## CALIFORNIA ENVIRONMENTAL QUALITY ACT

## FINAL INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION FOR UKIAH WESTERN HILLS OPEN LAND ACQUISITION AND LIMITED DEVELOPMENT AGREEMENT PROJECT



## COMMUNITY DEVELOPMENT DEPARTMENT

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## ÚÜÒZUÞÒÁ

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V@Áj ![][•^åÁÖ^ç^|[]{ ^} óÁÚæ& \•ÁÇaþlÁ[&æe \åÂjão@jÁœ Á& ;!!^} óÁÚUOÉ (æþaj\*Áæj] ![¢ājæe \^Á i LÁ æ& \•DÁjāļ |Áà^Áj !^:[}^åÁ( ÉÚāj\*|^EZæ(ā)ÂÚ \•ãa^} œb AÇaþlÁ[Bæe \åAjā@jAœ Á& ;!!~} óÁÚUOÉ (æþaj\*Áæj] ![¢ājæe \^A @b AÖ^•ā] ææā } Å[ -ÁŠ[, ÁÖ^} •ãcÂÚ^•ãa^} œb AÇSÖÜDÉ A& [•ãe \AUç^!]æÂÖã dã & AQÜFË DÁjã@ Aœ AC Ú|æ)ÁÖ^•ā] ææā } Å[ -ÁŠ[, ÁÖ^} •ãcÂÚ^•ãa^} œb AÇSÖÜDÉ A& [•ãe \AUç^!]æÂÖã dã & AQÜFË DÁjã@ Aœ AC Å a^c^|[] { ^} of jæe \} •ÁBjÁœ AY ^• c'.} APā] • ÉQ Aœ à ãa (at ) É CO AP [\* ` ^]æÁU ![] ^ ! ca • ÁQE UP • AE E E E JEE JABÁ å^c^|[] { ^} of jæe \} •ÁBjÁœ AY ^• c'.} APā] • ÉQ Aœ à aã (at ) É CO AP [\* ` ^]æÁU ![] ^ ! ca • ÁQE E E JEE JABÁ € E E E FE E DÁjā |Aà^A j !^:[} ^ àÁÜ FE A[ !A& ] •ā c' } & Ajã@ A 20 AP [\* ` ] æá A [] āj\* Áe à á Aæ à A 20 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' } & A 20 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [ of aj & ` a^ à Aœ AÖ^ c'.] [] { ^} of Uæ & A 10 FE A[ !A& ] •ā c' A 3 10 AF } [] ( - A 2 A@ AA 12 AF ] @ •ã ad A 2 AÖ A 2 AA 14 A 3 A[ ` a 3 A 14 [ c' ] câ ad A 2 AA 14 2 AC 14 AA 14 2 AA 14 2 AE ] @ •ã ad A 2 AC 14 2 A 14 2 A 14 2 AA 14 2 AA 16 AA 14 16 AA 14

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<sup>&</sup>lt;sup>G</sup>ÁV@ ÁP ā∥•ãå∧ÁU ç^¦|æ∂ÁÖãr d'380ÁÜ^\*č|æaāį} •Á&æ)Áà^Áųč}å⁄Áųč}å/Áj [ð] ^ÁædAÁ @cd •KeĐ , \_ È&|å^]čà]ãr@3j\*È&|{ EÔCEEW.ãæ@BAÁBW.ãæ@EUEW.ãæ@EUEW.ãæ@EUECEEF€€È@{|ÀædoFF

## ŠU VÁŠOÞ ÒÁOÐÖRWÙVT ÒÞ VÁ

Q Ácess [ låæ] & Á á cél M áce Ó Các ÁÔ [ å ÁÙ & Scát } Â GJÎ Ç DÉ A @ Scæ A Cæ A Concurrent Permit Processing KA , @ n a lot line adjustment is part of a project that requires one or more discretionary planning entitlements and the applicant does not want the lot line adjustment unless the entire project is approved, then the lot line adjustment shall be reviewed as part of the discretionary planning application. In that event, all permits and approvals, including the lot line adjustment, shall be combined into one application, processed concurrently, and acted upon by the highest review authority required by this code based on the entitlements included in the application. (Ord. 1138, §2 (Exh. A), adopted 2012)." P` ||Á] ![] ^ da Áce Ág å a are á Acee A co Áce A a co A ca a

<sup>&</sup>lt;sup>H</sup>Á/@AÛčàåāçãāţ}ÁTæţÁ0B8oÁ¢&|čå^•Á¦[{ÁãoÁ^ččā^{^}ã^{^}ã^{^}à^{^}} ]æ}&^|•#SAG@¦^ÆsÁ[Á^•č|G‡\*Áş&¦^æ^ÁşiÁc@Ajč{à^{^}á}A@Ajč{à^{}}

5ggYggcfBg DUFWY <sup>~-</sup> BiaVYff5DBŁ	91]gh]b[ G]nY fŽ#JWYgŁ	DfcdcgYX'G]nY' fŽ#UWYgŁ' h\fci[\`` @ch@]bY' 5X1ighaYbhg(`	FYgi`h]b['DUfW1∕'7cb2][ifUh]cbž=bh1⁄bXYX′IgY′UbX′ DfcdcgYX′DfYncb]b['
€€FËEI €ËI HÁ	ΪΪĒĖÁ	JÈÁ	Úæ}&^ ÁFÁ, āļ Áà^&[{ ^Áæ/Ö^ç^ [] { ^} o/Úæ}&^ Áā, c^} å^åÁ;[¦Á •āj *  ^Áæ;[āî Á@;`•āj * Áæ;)åÁ;¦^:[}^åÁÜFËPĚĂ
FÍÏËEÏ€Á €FÉA FÍÏËEÏ€ËEGÉA €€HËFJ€ËEFÁBÁ FÍÏËÈˀJÁ		ÍÈÁ	Úæb&^ ÁCÁ[}ÁÔ¢ãecāj*ÁÔ[}åãcā[}•Á\/^}cæsāç^ÁTæb]É&[}cæaēj•Á •^ç^¦æb/QELDÞ•Ásĭcóásá{}^A^*æbájæb&^ ÁJFIJÁse& ^•Ás[cæbDÉA/@erÁ ]æb&^ Á]ā Áà^&[{ ^ÁœAÖ^ç^ []{ ^}c^J@eb&^ Á5]c^}å^åÁ-{¦Á •ā]* ^Ëæs[ā[Á@u]*•ā]*Áseb]åÁ;!^:[}^åAÜFËDÉÁA
FÍÏˀ̀ËFÁ	I€È€Á	JÈÁ	Úæ}&^ ÁHÁ, āļ Áà^&[{ ^ÁæźÖ^ç^ [] { ^}ơÚæ}&^ Áājơ^}å^åÁ{[¦Á  •āj* ^Ёæa; āîÁ@;`•āj*Áæ}åÁ;¦^:[}^åÁÜFËPĚÁ
FÍÏˀ̀ˀGÁ	I€ĽÁ	JÈ€Á	Úæ}&^ ÁiÁ, āļ Áà^&[{ ^Áæ/Ö^ç^ [] { ^} o/Úæ}&^ Áāj c^} å^åÁ[ ¦Á •āj *  ^Ёæą{ āî Á@; *•āj * Áæj åAj ¦^:[} ^åÁÜFËPĔÁ
FÍÏˀ̀ˀFÁ	I€ÈĤ	ÍÈ€Á	Úæi&^ AĨĂĂİa]Aä^&[{ ^AædÖ^ç^ [] { ^} dÚæi&^ Aŋ̄,c^} å^åA[ ¦A •ŋ *  ^Ëæ{ aĨ Á@; * •ŋ * Áæ) åA; ¦^: [ } ^åAÜFËPÈA
FÍÏË€H€Ë€GÁ	G€È€Á	JĖĽÁ	Úæ}&^ ÁÌÁ, āļ Áà^&[{ ^ Áæ⁄Ö^ç^ [] { ^} o⁄Úæ}&^ Áā, c^} å^åÁ{ ¦Á •āj *  ^Ёæą{ā^Á@{`•āj * Áæ}åÁ;  ^: [ } ^åÁÜFËPĚÁ
FÍÏˀ̀ËFGÁ	I€Ì€Á	ÍÈ€Á	Úæi&^ AÏ,Ă, ā Aà^&[{ ^AǽÖ^ç^ [] { ^} dÚæi&^ Aj;c^} å^åA[¦A •ā]* ^Ëæ{ ā^A@`*ā]*&;a}åA;\^:[}^åAÜFËPEA
FÍÏËEÍ€ËEIÁ BÁ FÍÏËE΀ˀGÁ	HÌ È Á	IJFĚÁ	Úæs&^ ÁÌÁ, āļ Áà^&[{ ^ÁæÁÔ[}•^¦çææā[}ÁÚæs&^ Áæ)åÁà^Á ]¦^:[}^åÁUØEÁ/@:Á¦[][•^åÁ,æe^¦Áæa)\•Á,ā /Ás^A;Jæ&^åA;}Á co2ārÁ]æs&^ Á,ãco2a,Áco2eÁ^¢ãrcāj*Á,æe^¦Ácæ)\Á]æåA•ãe^ÁQ;}Á ^¢ãrcāj*ÁÚæs&^ ÁGDEXÁ
FÍÏË€H€Ë€HÁ	΀ȀÁ	΀ȀÁ	Úæi&^ ÁulÁarÁæóÖ[}•^¦çæaāį}ÁÚæi&^ Áæi}åÁjā Áás^Aj.¦^:[}^åÁ ÚØEÁ
FÍÏË£H€Ë€HÁ BÁ FÍÏˀ΀ˀHÁ	FÌÌĔÁ	FÌÌĔÁ	Úæl&^ ÁF€ÁÇÔãĉЁ⊑,}^åÁ%©[}æeāį}ÁÚæl&^ +DÁ,ā Áà^&[{ ^ÁæÁ Ô[}•^¦çæeāį}ÁÚæl&^ Áe)åÁ,ā Áà^Á,¦^:[}^åÁÚØÈÁ
Áka-[*`^¦æÁ Ú¦[]^¦œ≹∙+Á			V@`•^Ájaab&^ •Á&[}cæaajÁs@`Á*¢ãrcaj*Áse&&^••Á[zæåÁs@eæaÁ,ā A§a^Á ā[]¦[ç^åÁà`c4\^{zaajÁ`}å^\Aj¦ãçæe^Á[_}}^!•@3jÈ¥QaÁ,ā Áà^Á
<del>€€HË</del> J€Ë€JÆBÁ <del>€€HË</del> F€ËJ€Á	F€È€Á IÈTIÁ	F€ÌC€Á IÈFIÁ	[ā]&{`å^åÁ\$jÁc@:Áæj}^¢ææāį}Áj![][•æļÁæjåÁ;!^:[}^åÁÜFËPÉÁ &[}•ãic^}cÁ;ãc@Á`'!![`}åāj*Á[}āj*Áæ)åÁ;æjåÁ;æjåÁ;e^•EÉà`cÁ;[Á å^ç^ []{ ^}cÁirájk][][•^åLás@ãiÁ;æs&^ ÁarÁ;[cÁsj& `å^åÁşiÁs@:Á Š[cÁŠāj^ÁΩEåD`•c{ ^}dĚÁ
HCH5 @	Ž#`+\$+`U <b>W</b> Y	g	

ÖÒXÒŠUÚT ÒÞVÁÐÐÜÒÒT ÒÞVÆBAÐÙWT ÚVQUÞÙÁ

 $\begin{aligned} & (\mathbf{P}_{A} | ^{c}_{c}_{a} \mathbf{v} | ^{A}_{b} | c^{a}_{a} \mathbf{E}_{c}^{A$ 

<sup>&#</sup>x27;ÁÜ^•`|α];\*Á],æ8&^|Á&[}-ãt`¦æaji}Á&rÁ`àb/8xók[Á&@a);\*^Ás`ok@AÖ^ç^|[]{ ^} oÁŰæ8&^|Áæ^∞Á4[[d];ijo4, i|Á^{ æjiAx@A´ae(^È

c@ ÁÔaĉ q ÁÜFËPÁ[}āj\*Áåā da&dĂP[, ^ç^¦ÉAP`||ÁÚ¦[]^¦cāt•Áā Á&Q[•āj\*Áţ Á^`ă^Á&@ Áāj\*|^Ëæţ áî ÁQ{ { ^•Á q[Áà^Á&[}•d`&c^àAţ[ÁÜFËPÁ cæj åæåå•Áa`Áāj&]\*Á@{ Áāj\*Á@{ Áāj Á@ ÁÖ^&|ææāţā]}Áţ ÁÔ[ç^}æ) œ ÉÔ[}åãda]}•ÉA æj åÁÜ^•d a&caţ}•ÁÇÔÔBÜ•DÁ-[¦ÁÖ^ç^|[]{ ^}cÁUæ&^|•ÁFËHÉAQ,Áæååãdāţ]}ÉAædcQU`\*@Á}[cÁ\^`ă^åÊAc@A { ãcātææaţ}}Áţ ^æe`¦^•Á&[}cæaţ ^åÁş ãc@aţÁ@ ÁQÙT ÞÖÁt[¦Á^•ãa^}cāmeÁå^ç^|[]{ ^}cÁş áţAœ+[Áa^A5g &|`å^åÁ5g Á c@ ÁÔÔBÜ•ÈÄÖ^ç^|[]{ ^}cÁUæ&^|•ÁFËHÁş āţIÁ\*eāţIÁà^Áāj&]`å^åÁājÁc@ Áœz]]|a&ææaţ}}Á{{ iAæ}}A{{ iAæ}}á 2\:

Y @4^Ác@ ÁÜFÁ[}ā]\*Á&ã dã&oÁb[^•Á][oÁbā^}cā^Áœ4{ æ¢ā[`{ Á[oÁ•ã ^ÉŘoÁc]ā&æ4|^Á&[}cæa]•Á\*ā]\*|^Éæ4{ā^Á ¦^•ãb^}cãæ4Á`àåãçã ā[}Á[o•Áæ)\*ā]\*Á§jÁã ^Á'{{ (Aã¢Á@)`•æ}åÁQî ÊEEEDÁţÁv}Á&Q`•æ}åÁQF€ÊEEEDÁ``æ^Á ~^dĚÁV@ Á PÁUç^¦|æÂÖã dã&oÁ^``ã^•Áœ4{ ā]ā[`{ ÁFEÊEEEA``æ^Á[[of4[dÉæ]åŧ]&\^æ\*^4, ã@á@A[[]^Á [~Ác@ÁãvĚV@ A PÁUç^¦|æÂÖã dã&oÁv#|[],•Á{¦Áā]\*|^Éæ4[āî Á^•ãb^}cāeA;caf]& ^}oáæ}åŧA\\*^c^|[]{ ^}oá [~Ác@ÁãvĚV@A PÁUç^¦|æÂÖã dã&oáv#|[],•Á{¦Áā]\*|^Éæ4[āî Á^•ãb^}cāeA;caf]& Asobb aŧA [~Ác@ÁãvĚV@A PÁUç^¦|æÂÖã dã&oáv#|[],•Á{¦Aā]\*|^Éæ4[āî Á^•ãb^}cāeA;caf]& Asobb aÅb^cc^|[]{ ^}oá [~Ác@ÁãvĚV@A PÁUç^¦|æÂÖã dã&oáv#|[],•Á{¦Aā]\*|^Éæ4[āî Á^•ãb^}cāeA;Avobb a&A§A;Avobb a&Ab^cc^]] [~Ác@ÁOČWÁBJÁæ^æ Á]ã@4{^••Ác@a}A & A`A[]^AQ``àb/&oát[Áæ]]¦[çæ4A[~ÁcAbb ã&&\^caf]&æ^A/V•AÚ^;{ãAcAb} a`A UãvÁÖ^cc^|[]{ ^}oÁU^;{ ãDĚA

V@AÔãĉÁ(-ÁŅ,ãæ@Ó^}^¦æAÚ|æ)Aæ|[,●Á[¦Á;ã¢Áŝ,^||ã,\*Á'}ãゃÁ,^¦Áæ&¦^Á[¦Áœ)AŠ[,ĔÔ^}●ãĉÁÜ^●ãâ^}œædÁ å^•ā\*}æaā[}ÈÁP[`\_^ç^¦ÉÁà^&æĕ•^Ác@^Áj¦[][•^åÁÖ^ç^|[]{ ^}ớOE\*¦^^{ ^}oá[`|åÁ|ā[ãoÁå^ç^|[]{ ^}ơÁ[Á [}^Á]¦ā[æċ^Áå,^||ā]\*Á`}ãA]^\A]æ&^|ÊA[¦Ác@ãÁæ)械•ã ÁãAã Áæ••`{ ^åÁc@æcĂ`]Á[Á•^ç^}Á•ā]\*|^Ëæ{ af Á @{{^•Á;ā|/ás^/ás^c/[[]^àÈÁQ;Áscáaãāā;}ÊÁ;}^ÁOEÖWA; cêÁs^Ás^c/[[]^åA;^¦A[CÉA;¦ÁscA;[caa,A;ÁrIÁ}ão•ÈA/@4;^Á &[}•dæajorÉks@Áæai[ç^Ëa^•&¦äa^åÁæ•`{]qāj}•Á?}•`\^Ás@æaÁ@ÁÖ^ç^|[]{^}o/OE"\^^{^}o/A[¦qāj}Aj~Ás@A Ú¦[b^&o/áē/Áæå^˘˘æe^|^Áæ);æf`:^åÁ}å^¦ÁÔÒÛOĐĂŒĮÁĭčč¦^Áå^ç^|[]{^}o/k}Aĺ/æ&^|●ÁEÏÁ[ĭ|å/ás^Áæ);æf`:^åÁ [}Áæ4] \[b^&o4[^ç^|Aaæa ã Á[ |A&[ }•ã c^} & Â á ão@4a) aÁ •^A] [ |ã&ã • LÁa) aÅ [ ` |aAa^Á ` àb &o4[ Aa ã & ^ a æ);åÁ^}çā[]{{^};œ4Á^çã`,Á[-Ác@/āÁē);åãçãã ǎz4Áee);åÁ&X`{`|æeãç^Á^};çã[]{{^};œ4Áe[]] æ&or Éxæe Áee]]|ã&æà|^ÈA OEpc@[`\*@ÁÖ^ç^|[]{^}oÁÚæb&^|•ÁFËHÁ{æ°Áà^Áå^ç^|[]^åÁ,ão@3jÁco@AÔ[`}c`q•Ábč¦ã\*åã&caā;}Á]¦ã[¦Ád[Á æ) } ^¢æaāt } Áá Éďa @ÉÉc@^ Á, allÁa^Á'^˘`ã^aÁt Áa^Áá^ç^|[] ^åÁt ÁÜFËPÁ•œ) áæla•Ác@[ \*\* @ÁÔÔBÜ•ÈÁQÁ æååããa;}Ê&ee|A, ããã æeaa;}A, ^æe ` ¦^• A&a^} cãã^àÅ{{ ¦Å^• ãå^} cãæh&a^;c^ |[ ] { ^} cA; As@^AQUT ÞÖÅ, ã|A&^Ase}] |ð^àÅ{{ Å Ö^ç^[[] { ^} oÁÚæ}&^|• ÁFËHĚÃÕ^}^\æļÁ&[}•d<sup>\*</sup> &œ́į} Áðj -{ \{ ǽãt}} Á-[ \A+ ðj \* |^ Ëæ{ ðj \* A@} { (^• A[ } Aæ|A[ - Ác@ A Ö^ç^|[]{^}ơÁÚæl&^|•Á@æe/Áa^^}Áaj&|ĭǎ^åÁajÁc@/Áæ)æf°•ãrÉAOEcq0`\*@4c@/ÁÞ[\*`^¦æÁÚ¦[]^¦æ?•Á,áll/Áa^Á ]¦^:[}^åÁÜFËÞÁ[¦Á&[}•ã‹c^}&;Á\_ã@Á\*`¦![`}åã]\*Á[}ã]\*Áæ]åÁæ]åÁæ]åÁ•^•ÉA;[Áå^ç^|[]{^}ơ≦rÁ;¦[][•^åÁ æ) å Ác@ A] æ &^ |• Á, ä| Á&[ } cā `^ Áq[ Áa^ Á` •^ å Á{[ ¦ Áæ&&^•• Á[ } |^ Ě&2[ ¦ Ác@•^ Á^æ [ } • É&a^ c^ |[ ] { ^} o´A[ Ác@•^ Á ]¦[]^¦cā\•Á\$āÁ,[oÁ\$4;&|`å^åÁ\$4;Áo@A\$å^ç^|[]{^}oÁse•`{]cā[}•ĔÄ

