treatment.</p> <p>No impact.</p>	1, 3, 4, 5, 21, 25, 29, 30, 32, 33, 34
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?			X	<p>The project as designed does not need any new water entitlements or sources. The pond will be filled primarily with pumped groundwater. Any proposed drilling of additional wells would require a permit through the Lake County Environmental Health Division.</p> <p>No impact.</p>	1, 3, 4, 5, 21, 25, 29, 30, 32, 33, 34
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			X	<p>The project is not proposing to produce wastewater that would require treatment. Therefore no conflicts exist with existing wastewater treatment providers.</p> <p>No impact.</p>	1, 3, 4, 5, 25, 29, 32, 33, 34

d) Generate solid waste in excess of State or local standards or excess of the capacity of local infrastructure?				X	The project will not impact the county landfill. No impact.	1, 3, 4, 5, 28, 30, 33, 34
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				X	All requirements related to solid waste will apply to this project. No impact.	1, 3, 4, 5, 28, 30
XX. WILDFIRE <i>If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:</i>						
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?				X	The project will not impair an adopted emergency response plan or evacuation plan. This site is no more prone to excessive fire risk than other sites in Lake County. The applicant will adhere to all regulations of California Code Regulations Title 14, Division 1.5, Chapter 7, Subchapter 2, and Article 1 through 5 shall apply to this project; and all regulations of California Building Code, Chapter 7A, Section 701A, 701A.3.2.A. The project would not increase risks to people or structures due to wildland fires and the available surface water in the reservoir could decrease risk of catastrophic wildfire in the area, as the water could be utilized by Cal Fire during wildland fire fighting operations. No impact.	1, 2, 4, 5, 6, 16, 19, 27, 33
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				X	The project does not occur within the Wildland Fire Hazard Area. The parcel is flat and located in a flood plain along Middle Creek. The project would improve the ability to fight fires in the vicinity due to the available water present in the reservoir. No impact.	1, 2, 4, 5, 6, 16, 19, 27, 33
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				X	The proposed project will not require installation or maintenance of associated infrastructure such as roads. The parcel is accessed off Elk Mountain Road, a county maintained road and all roads on the property are existing for the management of the agricultural practices. No impact.	1, 2, 4, 5, 6, 16, 19, 27, 33
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				X	The excavation of the agricultural reservoir is not likely to expose people or structures to post-fire slope runoff, instability, or drainage changes. Should fire damage any of the erosion control materials present on site, such as wattles, they would be replaced immediately post fire. The installation of the agricultural reservoir would likely decrease surface run off during wet weather due to the rain water being captured by the reservoir. Less than significant impact.	1, 2, 4, 5, 6, 16, 19, 27, 33
XXI. MANDATORY FINDINGS OF SIGNIFICANCE <i>Would the project:</i>						
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce				X	This project is not anticipated to significantly impact habitat of fish or wildlife species or cultural resources.	All

the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?					No impact.	
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?		X			<p>Potentially significant impacts have been identified related to Air Quality, Geology & Soils, Hydrology & Water Quality, and Noise. These impacts in combination with the impacts of other past, present and reasonably foreseeable future projects could cumulatively contribute to significant effects on the environment. Implementation of and compliance with mitigation measures identified in each section as project conditions of approval would avoid or reduce potential impacts to less than significant levels and would not result in cumulatively considerable environmental impacts.</p> <p>Less than significant with AQ-1 through AQ-5; BIO-1; CUL-1 through CUL-3; GEO-1 through 3; HYD-1 through HYD-3; NOI-1; TRIB-1 through TRIB-3.</p>	All
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		X			<p>The mitigation measures relating to Air Quality, Geology & Soils, Hydrology & Water Quality, Noise and Tribal Cultural Resources will insure that there will be less than significant impacts due to the installation and maintenance of this pond.</p> <p>Less than significant with AQ-1 through AQ-5; BIO-1; CUL-1 through CUL-3; GEO-1 through 3; HYD-1 through HYD-3; NOI-1; TRIB-1 through TRIB-3.</p>	All

* Impact Categories defined by CEQA

****Source List**

1. Lake County General Plan
2. Lake County GIS Database
3. Lake County Zoning Ordinance
4. Upper Lake - Nice Area Plan
5. Caporal - Agricultural Reservoir Site Plan – Grading Permit Application
6. U.S.G.S. Topographic Maps
7. U.S.D.A. Lake County Soil Survey
8. Lake County Important Farmland Map, California Department of Conservation Farmland Mapping and Monitoring Program
9. Department of Transportation's Scenic Highway Mapping Program, (http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/index.htm)
10. Lake County Serpentine Soil Mapping
11. California Natural Diversity Database (<https://www.wildlife.ca.gov/Data/CNDDDB>)
12. U.S. Fish and Wildlife Service National Wetlands Inventory
13. California Historical Resource Information Systems (CHRIS); Northwest Information Center, Sonoma State University; Rohnert Park, CA.
14. Water Resources Division, Lake County Department of Public Works Wetlands Mapping.
15. U.S.G.S. Geologic Map and Structure Sections of the Clear Lake Volcanic, Northern California, Miscellaneous Investigation Series, 1995
16. Lake County Emergency Management Plan
17. Lake County Hazardous Waste Management Plan adopted 1989
18. Lake County Airport Land Use Compatibility Plan adopted 1992
19. California Department of Forestry and Fire Protection - Fire Hazard Mapping
20. National Pollution Discharge Elimination System (NPDES)
21. FEMA Flood Hazard Maps
22. Lake County Aggregate Resource Management Plan
23. Lake County Bicycle Plan
24. Lake County Transit for Bus Routes
25. Lake County Environmental Health Division
26. Lake County Grading Ordinance
27. Lake County Natural Hazard database
28. Lake County Countywide Integrated Waste Management Plan and Siting Element, 1996
29. Lake County Water Resources
30. Lake County Waste Management Department
31. California Department of Transportation (CALTRANS)
32. Lake County Air Quality Management District website
33. Lake County Fire Protection District
34. EnviroStor Data. <https://www.envirostor.dtsc.ca.gov/public/>. 2021