### ϯÜŒÙVÜWÔVWÜÒÁŒ ÚÜUXÒT ÒÞVÙÁ

CE] | [ ¢ā] æv | ^ Á] ^ É@æþ Á; ā ^ Á; -Á@ Á ¢ā: cā] \* Árì Á[ Ál -cÁ, ãå ^ Á ¦æç ^ |Á, lã; æv Áæ& \* • Á[ æå Åa \* ā } ā] \* Áæð @ Áv æ& \* • Á] [ā] cÁæd @ Áv ¦ {ā] \* Á; -Á] AÜ ^ å ; [[å Á OEç ^} \* Á GE æç ^ ! • ā] \* Á @ Áv [ \* \* ^ !æd Ú! [] ^ ! ca • DÉ Á Á@ ÁQ \* • ^ Á • æ\* • É Å] [ \* ] å Á Á A / a æç ^ å Á [ Á ~ ! c ^ Á @ Á \* č ' ^ Á Q \* • ā \* Á Å ^ c ^ [] { ^ } o Á æ \* • É Å @ Á [ \* \* / æd Ú! [] ^ ! ca \* DÉ Á Á @ ÁQ \* • ^ Á • æ\* • É Å] [ \* ] å Á Á Á / a æç ^ å Á [ Á ~ ! c ^ Á @ Á \* č ' ^ Á Q \* • ā \* Á Å ^ c ^ [] { ^ } o Á \* æ\* • É Å @ Á [ \* \* / æd Ú! [] ] \* / a Á Á Å ā & \* á ^ Á å ^ c ^ [] ] ā \* Á æ Á & [Ë a \* É æ Á [ } Á Ú! [] [ • ^ å Á Ú æ & / Å I Á d [ Á • ^ ! c ^ Á c@ Á Ö · c ^ [] ] { ^ } c Á Ú æ \* / • É Å C ā ] \* [ c ^ { ^ } o Á , ā] Á æ A & [Ë a \* É æ Á [ } Á Ú! [] [ • ^ å Á Ú æ & / Å I Á d [ Á • ^ ! c ^ Á c@ Á Ö · c ^ [] ] { ^ } c Á Ú æ \* / • É Å C ā ] \* [ c ^ { ^ } o Á , ā] Á æ A & [Ë a \* É æ Á [ } Á Ú! [] [ • ^ å Á Ú æ \* A [ A d d A e ^ / c ^ A @ A [ ] \* ( c { ^ } o Á ] ā ] \* á ^ á Å á ^ c ^ [] ] ā \* Á æ Á & [Ë a \* É æ Á [ ] A Ú! [] [ • ^ å Á Ú æ \* / Å I Á d d A e ^ / c @ Á Ø Å / e æ A e ā ] \* [ c ^ { ^ } o Á , ā] Á æ A & [ É a & A e [ ] } A Ú! [] ] \* ( \* Å é A & A e [ ] ] \* [ c ^ { ^ } o Á , ā] Á æ & A e [ ] ] \* [ c ^ { ^ } o Á , ā] Á æ & A e [ ] ] \* [ c ^ { ^ } o Á , ā] Á æ & A e [ ] ] \* [ c ^ { ^ } o Á e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ a \* A e ] \* [ ] \* [ ] \* [ ] \* [ ] \* [ ] \* [ ] \* [ ] \* [

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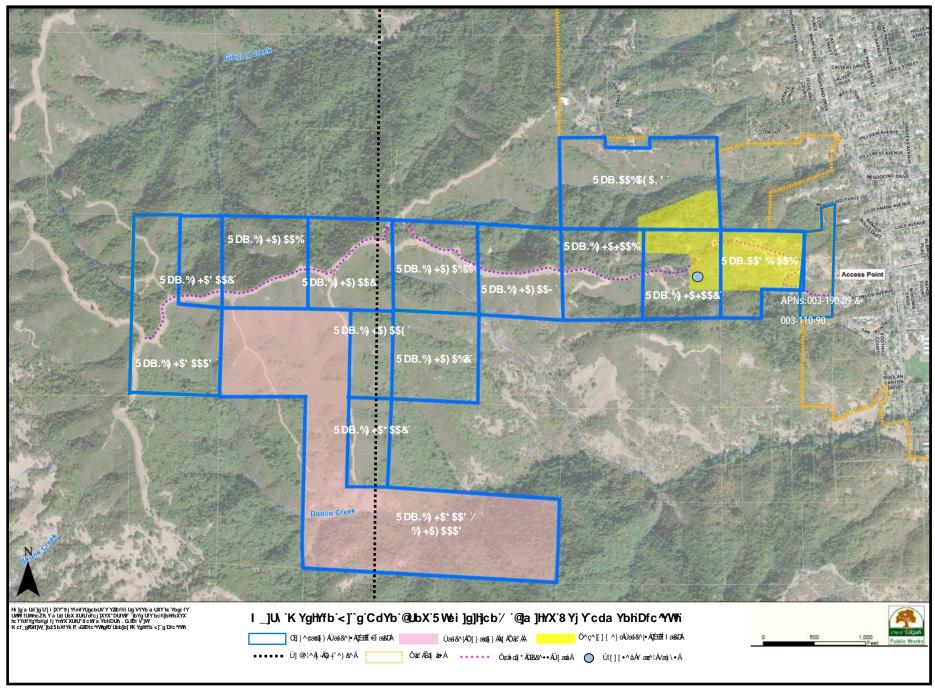
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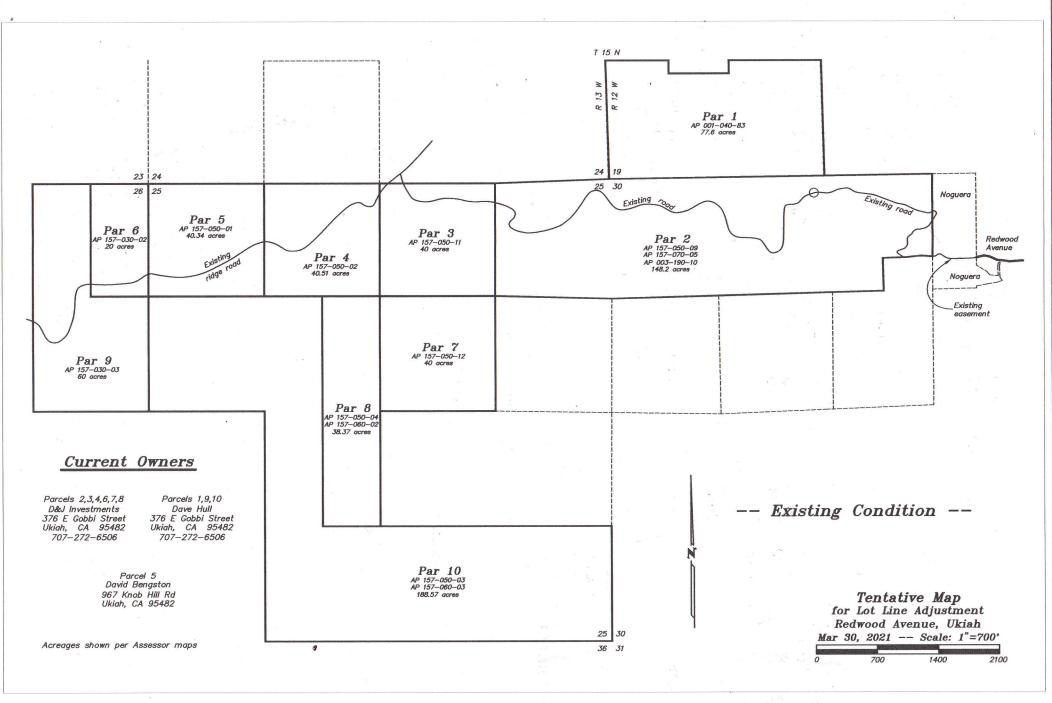
### ÔUÞÙVÜWÔVQJÞÁ

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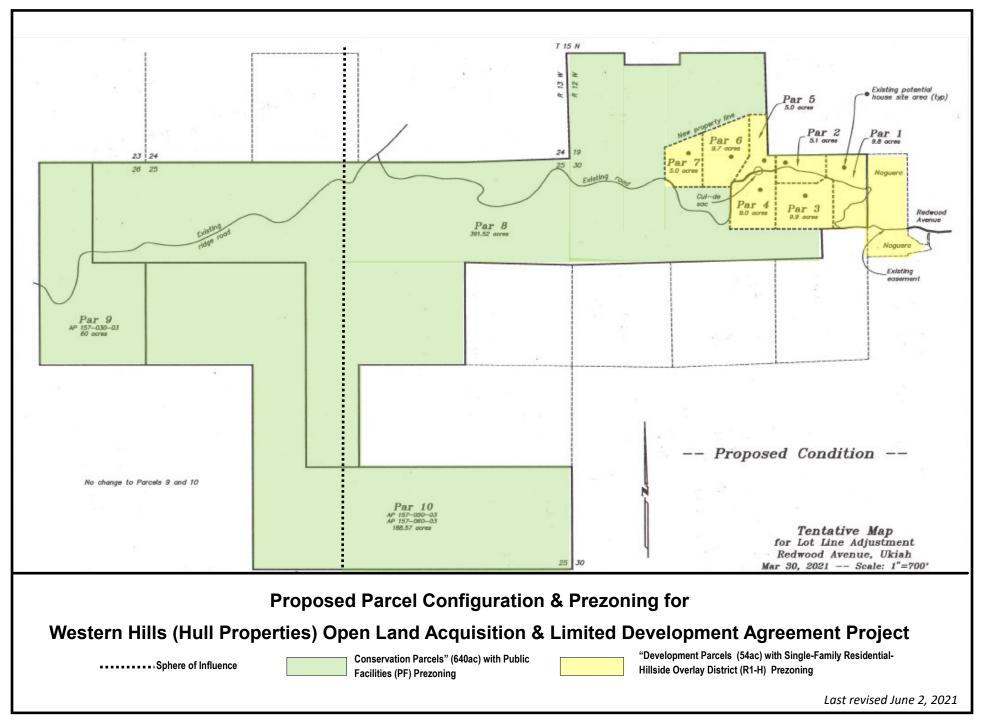
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V@Á^}çã[}{ ^}œ4Áæ&q{¦•Á&@&\^åÁà^|[, Á, [`|åÁà^Á][c^}œæ4|^Áæ-^&c^åÁà^ÁœãÁÚ¦[b/&œÆ4j;¢[|çã)\*ÁœA |^æo4j}^Áaj]æ&o4x@æd5a ÁæAUÚ[c^}caæ4j^ÂÚãt}ã&æa)o4Q]æ&o2X&æ Ásjå&&æ^åÁà^Áx@A&@&&\ãro4j}Áx@Á{[|[, ã)\*Á ]æ\*^•EXA

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Gia a UfmcZ:]bX]b[g.Á4/@ÁÔāĉ Á] ¦[] [•^•Á([Áæ&č ǎ ǎ Áæ)) å Áæ) } ^¢Áæ] ] ¦[¢ā[æe^\ JHÁæ&i ^•ÁÇAč \* ||Á Ú¦[]^¦cā)•+Áæ) å Ác@ÁÔāĉ qe Ákö [} ææā] } ÁÚæb&/\+DÁBj Ác@ÁY ^•c\*\}ÁPā]•Á[¦Á]] ^}Á] æ&/Å; |^•^\;çææā] } ÉÅ @&A æh[],ā] \* Ác@Á][c\*] cāæhÁ[¦Áčč'A\*o;c^} Á\*ā] \* |^Éæa[ā Á@ { ^•Á[} Ác@Áæ]] ¦[¢ā[æe^\ I Á ?æc']} { [•Á æ&i ^•É&[] •āc\*} cÁ] āc@Á¢ācā] \* Áå^ç^\[] { ^}cÁ] Ác@ÁY ^•c\*\}ÁPā]•Á āc@) Ác@ÁÔāĉ Á[ ~ÁW ãæ@Á[ā] ã•ÉQA æbiåātā] Ě&@Áka[\* \* ^}æÁU|[]^\cā\*•+É&[cæa] \* Áæ]] ¦[¢ā] æe^\ Æ]] \[[¢ā] æe^\ Áb] Ác@Áæ] ^ ¢æaā] } Á abiátātā] É&@Áka[\* \* ^}æÁU|[]^\cā\*•+É&[cæa] \* Áæ]] \[[¢ā] æe^\ Æ]] \[[¢ā] æe^\ Áb] Åc@Áæ] ^ ¢æaā] } Á ] \[][•æAÁ[¦Áæ&&^••Á]] Ê É&` cÁ āJÁ^{ abi} Á } å^\A] å^\A] å; @ee^A[] } ^\; @B

Ú¦[b/&oÁ&[{][}^}@Áij&|`åĝ\*Á@Áæ&``ãããt[}Ê£æ}åÁ;¦^:[}ĝ\*Á;A}æ&A\|•ÁÇæ}åÅæ\*åãát]}ÁţiA::[}ĝ\*Á;A}æ&A\|•ÁÇæ}åÅæ\*•[&ãææ\*åÁ Z[}ĝ\*ÁTæ]Áæ}åÁÕ^}^\æAÚ|æ}ÁTæ]ÁOE[^}å{ ^}@Bæ#A^}çã[]{Á@áãat}}ÁţiÁc@ÁŠ[oÁŠĝ^ÁOEåb\*•(~}dÊ4,[`jåÁ;[oÁ åã^&q^Á\•`|oÁġÁ4]]æ&oÁ[Ác@Á]@•ã&ætÁ^}çã[]{ ^}dÉ4\@{\~{\ABACCA\_A}[oáaa&\*••^åÁġAå^cæ#Á c@[`\*@`oá@Á^•[`\&^Ác&ã}}•Á^|æ\*àÁţÁ,@•ã&ætÁ};cã[]{ ^}cætá]]æ&oEÁ

c@ ÁÔãĉ q ÁÜFËPÁ[} ]] \* Ášā d 38dĂP[, ^ç^¦ÉAP`||ÁÚ¦[]^¦cā • Ási Ás@ [ • 3] \* Áşi Á^``ā^Ás@ Á 3] \* |^Ĕæţ aî Á@ { ^• Á q[Ásì^Á&[} • d`&c\*å Áţi ÁÜFËPÁrcæ) å ætå • Ási Ási & j å aj \* Ác@ { Ási Ác@ ÁÖ^& aj æstaj } Áşi -ÁÔ[ç^}æ) or ÉÂÔ[} å ãstaj } • ÉÁ æ) å ÁÜ^• d 38caj } • ÁQÔÔBÜ • DÁ-[¦ÁÖ^ç^|[] { ^} cAÚæt&^| • ÁFË HÉAQ Áætå å ãstaj } ÉÁæto@ `\* @Á}[ cÁ\^``ā^å ÉÁc@ Á { ãsta æstaj } Áşi ^æz` ¦^• Á&[} cæstaj ^å Áşi ãs@aj Ác@ ÁQÙT ÞÖÁ-[¦Á/° ãsi^} cæthás^ç^|[] { ^} cAşi Aşi & j å^å Ási Ási c@ ÁÔÔBÜ • EÁ

Ü^\*ælå|^••ĒÁ-[¦Ác@A]`¦][•^•A[Ac@āAÔÔÛŒAæ)æf•ãĒÁãAæAæ•`{ ^åAc@æeAc@Aå^ç^|[]{ ^}cA[Aæ|A Ö^ç^|[]{ ^}cAÚæ&A\•A, āļA[&&`¦EAOEc@`\*@Ac@AÞ[\*`^¦æAÚ![]^¦cā\•A, āļAà^A]'^:[}^åAÜFËPA-[¦Á &[}•ã c^}&`A, ãc@A•`¦![`}åā]\*A:[}ā]\*Aæ)åA|æ}åA[æ}åA`•^•ĒAc@^AæAA}[cAā]&[`a^åAâ]Ac@AÖ^ç^|[]{ ^}cA QE`!^^{ ^}cA}&A}[cAā]Ac@AO`ç^|[]{ ^}cAā]&A`[][•^åLA&@A];æ&A'|•A;ā]A&[}cā]`^A&[Aā]Ac@AÖ^ç^|[]{ ^}cA QE`!^^{ ^}cA}&e[}•ĒAc@•^A];æ&A'|•Aæ^A][cAā]&|`å^åAæAÖ^ç^|[]{ ^}cAUæ&A'|•Aa] c@•^AA^æ[}•ĒAc@•^A];æ&A'|•Aæ^A][cAā]&|`å^åAæAÖ^ç^|[]{ ^}cAUæ&A'|•Aæ]åA@æç^A][cAaA^}A6]&|`å^åA ã]A@@A&^c^|[]{ ^}cA;cAaA}

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Óæ•^åÁ′][}Ác@/Áce)æf•ãrÁ&[}cæa]^åÁjãr@3jÁc@3rÁQ)ãnãade/ÁÙčå^Áce)åÁTãnãtæc∿åÁÞ^\*ænã;^ÁÖ^&|ætænã[}Éxked|Á ][c^}cãade/Ás[]æ&crÁ^•č|cāj\*Át[{Ác@/ÁÚ¦[][•^åÁÚ¦[b∿&cÁj[č|å/Ás^Á/∿••Ác@a)Árãt}ãa38æ9icÁjãr@Ásj&[¦][¦ænā]}Á [~Ájãnātananā]}ÉÁ

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````` ÁQÁaj å Ás@eenÁ@A,\[][•^å ÁÚ\[[b'&oAT OEŸ Á@eeç^ÁecAiā] }ãa38aa) oA~~^&oA, } Ás@ A\}çã[]{ ^} dĚOE; Á ÒÞX ŒÜU ÞT ÒÞVOEŠÁCT ÚCEÔV ÁÜ ÒÚU ÜV Á# Á^``ã^å ÈÁ

/// ÁQÁ-āj åÁc@ækÁædc@`\* @Ác@ Á] ¦[][•^åÁÚ¦[b/8cÁ8[` jåÁ@æç^Áæk+āt }ã&Bæa) c/A~~&8c/[} Ác@ Á ^}çã[] { ^} cÊtà^&æ`•^Áæd|Á][c^} cated|^Átãt }ã&Bæa) c/A~~&8c• ÁQÆD/@æç^Áta^^} &ad; \*^åÁæta^` `æe^|^Á āj Áæj Áræd|ãr¦ÁOÜJÁ[¦Á>OÕCE/CXOÁÖOÔŠCEÜCE/QUÞÁ]` '•` æj cÁt[ Áæt]] j&Bæata|^Á+cæj åæda•EÆaj åÁQaDÁ @æç^Áta^^} Áæç[ãta^åÁ]¦Á; ãætæta\*aÁj` '•` æj cÁt[ Á@æcÁ\*æd|ãr¦ÁOÜJÁ; ¦Á>OÕCE/CXOÁÖOÔŠCEÜCE/QUÞÉA āj &j` åāj \* Á'çãe āj }•Á[¦Á{ ãætæta\*j}Á{ ^æ\* ¦^• Ác@æcÁæ^Áāt][][•^åÁ`][} Ác@ Áj ¦[][•^åÁÚ¦[b/8cEÁ }[c@aj \* Á\* ¦c@;¦Á#á/~` ã^åEÁ

Muller down

August 16, 2021

Öæe∿Á

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[čdā],^åÁā],Ác@).ÁÔãĉ quÁZ[}ā],\*ÁU¦åā],æ);&^ÁQNÔÔÁÙ^&cā];ÁJ€FÌDÉÁÜFÁ:[}ā],\*Á&[}cæaā],•Áå^ç^|[]{^}oÁ • cæ) 忦å• Á∄ &|ĭ å∄ \* ÁæÁHEË;[cÁ@ ã @ Á|ã ãæeã) } Á;[¦Á•ã] \* |^Ëæ; ãî Á@;{ ^ÈÁV@ã Á• &æ|^Á[-Á][c^} cãe;A å^ç^|[]{ ^} ơĂ [ĭ|å Áà^Á‡ ã[ ⦿é Ád[ Á'^•ãå^} cãæ‡Áå^ç^|[]{ ^} ơÁāj Ác@ Áæh^æé^æé^æé væ oÁ[ Ác@ Á‡ ãơ ĚÁY @ãh Ác@ Á ,[č|åA}[OA\*čà•œa);cãæd|^Áå^\*¦æå^ÁæzÁ\*&^}3&Áçã;cæÁ[¦Ác@ÁçãičædÁ&@edæ&c∿¦Á[~Ác@Áed^æÉÆæAãÁã\*Áæ••č{^åÁ .c@^Á, [ĭ|åÁà^Á&[}•dĭ&c^åÁ, ãc@ã, Ác@ Á^¢ã;cã, \*ÁQ;ĭ•^Á+ãc^•Áa);åÁ}[cÁ^ĭĭã^ÁazA+`à•ca);cãa↓Áa;[ĭ}cÁ; Á ç^\*^œeañi}Á/^{ [çæ)EXÁQiÁeaååãañi}ÉAi}^Ai~Ác@/Áñic^}cñi}•Ái~Ác@/Á PÁÖãida8cÁñiÁi¦^•^¦ç^Ái`o•œa}åãi\*Á ^o&HŽ¥OE#[[,ā]\*Ác@\Áå^ç^|[]{^}oA[\_Á@{{ ^•A[}A@{A^œ?c^\}{ [•oA][\cā]}A[\_Ác@\Á\*āc\ÉA,@a[^A]\^ç^}cā]\*Á ¦^•ãå^} cãæ‡Áå^ç^|[]{^} cÁ[} Ác@ Á'^{ æãj ãj \* Á'Ì I €Áæ&¦^•ÉĂj ãļ|Á^} • `¦^Á[¦å^¦|^ Áå^ç^|[]{^} óÅ cóÅj ææc∱¦} •Á[ Á ]¦^ç^}ơÁ•]¦æ;|Áæ)åÁçãrĭæ;Áå^\*¦æåæænã;}Á,ão@3)Ác@•ÁY^•ơ^¦}ÁPã||•ÈÁV@•Áæ••ĭ{^åÁ|[;Ëå^}•ãĉÁ å^ç^|[]{ ^} œ́! ﷺ Áã Á&[} •ã c^} œ́A; dâà` c^• Áq Áœ Á`¦æ‡Á%,{ æ‡Áq , }+Á&@eet æ&c^¦Á; Áœ ÁW. ãæ@Á Xæ|^^Áæ);åÁ&[}•ã;c^}cÁ;ãc@Á]¦[][•^åÁÔãĉÁ:[}∄ā;\*Á-{¦Ác@>Á•ãc^•ÉAQ;Áæååããā[}ÉA~čč¦^Á¦^•ãå^};œãdA;  $a^{c}^{-}[[] \{ [^{+}] \phi^{-}  ¦^´`ã^åÁq Á&[{]|^Á,ão@ÁÔãĉ Á'^\*`|æeãį} • Á{ ¦Á@ ã @ÉA+^càæ&∖•ÉAæ) åÁ[c@ ¦Áå^ç^|[]{ ^} cA+cæ) åæeå•A Ö^ç^|[] { ^} cÁÚæl&^|•ÁFËHÁ; æîÁà^Áå^ç^|[] ^åÁ; ão@a;Ác@^ÁÔ[`} c`qeÁŏ ¦ãråã&cãa; }Á; ¦ã;¦Áq;Áæa; }^¢ææãa; }Áà^Ë ¦ãt @ÉÁc@^^Á, āļ|Áà^Á¦^``ā^åÁq[Áà^Áå^ç^|[]^åÁq[ÁÜFËPÁ•cæ)忦å•Ác@[[`\*@ÁÖÖBÜ•EAQAæååãaā[}EAæ|A {ão∄æaāį}Á{^æ•`¦^•Áãa^}cãa∿åÁ~{¦Á¦^•ãa^}cãaa†Áå^ç^|[]{^}cÁājÁco@ÁOÙTÞÖÁ,ã||Áà^Áæ];]|ð∿åÁq[Á Ö^ç^|[]{^}ơÁJæ38^|•Á≂ËHÉA/@¦^-{¦^Ê&@A^[ơ}œaaA^•ãa^}œaaA%a^ç^|[]{^}ơ\$oáæ•[&ãæe^åÁão@AÚ¦[b^&cA Á

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9 bj]fcba YbhU`GYhhjb[.Á£88[¦åā]\*Á{Á@ÁVXOEÚÉA æ|^Áæ!¦æš'|č'¦æ∱A, -{|'o ÁšjÁ@ÁVX ãæ@ÁXæ|^^Ásj&|`a^åÁ c@Á¦æãrā]\*Á[-Á|ãç^•q[&\ÉAæ}åÁc@Á\*¦[,ā]\*Á[-Áçæa][`eA;#ašj•ÉA@æêÉAæ+a+æÉAæ)åÁ@])•ÉAY@}Ác@Á Þ[¦@,^•c\*}ÁÚæsãã&ÁÜæ‡i[æåÁ;æÁ&[{]|^c\*åÁsjÁFÌÌJL4]!`}^•ÉA [:]}ÁæjåÁ^}dá[Aûæ}ÁZ]æ#i[æåÁ;æÁ&[{]|^c\*åÁsjÁFÌÌJL4]!`}^•ÉA \*'[]}ÁæjåÁ^}dá[Aûæ}ÁZ]æ#i[æåÁ;æÁ&[Ás]åÁc@¦Á^\*ã]}æ#i[æåÁ;æA?];A\*ÉA \*'[]}ÁæjåÁ^}dá[Aûæ}ÁZ]æ#i[æåÁ;æÁs]áA;c@¦Á^\*ã]}æ#i[æåA;æA?];A ;æA];æ&cã&àAî,}Áœ#A&æ#AEA/@[`\*@Ác@AFJÍ€qEA?]•ÉA;A\*EÅ;A\*AA ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Áæ#i[æåÁ;æÁsi[]]^c\*åÉA;A\*A ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Áæ#i[æåÁ;æÁsi[]]^c\*áÉA;A\*A ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Áæ#i[æåÁ;æÁsi[]]^c\*áÉA;A\*A ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Áæ#i[æåÁ;æÁsi[]]^c\*áÉA;A\*A ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Ása#i[æåÁ;æÁsi[]]^c\*áÉA;A\*A ;ãa^|^Á,|æ}cåÁsi[]•ÁsjÁc@ÁVX ãæ@Áxæ#A^ÉA/@[`\*@Ác@Ása#i[æåÁ;æÁsi[]]^c\*áÉA;A\*A ;ãa^]^Â;[&^++\*\*A\$;[æ#A^A;A\*A;A\*A];A\*A

V[åæÊÉA(`&@A(x, Áx@, Áxæ&aãç^Áxæ\*; l&`; læ;A(aa); å/ða); Áx@, ÁAXXOEÚA(; læ); }ā] \* Áxæ4^æ&ña (A[&aæ4^åA(; ); Áx@, Áxæ#)^^ Á; [[; lÁ æ); åA[[\_\_^!Á^; ^; A^; ^; A; ] \* Áx@; AÜ`••ãæ); ÁÜãg^; A\* • • c\* {EAU} |^ Áæá4[ā]; ãe4 à[]^; &aæ4^Å[, Ax@, Å; æ\*; l&; |c`; læ;A(aa); å•Áxæ4^Áx; ; l^} d^ Á]; [] c\*&c\*å A`; å^; AY ājjãæ; •[]; ÁOE&ACE; &x`; |c`; læ;AÚ; •^; ç^Á&[; dæsce; EAV@; Á

Ô[`}ĊÁ[-ÁT^}å[&ā][Á&[}œa#j•Ác@^^Á:[}ā]\*Áåã:da&orÁ-[¦Áæ#¦a&`|č'¦æ‡Á`•^•KÁOE\*¦a&`|č'¦æ‡ÁÇDEEĎDÉÁ Üæ)\*^|æ)åÁQÜEŠDÉÁ[¦ÁØ[¦^•dæ)åÁQZEŠDEÁP[\_^¢^¦ÉÁc@¦^Áæ\*^Á•[{ ^Áæ&a#ç^Áæ\*¦a&`|č'¦æ‡Á|æ)å•ÁāJÁ `}ā]&['][¦æe\*åÁT^}å[&ā][ÁÔ[`}ĊÁc@æeA&`|¦^}d^ÁaJÁ]![å`&ca‡}Ác@æeAe\*^Á}[oÁ[}^áA]{A#AA[¦Áæ\*¦a&`|č'¦æ‡Á|æ} 'a]aÅ´•^•EXDE&{[¦åā]\*Á{[Ác@AÔ[`}C`qÁÚ`à]a&AŐQÙÁ^•c^{E&@'!^Áæ\*^Á,[Á´ā]aæ{•[}ÁOE&o&{ \_ãc@aAc@AÚ![b%&cÁ;ae^ÈÁ

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G][b]ZWUbWY7f]hYf]U.Á/@ÁÚ¦[][•^åÁÚ¦[b%&á,[`|åÁ@eç^ÁæáÁät}ã&æa)óÁi[]æ&óÁi[ÁæáÁčă#áz /ázábáýáj[`|åÁ &[}-{a&oÁ;ão@áea)ÁæáÁ`æ‡áz Ájæ)ÉA^•`|oÁijÁæá&`{`|ææãç^|^Á&i[}eæãç^|^Á&i[}eæã^\ázábá; Ázábá & AæoÁi[ÁæáAč\*ázáki @&&@Ác@ÁT^}å[&äj[ÁÔ[`}c´ÁOEáÁÚ`æ‡áz ÁTæ}æ\*^{^}oÁözáda&oÁÇTÔCEÛTÖDÁ@ee Áå^•at}æ\*åÁæe Áj[]Ë æccæaij{^}oÉAv¢][•^Á•^}•ãaã;^Á!^&^]d[!•Ád[Á\*`à•œa)cãæ‡Á&i[}&^}dæái]•Á[-ÁœáAí][||`œa)ceÉ4[!Á!^•`|oÁijÁ ^{~ã\*eãa}}•Ác@eeÁ&i^æe^Á[àb%acãa]}æà|^Á[å[]+Á[lá[[+Á[lc@];ã\*Áæåç^!•^|^Áæ-A&óÁæÁ\*`à•œa)cãæ4Å}`{à^!Á[-Á ]^[]]^AÉÁ

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Ú¦^çæajāj\*Á,ājå•Áæk^Á\*^}^¦æeļ^Á+[{Ác@Á}[¦c@ÈÁÚ¦^çæajāj\*Á+d[}\*Á+`{{^¦Á,ājå•Á&[{ Ác@Á }['c@,^•dÁ@\_,^ç^¦ÊÁ,ājå•Á&æ)Á&[{^Á+[{ Ác@Á[`c@Áæ)åÅ?æerőA}å^!Á&^!œajÁ@;ld‡ãç^åÁ&[}åãã]}•ÈÁ QÁ\*æb¦^Áæčč{}Ê4\*d[]\*É4å¦^Á;~e@,u'^Á,ājå•Á{æÂ{[\*A\*?c^}ædÅåæerá]áA\*A\* @Á\*æb¦^Áæčč{}Ê4\*d[]\*É4å¦^Á;~e@,u'^Á,ājå•Á{æÂ{[\*A\*?c^}}ædÅåæerá]áA\*A\* æãiÁj[||čã]}Á&u'^æ\*åÁ§jÁc@ÁUæ&uæ{a\*{}}d[Áxæ|^^ÊÉUæ)ææÆÜ[•æÆÚ]æãjÊ4[¦Á\*?c^}ÁUæ)ÁØ1æ3&ã&[ÁÓæÂOE\*AæÁ d[Á;[ç^Á§id[Ác@ÁV&ãæ@Áxæ|^^ÈÁ

A V@ÁTÔŒÛTÖÊÁ, @a&@Áðj&|`å^•ÁœÁÔãĉÁ[-ÁW\'ãæ@Áæ)åÁ•`!![`}åðj\*Áæd~æ ÉÁã Áå^•ðit}æc^åÁæ Á}[}Ë æææðj{^}dAfika@AÛcæc^Áûcæ)åæååÁ[¦Áæatà['}^Á;æbc3&`|æc^Á;ææc^¦Á\\*•A&@æ)Á∓€Á;&&[]\*Á9jÁã^Á&jÚT<sup>F€</sup>DĚÁ Úæbc3&`|æc^Á(:ææc^¦ÁQÚTDÁ@æeÁ\*at}ã&3&æ)d^å[&`{^}c\*åA@æbc@Ár~~A&oEV\@ÁÔæ¢af[!}ãæÁÔ|^æ)ÁCBáAOB&A !^``ã^•Á©@æÁæ)^Áåãd3&AA@æAå[^+Áj[cÁ{ ^^AA@AQUT<sup>F€4</sup>•æ3}åæååÁ{ æb^Á&];c3}`3j\*Áj![\*!^\*+\*Á[Áææcæ3jÁ c@Á\*cæ)åæbåÁæeÁœAræb]æ\*Aj]a&c3&a&æà|^ÁåæcA2EV\@Á]!ajæfA{[``!&^\*A['}aj\*3j\*Áj![\*!^\*\*A4[Áææcæ3jÅ c@Á\*cæ}åæbáÁæeÁœAræb]æ\*Aj]:a&c3&æà|^AåæcA2EV@Á]!ajæA^{[``!&^\*A['}aj\*3j\*Å]![\*!^\*\*A4[Áæcæ3jÅ c@Á\*cæ}åæbáÁæeÁœÁA@Aræb]æ\*Aj]:a&c3&æà|^AåæcA2EV@Á]!ajæA^{[``!&^\*A['}aj\*aj}=AAA c@Á\*cæ}ååáA2=AA[']{{A&[}\*dA['}aČ c@Á\*cæ}å] c@Á\*cæ}ååæbáAæeÁœÁA2[{{A&[}\*dA['}aCA2Eæà]AåaeA2A2 cA{```amat\_Aå`AA2}Å{[{A&[}\*d`&ca1}}A cA{```amat\_Aå`AA2+CA2 cA```]ææaj}AAA2+ÂaA2AA2A2 Á Ü^\*`]ææaj}AA5A4A^ACAACAA3+ÂA3AA2+A4A3A3A3A2A2 A

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V@ ÁTÔŒÛTÖÁ, ¦[çãå^•ÁœÁţ||[, ∄ \*Á ã }ãã&æ) & ^ÁœA @ |å•Áţ¦Á&[}•d`&œţ} { ã•ãţ} Á & ã\*áţ} •KÁ FĚÁ Í I Á, [`} å•Á ^¦Ásæ Á, -ÁÜUŐÁ ∰Ç^æ&œţ^Á; !\*æ) ã& A æ DÁ GĚÁ Í I Á, [`} å•Á ^¦Ásæ Á, -ÁEU¢Á ∰Ç ¢ãa^•Á, Á ãt[\*^} Ásæ Á, ãt[\*^} Ásāţ ¢ãå^DÁ HĚÁ Ì GÁ, [`} å•Á ^¦Ásæ Á, -ÁUT <sup>r€</sup>ÁÇ ædœX |æ\*Á; æc\*¦Á ^••Áœè Á ãt[}\*^} Ás áţ ¢ãå^DÁ I ĚÁ Í I Á, [`} å•Á, ^¦Ásæ Á, -ÁUT <sup>r€</sup>ÁÇ ædœX |æ\*Á; æc\*¦Á ^••Áœè Ásãt[} \*Å I ĚÁ Í I Á, [`} å•Á, ^¦Ásæ Á, -ÁUT <sup>c#</sup>∰Çæðàà[¦}^Á, ædœX |æ\*Á; æc\*¦Á; æc\*¦Á; æc\*¦Á í æc\*¦Á; æc\*¦Á; æc\*¦Á; ædæÁ; æc\*¦Á; æc\*¦É; Æ

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8 ]gW gg]cb. ÁfU!XŁ @ ygg h ub g][b]Z]WUbh ]a dUWik ]h `a ]h][Uh]cb ]bW th fdcf Uh YX "Q] ¦[ç^{ ^} oʻ[ -Á |[æå, æê•ÊĂ]•œaļæaā] } Á[ -Á`cājā2ð•ĒÁa) å Á&[ }•d`&aā] } Á[ -Ác@ Á, æc\!Áœ) \•ĒÁæ Á, ^||Áæ Áčč'.^Á] [c^} œaļÁ &[ }•d`&aā] } Á[ -Á\*ā]\*|^Eæţ ā] Á@ { ^•Á&[ `|åÁ/•`|o⁄A] Áā] ]æ&o Ád Áæā Á` æāč ĔÚQ ul dĒc\!{ Á&[ }•d`&aā] } Á |^|æc^å Á\$[ ] æ&o Áç{ ã•ā] } Á@ å å`•OA[ [`|åÁ^•`|oÁ'[ { Á!æåā]\*Ēá^\* ^œaā] \* ÊÁ |^|æc^å Á\$[ ] æ&o Áç{ ã•ā] } Áæ] å Å@ \* ÓA[ [`|åÁ^•`|oÁ'[ { Á!æåā] \* Ēá^\* ^ œaā] } Á^{ { [cæbā Ač] } & A@] \* ÊJ |-|æc^å Á\$[ ] æ&o Áç{ ã•ā] } Áæ] å Åå`•OA[ [`|åÁ^•`|oÁ'[ { Á!æåā] \* Ēá^\* ^ œaā] \* ÁA [] ^!ææā] } Á[ -Á&[ }•d` & æā] } Á~č`ā] { ^}dÊaa) å Áç^ @&u|^Ádā] • Áæ•[ &ãæe\* å Á @@4 \* Áæ] } ed` & æā] } Á [ !\^!•ĒÁv@ á } & Ac^ @&a^a Aæ] ] @ 1 Áæ Ác@ Á/• ãa^} & A´A[ &æe\* å ÁæAÎ ] €ÁU^å [ [ å ÁOç^ } \* ÉÆæå bæ&A } A´[ /\^!•ĒÁv@ Á A & A´A & A`A & A] d ! Áæ Ác@ Á/• ãa^} & A´A[ &æe\* å ÁæAÎ ] €ÁU^å [ [ å ÁOç^} \* ^ÉÆæå bæA] A [ !\^!•ÈÁv@ Á ^¢ā cā \* Á@Q \* • A áã~-Á] } Ác@ Á æ& |DĚA

Š[}\* Ëv¦{ ÁvaālÁ × aptāc Áti] azsor Áze • [&ãæzev å Á ão QÁ ā]\* |^ Ëaze(ā) Á^• aða^} cãæp Áðav, c^|[] { ^} c/s fác] at az a a á az) å Á\* ^} ^ | az |^ Áze • [&ãæzev å Á, ão QÁ c,^ @384/ Ád ā] • ÉÁ, [[å Áà \* |} ā] \* Á• c[ç, • ÉÁ|az) å • &az] ^ Áaz) å Á{ azāj c} az a azscā cāzā • ÉA cos EFP[, ^ c,^ lÉA ¢ar cā] \* Ási āla ā] \* Á&[ å ^• Á ^ \* ā ā] \* Áv} ^ !\* ^ Á ~ at az a a a A / [ , Á { at az a c} az a az a cāc cāzā • ÉA cos EFP[, ^ c,^ lÉA ¢ar cā] \* Ási āla ā] \* Á&[ å ^• Á ^ \* ā ā] \* Áv} ^ !\* ^ Á ~ at az a a a A / [ , Á { at cā] \* Á \* č] { ~} a az a cāc cāzā • ÉA cos EFP[, ^ c,^ lÉA ¢ar cā] \* Ási āla ā] \* Á&[ å ^• Á ^ \* ã ā] \* Áv} ^ !\* ^ Á ~ at az a a A / \* at a a a a A / \* A / \* A ~ at a a a A / \* A / \* at a a a a A / \* A / \* A ~ at a a a A / \* A /

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- àÈÚ[¦cæà|^Áå&\*•][]|Á]\^`a\*Á^\* ã;C\*\^åÅ; ã@Áv@æA;A\* & Â\*A\*A\* ~ [][À]\*Áv@A;A\* [][](Å]\*á\*Á\*A\* |^``ã^åÅ4;Áà^Á\*ã;C\*\^åÅ;ã@Áv@A\*;cæe\*ÁÚ[¦cæà|^ÁÒ``ā]{ ^}oÁÜ^\*ã:dæaā;}ÁÚ![\*¦æ{;ÁÇÚÒÜÚD |¦Á;àcæā;Á,Á'{ã#A';{á#A';{á#A';}}

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- åÈĂP^æç^Åå`ĉÅ\`&\Åa)ā,\*ājåÅ;ä) أَبَّهُ (^`jā) أَبَّهُ (^`jā) أَبَّهُ (^`jā) أَبْهُ (^já) أَبْهُ (^já) أَبْهُ (^já) أَبْهُ (^já) أَبْهُ (^já) أَبْهُ (já) أَبَّهُ (já) أَبْهُ أَبُهُ (já) أَبُهُ (já) أَبُهُ (já) أَبُهُ أَبُ
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- -{ ||[ , ā] \* Áč \* āmā,^ Ašč o4( āmāt acenā) } Á; ^ azeč ¦ ^ Ási Áses 8 [ ¦ å æ] 8 ^ Á; āmó 400 ã d as ó40 ^ \* č | acenā) } ÁFÉAÜč | ^ ÁFËI HEIA(.
  - َعْفَكُمْ OĘĮÁçārāā)^Áå/١Åå Ā́•[āļÁ'[æåÁ•[āļÁ'[æåÁ•[\*، حَجَّتُ الْحَجَّتُ الْحَجَّةُ مَنْ الْمَعْمَةُ مُنْ عَ ^{{تَعْفَيُمُ الْمُكْمَةُ مَنْ عَجَبَهُمُ الْمُعَتَى عَبْدَهُمُ الْمُعَتَى عَبْدَهُمُ الْمُعَتَى عَبْدَهُمُ الْ

    - à ÈÁ CĒ] @eqdÊā,āḖA, æc^¦ḖA, 'Ă ă asā |^Á&@eq|Áa, ^Á@eq|Áa, ^Á@eq|Áa, ^Áeð;] |ā\*à ĄĹ À, æc^¦ãæq+Ád [&\]ā/• Êéeo; à Ą c@e¦Á • `¦-æ&/•Á@exe%aca; Á\*ã, ^Áã & Áscātà ]; ^ A& \* o e ÈÁ
    - ^ ÉÁ O∏LÁ æbc@? [çã] \* Áæ&cãçããã Á @æhlÁs^æ ^ Á; @ } Á` cæāj ^ å Á; āj å Á ¢ &^^ å ÁFÍ Á; ] @ÉÁ
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Mammals ÉZŐãç^Á•]^&ãætë cæč•Á; æ; { æt/•]^&ã•A@æç^Á; [ å^¦æɛ^Á; ¦Á@ă @4; [ c^}cãætÁ; Á; &&č ¦Á; ãc@3; Ác@ Á •č å^Áæt^ætÁÙ[}[ { æt/c^^Áç[ |^ÁÇArborimus pomoDÉÞ[ ¦c@ÁCE; ^¦ã&æ; Á; [ å ^ÁÇErethizon dorsatumDÉA \_^•c^}} Á/^åAàæcÁÇLasiurus blossevilliiDÉAQ æc^ÁàæcÁÇLasiurus cinereusDÉAæ; åÁã:@:¦ÁZ ^•cAQ; [ æcAQÚÚÚÁ

ÇPekania pennant/DEAY @4^A;[}^Á, ^¦^Á;à•^¦ç^åAå`¦āj\*Ác@·Áað\åA\*`¦ç^^ÊAqi ]|^{{ ^} caeaqi}}Á; ÁT ãoã aeaqi}Á T^ae`¦^ÁÓOUÉIÉA`\^``ãaj\*Á]¦^Ë&[}•d`&cqi}Å•`¦ç^^•ÊA, [`|åÁ'^å`&^Á][c^}cãad,Áqi]a&sorÁqiÁ\\*+Ác@ae)Á •ãt}ãa3sae)dÉÁ

fW!WL`@Ygg`h`Ub`g][b]Z]WUbhi]adUWHAÞ[A+^}•ããā;^Aàā[|[\*ã&æA&[{{`}}ãã?•ÊA;&]`åã]\*Åā]æåæ}Á@æàãææÁ æŀÁ] ¦[] [ • ^ åÁ{ [ ¦Á!^{ [ çæ‡ĚAÙ^^ÁÖã & • • ậ] } ÁÇæĎÁæà[ ç^Á{ ¦Á{ [ ¦^Á] 4 [ ¦{ æa] } ÈAÞ[ Á, ^dæ) å• ÊA, ^ \^Á [à•^¦ç^åÁ, ão@a,Á[¦Áã] { ^åãæe\*\^Áæåbæe&^} oÁd;Ác@ Á•čå^Áæ4^æÈÉW @>Á•čå^Áæ4^æÉ&| ^•A\[oÁ&[}cæa]Áæ}^Á •]^&&##E=cæeč•A&#@A\]^&&A\*•A\\A#@A&A\*A;A; &ex^\&[`\•^•A\\A ær^\à[å&A\*•EA/@AUčå^AOE^æA&[}cæaj•A&[A ÇEDKÔ |æ••ÁQQÁ, æe^\8[`\•^•Áe) åÁ{[`\ÁQ DKÔ |æ••ÁQQQÁ, æe^\8[`\•^•Ás@eeA, ^\^A(; à•^\ç^å/æ) åÁ(; æ]]^åÁ(; } Ёãe^ÈÁ V@^Á&{[•^•ď, æ^¦&[`¦•^ÁārÁæÔ]æ•ÁQQ, æ\*¦&[`¦•^Á{[&æ\*\åA;}AOEÚÞÁ€€FËEI€EI €EI HÁQ;¢ãcāj\*ÁÚæ&^|ÁFÁæ}åÁ ] | [ ] [ •^åÁÚæi&^| ĎĄ "ÁœÁččå Åæi^æðÁ/@ãÁÔ|æ•ÁÔQ æ•ÝÔQ æev¦&[覕^Áã;Á[æ]]^åĄ;}ÁœÁŃÙØY ÙÆjæa‡[}æ‡Á Y^d;a)åÁQ;ç^}d[¦^Áæe Áæákãç^¦ã]^Á@eaàãæexÁ&|æe •ãã?åÁæe ÁÜIÙÓÔÉÄÜIÙÓÔÁãa Áæákãç^¦ã]^Áãjc^¦{ãcc^}c^{^} € ão@ÁæÁrd^æ{;`à^åÁæ}åÁãrÁr^æ•[}æ‡|^Á+[[[å^åÉŽÜãç^¦ð]^Ár^•c^{:•Áæb^Á&[}•ãå^¦^åÅ,`æɛ^\&[`\•^•Á{[\Ác@ Á j`\][•^•Á;Ác@áÁæ••^••{ ^}dĚV@ÄÚ¦[][•^åÁÚ¦[b\&d4;ā|A;[d4;]æ&dó@áA;æ^\&[`\+^ÊÆæAãA;[`|åAà^A jā &|ĭå^åÁājÁj¦[][●^åÁÚæ÷&^|Á ÉÄ, @3&@Á, ã|Áà^Áj¦^●^¦ç^åÁæ•Á[]^}Á+]æ&^ÉAZ[¦Ác@^Á/^æ•[}●Áåã &ĭ●●^åÁ  $aaa[c^{A}E^{A}c@AU'_{L}[b^{A}cA_{A}][*]a^{A}A_{A}[cA^{A} * | cA_{A}^{A} * a^{A}] \tilde{a}aacA_{A} \tilde{a}] aacA_{A} \tilde{a}] aacA_{A} \tilde{a} \tilde{a} [cA^{A} * A_{A}] = \tilde{a}aacA_{A} \tilde{a} \tilde{a} [cA^{A} * A_{A}] \tilde{a}aacA_{A} \tilde{a} [cA^{A} * A_{A}] \tilde{a}aacA_{A} \tilde{a} \tilde{a} [cA^{A} * A_{A}] \tilde{a}aacA_{A} \tilde{a}aacA_{A} \tilde{a} [cA^{A} * A_{A}] \tilde{a}aacA_{A} \tilde{a}aaacA_{A$ ^dæ)å•ÈÁQÁčč¦^Á,[¦\Á§iÁ;¦Áæåbæ&^}oÁ(iÁæ)^Á,~Áo@A;o@¦Á,æe^¦&[覕^•Áœ^A;![][•^åÊáo@AÖ^ç^|[]^¦Á ã:Á∧˘˘ã∧åÁçÁçàcæã;Á,^&^••æ;Á^\*˘|æe;¦^Á,^!{ão•Á¦[{Áo@·ÁÖæ‡ã{!}}ãæ4Ô^]æ;q{^}ơÅ, Á2ãe:@&a;4´ãå|ã^Á æ)åÅs@AÜ^\*ā[}æAY æe^¦AÜ`æ4ãĉAÖ[}d[|AŐ[æ+åÊ&eeA,^&^••æ^ÊAQ]æ&orA,[`|åÁs^ÁYgg'h\Ub'g][b]Z[WUbHĚÁ Á

fKL'@Ygg'h\Ub'g][b]ZJVUbhi]adUWW'V@¦^Áæh^Á}[Á∿eæaà]ā:@åÁ}æaā;^Á'^eāa^}oÁ[¦Á{ ät ¦æq[¦^Á, āţå|ã^Á &[¦¦ãů[¦•ÊÁ[¦Á}æaā;^Á, āţå|ã^Á}`¦•^¦^Á\*ãr^•Á, ãr@a)Ác@ÁÚ¦[b/&oÁæh^æaÁÓ^&æĕ•^Ác@ÁÚ¦[b/&oÁa]&|ča^A ]¦^•^¦çæaā]}Á[-Áæa]]¦[¢ā[æe^\^Âi €Áæ&!^•Êár@AÚ|[b/&oÁ;ā]A[¦^•^\ç^Á¢ā:cā]\*Á@æàãæeA[¦Á,āţå|ã^Á]^&ã\*•ÈÁ V@Á][c^}c⿇Á[¦Á[];Ëå^}eãcÂ/^eãa^}c⿇Áå^ç^|[]{ ^}oÁ{æâA]&|ča\*A[{ ^A¢[ ^A¢a};a][!Áç^\*^cæaā]}ÂA^{{ [ca‡ÊÅ à`oÁæÁ[ `|åÁ][oÁ\*`à•cæa}cãæ‡|^Á&@ea)\*^Á{[¦ætā]\*Á[!Á;ā]c^!ā]\*Á@æàãæeA[¦Á;ā]¦æq[¦^Áaāå•ÈACāåãaā]}AA^{{ [ca‡ÊÅ à`dáaÁ[ `|åÁ][oÁ\*`à•cæa}cãæ‡|^Á&@ea)\*^Á{[¦ætā]\*Á[!Á;ā]c^!ā]\*Á@æàãæeA[¦Á;ā]¦æq[¦^Áaāå•ÈACāåãaā]}Aa]^ÊÁ[[Á •ã]}ãã&æa)dÁa[]æ&orÁq[Á{ ät ¦æq[¦^Á&[]!ãå[]\*Á{[¦Áæ4]]@ãaãæa)ÊÁæč`ææã&ÊÁæçãæa)ÊA{æ{ { æ‡ãæa}ÊA[¦Á]^]cā‡ãa}Á •]^&&\*•Á\*¢]^&coåáæeÁæá/^•`[dÁ;-Á@AÚ![][•^âÁÚ![b/&cÉQ]]æ&orÁ[[`åÁà^ÁYgg'h\Ub'g][b]ZJVUbHĚÁ

fM!2LÁ@Ygg`h\Ub`g][b]2]WUbh]adUWWÉA/@¦^Áe&^Á,[Áe&a[] c^åÆ?æàãæækÔ[} •^¦çæeā[} ÁÚ|æ) •Á{¦Áo@ÁÔãĉ Á;Á W\ãæ@ÊÅ,[¦Ás@Áæ&\*^¦ÁV\ãæ@Áxæ|^^Ás@æe&e]]|^Á{[Ás@Áãc^ÉV/@ÁÚ¦[b%scó,¦[][•^•Áe]]¦[çã[æec\|^·l€Ás&¦^•Á [~Á;]^}Á]æ&^Á{[¦Á;āfå|ã^Á@æàãæeĚAQ]]æ&orÁ;[č|åÅa^ÁYgg`h\Ub`g][b]2]WUbHÉÁ Á

## A]h][Uh]cb`AYUgifYg.`

## 6 =C !% ÁGYbg]h]j Y Hf YYg 🖄

ĢÁd:^^•Ásd^Áj¦[][•^åÁ[¦Á^{ [çæ‡ÉÅj¦^&[}•d`&cāĮ}Á`¦ç^^•Á @eæ‡|Ásh^Á&[}å`&c^åÁsh^Ásdá`æ‡ãæ\*åÁsiā[[\*ãráÁ q[Áãsh^}cā^ÁU¦^\*[]Á @āc^Á[æhÁ-[¦^•óAæ)åÁ,[[å|æ)åÊÉæerÁ, ^||ÁæerÁÔæ‡ã[¦}ãæa⁄bæôÁ-[¦^•óAæ)åÁ,[[å|æ)åÁ @eæbiāræetLÁ^{ [çæ‡Á[-Á\*^} •ãaã;^Á@eæbiāræen⁄A @e#|Ásh^Á&[}å`&c^åÁ5jÁæ&&[¦åæ)&^Á,ão@ÓÔæ‡ã[¦}ãæ⁄Ö^]ædq[^}ædq[^}o∱,Á Øãe @éæb)åÁr ātå|ã^ÁQCÖØYDÁ^\*č|æeā[}•ÈÁ

Á

**6 =C !' . ÁB Ygh]b[ `6 ]f Xg''Á**Ú¦^Ë&[} • d`&cā[} Á` ¦ç^^ • Á @ceh|Áa^Á&[} å`&c^åÁ] ¦ā[ ¦Át[ Áce} ^ Áç^\* ^ cæcā[} Á^{ [ çæhÁ [ ¦Á' ¦[ ` } å Ásã č ¦àā] \* Áce&cãçãa? • Á[ &&` ¦¦ā] \* Áa^ç, ^^} ÁT æb&@óF Áce) å ÁOE \* ` • cÁ+F Á[ Áce) ^ Á ^æbÈO⊞|Áce&cãç^ Ábàā å Á

}^•••A(@eeeelÁ)[cAba^Á^{ [ç^åÉA^|[&æeec^åÉA, lÁ, c@ol, 著^Ába≆cčlà^åÁ{[kÁee}^Á,`l][•^Á}}cāpÁeeeelÁ/A‡^å\*|3)\*•Á@eeeç^Á |^-cAs@·Á,^•dĚÁ Á

. 6 = C!(. `GclYWJU!GhLhig`=bgYWbg"ÁŐDÁ`æjãā?åååā[[\*ãrcÁ@ed|Á`¦ç^^áo@áek->æá,lā[lá[ká[áe}^Á¦[`}åà¦^æ}ā;\*Á æ8cāçãā?•Á[kå^cv¦{ā]^Áx@Á;l^•^}&vA[~Á]^&ãædËcæe`•Á§•^&cA]^&&?•Á®\*Aæ}åáāā]}æ4Áeç[ãaæ}&^Á {^æ\*`¦^•ÁsÁ,^^å^åÈMQÁeÁ]^&ãædËcæe`•Á§•^&cA;^•orÁec^Á;à•^¦ç^åÊ&s&cãç^Á,^•orÁ®ed|Á[c/áa^Á^{ [ç^åÊA !^[&æe\*åÊā;lá[c@l;ā^&áācčlà^åÁ}cā4x@Á,^•o%a^&[{ ^•Á§æ&sãç^ÈA

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6 = C ! ). GdYWJU ! GhLhig A Uaa Ug"ÁÚ¦^Ë&[} • d`&cāļ}Á• čļç^^ • Á•@ed|Áà^Á&[}å`&cvåÁ] ¦āļ¦Ád[Áæ)^Á ç^\* ^ cæeāl}Á^{ [çæd-Á]¦Á'¦[`}å&säčiàāj \* Áse&cāçãað • EAQ-Áçãa^}&^A(-ÁsæeA[[• or Ási A[à•^ ¦ç^åAQ2> EAsæAčiæ)[ÉA æ{ { [}ãæ=Á[å[¦ÉA¦^æ•^A(cæa]^å/&sæçãað • DÁse[`}åAs<sup>k</sup>^ • A[¦Ádč&č¦^• EA]'^E&[}• d`&cāl} ÅsæeAči¢^ • A æ{ { [} ãæ=Á[å[¦ÉA'¦^æ•^A(cæa]^å/&sæçãað • DÁse[`}åAs<sup>k</sup>^ • A[¦Ádč&č¦^• EA]'^E&[}• d`&cāl} ÅsæeAči¢^ • A æAsæaçãað • Asæaçãað • Asaāti ([\* ã: cÁl¦Åsæcaçãað • Ás@æeÁ[æôAsæaA[[• or á]\* Á@æàãæeAsab) åAsA^ A ãcv• È Á

## ) "7 i`hifU`FYgcifWYg`

7 I@HIF 5@F9GCIF 79GĐĂÝ[č åÁs@A∫,¦[b/&dAÁ	Ú[c^}cã# ^Á Ùã}ã&a}cÁ Q:]æ&cÅ	Š^∙∙ÁV@æ)Á Ùā*}ãa3æ)oÁ ĵã@Á Tãa∄æaa[}Á	Š∿••Á V@ea)Á Ùã*}ã&aa)oÁ Q:]æ&oÁ	Þ[ÁQ]æ&oÁ
æDÁÔæĕ•^ÁacÁ`à•œa) oaad-Áasâç^¦•^Á&@ea)*^Á§JÁo@Áā*}ãa3&æ)&^Áţ-ÁacÁ @ārd[¦a3æd-Án•[`¦&^Áas-Ásî-^à/áşJÁnFÍ€ÎIĚÍÑÁ	ШÁ	⊠Á	∏Á	∏Á
àDÁÔæĕ•^ÁæÁ*`à•œa)œãa4Áæåç^¦•^Á&@ea)*^Á5jÁc@Á*ã*}ãã&ea)&^Á;Á æ)Áæ&@æ^[∥[*ã&a4Á^•[`¦&^Á;'•`æ)cók[ÁnFí€ÎIĔŇÁ	ШÁ	⊠Á	∏Á	∏Á
&DÁÖãrcĭ¦àÁsa}^Á@{{ æ})Á^{{ æða]•Éðaj& ĭåā]*Ás@[•^Áaj;cv¦¦^åÁ[ĭorãa^Á [-Ása^åã&æævåÁsa^{{ ^cv¦āv•ÑÁ	∏Á	⊠Á	∏Á	∏Á

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**G][b]Z]VUDVW 7 f]hYf]U**.ÁV@Á]¦[][•^åÁÚ¦[b/&óÁ,[č|åÁ+ð]ãa38æ)d^Áã[]æ8cÁ&č|覿4Á\^•[č¦&^+ÁãÁc@Á •ð]ãa38æ)&^Á(-Áæ4@ard[¦&8æ4Á;¦Áæ&@æ4[|[\*ã8æ4Á^•[č¦&^Á,^\^Áčà•cæ)cãe4|^Á&@æ)\*^åÉá(¦ÁaÁ@{æ)Á^{ æ3j•Á \_^\^Ásåārč¦à^åÉÁÁ

W}å^\ÁÔÔÛ00£É&č|覿¢Á'^•[č¦&^•Á{č•óÀ^Á^çæ,řæc^åÁ{ā^a^c}{3}^Á^@ãA^jå\*áā āa ājāčÁ{¦Åjāraj\*ÁjÁc@Á Ôæjā[¦}ãæćÜ^\*ãrc\Á{ÁPãrd{¦&APãrd{¦&APãrd{}k&^[č|&^•ÁQÔÜPÜDĚQÁœó&č|覿¢Á^•[č|æ¢Á^•c\{ 3]^åAj^jā\*ãa}^Åāj^jä\*ãa]^Á{¦Å jāraj\*Á{}}&@AÔÜPÜÁ@Á^•[č|&^ÁãrÁ^]~æ^åÁ\{{ Á æjæ\*^{ ^}c'}ajāāā3\*•ÁæjåÁœóÅ; [[b^&cA&ejA ]|[&^^åÁjã@\_čÁč|c@¦Á&č|č'|æ¢Á^•[č|&^Á&{}+ē]

OE Á ^ cÁ{ ¦ coési, ÁÙ^&cat, } Á €GIÈE Ç&DÁ, Ás@ ÁÚ`à | &AÜ^•[č¦&^•ÁÔ[å^Á{ ¦ Áscé&č|覿‡Á^•[č¦&^Á{ Ás^Ás^^{ \* A} %6] [ ¦cæ) cuÁ } å^¦ÁÔÒÛ OEse) å Ác@ •Á^|atai |^Á{ ¦Áārcaj \* Á{ } Ás@ ÁÔæ‡ã{ ¦} ãexÁÜ^\*ã cº¦Á{ ÁPãrq[¦&&AŰ^•[č¦&^•Á ÇÔÜP ÜDÉstajÁ{ č•c4{ ^^c/secA/ ærc4{ } ^Á{ As@ Á{ ||[, ] a\* Ási āt^\ äsctáA

FDÁ QÁœ• • [&ãæe^åÁ ão@Á^ç^} o Áo@æeÁ@æeç^Á{ æå^Áæá\*ã }ãã&æ∂ óA&[}dãač cā[}Át[Áo@Aà¦[æåA]æec^¦}•Á[-Á Ôaçlã[¦}ãæAPã q[¦^Áæ)åÁ&č|覿4Á@¦ãæe\*^L4[iA

 $\mathbf{CD}\dot{\mathbf{A}} \otimes \mathbf{A} =  

HDÁÒ(à[åā) • Ás@Ásāā cā) & cāý Ás@esea&c^lā case Á أَعَنْهُ اللَّهُ الْمُعَانَ الْمُعَنَّفَةُ اللَّهُ فَعَنَّ ا المُنْهُمُ المُعَانَ المُعَنَّقَ مَعْمَدُهُ وَاللَّهُ مَعْمَدُهُ وَاللَّهُ مَعْمَدُهُ وَاللَّهُ مَعْمَدُهُ وَال المُنْهُمُ مُعْمَدُهُمَ مَعْمَدُهُمَ مَعْمَدُهُمُ وَاللَّهُ مَعْمَدُهُمُ وَاللَّهُ وَعَمَّى اللَّهُ فَعَنْ اللَّ

IDÁ PærÁā^|å^åÁį¦ÁaiÁā^|^Áa[Áā\*|åÊàaj-{¦{aœaj}}Áa[][¦œa);oÁa[Á]¦^@aid[¦^Á;¦Á@aid[¦^ÉÅ Á

. OEE&@ee^[|[\*38æ4Á\^•[`¦&^•Áæ4^Á&[{{[}|^Á^çæ4`æe^åÁ ãc@Á\^\*æ4åÁq[ÁÔ¦ãe^¦ãæÁ\ÁÇ^•^æ&@Á][c^}cãæ4DĚÁ Pãq[ł38Ë>¦æ4+d`&c`¦^•Á[å^¦Ác@ea)Á[€A`^æ+Áæ4^Á[[•Á&[{{[}|^Á^çæ4`æe^åÁ6]Á\^~¦^}&^ÁQ[ÁÔ¦ãe^¦ãæ4FÁ Qã[][¦œa)óÁç^}orDÉÔ¦ãe^¦ãæ4GÁQã[][¦œa)ó∱^¦•[}•DÁ[¦ÁÔ¦ãe^¦ãæÁHÁQæ&@ãe^&c`¦æ4Áçæ4`^DÈÁ/[Á§^Á&[}•ãa^¦^åÁ Á ^ |afaáa|^Á}å^¦Ás@●•^Áskiaz^¦ãæask@A∱![]^\ċ´Áţ`●oÁ^cæağiÁ`~a88a?}óAgicv\*¦ãc`ÁξiÁs[}ç^^ÁsorÁξi][¦cæa}oÁ`æ‡áãa?●ÈÁ Q;cv\*¦ãc`Áã∗Áb`å\*^åÁ3jÁ¦^|æaξi]}Áq[Á●^ç^}Áæe]^&orÁ3j&|ĭå3j\*kÁ|[&æaæqi]}ÊÅå^●af]}ÊÅ●^ccaj\*ÉÁ{æe\*¦ãæ‡ÞÊÁ ,[¦\{æ})●@3jÊÁ^^|3j\*ÊÁso}åÁse●[&ãaæqaŭ]}ÉÁ Á

Ú`à|a&AÜ^•[`¦&^•AÔ[å^AÙ^&qa]}ÁGF€ÌHÈEÁqa•[Áå^-3]^•Á‰}ã`^Áæa&@ee^[|[\*a&eqA'+^•[`¦&^•+Áæe Á‰a)^Á æ&@ee^[|[\*a&eqÁæccãæ&dÉ4(àb%dÉ4(¦Áãc^Áæà[`Ó, @a&@Áad%æa)Aà^Á&|^æ|^Áå^{ [}•dæe^åA&@eedÉ4,ão@edÉ4,ão@`ó4(^\^|^Á æåå3]\*Á4[Áx@A&`¦¦^}ó4à[å^Á;A`}[,|^å\*^Ê5x@:¦^ÁãaÁæá@ã@Áj;¦[àæàājãcAx@eexÁad4(^^o=Áæ)^Á{-Áx@A{[||[,3]\*Á &¦ãc^¦ãedeÁ

- À Ô[] لَعْظَهُ اللَّهُ فَحْمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَيْهُ الْمُعْمَ الْمُ 20 A أُنْ الْحَام اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ الْحَام اللَّعَ الْ 20 A أُنْ الْحَام اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ عَلَيْهُ اللَّهُ اللَّهُ عَلَيْهُ اللَّهُ ال
- •Á PæÁæÁ]^&ãæÁæ)åÅ æköð kö ]  $A_{i}$  æköð að kom kö ]  $A_{i}$  æköð að kö að k
- •Á Q.Áåāl^&q^Áæ••[&ãæe\*åÅ,ãc@áæÁ\*&ã\*}cãã&æa‡|^Á/~&[\*}ã^åÁã[][¦æa)oÁ;¦^@ã\*q[¦ã&Á;¦Á@ã\*q[¦ã&Á\*ç^}oA;¦Á ]^¦•[}EÄÁ Á

V@sÁå^-ajãaj}ÁšiÁ<sup>×</sup> čæļ^Áœj]|83æaa¦^ÁtjÁ^8[\*}ãj\*Á%æá'}ã `^Ájæ†[}d;[[\*83æa4Á^•[`¦&^Á;lÁ\*ã&`ÈÁÔÒÙOEÁ Ù^&caj}ÁFÍ€ÎIĚÁÇæog-DQÖDEÄ, @38@Ázjå33ææ\*•Á%&}^\aļîÉæá\^•[č¦&&A;@a+Aà^Á&]}\*ãa^Á&átj} •ãt}ãa38æ)cÁãÁõeAœe Á`ā\là^åÊ4;lÁ;æ Áà^Átã^|^ÁtjÁ\*ā\låÉ45j-{¦{æatj}}Átj][¦œa)cÁtjÁj¦^@atd;l^ÁtjÁ@atd;l^ÉA ]¦[çãa^•Áæååãatj}æ4Á\*šãaæ)&^ÈÁ Á

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I \_]U, 'K YghYfb'<]``g'CdYb'@LbX'5 Wei ]g]h]cb'UbX'@a ]hYX'8 Yj Y`cda Ybh5[ fYYa Ybh' Final Draft Initial Study and Mitigated Negative DeclarationÁ Ôã: Á -ÁW ãe@Á Á

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Á åãrc`¦àã).\*Aæ&cãçããð:•ÉAed|A,[¦\Ar@ed|Arq[]A6]Ac@A6[{ ^åãæe^Açã&ã;ãc`[~Ac@Aåã:&[ç^\\^åA!^{ æ§]•Ae3):åAc@A Ö[`}c`ÁÖ[¦[}^¦Áaa)åÁaaA``adpää?åÁade&@ee^[|[\*ãrcÁr@ede|Áah^Á;[cãa3\*å\*ã;{^åãaee^\^Á+[Ác@eeeÁaa)Á^çad\*aeaā;}Á&aa)Á `à^À,^¦-{`¦{ ^åÉkQ4xx;@`Á^{ ænj}•Áse¦^Ási^^{ ^åÅq[Ási^Áp zeenaç^\*OE; ^¦a8ze)Áse)åÅ;\^@én ([¦a82Êkx;@`Áp zeenaç^ÁOE; ^¦a8ze)Á P^¦ãæ±\*^ÁÔ[{{ ã•ã]}Á; `•oÁà^Á&[} œ&c^àÁà^Áx@`Ô[¦[}^\Á[Áx@æÁæÁv&[•oÁŠã^|^ÁÖ^•&^}åæ);cÆ&æ}Áà^Á å^•ā\*}æevåÅæyåÅ\*¦c@¦Á^&[{{^}åæeaaj}•''^\*æ\åãj\*Ákl^æe{^}c4j~Ác@Á^{æaaj•Á,ã|As^Aj¦[çãa^åĖ Á

71 @%ÁI bUbhjWjdUhYX 8 jgWcjYfmbĂQÁ] ¦^çąĩ \* • |^Á \* }ãa^} cãa∿åÁ&ĭ |cǐ ¦æþÉà @á d[ ¦ã&Éà ] æ¦^} d[ |[ \*ã&Á[ ¦Á aeb&@[|[\*ā&Á^•[ĭ¦&^•Áeb^Á}}&[ĭ}c^¦^å/åšĭ¦āj\*Á¦¦[b/&oA\$[]|^{^}}caeaā]}Ê&ebc^¦āj\*Ás@A{; aec^¦ãad+Áeb}å/s@āA •dæaāt¦æ];@38XÁ&[}c^¢oÁ•@æ|Áà^Áæç[ãå^åÁæ);åÁ,[¦\Á•@æ|Á@e¢oÁã[{ ^åãæe^\^ÈÁOEÁ``æ‡ãã?åÁ]¦[~^••ã[}æ†Á æb&@æe^[|[\*ãroÁ@æe|Áa^Á&[}œæ8o\*åÁ§[Áçæejĭæe\*Ás@Á^•[ĭ¦&^Áæ}åÁ;^o@]å•Á^^&^••æ^Á§[Á¦[o\*&oÆaEÅU|[b\*&oÁ ]^¦•[}}^|A`@aq|A`,[OK&[||^&dE4`,[Ç^E4`,|A\$aãcč¦àA&`|č¦aqA^•[`¦&^•E4Ŭ¦^@ãd[¦3&A^•[`¦&^•A\$j&]`å^E4`oAsd^A }[cÁ|ā[āz^åÁq[ÉÁ&@¦cÁ[¦Á[à•ãaãæ)Á+|æa^•ÉA]¦[b^&cā/Á][ā]o•ÉA{ [¦cæ+ÉA]^•q^•ÉAæ)åÁaæ\Á+ãæà|^Á+[ãA &[}cæajā]\*Á•@||Áæ)aÁa[}^Áað cæ^Áa^à|ãÉA@ ædÉæ~ & & aÁ[& ÉA[& A@ { æ)Aà`¦ãæ)+É4Pãd[¦&&A^•[`'&+ A ąj̃&ĺĭå^Ár([}^A(ϦÁœà)[å^Á[;ĭ}åæqā[}•Á[¦Á;æþ|•LÁrdĭ&či¦^•Áæ)åÁ!^{{æq}•Á,Íãc@Árĭ`æb^Á;æāp•LÁæ)åÅ^~~•^Á å^][•ãn•Á;¦Áa[cd^Áa\*{]•ÉÁ;~e^}Á[&aæe^åÁā;Á;|åÁ;^||•Á;¦Á;¦ãçã\*•ÉÁ;

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Þ[Ášǎ|cǎ¦æ4Á^•[ǎ¦&^•Á ^¦^Áãa^}cãa?àÁ ãc@3,Ás@ÁÚ¦[b^&cAsbe^æ&e ÁsbA^•ǎ|cÁ ~As@A^&[¦å•Á^æ&&@24ab^}aeč¦^Á ¦^çã\, ÉÁ,¦Áæb&@æ^[|[\*ã&æþÁã\|åÁ`¦ç^^ÈQQ,Áæååããā;}ĚÉ;ãç^}Á@^Á;c^^]Ác^¦¦æã;É&@^A;[c^};cãæþÁ[¦A;`à•cæ);cãæþA ] |^@ārd[ | 3844 | Á@ārd[ | 3844 ^ cd^{ ^ } ofar Á&[ } • 384 ^ |^ å Å[ ] • 384 ^ |^ å Å[ ] EV @ |^ -{ | ^ Ês@ ÁU| [ b^ & ofae&caçãa? • Åe^ Å, [ ofae) ca&ā] ae^ å Å dfÁ&æč•^ÁæÁ•čà•æà@adho\*á\*c^¦•^Á&@ea)\*^Áã;Ác@A•ãf}ã&æà&AAfÁæÁ@ádf¦&æaAMá\*of[`l&AæAA\*A•[`l&AAæAA\*A•[` hFÍ€ÍIÉÉA

} [ cāðBæeđi } • Á[ ~~^|ði \* Ác@ Á[ ] ] [ | cǐ } ãĉ Ád[ Á',^`` ^ • cÁ-[ | { zeþÁ8[ } •` | cæeđi } Á, ^ !^ Á• ^} cÁd[ Á|[ 8.2eþÁd áð ^ • Á[ } Á Ö^&^{ à^¦ÁFÍÉİGEGEEİQUÁzca åãa‡í}ÉİzeA^^``^•oA•^^\āj\*ÁzcAjāroA; Addãa^•Ác@zecA;@(`|åÁa^A&[}cze&c^åA; ze A\*^}oA d[Ác@ÁÞOEPŐÉÉÞ[ca&∧•Á,^¦^Á;^}cÁt[Ác@Áscaiåãaãt]}ækÁtáã∧•Ásã^}cãa?áÁsî^Ác@ÁÞOEPŐÁt}}ÁRæa)ĭæ;^ÁFIÉEO€GFÉÄ U}ÁRæ) 迦ÁGÌÉAO€GFÉ&æÁ∧čč^•oÁ{¦Á{¦{ æ∲Á&{}•`|œæãį}}ÁsìÁs@^ÁÚã;[|^çã||^ÁÚ[{ [Á₽ææãį}}Á, æ•Á^&^ãç^åLÁ OEÓÍGÁ&[}•ĭ|cæaā[}Á, æ•Á&[}&|ĭå^åÁ, ãc@Ác@∘Áciãa^Á[}ÁTæîÁ+HÉAG€GFÉAÔ[¦¦^•][}å^}&^Á, ãc@ÁÚā][|^çã||^Á Ú[{ [ÁÞæaā]}Á@ee•Áà^^}Á[{ ãac^åÁ-[¦Á&[}-ãã^}cãe+jãc ÉÄV@>Á|ã=cÁ[-Áclãa^•Á&]}caes-c^åÁæb^Áā]&|ĭ å^åÁājÁ

aaj]¦[¢āį æe^|^ÁGÌËæ&\^•ÁQae^æA,ão@Á\^••Áo@ea)Á[¦Áaaj]¦[¢āį æe^|^ÁH€ÃÁ+|[]^DÉAj&\`åāj\*Áæh^æAaa[}\*Á ¦[æå, æê•Áæ)åÁ,æ\æà|^Á|[]^•Áæ)åÁ|ææÁæ^æÁ,ão@A¢][•^åÁ[ā+Á[Á9;ç^•cã\*æe^Á[¦Á\çãa^}&^Á[-Á&`|č'¦æÅ { æe^¦ãæd+ ÊÅÛ`¦ç^^ Ásel^æe Á§i &|`å^åÅj[ c^} cãæd,ÁQ?`•^Á ãe^• Ê\$s@^Åj¦[][•^åÅ, æe^¦Áse) \Á ãe^Ê&e) åÅsel^æe Á§i ÁsA^Á ā[] ¦[ç^åÁ āc@Å cājāzð • Ázej å Å] zeç^{ ^} Ó xzej[] \* Ác@ Áze&& • • Á'[zeéÉÁV@ • ^ Áze^ xe Á ^ \^Á • ` ¦ç^^^åÁ` • ā \* Á jā,c^}•āç^Á\*`¦ç^^Á&[ç^¦æ\*^Á,ão@Áslæ)•^&o•Á[Á`¦^æev\Ás@ee)ÁG€Ë; ^c^\Ásjc^¦ç憕ÉAGE Ás^•&¦ãa^åAsjÁs@×ÁOEÙÜÊÄ æ^æ Á&[}œæj ā] \* Á c^^] Á [[] ^• Ác@æÁ, ^!^Á, [ cÁœà |^ Át Áà^Á\* ¦ç^^^å ÁœA Á [ cÁ&] } • ãå^!^å Á@ā @Á, ¦[ àæà äãĉ Á æhæ ÁF¦Á ðalaðu \* Áæk@æn[|[\* ðbækÁn•[\* ¦&n•ÈAP[\_ ^ c^¦ÊAc@•^ Áæhæ Á\_ ^!^ ÁF à•^¦c^ å Á\* • ðu\* Áæk&\* ¦• [ ¦^ Á ã;•]^&cā[}Å;-Ás@;Ác^¦¦æā]Ása)åÁæa)å•&æa]^EÄÄ

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æĐÂÜ^•` ơ\$9, Á;[ơ}œæq ^Á;ấ}ã&æa)ơ^{\çā[}{ ^\œ¢¥\$\$\$;]æ&ơ\$\$`^ÁξÁ , æ•ơ~~ Êž43,^~æ&a};d±?[¦Á`}}&&^••æ;Á&[}•`{] œ‡}Á[-Á^}^\^\*`Á ¦^•[`\&^•E&s`!a]*Á;[b%&o&[}•d`&œ‡}Á;lÁ]^\ææ‡}ÑÁ	∐Á	∏Á	МÁ	ШÁ
à DÁÔ[}-]43804, ã094, l'Á;à•d`&04xx4, cæe^A;lA[&eaA];la;)A['A^}^, aà)^Á ^}^!*^Á;lA^}^!*^A~-3828}&`ÑÁ	ШÁ	∏Á	МÁ	∏Á

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G][b]ZWUbWY`7f]hYf]U.ÁV@ÁÚ¦[][•^åÁÚ¦[b\&oÁ,[`|åÁ+ā\*}ã&ææ)q^Áā[]æ&oÁ^}^!\*^ÁãÁ&[}•č\*&aā}A[}•ć\*&aā}A[}•ć\*&aā}A[]\*\* []^¦ææā]}Á[-Ác@ÁÚ¦[b\&oÁ,[`|åÁ^•`|oÁājÁ,æ•c^~|ÊÆāj^~a&&ā\*}o4[¦Á\*}}^&\*+eæ^Á&[}•`{]aāj}Á[aA\*}^!\*^Á !^•[`'\&^•Á;\ÁāÁc@ÁÚ|[b\&oÁ,[`|åÁ&[}-{a&oÁ,ãc@ÁeeA\*cæe\*A[¦Á[&æ‡Á]|æ}Á[¦Á^}^,æà|^Á^}^;&à|^A\*}^!\*^Á ^~a&a\*}&`EXXX

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8 ]gWigg]cb. fU!VE@/gg`h\Ub`g][b]Z]VUbh]a dUWh"`V@ÁÚ¦[][•^åÁÚ¦[b\&d£4a)&|`åā]\*Ás@ÁÖ^ç^|[]{^}dÁ OE`¦^^{^}dÉå[^•Á}[cA]&|`cA]&|`a^A+]^&ãa38Áå^ç^|[]{^}cAå^•ã"}•Á[¦Á]![][•æ+pÉÅ][¦Áå[^•ÁādÁ\*¦æ)cÁæ)^Á ^}cād^{{^}oA['A]&c^[]]{^}dĚd`č'\AQ``•ã]\*Á]![b\&orA[ā]AáA\*@a+c`A] d[Ác@ÁÔ[`]c`qÁæ)åÁÔãc`qÁà`ā¦åã]\*Áæ)åÁ\*æ^c´Á&[å^•ÉæeÁ,^||ÁæA/ãd^ÁGIÁ^\*`|æaā]}•ÁÇæ)åÁ[c@¦•DÁt[Á ]![{[c^Á}}^!\*^Á~a38a}&`È

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Ω[¦Ác@Áæà[ç^Á^æe[}•É&a[]æ&orÁt[Á\*^[|[\*^Á+[{ Ác@Át[••Át]•[ā)EÁ+¦[•āt]}Áæ)åÁæ)å•|ãå^•Á [`|åÁà^Á `Ygg'h\Ub`g][b]Z]VUbhik]h\`a]h][Uh]cb`]bWcfdcfUhYXĚÁ Á

fK!YL:@ygg'h\Ub`g][b]Z]VUbh]adUWh"OE;Á;} •ã\*Á&[{{`}ã:Á^,^\A^:A^\*C`{ÁQ2}|åā;\*Áæ}\DÁ;ã@ÁæÁ^,^\Á |ā}^ÉAæ@{!Á@æ}ÁæÁ^æ&@Áā\*|åÉA;ā]/Áa^Á&[}•d`&c\*åA{[!Ååã\*&@e4\*ā]\*Á;æ\*c^;æ\*!ÁQ>~|`^}ơf,}|^DÁ[ÁæÁ^,^\A {æ}á&æÁ@A};åá[~ÄU^å;[[åÁOE;^}`^ÉA'@A[ā\*AæA@AU[!b\*&oA\*ã\*ÁæA^A;[ơáã\*àÁæA\*];A;a\*A¢];A;A¢];A;A¢] {æ}áÁ&[`|åÁæå^``æ\*\|^Á\*]][!óA@A\*^,^!Á\*\*\*C\*{ÉQAéæååãā]}ÉA`āåā;\*Á&[å^ÉAT^}å[&3][ÁO[`}c´A A); O}çā[]{{^}cæAA?^æ@Éæ}åÁU`à]&AY[!\\*ofA^``ã^{{}}@ÇA

f22:@yggʻh\Ubʻg][b]2]WUbh`]adUWN`k]h\`a]h][Uh]cb`]bWcfdcfUhYX"``CE Ás^•&¦āa^áÁşiÁU^&cāţ}Á ÉRÔ`|c`¦æ4Á Ü^•[`¦&^•ÉAţÁ@ărÁQ;ããæ4AUc`å^Ê&e¢c@`\*@4x[cÁe}cã&ajæe^åÊ&@Aj[c^}cãæ4A¢zã;o;Áţ¦Á}ã`^Áyæ4^[}d[[\*ã&æ4Á ¦^•[`¦&^•Á[!Á\*ãc^Á[!Á\*}ã`^Á\*^[|[\*ã&æ4Á^æc`¦^•ÁtjÁa^Ár}&E[`}c'\^åÁ\_ão@ajÁc@AÚ![b'&cÁe4^æ4å`¦āj\*Á \*¦[`}åËåā;c`¦àāj\*Á&[}•d`&cāt}Áæ&açããa\*eĚAP[,^ç^!É&BjÁc@A^ç^}cAcœ4A^•[`¦&^•Á&a\*&[ç^¦^åA&i`¦āj\*Á &[}ed`&cāt}ÉTTãa∄æaat}ÁT^æ`¦^ÁÔVSËEÁ^``ã^•Ác@A';l[c\*&cāt}Åt\_Ác@Á^•[`¦&^•ÈAQ]æ&orÁj[`'|åAa^Á `Yggʻh\Ub`g][b]Z]WUbhk]h\`a]h][Uh]cb`]bWcfdcfUhYXÈ

## A]h][Uh]cb`AYUgifYg.`

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#### =ad`YaYbhUhjcb`cZ7I@?%"

## , "; fYYb\ ci gY'; Ug'9a ]gg]cbg'

;F99B <cig9`;5g`9a=gg=cbgĕáy[č åáå@á,¦[b &dá<="" th=""><th>Ú[c^}cãæ ^Á Ùã}ããæa)cÁ Q:]æ&amp;cÁ</th><th>Š^••Á V@a)Á Ùā}ãa38a)oÁ ã0@Á Tãoā*æaa[}Á</th><th>Š∿••ÁV@ea)Á Ùã}ã3&amp;ea)oÁ Q:]æ&amp;oÁ</th><th>Þ[ÁQ]æ&amp;oÁ</th></cig9`;5g`9a=gg=cbgĕáy[č åáå@á,¦[b>	Ú[c^}cãæ ^Á Ùã}ããæa)cÁ Q:]æ&cÁ	Š^••Á V@a)Á Ùā}ãa38a)oÁ ã0@Á Tãoā*æaa[}Á	Š∿••ÁV@ea)Á Ùã}ã3&ea)oÁ Q:]æ&oÁ	Þ[ÁQ]æ&oÁ
æĐÁÕ^}^!æz^Á*!^^}@[`•^Á*æzÁ^{ ã•ã]}•ÉŹ^ão@¦Áåã^&q^Á[¦Á 3]åã^&q^ÉÁ co®æÁ{ æ∂Á @æç^Á æÁ•ã1}ãa38æa)cáã[]æ&cÁ[}Á co©Á ^}çã[]{ ^}cNÁ	Á	Á	Á	Á
à DÁÔ[} - <b>Jaðo Á ão @bb) Áðj ] Jaðaba</b>  ^ Áj Jaði ÉÁj [Jaði Áj ¦Á^*` Jaæði] } Ábbá [] o^ å Á -{ lÁc@ Á]` i] [•^ Á[-Á!^å` &ðj * Ác@ Á^{ ã•ði} • Á[-Á*¦^^} @` •^ Á - * • ŇÁ	∐Á	∏Á	⊠Á	∏Á

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G][b]ZWLbWY77f]hYf]LL`V@ÁÚ¦[b%&Aş́[`|åA@eç^ÁecArã]ã&Baa)oÁv~~&&Aş{}Å`\^}@`•^Á\*æeÁ\*{ã•ã]}Á&eç^ÁecÁ ,[`|åÁ\*^}^\æz^Á\*\^^}@`•^Á\*æeÁ\*{ã•ã]}•ÁÇÕPÕDEAña@\Aåã^&d^Á[¦Á3]åã^&d^ÊAc@eecÁ{æeÂşAeá •ã}ã&Baa}oÁs[]æ&o∱}Å@A\*}çã[]{ ^}dAş\Á&[}-j&bcÂ;ã@Aeð]]&Beae\/Áj|æ)Ê4s[[|&&^Ê4s[iA^\*`|æeā]}Áeea[]c^åÁ -{|Ác@Áş``][•^ÁşÁ^å\*&3]\*Ác@Á\*{ã•ã]}•ÁşÁAÖPÕ•ÈÁ

9bj]fcbaYbhU`GYhhjb[.`Ô|ā(æc^Á&@e)\*^Áā(Á&eč •^åÁà(Á\*¦^^)@)`•^Á\*(æ^^Á©PÕ•DÁ\*{ãc^åÁā)d(Á@eÁ æ{[•]@\'^Áæ{[`}åÁv@Á[||åÁ+[{ ÁœÁçædâ\*c´Á; Á\*[`|&^•Êáa)&|ăā]\*Áo@Á&[{ à`•@ā]}Á; Á`^|Á[|Á\*}^!\*^Á æ}åÁ!æ)•]['ææā]}É&&^{ ^}o?(æ)`æ&c`lā]\*Êæa)åÁ^~+ā\*\!æ)o^{{ a\*•ā]}•ÈÁOPÕ•Áæ^Ác@,•^Á\*æ\*•Ác@æeÁ @æç^Ás@ ÁæàāãčÁī[Á!æ]Á@æsÁājÁs@ Áæɛ{[[•]@\'^Éæá];[&^••As@æsÆā;ãæ?•ÉæeÁ]~||Áæ Ás@[`\*@Á]æč \æÁ;\'^}@[`•^Á dæ]•Á@æĖÁÖPÕ•Á{ æÁa^Á\*{ ãc^àÁsA^•`|of{ A@{ a} Ásæá@e\*[[•]@\'^Éæá];[&^••As@æsÆã;ãæ?•ÉæeÁ]~||Áæ Ás@[`\*@Á]æč \æÁ; Q&\'^æā]\*ÁÕPÕA&[}&^}dæaā])•ÁājÁs@ Ásæ{[[•]@\'^Áæ{A}a&ā]\*Á4[Á\*][`àæá&a];[`aæÁ&@a]\*AE

8 ]gW gg]cb. fU!VE@Ygg'h Ub'g][b]ZWUbh]a dUWI'OBScā;āā? • Áserki@ Áāč^Á [`|å,kå^Á`àb'&oki[Á^\*`|æsā] • Á [~Ác@ ÁT^} å[&3] [ÁÔ[`} c ÁOBJÁÛ` æjāc ÁT æ) æt^{ ^} oÁÖā dā&oÁQT ÔOEÛT ÖDEÁ, @38.@Áā Á!^•][} • āa|^Á[ !Á ^} -{ !&3] \* Ác@ Á cæc^Áæ) å Á^ å '!æļÁÔ[^æ) ÁOBJÁOB ce Áse Á, ^||Áee Á[ &ædÁestá Á` ætač Á] ![ c^&cā] } Á^\*` |æsā] • ÈÓE Á } [ c^å,kaj ÁÔ@e] co!Á Áçü^•[`!&^ÁT æ) æt^{ ^} oÁÔ[^ ^} cDA Ác@ ÁT ^} å[ &3] [ÁÔ[``} c ÁÕ^} ^!æļÁU]æj ÁçGEEJDÉÁ à ^&æ` • ÁT ^} å[ &3] [ÁÔ[``} c Áā Á] !ā[ æðā] Á'` !æþÉc@ Áca{ [``} oÁ[ ~ÁOPÕÁ\*^}^!æscåÁa` Á@ { æ} Áæ&cā;ātā) • Á Ç !ā[ æðā] Ás@ Ás`!}ā] \* Á[ -Á[ • • āÁč ^] • Á[ !kç^@38]/• É@ æsā] \* Ébæj å Å[ c@ !Á • ^ • DÆ Á { æļAaj Á{ cæ¢ [{`] æ/\*åÅ{ Á Á [c@\¦É4([¦^Á\*¦àæ);Á&[`}cā\•ÁÇa¢c@[`\*@Á@at@\'Á]^¦Á&æ];ãææÁå`^Á4[Ác@Aåãrœa);&^•Á6];ç[|ç^åÁ6];Ádæç,^|3];\*Á æ{[`}åÁs@A&[`}c`DÁæ);åÁ(3];ã&`|^Á5];Árœe^,ãa^Á(;¦Át|[àæ)Á&r\;{•ĚÁ Á

Ô[}•d`&cāt}Áæskcāņānā\*•Áæ••[&aane\*\åÁ\_āno@AÓU¦[b\&cAæ)åÁ\*č'\^Á@{`•āj\*Áå^ç^|[]{ ^}ơÁ8[`|åÁ\*^•`|ơÁājÁ åā^&oÁæ)åÁājåā^&oÁ^{ã\*•ãt}•Á[~ÁÕPÕÁ^{ã\*•ãt}•ÈÄÖā^&oÁ]'|[b\&dË^|æe\*\åÁÕPÕÁ^{ã\*•ãt}•Á\*^}^!æet ã;&|`å^Á^{ã\*•ãt}•Á+[{Á&[}•d`&cãt;}Áæskcāņānā\*êÊÆd\*∞Aé\*[`'|&^•ÊÁæ)åÁ{[|àãA 4\*[`'|&^•ÊÅ\_@A\*Aājåā^&cÁ •[`'|&^•Áāj&]`å^Á\*{ã\*•ãt}•Á+[{Á\*|^&cdã&ac Á&[}\*`{]cãt}ÊÅ;æe\*\Aå^{æ)åÊ&e#\advisorations U]^!æeāt}ædÃÕPÕÁ^{ã\*•ãt}\*AÁ,[`'|åÁ!^\*`|ơÁ+[{Á^}^!\*^Á^{ã\*•ãt}\*A^{a\*}at}\*A^{a\*}at]\*AA\* æčt{{[àã/Á\*{ã\*•ãt}}\*AÁ}

#### Á

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Šæe (^Êkv@ ÁÚ¦[b/8xó4ş)8\ĭå^• Áse)}^¢æatā[}Áse)åÁ8Q[}•^¦çæatā[}Át, Áse]]¦[¢ā[ææ^\^Â.I €Áse&!^• ÉA, @BK@A, āļÁ@æç^Á }[Átī] æ&xó4Q[¦Áse&i^}^-&&äatek/Átī] æ&cDá[}ÁOPOÊÉ\*āç^}Ao@ex6v@AÚ¦[b/8xó4sīA[8ææ^åA, ão@3, Áse4, [}]Ëæcæatā[{^}oÁ æ^æÉs@ Á`¦æ4A, æe`¦^Á[ Ás@ Á ão^Ésee)åÁ { æ}kåo^ç^|[]{ ^} x42 æ^æÉs@ Á`¦æ4A, æe`¦^Á[ As@ Á ão^Ésee)åÁ { æ}kåo^ç^|[]{ ^} x42 ã] ¦[ç^{ ^} x42 a As@ Áse^aeAt[c@;!Ác^{ ][¦æb^Á8Q[}•d`8xatī]Ase8xatījātāv•ÉÉtěrÁ}[x4^¢]^8xo^åAt[Á\*ā]}ãaBæe)d^Átāj&!^æ•A ØPOÁ554 As@ Áse^aeEtÁY ão@átī] |^{ ^} cæatā[}At[-As@ Ásee[!^{ ^} at[}^åAn^\*`|æatā]•Étát]]æ&oAt[ÁOPOÁ~{ã•atã}•Á

## - " < UhUfXg`UbX`< UhUfXcig`A UhYf]U`g`

<5N5F8G`5B8`<5N5F8CIG`A5H9F=5@GBĚÁÁY[ĭ åÁc@∘Á ]¦[b%&dxÁÁ	Ú[c^}cãæ ^Á Ùã}ããæ)cÁ Q:]æ&cÁ	Š^••ÁV@æ)Á Ùa*}ãa3æ)oÁ ,ãc@Á Tãa#æaa[}Á	Š^••Á V@eajÁ Ùã*}ãa3aaa)oÁ Q:]æasoA	Þ[ÁQ;]æ&oÁ
æÐXÔ¦^æc^ÁæÁ;ã}ã&æa;ok@ee ælåÁgfÁs@;Áj`à &&Á;lÁs@;Á>çã[}{^}oÁ c@[`*@fo@;Á[`c3;^Ác!æ)•][¦dŽ\•^Ê4[¦Ááã;][•æ‡A[,-Á@ee ælå[`•Á {æc^¦ã懕ÑÁ	∐Á	МÁ	∏Á	∏Á
àDXÔ:\>æc^ÁæcÁā?}ã&Baa)cró@ee æsåÅk[ká@cÁ,`à &BAÁ;¦ká@cÁ?}çã[}{ ^}cA)cA c@[`*@Á^æe[}æà!^Á[!^•^^>æà ^Á]•^ókæ}åÅæ&&&ãa?}c&{]}äaia]}A ā)ç[lçā)*Á c@.Á !^ ^æ•^Á[Á @ee æså[`•Á { æe^!ãæb+Áā}d[Á c@.Á ^}çã[]{ ^}cNAÁ		МÁ	∏Á	∏Á
8DAÓ{ãxÁ@eeæåå[`•ÁA{ã•ąã}}•Á{¦Á@e9àå ^Á@eeæåå[`•Á¦Áæ&čơ\^Á @eeæåå[`•Á;æơ\äade¤EA`à•œa9&^•EA[¦Á;æ•ơÁã@BA{}}^Ë`æ∂ơ\A {ã^^Á;-Ae9À?¢cãrc3}*Á¦Á;[][•^âÁ&@?[]ÑÁÁ	∏Á	ДÁ	МÁ	ШÁ

<5N5F8G`5B8`<5N5F8CIG`A5H9F=5@GBĂÁY[ĭ åÁc@∘Á ]¦[b∿&dAÁ	Ú[c^}cãæ ^Á Ùã}ã&æ}cÁ Q;]æ&cÁ	Š^••ÁV@æ)Á Ùa*}ãa3æ)oÁ ,ãc@Á Tãa#æaa[}Á	Š^••Á V@eajÁ Ùã*}ãa3ea)oÁ Q:]æseoÅ	Þ[ÁQ;]æ&oÁ
åDXÓ^Á[&æz*å/ţ}ÁæÁæáÁ;Á@&&@&@ásÁş& ĭå^å/ţ}ÁseÁæró4ţ,Á@eeæåå[`•Á {æz*¦ãæ‡=Á•ãz••Á&[{]ã/å/å]`¦•`æ}oÁ(ţÁÕ[ç^\}{^}cÁÔ(å^Á Ù^&cāţ}ÂÍJÎCEŤÁæ)åÊåæe ÁseÁ^•ĭ[dŹ4[[` å/ñaA&/ǎæz^Áæá/ð]ãã&æ)oÁ @eeæååÁt[Ác@Á]`à]ãaAţ;kác@Á?çã[]{{^}oÑÁ		ШÁ	∐Á	МÁ
ヘDÁQ[¦ÁœÁ]¦[b\&oÁ][&ææc*åÁ, ão@3jÁœajÁœā][¦óÁ æa)åÁ*•^Áj æa)Á[¦ÉÁ , @¦^Ár`&@áæðj]æa)Á@æe,Áj[ơÁa^^}Áeaā]]c*åÉÁ, ão@3jÁc;[A; ǎr•Á;Á æáj`à]ã&Áæā][¦ơÁ¦Áj`à]ã&Á•^Áæā][¦d£3;[` åÁ©⊙Á;[b\&oÁ*•`jơã)Á æ4•æ^c`Á@æe æàá{[¦Á^¢&^••ã;^A}][ã ^A-{{¦Á]^[] ^Á!^•ãã]*Á[¦Á , [¦\3]*Á3jÁc@Á;¦[b\&oÁe2^æbÁ		∏Á	⊠Á	ДÁ
-DÁQ:]ænāÁā;] ^{ ^};œnaā;)Á[-Á[¦Á]@•a8æa‡ ^Áā;c^¦-^¦^Á;ac@Áæ)Á ænå[]c^åÁ^{ ^¦*^}&`Á^•][}•^Á; æ)Á[¦Á^{ ^!*^}&`Á^;œa&`ænaā;}Á ] æ)ÑÁ	∏Á	∏Á	МÁ	∐Á
*DÁÔ¢][•^Á;^[] ^Á;¦Á;d`&č¦^•ÉÃ;ã;@;¦Áå;ā^&d^Á;¦Á§;åä^&d^ÉA;[Á æÁ•ã]}ã&Ba);óÅ;ã\Á[-Á][••ÉÃ;]b`¦^Á[¦Áå^aæ@Á;]ç[ ç3;*Á;ā¦a);åÁ -3;^•ŇÁ	∏Á	⊠Á	∏Á	∐Á

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G[[b]ZJVULbWY77f]hYf]U. Á/@ÁÚ¦[b/8cÁ,[`|åÁ^•`|c4j Áā 3ā8æ) cÁ@e æ¦å•Á¦¦Á@e æ¦å[`•Á;æc^¦ã懕Ái] æ8c•Á ãÁãóÁ¢][•^åÁj^[]|^Át[Á@e æ¦å[`•Á;æc^¦ã懕Ái¦Á]|æ8AåAc@{Áijd[Á@e æ¦å[`•Á;ãčæaāi]}•LÁãÁãóA^|^æ\*^åÁ @e æ¦å[`•Á;æc^¦ã懕Ái¦Á{ã•āi}•Áid Ác@Á?;cāi]}{^}c4,c4iÅã c@iA+Aid Áœe æ¦å[`•Á;ãčæaāi]}•LÁãÁãóÁ\*A[&æc^åA [}ÅæÁjā c^àÁ@e æ¦å[`•Á;æc^¦ã懕Áiāc/LãáÁãóÅ[`|åÁ&L^æc^ÁcÁ@e æ¦åÅi`^Át[ÁærÁi]|caīiácÂt[Åæ∱,`à]ãAáæăi][!cA [}ÁœÁjā c^àÁ@e æ¦å[`•Á;æc^¦ã懕Áiāc/LãáÁãóÅ[`|åÁ&L^æc^ÁcÁ@e æ¦åÅi`^Át[ÁærÁi]|caīiácÂt[Áæ∱,`à]ãAáæăi][!cA [!Á;lãçæc^Áæā•dā]LÁãÁãóÁ[`|åÁ&L^æc^Á¢&A••ã;^Á[ã~Át[Á]^[]|^Á§A@AæAœAádááá (``Aid Áā à ãã&a)cáã\`•Á ačAátá¢][}•^Ái]]\*•Aí]!Áçæ&`æaāi]}Á,læ}Lá[¦ÁãÁãóÁ[`"|åÁ¢][•^Á;^[]|^Á;lÁd`&c`!^•At[Áiā]ãã&a)cáã\•Á ač^Át[Á]ā]aa}àAā^ÈÁ

WSQOĚWÔUÁ ze Ázel [] chả Áb Ác@ ÁOĚWÔÁ; } ÁT zê ÁGEÉGEGFÁzel à Ázel [] chả Áb Ác@ ÁN ãzegÁÔã: ÁÔ [` } & álÁ; } Á R"}^ÁFÎ ÉÃG€GFÉÁ

А

V@^Áãe^Á§[^•Á][oÁ§3&]čå^Áeg}^Á}[\_}}Á@ee ælå[č•Á;æc°Áãe^•Éæe Á;æ]]^åÁ§^Ás@AÛcæe^Ázæe^¦ÁÜ^•[č¦&^•Á Ô[}d[|ÁÓ[æłåÁQÙY ÜÔÓDÁ[¦Ác@ÁÔæłã[¦}ãæ4Ô^]æłd[^}ơ4[~Á/[¢ã8ÁÙčà•œ+)&^•ÁÔ[}d[|ÁQÖVÙÔDÁ[}ÁœA Õ^[V¦æ&\^\Áæ}åÁÒ}çã[Ùd;¦Áåæææàæe^•É{\^•]^&&ãç^\îÉ;[¦Áæ^^Áœ\^Áœ\^Áæ}^ÁãevàÁvãev•Áã@\$AÁœãA¢ã&4ã [~Ás@^Á;ãe^ÉA

Α

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OBā] [¦ơĐ) çã[} • ÁQU OBÒDĐÔ[{] ænäa äjaã° ÁZ[}^BÝ ãr@3), Ás@ár Áseāl] [¦ơÁs) ⊣`^} &^å Áseh~æBÁ, [Áēj ão•Áseh^Á,¦^•&¦ãa^å Á ão@Á^\*æ¦åÁ{[Áā]c^}•ãĉÁ{[Áā]c^}•ãĉÁ{[-Á\*]•ãĉÁ{[-Áå]\_^||ā]\*Á\*}ão•ÉA}[[¦Áæ¦^Ác@|^Áæ])^Á{[]^}Áæ)åÁ^~`ĭā^{[^}o•Á •]^&ããðk kí Ástā][¦cÁ æ^c Á&]}•ãa^¦ædā]}•ÈÉP[ã^^Ásejå A;ç^¦-{āť@ÓAæ&d;¦•Ásc^Á&]}•ãa^¦^å Á;ājājædÉás`oÁs@`¦^Á {¯æÂà^Áį¯&&æaā}}ækÁ;ç^¦-¦ãt@o>Á;@3&@Á;æÂà^Á5jd`•ãç^Áq[Á^[{^Á;ča¦[[¦Áæ&aã;ãæ?•Ĕ40;Á\*^}^¦æeEbo@Alã:\Á |^ç^|Á[¦Ás@ãĂ[}^ÁšāĂ[, Ĕ&a)åÅ[[Á]^&ãã&Á æ^ĉÁ[¦Ásãi•]æ&^Å,[ / Åsãi•]æ&^Å,[ / Åsãi] Aza&d[¦•Ásd^/Ásã^} cãã\*åÉÄÅ Α

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T^æ;`¦^•ÁÕÒUËFÁæ)åÁPOZËFÉA;¦ąį¦Á{[Áæ)^Á\*¦[`}åÁåãcč¦àæ)&^ÉA`¦[•ą[}Áæ)åÁ\*^åã[^}cÁ&[}d[|Á]|æ)•Á • @eetļÁà^Á\*`à{ãcc^åÁ[Ác@ÁÚ`à|ã&ÁY[¦\•Áee}åÁÔ[{{`}ãcÂÖ^ç^|[]{\_^}cAÖ^]æetq[\_^}orÁ{[¦Á^çã^, Áee}åÁ æ]]¦[çæ|Áæ);åÁ•@æ|Áāj&|ĭå^ÁÓTÚ•Ád[Áæåå¦^••Á•[ājÁ^¦[•āj]}Áæ);åÁ•d[¦{ aæ^¦Á¦ĭ}[~—ÈÁŒååãaāj}æ||^ÊÁ 8[] • d Šaāt Á] | [b/ 80 Ác@eeA, [č| å Áaã č ¦ à Á{ [¦^ Ác@ee) Á[] ^ Áze8 ^ Á[ - Á|æ) å É, [č| å Áa^Á• č à b/ 80 Ád Ác@e Á ¦^``ã^{ ^};•A`^}^}^!æ|AÔ[}•d`&aā[}AÔBBaãçãcÂÙd[¦{ ;æe^!ÁÚ^!{ãx4QÔ[}•d`&aā[}AÔ^}^!æ|ÁÚ^!{ãxÁU|å^!Á GE€JËËË€JËÖYÛÊAa‡•[Á}[,,}Aæ Áœ ÁÔÕŮDÂ, @&@Á^``ã^•Á]]^¦æ[¦•Á]. Á\* &@48[}•d`&aā]}Á\*ã\*•Á[Á ā[]|^{ ^} ơÁ•q[¦{ , æe^¦Á&[}d[|•Áæ);åÁå^ç^|[]ÁæÁÙq[¦{ , æe^¦ÁÚ[||˘dā[}ÁÚ¦^ç^}dā[}ÁÚ|æ);ÁÚ|æ);ÁÚUA ãå^}cã^ãj\*Á+]^&ããã&ÁÓTÚ+Á[Áa^Áã;]|^{ ^} c^àÁ[Á^å`&^Ác@Áæ;[Č}cÁ;Á^åã;^}cÁæ)åÁ[c@\Á;[||čœ;)cA æ••[&ãæe^åÁ,ão@Á&[}•d`&qā]}Á•ãe^•Á+[{ Áà^ã}\*Áåã;&@ee\*^åÅã;Á•q[¦{ , æe^\Á\`}[~+ÈÅV@A]¦[][•^åA Ö^ç^|[]{^}ớO≛¦^^{^}óAå[^•Á}[ớāj&|ĭå^Á+]^&ãã&Áå^ç^|[]{^}ớå^•ãt}•Á[¦Á]¦[][•懕ÉÅ}[¦Áå[^•ÁãÁ \*¦æjóÁæj^Á^;œ̃q^{^}œÁ{[,|Á&^ç^|[]],{^}děXo\*č¦^A@\_`•ð,\*Å,`[b`8œ,Á,ā|A&^Á\*`àb&&Á([ÂÔ[`'}ćÁæ)åÂÔãĉqÁ, å^ç^|[]{^}œ^+œa}åæbå•Ékàĭāþååj\*Áæ)åÁ+æ^cîÁ&[å^•Ékäj&|ĭåāj\*Á\^çã\\_Á[-Á+q[¦{\_æe^\Á{æ}æ\*^{^}oÁ ] | æ&cæX^• ÉÅ, @ | ^ Ásej ] | æææi |^ ÉKGÁ\* č ' ^ Å, [ | \ Á§, Á; l Áseå bæ&^} cÁ[, Ásej ^ Á; -Ás@ Á; c@ l Å, æe^ l &[ ` I • ^ • Á; l Á&` |ç^ l • Å æh Áj ¦[][•ĺ^åÉzœ)ÁÖ^ç^|[]^\¦ÁārÁ^˘˘ã^åÁq[Á[àœaãjÁ]^&&^••æ'Á^\*˘|æe[¦^Á]^¦{ãe Á[¦{ Áœ)ÁÔæqã[¦}ãæÁ Ö^]ælq(^}qá(-ÁZā; @áse)åÁY ajálã^Áse)åÁs@AÜ^\*a[}ælÁY æe^\ÁÛ`ælaãîÁÔ[}d[|ÁÔ[ælåÉáse Á/&^••æl^ÉÁsQ]æssorÁ æ•[&ãæet^åÁ ão@Á^¦[•ã[}Áæ)åÁ•d[{ , æe^¦Á'`}[~Á [ `|åÁà^Á`Ygg'h\Ub'g][b]Z]WUbhik]h\`a]h][Uh]cb' ]bWcfdcfUhYXËA

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&[}•ãa^¦^åÁs@/Áse]]|a&aaaa|^Á,i|aa)HÁZ[}āj\*Áse)åÁaa)åÁ•^Áse/^Á\*[ç^¦}^åÁsa^Ás@/ÁÔãĉ erÁZ[}āj\*ÁJ¦åājaa)&^Éáse Á [\* dā ^ å/\$J ÁÖāçã ð } ÁJ ÉÔ@et c^ ¦ ÁCÁ Ás@ ÁN ãe 9Ôã: ÁÔ[ å ^ ÈÁ/@ Á \* ¦] [ • ^ Á Ás@ ÁN ãe 9Ź[ } ð \* ÁÔ[ å ^ Ás Ás Á ]¦[{ [c^Ác@^Á\*¦[, c@Á; Ác@ ÁÔãc Áā; Áea; Á; lå^¦|^Á; ea; }^¦Áea; åÁ[Á] ¦[{ [c^Áca; åÁ] ¦[c^&cÁc@ Á] `à|a&Á@ æ¢c@ÆÄ •æ^c°ÊÅ^æ&^Ê&[{ { { \obj} å/\$\*^}^\#ahá`^}~\#ahá`^\#ahá`^\#ahá`P[``•jā`\* /å^ç^|[] { ^} o/{ ~4çæ^`jā \* /Åj c^} •ãĉ /Æ /Åah[`, ^å/&j /ÅaháAhá] :[}ā]\*Ašārdā&crA(-As@AM)āee9AZ[}ā]\*AÖ[å^A,ār09As@A\*¢&^]cā[}A[-As@ATca)`-æ&c`lā]\*As9}åAQpå`∙dãe4AZ[}ā]\*A Öãrdã&crEA.

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Ø`¦c@;¦Á;^•oÁÇ3;&|`å;3;\*Ác@;ÁÚ¦[b^&oÁ+ãc^DÁã+Á`}å^ç^|[]^åÁ[]^}Á+]æ&^ÉÃe;åÅ;@^^]ÉÁå^}•^|^Áç^\*^œæ^åÁ æ^æ Áāj ć^¦•]^ĺ́•^åĄ́ ão@Á`¦æ†Á^•ãå^} cãæ‡Ą́[o•Ą́ ão@źļÁỐ[`}c Ăŏ¦ã\*åã&cāt]ÈĂŹ@ ÁÔãc Ăţ -ÁNĂ ãæ@Áās Á\*[ç^¦}^åA à^Ác@ ÁÔãč qrÁÕ^}^¦æ;ÁÚ|æ;) ÁQæå[] c^å Á§i, ÁFJJÍ ÉÁjæ; cÁ^çã ^å Á§i, ÁGEFJDÁ;e;) å ÁN, ãæ:@ÁÔãĉ ÁÔ[å^ÁQ, NÔÔDDÁ/@ Á |æt\*^¦ÁW\@ee@ÁXæ||^^Á&ēÁ\*[ç^¦}^åÁà^Ác@∘ÁW\@ee@ÁXæ||^^ÁOE^æÁÚ|æ);ÁQUXOEÚLÁG€FFDÉÄ、@B&@Á&ēÁæÁ &[{]¦^@}}•ãç^Áæ);åÁ[}\*Áæ);\*^Áa;c^\Ė5\?ã\*åã&cã;}æ4Á;|æ);}ã;\*Áå[&`{^}cÁc@eeÁ^]¦^•^};c•Ác@.Áçã;ã;}Áæ);åÁ -{¦^•ā"@A{[~Ác@^A]^[]|^A, @{A|ãç^Aaa}aA, [¦\Aã]Ac@AWXãæ@AXaa|^^ÈAV@ãA]|aa}A\*[ç^¦}•A|aa}aA`•^Aaa}aA å^ç^|[] { ^} ơĂ } Ás@ Á`} ã; &[ ¦] [ ¦æɛ^å Áæ; å• Á§; Ás@ Á∿, ãæ@Áxæ;|^^ĖÄ А

V@^Á&覦^}cÁN\%ãæ@∮Xæ|/^ÁOE^æÁÚ|æ}Áæ}åÁ\*•^Áå^•ã\*}æaã;}Áã\*ÁÜ^{ [c^ÁÜ^•ãå^}cãæ‡ÊA €ÁOB&¦^ÁTājã[č{ Á ÇKÜTÜI€+DÁsa)åÁs@A^¢ãarā,\*Á.[}ā,\*ÁšarÁN]|aa)åÁÜ^∙ãå^}oãaa†ÉA,€Ëaa&\^Á;ājā;`{ÁÇMAÜK;€+1DÉA/@AÔ[`}ċ`qrÁ &`;;^}oÁÜTŰÁ&,|æ••ã&3&aæaā[}ÁãrÁãjc^}å^åÁq[Áà^Áæa]]|ðråÁq[Á|æa)å•Á@æqcãj\*Á&[}•clæaājo•Á-[;Á&[{{ ^;&ãæqÁ æ\*¦&&`|c`¦^Ê&aį`à^¦Áj¦[å`&caįi}Áį¦Á;¦æ=äj\*ÉÄ,@a&@kaeh^Á,^||Á`ãr^åA([¦Á{æ+|Á&æ+|^Áæ+{äj\*Áæ+}åA([,Áå^}+ãc`Á æť¦&&`|c`¦ædE^^•ãa^}cãad,Á`•^•Áa^Ác@Aœà•^}&^Á(~Á\*`&@Ájā[ãzædā[}•Áæ•Á5]æå^``æe^Áe&&&^•ÉA`}æ&&^]cæà|^Á @ee æsåÁ^¢][•`¦^Áį¦Á§j&[{] æsāà ājāč Áj ão@kiekilų ājāj\*Á^•[``¦&^Áæj}åÁ`•^•ÈA/@^ÁÜTÜÁæjåÁ`•^Á&^•ãŤ}æsāį`}Á ade|[ (●ÁæaÁå^}●ãĉÁ[,-Á[,}^Áå (^||ā]\*Á'}ãoÁ]^\Á.€Áæ&¦^●ĚV@ANÜÁ.[}ā]\*Áåã:da&oÁãrÁājc^}å^åÁ[,Á&¦^æe^Áæ)}åÁ ^}@aa)&^Aæq{ āj\*ÁsajåÁ{[,Ëå^}●ãćÁset;¦a&`|c`¦aq4D^●ãå^}cãaq4Á●^●ĚA/`]a&æq|^Ê&c@ANÜÁ[}āj\*Ásiã\*cla&cÁ;[`'|åÁ à^Áa‡]]|ā\àÁq[Á}[}]|ā[^Á]|[a`&aā[}Á|aa)a•Á,@38.@4@aaç^Á&[}•dæaā]o•Áq[Á&[{ { ^¦&ãad-Áez\*|38.č|cč|^Éxaã[à^¦Á ] ¦[å`&aā[}Á[¦Á'¦æā]\*Áà`óÁ, @38:@Áæb^Áæà•^}óÁ[×Á\*`&@Á]ā[ãiææā]}•Áæ•Áājæå^``æe^Áæ&&^•ÉA`}æ&&^]œaà|^Á @ee æbåÅk¢][•`¦^Át¦Á§i &[{]æeaaaðañacíÁ,ão@kasebljājāj\*Á^•[`¦&^Áeae)å•EA/@ANÜÁ[}āj\*Ásáacda&oAsehl[,•Át¦Át}^Á å、^||ā]\*Á}ãA,^\A,€Áse&\^•ÈQQ,Áseååãaā,}ÈÉse}ÁDEÖWÆsA,^\{ãec^åA,}A^ae&@A,æ&&\ÈÉO[c@As@A^¢ãea]\*ÁÜTÜÜ €Á |aa)åÁ•^Áå^•ã}}aæãį}Áaa)åÁNÜÜE €Á.[}ãj\*Áå^•ã}}aæãį}Áaa|[、Á[¦Áį}^Áå、^||ãj\*Á`}ãA,^¦Á €Áa&,'+Á €Áa&,'+ÉÁ А

8]gW/gg]cb. fUL:@Ygg'h\Ub`g][b]Z]WUbhi]adUW/l'Ú@•a&aa/Aåãçãã[a]}Á[-Áaa)Á^¢ãcāj\*Á&[{ { `}}ãĉÁ[ `|åÁ cî]a&æ¢|^Áa^Áæ••[&ãæe^àÁ,ão@4&[}•d`&cā[}Áį,Áæé),^,Á@at@,æêÉÅæa‡i[æaåÉÅjæk\Á[¦Á[c@\¦Á§]^æAA^æc`¦^ÉÅV@A Ú¦[b^&oÁæ^æÁāĂ`}å^ç^|[]^åÁ,ão@Áo@Á^¢&^]qā[}Á[-Áæ)Á^¢ãrq3,\*Áæ&&^••Á[æåÉÁ3a^à¦^æ•Áæ)åA[¦^çã[`•Á |æ);åÁā[]¦[ç^{ ^} @ Á[¦Á][c^};œãeplÁčč¦^Á@[č•ã]\*Áå^ç^|[]{ ^}dÊAY @ähÁc@ Áܦ[b^&oA, [č|åÁã[]¦[ç^Ác@ Á ^ ¢ã cāj \* Áæ&&^ • • Á[ æåÁæj åÁæd|[ , Á[ ¦ Á] [ c^} cãædÁč č ¦^ Á[ , Ëå^} • ãĉ Á!^ • ãa^} cãædÁå^ ç^|[ ] { ^} dŹłãAå[ ^ • Á] [ cA ] | [ ] [ • ^ Á) ^ 、 Á) a ^æð Á^æð | ^ • Áo@æd ヘ [ ` |å Á/ • ` | ∽Á) Áo@ Á&ãçã ã) Á[, Áæ) Á • cæà |ã @ å Á&[ { { ` } ãô ÉAQ ] æ&or Á Ţ[ઁ|åÁà^Á́Ygg¨ĥ Ubʻg][ b]**ΖļΨU**bHŽÁ́ Á

fWL:@Ygg`h\Ub`g][b]Z]WLbh`]adUWHĂ/@^ÁÚ¦[b^&oA\$j&{`å^•Áæ&``ãããaj}Áæ}åAæ}}^¢ææaj}A^{xAæ}] {[¢ã]æe^|^Á Î J HÁce&\^•Á\$j ([Ác@AÔãĉ qa Áŏ ¦ãª åã&cajī} ÈÁQQ Áceå åãajī} Êác@Ap [\*`^¦æÁÚ¦[]^¦ca∿•ÁQCEÚÞ•Á∈€HËFJ €Ë€J ÁB Á€€HË FF€ËJ€DDÂ&[cæ‡ā]\*Áæ]]¦[cā[æe^\^ÁFIÁæ&\^●ÊÄ,ã||Áa^Á\$J&\`å^åÅSJÅo@Áæ}}^¢æeā[}^¢æeā[}Á,\[][●æ‡Á{[Áæ&&^●A{]}^ÉÄ V@~ÁQE;}^¢æeaā;}Á;aeb&^|•Á,[č|åAbà^A;l^:[}^åAbjq[Ác@^ÁÔãĉÁ;-ÁW,ãee@A;lát;lÁq[Áce}}^¢æeaā;}ÉEbjÁce&&{[¦åæe}&^Á ão@ÁVÔÔÁÙ^&cā[}ÁJGÎÏÊÕ[ç^\;}{ ^} cÁÔ[å^ÁÙ^&cā[}ÂÎÍÌÍJÁce)åÁŠO52OÔ[Á][|ã&ã+ÈÁV}å^\Ác@Á,\[çã+ã[}+Á [~Ác@^ÁÔ[ç^\}}{ ^};^ÁÔ[å^Éźc@Á[}ą]\*Áå;ada&c/æå[]c^åÅa^Ác@ÁÔ;ac Åå[^•Á;[oÁa^&[{ ^Á;~^&;aga^A;}|^••Á; æ) å Á`} cālÁc@ Álæ) å Áña Áæ)}^¢^å Áña (I Ác@ ÁÔãc ĚLU} &^Ác@ Á] æl &^|• Áæ!^Áæ)}^¢^å Áña (I Ác@ ÁÔãc ÊÁc@ Á ãc^Q DÁ [ \* |å Á} [ oÁà^Áå^ç^|[ ] ^å Á\* } cājÁæ) Áæ] ] |ã&æ) oÁ• \* à{ ão ÁæÁ] ¦[ b^&oÁ• ão^Á] |æ) Á-{ ¦Áå^ç^|[ ] { ^} oÁ[ } Ác@ Á Ö^ç^|[]{^}oÁÚæb&^|•ÁÇEÏDÁæb)åÁįàœæbj•ÁÚ|æb}}ãj\*ÁÔ[{{ã;•ã[}Áæb]]¦[çæbÁ[-ÁæÁW•^ÁÚ^¦{ãóA[Á&]}•d`&oÁ .c@/ālÁ@[{ ^ÈÁN]/cāļÁc@/Á];¦[]^¦c`ÁārÁæ}}^¢^åÊŹãaÁārÁr`àb/&cAt[Á^¢ãrcā]\*Á.[}ā]\*Á`}å^¦ÁT^}å[&ā][ÁÔ[`}c`qrÁ Z[}āj\*ÁU¦åājæ);&^ÉÁP[,^ç^¦ÉÁP\*||ÁÚ¦[]^¦æ?•Áã:Á&@;[•āj\*Ád[Á¦^ææ3jÁc@>Á'ā\*@Ad[Á•^||Áæ3);åÁå^ç^|[]Á Ö^ç^|[]{^}ơĂJæa&^|•ÁπĖHÁ,¦ãį¦ÁqíÁæa}}^¢ææãą}ÈÁV@AÖ^ç^|[]{^}ơĂJæa&^|•Áæd^Áf[&ææ^åÁ,ãc@ã)Ás@AÔ[`}ćÁ

[-ÁT^}å[&ā][q+Áŏ¦ā\*åã&cā]}Á ão@3, Ác@ ÁW]|a) å ÁÜ^•ãa^} cãaqHÉA EËa&¦^Á[ā]ā[`{ÁÇVÜK EDÁ[}ā]\*Áåă dã&cAÁ Ô[}•d`&cā]}Á[-Ác@ Á\*ā]\*|^Eæa{aî^ÁQ}{^•A,ão@3, Ác@ ÁÔ[`}c`q Áŏ¦ā\*åã&cā]}Á [`|å Áà^Áà^Ëã @Áæ) å Á}[cÁ ¦^`ã^Á&ã &¦^cā]}æ^Áæ]]![çaqHÉA}çā[]{^}caqHA^çã]EA,[i&@ Aá^cç^|[]{^}o\*Acæ) å æa å \*AS[}cæa]^åÅ ão@3, Á c@ ÁÔãč qrÁÜFËPÁ[}ā]\*Áåā dã&cBAP[,^c,'EAP`||ÁU|[]^¦cā)•Áa Ás@ Aá^cç^|[]{^}o\*Acæ) å æa å \*AS[}cæa]^åÅ ão@3, Á c@ ÁÔãč qrÁÜFËPÁ[}ā]\*Áåā dã&cBAP[,^c,'EAP`||ÁU|[]^¦cā)•Áa Ás@ Aá^cç^|[]{^}o\*Acæ) å æa å \*AS[}cæa]^åÅ ág a c@ ÁÔãč qrÁÜFËPÁ[}ā]\*Áåā dã&cBAP[,^c,'EAP`||ÁU|[]^\cā)•Áa Ás@ Aá@ Aá^caP`ă^ÁœAá c@ ÁÔãč qrÁÜFËPÁ[]ā]\*Áåā dã&cBAP[,^c,'EAP`||ÁU|[]^\cā)•Áa Ás@ Aá@ Aá (Åà^AS[]•d`&c\*åAt[AÜFËPÁ cæ) å æa å \*Aà`AáJ &I`aā]\*Ác@{Aá}Ac@AÓ^Sa[æasaā]}At[-ÁÔ[ç^} æ] o\*ÉÔ[]} å ãat]} EA a) åAÜ^•dã&cā]}•ÁÇÔÔBÜ•DÁ-[¦AÖ^c,'[]{ ^}oAÚæ&A`|•AFËEEAQAÁæåãaā]}ÊAæcQ `\*@A}[cÁ!^``ã^àEAc@A {ãat æsā]}Ât[^æa>`!^•AS[}cæa]^åA,ão@3,Ác@AOUT ÞÖÁL[¦Á^•ãa^}cãa+Aà^cc^'][]{ ^}o4, aj Aá¢=[Aà^A5J A c@ ÁÔÔBÜ•EA

#### Á

V@\ÁÔãĉÁ,¦[][•^•A{{ ka}}}^¢,ka}]¦[¢ã[æe^\^Â.I€Áæ&\^•A{[cæbÊ&[||^&cãç^|^Á^~^¦¦^å.ka[kæeA@^Á©[}•^¦çæeã[}Á  $(122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (122) \\ (12$ U]^}ÁÙ]æ&^Á:[}āj\*Áå^•ãt}æaāi}ÊÁc@AÔãĉqeÁ^¢ã;cāj\*ÁÚ`à|ã&ÁØæ&ãããã\*•ÁQÚØDÁ:[}āj\*Áå^•ãt}æaāi}Á ^}&[{]æ••^•Áæ}å•Á,ão@3)Á@AÔãĉÁœæA&[}cæ3jÁ]^}Á]æ&^Áæ}åAjæ\•ÊæeÁ,^||ÁæA,c@¦Á,`à|ã&Áæ&ãããã•ÈÄ  $CB8&[ | å \ddot{a} * | \hat{B} \otimes A \hat{O} [ \} \bullet \land | ç = 3 \dot{a} \land \dot{A} \Rightarrow A \hat{A} \Rightarrow A$ æŀ^Á¦[][•^åÁş[Ás^Á¦^:[}^åÁÚØÁÇ ãc@ÁscÁLJ`à|3&+kÔ^}^¦æhÁÚ|æ)Áæ}åÁ•^Ás^•ãt}æaā}DÁ;@3&@Á]^&ã3&æ#|^Á ãå^}çãã•Á,`à|ã&,{¦Á`æaä<sup>‡</sup>,`à|ã&,Á.•^•É\$\$,&|č,åð;\*É&`ơ,[o4ã,ãr^å,Á[Á,æč¦æ4Á^•[č]&^Á&[}.\*A&[}.\*A&[}.\*A æ)åÁ,æ\•Áæ)åÁ^&¦^æaā[}ÈÁ/@/ÁŠæ)åÁ₩•^ÁÔ|^{\_^}ơA, Á∞/ÁFJJÍÁÔãĉÁ[-ÁN/ãæ94Ő^}^¦æ4Á(|æ)Á œæ^•ÁœæA c@ ÁU`à|38ÁQUDÁ|aa)åA`∙^Åå^•ã\*}aceāt}Áã;Áã;c^}å^åÅ;['Å]`à|38Á-as&ãããã••Áæ:Á, ^||Áæ:Á[]^}Å•]aceA^Áa}Åa &[}•^¦çæaā[}ÅæchæekkaejåA{ æêkkankae]]|aðåk4[Áæejå•Á;ãxc@ajkko@AÔãcÊ6ks@AÛU06Ax`¦æek&[{ {`}}ãxað•ÁQãan}cæaðååA ær ÁÔæ]^||æ6ÄVæk{æt\*^Áæ); å Ác@^ÁQ[¦\•DÉA{ær c^¦Á]|æ); Áæk^ær ÉAæ); å Áæh^ær Á.ãc@a); Ác@^ÁÕ^}^¦ækAÚ|æ); qr Á W} 引 &[ ] [ |æv^åÁÚ|æ) } 引 \* ÁŒ^æÁQ&` | |^} d^ÁœÁ;æ( ^Áà[ ` } åæ^Áæ;ÁœÁWXŒÚÁæ),åÁc@ÁÔãĉ q Áæå[ ] c^åÁ ÙU 00\$ŽÓ^&æĕ•^Ác@^Á]æb&^|•Áajc^}å^åÁ{[¦Á[]^}Á•]æ&^ÁÇãc@ajÁc@ÁÔãc`qeÁ&ĭ¦¦^}cÁÙU 00\$æe ÁæAjæcA[¦Ác@Á Ú¦[][•^åÁÚ¦[b^&oÁæ\$^Á, ão@3),Ác@^ÁJÍqÁÖ^}^¦æ4ÁÚ|æ3;qeÁW}ãj&{[¦][¦æe^åÁÚ|æ3;}ãj\*ÁOE^æÉAc@A3;¦[][•^åÁ æ)}^¢æaā[}Áæ)åÁ]¦^:[}ð]\*Á[~Ác@^Á]æ&^|•Á[ÁÚØÁÇão@ÁœAÚÁÕ^}^¦æAÚ|æ)Áæ)åÁ`•^Áå^•ðt}æaā[}DÁæAÁ &{}•ãrc^}cÁ,ãc@Á@eÁ54;c^}cÁse) a Áse) a Áse) a Á • ^ • Á56a^}cãa? a Á ãc@ã) Ás@ ÁlÍqÃÕ^}^¦ae)ÁÚ|ae) EÁQeÁseá a ãã;}Êfs@ ÁÔãc Ásea) Á cājā ^ Ášo• Áj æ\ • Áj ¦ å āj æ} &^ ÁQÖãçã ãj } ÁFÊÔ @eej c^¦ ÁFGÁj ~ Ác@ ÁNN ãæ@ÁÔãĉ ÁÔ[ å^ DÁg Áj ¦[ çãå^ Áĭ |^• Át [ ç^\¦} āj \* Á Ôãĉ Ásej å Áj`à|3&Á • ^ Áj ⁄ÆÁJ⁄ØÁ[} ^ å Áj ¦[] ^ ¦ĉ ÉÁN} å^¦ÁÕ[ç^¦} { ^} ơÔ[å^ÁJ^&dã]} Á Î Ï I ŒÉ&sãĉ É; } ^ å Áj æb&^|• Á æh Á, [cÁ^˘˘ã^åÁţí Áà^Áţí &æe^åÁ, ãc@a, Ác@ ÁÔãĉ ŒÁÙU ŒÁÚæk&^|•Á&æa) Áà^Áţí &æe^åÁæ) ^\_@¦^Áşi Ác@ ÁÔ[˘} ĉ ÊÁ æÁ[}\*ÁæÁ@^Á&^Á^••ÁœġA(\*\*É{) } ^åÁa^ÁœÁôãĉÊ&ġåA \*^åÁ{ +^åÁ{ +^}åÅa \* ÅœÁœÁA cãį ^Á[, Ác@, Áca); } ^ ¢æeā[; } Áca]; ] |a&æeā[; } ÈÉÓ^&eĕ • ^ Ác@, Á] [ ¦cā[; } Á[, Ác@, ÁÔ[; } • ^ ¦ çæeā[; } ÁÚæb&^|• Á], ¦[ ] [ • ^ å Á[; ¦ Á æ)}^¢æeā[}}Á]cæ]•Áe]]¦[¢ã[æe^|^ÁGJÎÁæ&¦^•Ééea)åÁ,ã||Áà^Áĭ}å^\Á&ãĉÁ[.}}^\•@]A{[¦Á[]^}Á•]æ&^Ééc@ãÁ ][¦cā]}Á[,~Ás@)ÁÚ¦[b^&cÆ;Á&]}●ã;c^}cÁ;ão@ks@AÔ[ç^¦}{ ^}cÁÔ[å^ÈÁ

#### Á

V@ÁPÁUç^¦|æÂÖãda8oÁárÁ3jc^}å^åÁq[Á?}8[`¦æť^Á;|æ}}3]ā\*Éåi^•ã}}Êáe}åÅå^ç^|[]{^}¢, @A^Á;!^•^¦çāj\*Á }æč¦æµÁ]@•a8æµÁ^æč¦^•Áæ}åÁ(ājā[ãā]\*Á][c^}œáµÁ\*æ^ĉÊÁ;æc^¦Á`}[~Áæ}åÅ\*[āA^¦[•ã]}Á8[}&^\; æ•[&ãæe^aÁjãc@Ác@A}æč¦~aAajåÁ(ājā[ãā]\*Á][c^}cågáµÁ\*æ^ĉÊÁ;æc^¦Á`}[~Áæ}åÅ\*[ãA^\[eā]ÅA[]&A8[}&^\; æ•[&ãæe^àÁjãc@Ác@A}æč¦æjÁc^\]æäjÈÁV@ÁÔãĉÁ[~ÁN&ãæ@µÁÕ^}^\aµÁÚ|æ}Á[æ}Åå`•^Áå^•ã]æãa]}Á[~ÁŠ[j&A^\ Ö^}•ãĉÁÜ^•ãa^}cãæµÁÇŠÖÜDÁeµ[[j•Á[¦Á∞Áå^}•ãĉÁ[~Á\*ãcÁåj^|]ā]\*Á]ã•Á]^\áæ&\^ÈÁN}å^\ác@•^Á^\*č|æãa]}•ÉÁ c@ÁÍIÁæ&\^•Á{[¦Á'.•áã^}cãæµÁå^ç^|[]{^}c^Á&[č]åÁ8[}&^ãçæà]^Áà^ća^c^[]]^aÅÁjãc@Á`]Á(ā+H€Áč}ã•ÈÁ

^|^çæaā[}•ĒŹÒæ&@Á@[{´^Á, [``|åÁ^``ã^Áæ]] ¦[çæaÁ[, ÁædÓ`ãåǎā]\*ÁÚ^¦{ãāEA, @ã&@Á5);&|`å^•Áæååãaā]}æaAA^çã\, Á æ) å Áæ] ] ¦[çæ Ásàˆ ÁÔ[č] č Ása) å ÁÔãĉ Áså^] æ lo(^} or ÉÁ Á Ú¦^:[}āj\*Áį~Ás@Ajaet&^|•Á;āļÁ^˘˘ã^ÁseáZ[}āj\*ÁTæjÁsejaÃÕ^}^¦æAŰ|æjÁTæjÁOĘ^}å{ ^}a{ ^}cÁ][}Ásej]¦[çædÁ [ ~Ác@ Áca) } ^ ¢æaā[ } Áca] ] |a&æaā[ } ĔÁOE[co@] \* @Ác@ ÁÔãĉ qr ÁÕ^ } ^ ¦ æa¦ÁÚ|æa) Áca) å ÁÔ[ \* } c`qr ÁNXOEÚAå[ Á)[ oÁ&[ } cæaāj Á •]^&ãã&Á][|ã&ã)•Á\^|æe^åÁq[Á]\^:[}ā]\*ÉAc@^^Áå[Á&[}cæā]Á\*[æ†Aæ)åÁ][|ã&ã)•Ác@æeÁ+dãç^Á-{¦Á[¦å^\|^ÉA &\`•c^\^åÁå^ç^|[]{^}dÉ+`]][¦cāj\*Ác@AÔãćÁæ)åÁÔ[`}c`qAÜPÞOEÉæ)åÁ&[}•^¦çæeāj}Å{\[^{[^]}}Á[]^}Á+]æ&^ÈÁ V@ ÁÔãĉ q ÁÐEFJËÐEGÏÁ?[ĭ•ā] \* ÁÔ|^{^} oÁB &|ĭå^• ÁÔ[ æ þÁ? ÉľÁæ) å ÁÚ[ |&C Á ÉFÁ @&&@Á^^\ Á{ Á`]][ ¦oÁĭ č ¦^Á Ô[`}c`qrÁG€FJËG€GÏÁ?[`•ā]\*ÁÒ|^{^}d\$j&|`å^•ÁÚ[|a&`ÁFÈHÁse)åÁOB3ca[}•ÁFÈHaskó@[`\*@ÁFÈHåAs@æenÁdãç^Á§[Á ,[¦\Á&[[]^¦ææãç^|^Á,ão@Á&ããð\*•Á,ão@3,Ás@ ÁÔ[`}ċ´Á;}Á^\*ã[}æ4Á@[`•ã]\*ÉA`]][¦oÁse}}^¢ææã[}Áse]]|&Bæeã[}•Á d[Ás@:ÁT^}å[&ā][ÁŠOEZŐ[Á¦[{Áşi&[¦][¦æe^å/&sãa?•Á{¦Áse}}^¢æeā[}•Á[-Áse]}cā\*`[`•Áæ)å•Á\&BËÖ[}•ã;c^}cÁ ão@ko@•^A\*[憕Áæ)åA][|&&a\*•Éko@AÚ|[][•^åAÚ|[b\*&cA] ā|Áæ|[] Ác@AÔãĉ Át[Áæå^``æe^|^A]|^•^¦ç^Áæ)åA j¦[ơ\&oká@A&[||^&cãç^AÔ[}•^¦çæaā]}ÁÚæð&^|•ÁÇI€Áæ&\^•ÁξicæDÊĂ, @ah^Áœ|[, ā)\*Á,\å^¦|^Áœ}åÁ&|`•ơ\'^åÁ{[, Ë å^}•ãĉÁ^•ãå^}cãæ‡Áå^ç^|[]{^}cĄ`ãc@ã,Ác@AÖ^ç^|[]{^}cÁÚæ3&^|•ÁQ`IÁæ&\^•DÉ&[}•ã:c^}cĄ`ãc@4jæ3;åÁ•^Á ]æec^\}•Á、ãc@a,Ác@ ÁY ^•c^\} ÁP áļ•ÉÁOEååãaāį}æ|^ÉÁc@ ÁFIÁ`}ã•Ác@eecÁ&[č|åÁà^Áå^ç^|[]^åÁ`}å^\Ác@ Á Ô^ç^|[]{^}ơ\DE \^^{^}o, [`|å Á`|~ājAsen['|ɑā]}A[~As@ Asea`[ç^A[[å^\zee^A5]&[{^A`}ãe A[~AQ``ā^\*A^``ā^åA à^ Ác@ ÁÔãĉ q ÁÜ^\* ā[} æ\$AP[`•ā] \* ÁÞ^^å• ÁO#[[ &ææā] } ÁÇÜPÞOEDÁ-[ ¦Ác@ ÁGEFJÉGEG" ÁP[`•ā] \* ÁO|^{ ^} cÁ Ú|æ)}ðj\*ÁÔ^&|^ÁQ;^^ÁÛ^&a‡i}ÁFIÉÁÚ[]`|æe‡i}Åæ)åÁP[`•ðj\*ÉÁ,~Ás@áÁQ;ããæe¦ÁÙčå^Á{;¦Á;[¦^Á§;-{¦{æe‡i}DÉÁ Á Ø[¦Áx@/Á^æe[}•Á[^}cā[}^åÁeaà[ç^Êx@AÚ|[b/8cÁ[`|åÁà^Á&[}•ã:c^}c^}a@áx@AÔãĉ qAÕ^}^}a¦æAÚ|æ}Áæ}åÁ

P[,^ç^¦Éźc@^Áj ¦[][•^åÁÖ^ç^|[]{^}œ´CE`¦^^{,^}@´, [`jåÁ'^•dã&œ´å^ç^|[]{ ^}œ´d[Á[}^Á•ā]\*|^Áæ@{āîÁ å (^||ð] \* Á] ^¦Á] æ}&^|Áæ} åÁ] } ^ÁŒÖWÁÇ¢&^] cÁ[ ¦Áð] Á&æe ^●Á ^¦^Ác@Á•|[ ] ^Á^¢&^^å•Á €A] ^¦&^} ŒA ^¦Ác@Á Ôãô qrÁPāļ|•ãå^ÁÚ ç^¦|æêÁÚ¦åājæ);&^DÉA[¦ÁæÁq[œa‡Á[-Á]Áq[FIÁ'}ão•EÉŰFÉPÁ[}ā]\*Á/^``ã^•ÁœÁ(ājā[`{Á[cÁ •ã^Á; ÁF€ÉECEÁ; ÁQEÈCHÁæ&¦^DÁ;[¦Á]; æ\&^|•Á; ãc@¢æÁ;|[]^Á`]Á(; ÁOEà LÁ; ājā; `{ Á[; c4; ã^Aā;; &\^æ^•Áæ; Ác@:Á • [[] ^ Á[ Á@ Á] æ& (Á] & A æ ^ Éæ Á[ č d] ^ å Á] ÁNÔÔÂU ^ & [] ÁJ FHJ ÉA HIIIside Development StandardsÉA Ô[}●ã ơ}ơ} ẩ @k@•^Á œ) 忦å•Êk@Á^•č|@]\*Ájæk&\Á&[}~ã覿aã[}Áj¦[][•^•Ă ЁĘÁæ&¦^ÁÔ^ç^|[]{\_^}ơÁ Úæ3&^|•Ác@æaÁ,[``|åÁà^Á1] ¦^:[}^åÁ%ÜJFËP+ÈÁP`||ÁÚ¦[]^¦caA•Á\^&^} d^Á\^&[¦å^åÁ•^``^}caæ4ÁŠ[cÁŠą]^Á O5åbੱ∙q{^}o•Ác@{[`\*@Ác@·ÁÔ[`}c`q•Á{ąĩārc∿¦ãa‡Á]¦[&^åč¦^•Áaè}åÁ,ą̃ļÁ•`à{ãaÁ•^``^}cãa‡ÁŠ[cÁŠąī^Á ¦^•`|cāj\*Áj¦[][•^åAjæt8^|Á&[}~at`¦æaāt}}Á{[¦Ás@ÁÖ^ç^|[]{ ^}otŰæt8^|•ÈXOEX8[]^AjadovAajækA^8[¦å^åAŠ[otA Ö^ç^|[]{^}ơÁJæla&^|●ÁLÉËÉÄÜ^çã³, Á[Á®@ÁŠ[ơŠð]^ÁQEåbĕ•q{^}œÁ, á]A&^Á&[}åĭ&c^åAsî^Ás@AÔãĉÁÒ}\*ã]^^¦Á ] | ā[ | Á[ Á^ &[ | åæaā] } Á[ ~Á@ Áā] æ Á[ æ] • Á[ Á^} • ` |^ Á@æ Áæ| Áå^ç^|[ ] { ^} o Á æ) åæ å • Á8[ } æ ā] ^å Á ão @ Á ÜFËPÁ[}ā]\*Á&ã:dā&óÆ&^Á[^dĚ/20\*¦c@;lĚfc@[`\*@6@ÁM+^ÁÚ^;{ãÁ];[&^++ÁQ;¦ÁÚæ;&^|+Á.É.DÁæ;àÁÔÔBÜÁ ¦^\*`|æāį)́•ÁĢ[¦ÁÚæ&^|•ÁFËDÁ^æ&@Á]¦[][́•^åÁ@{{ ^A, [`|åÁà^Á•``àb^&ơÁq Áæ|ÁÜËFPÁå^ç^|[]{ ^}ơÁ ¦^\*`|æen }•ÁQ &|`åā;\*Á+|[]^É+å^}•ãĉÉ+^càæ&\•É4@?ä@É+á^Á+æ^ĉÁe)åA, æv\¦Á'^``ā^{^}œÉ+æ&&^•A ¦^``ã^{ ^} œ É^^ c& E^A (s) p É^^ c& A (a cog) ^ a Á (a cog) Á co@ Á P ã|• ãa ^ Á U ç^¦ | æ Á Ö ã d ã k dĚ Ö^ ç^ |[ ] { ^} o Á (a cog) Á co@ Á P ã|• ãa ^ Á Uç^¦æ`ÁÖã dã&oÁã &|`å^•Á•`à{ãœa‡Á[~Áœ<sup>®</sup>Á-{ ||[, ã \* kÁ•[ãÁæ) åÁ\*^[ ||[\*ã&a‡Á¦^] [ ¦œ`ÉÁ•`à•`¦~æ&^Á ą̃ç^∙cataeaqā}•EA\*¦æaaqā\*Á]|æ}•EAç^\*^cœaqā}}Á'^][¦o•EA\*¦æaaqā\*Á]|æ}•EA@a'|[|[\*^Á'^][¦o•EAæ}aA\*d`&c`¦^Á

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#### Table 2. City of Ukiah Ambient Base Noise Levels

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Table 3. Maximum Noise Levels Associated with Typical Construction Equipment

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Source: Federal Highway Administration. 2006. Roadway Construction Noise Model (FHWA-HEP-

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G][b]ZWUbWY7f]HYf]U. ``V@Á¦[][•^åÁÚ¦[b/&oá{[`|åÁ^•`|oÁ§Á∄}ã&æa)oÁ§[]æ&orÁ§ÁœAÁ[&æa4Á[]`|ææ§[}Á [¦ÁQ`•ā]\*Áq[&\Á\$aÁáóÁsā^&q^Á;¦Á§)åã^^&q^Á§jå`&^åÁ`à•œa)cãædÁ}]]æ}}^åÁ[]`|ææ§[}Á‡[],c@§(;Á§jå]aã^^åÁ æÆ\*`à•œa)cãædÁ;`{à^¦Á[-Á]^[]|^Á;¦ÁQ2`•ā]\*Á\*`&@Ác@æeÁc@Á&[}•d`&cā]}Á[,A^^]]æ&^{{^}}oÁQ2`•ā]\*Á;[`|åÁ à^Á^``ã^åĚÅ

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9 bj]fc ba YbhU`GYhhjb[.ÁV@ÁÔāčÁ[-ÁW\ãæ@Á&[{]¦ār^•Á[-Áæn]]¦[¢ā[æe^\^Á hĔ GÁ+``æŀ^Á(ā/^é, á@3)Á T^}å[&ā][ÁÔ[`}čĖÓD&&[¦åā]\*Át[Át@ÁÔæqáā[¦}ãædŐ^]æd(^}ơ∱AZājæa)&^Êb@A[[]`|ææā[}ÁbjÁc@ÁÔ[`}ćÁ [-ÁT^}å[&ā][Á,æa Á[JÊ]lÍÁājÁGEEFÌÁæa)åÁFÊ ÉBCEÎÁājÁc@ÁÔãčÁ[-ÁW\ãæ@AŽV@ÁÔãčqAæa}}`ædÁ\*¦[,coáAæe^Á à^ç^^}ÁFJJ€Áæa)åÁGEEFÌÁæç^¦æ\*^åÁæa]]¦[¢ã[æev|^ÁEÈHÃĚÁÓ^ç^^}ÁGEEE€Áæa)åÁGEEEEÁx@ÁÔãčÁæåå^åÁIIÍÁ ¦^•ãa^}orÉA[¦ÁHÈĨÃÉAt[ÁaerÁ]]`|æaā[}ĚAUç^¦æa|ÉAv@ÁÔãčÁ[-ÁW\ãæ@anÁ][]`|æaā[}Á@ee Áaj&\^æo^åÁt[ [å^¦æev|^Á

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I \_]U, 'K YghYfb'<]``g'CdYb'@ubX'5Wei ]g]l]cb'UbX'@a ]hYX'8Yj Ycda Ybh5[ fYYa Ybh'' Final Draft Initial Study and Mitigated Negative DeclarationÁ Ôã: Á -ÁW ac@Á Á [ç^\ká@^kjæeo%j^ædj^khHEÁ^æd•EÅjão@aba4k;[¦^káa&&&v|^\æevå&aj&ki^æev^Aaj&á@o%qeeo%q[`\Á^æd•EÅU\[b^&caj}+Á\[{Á c@^ÁÔæqlã[\}ãæÁÙcæevÁW}ãç^\+•ãĉÁÔ@a&[ÁÔ^}cv\Á-{\ÁO&[}[{ &&ÁÖ^ç^|[]{ ^}dŐAT^}å[&3][ÁÔ[`}ĉÁ Ò&[}[{ &&EDÖ^{{ [\*|æ]}@a&AÚ\[-a]^Á\*@[, Áso@náki^}åA&[}cāj`āj\*EÅ Á

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W}å^¦Ás@AÔ[`}c`q+ÁÕ^}^¦æ¦ÁÚ|æ)Áse)ákz[}∄;\*ÁU¦åãjæ)&^Êas@A^}cã^c`Á,~Ás@A΀ÏÁse&¦^•Á@ee Ás@A[[c^}cãedÁ d[Áà^Áå^ç^|[]^åÁ;ãc@Á]Ád[Á;}^Áå;^||ã;\*Á;^¦Á €Áæ&¦^•ÉÁ[¦ÁæÁ4[cæ4Á;ÁFÏÁ;¦ã;æ^Â&;^||ã;\*•ÈÁQ,Áæååããa;}ÉÁ æ) ÁÐEÖWA(xæ) ÁsvÁs([}•d`&cvå ÁserA(xÁt) @A(x) Áræ&@A(x) Áræ&@A(xe) @A(xe) (@) \* ÁsjÁs@ A((cv) @æ4A(xA) Ás(xe) A(xe) Áà^Áå^ç^|[]^åÉAV@ÁÔãĉÁţÁŴXãæ@qÁÔ^}^¦æÁÚ|æ}Áæ}åÁ`•^Áå^•ã\*}æa‡[}ÁţÁŠ[\_ÁÔ^}•ãĉÁÜ^•ãå^}œãaA` ÇŠÖÜDÁœ4 [[、•Á[¦Áœ4å^}•ãĉÁ[, Á\*ā¢Áå、^||ā]\*Á'}ãr•Á] ^¦Áæ&!^Ě4N} å^¦Ác@•^Á!^\*`|æaā[}•É4c@A″I Áœ&!^•Á[¦Á ¦^∙ãå^}cãæ‡Áå^ç^|[]{^}cÁ&[`|åÁ&[}&^ãçæà|^Áà^Áå^ç^|[]^åÁ;ãc@Á`]Á§[Á+H€Á]ão•ÉAP[、^ç^¦ÉA©@Á,¦[][●^åÁ .0EÖWKkŞ¢&^]cAşk&æe^•Á,@¦^Ás@Á|[]^Á\*¢&^^å•Á.€Aj^¦&^}dEAj^¦Ás@ÁÔãĉqrÁPā]•ãa^ÁJç^¦|æÂJ¦åājæ)}&^DEÁ -{ \ÁæÁţ œ4Á Ă ] Áţ FI Á } ão ĖOĘcQ \* @Ö^ç^|[] { ^} oÁÚæ3&^|• ÁFËHÁ æ Áà^Áà^ç^|[] ^ åÁ ão@3 Á@ ÁÔ[ ` } c`q Á bő ¦ãrå åã&ca[; ] Á] ¦ā[; | Áq: Áæ) { ^ ¢æca[; } Áà^ Ëāt@ÉÉc@^^ Á, ʿā|Áà^Á'^``ā^åÁq: Áà^Áå^ç^|[`] ^ åÁq: ÁÜ FËPÁ+cæ) åæbå•Á c@[`\*@ÅÔÔBÜ•ÈAOĦĂŎ^ç^|[]{`^} xÁJæ&^|•Á;[`|åÁä^Á;\^:[}^å&{KIPËPÁÇão@&xKS[\_, KÖ^}•ãcAU^•ãa^} cædÁ Ô^}^¦æþÁÚ|æþÁæþåÁ`•^Áå^•ã`}ææãį}DÁæþåÁæb^Á[[&æe¢åÁ,ãc@3)Ác@ÁUÍqÁÔ^}^¦æþÁÚ|æþqÁW}ãj&[¦][¦æe¢åÁ Ú|æ)}ðj\*Á0E^æÉæeÁ,^||ÁæeÁc@Á&`;¦^}cÁVXOEÚÐÙUQÅa[`}åæ^ÉÄV@Áj;¦[][•^åÁÔ^ç^|[]{ ^}cÁÚæ&^\•Áæ'^Á &{}•ã:c^}oÁ,ão@ko@A\$a^}•ãĉAse)åA\$j:c^}oA;Ako@A\$ÔÜA;ae)åA`•^A\$a^•ã`}aæa[}Ase)åAÜFPA`[}ãj\*ÉAÖEååãaā[}ae|^ÉA { [å^¦æe^Át[Áæà[ç^Át[å^¦æe^Á\$)&[{ ^Á\*}ão•Á^ĭ ăo•áÅà^Ádo@ÁÔãô:qAÜPÞOEÁ{¦Ác@AGEFJÉG∈GÏÁÚ|æ}}ãj\*Á Ô^&|^ĔÁ

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adðÜ^•`  díāj Á` à• cæ) دَشَطِهُمَعَهُ جَ\•^Áj @• akædáti ] عدى أحوه أحوه [ المُشَعَّدُ المُعُمَّمَ يَ مَنْ الْحَمَّةُ ] [ جَمَّتُهُ ] أَرْ جَامَ مَنْ الْحَمَّةُ الْحَمَّةُ ] مَعْدَ الْحَمَّةُ ] مَعْدَ الْحَمَّ معتقبَقَتَهُ اللَّهُ إِنَّالَةُ اللَّهُ مَا الْحَمَّةُ اللَّهُ مَا الْحَمَّةُ ] أَنْ الْحَمَّةُ إِنَّا الْحَمَ معتقبَقَتَهُ اللَّهُ مَا إِنَّا الْحَمَّةُ اللَّهُ مَا اللَّهُ مَا إِلَى الْحَمَّةُ الْحَمَّةُ اللَّهُ مَا الْحَمَّةُ اللَّهُ مَعْلَمُ اللَّهُ مَعْلَمُ معتقبَقَتَهُ اللَّهُ مَا إِنَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا الْحَمَّةُ مَا الْحَمَّةُ مَا اللَّهُ مَعْلَمُ الْحَمَّةُ اللَّهُ مَا اللَّهُ مَا اللَّعَامُ اللَّهُ مَا اللَّهُ مَا اللَّعَلَمُ اللَّعَامُ مَا اللَّعَ مَعْلَمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ مَا اللَّعَلَمُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ مَعْلَمُ اللَّهُ اللَّهُ اللَّهُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّهُ عَلَى اللَّعَامُ اللَّهُ عَلَى اللَّ الْحَمَّ اللَّهُ اللَّهُ اللَّهُ عَلَى اللَّعَامُ اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّهُ عَلَى اللَّعَلَى اللَّ الْحَمَّ اللَّهُ اللَّعَلَى اللَّعَلَى الْحَمَّ اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّهُ اللَّعَلَى الْعَلَى الْعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّهُ اللَّعَ مَعْلَمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَى عَلَى اللَّعَلَى اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّعَلَى اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَى اللَّعَلَى اللَّعَلَى اللَّعَلَى اللَّهُ مَا الْعَلَى الْعَلَى اللَّهُ عَلَى الْعَلَى الْحَمَالَةُ مَا الْحَمَالَةُ الْحَمَالَةُ الْحَمَّةُ الْحَمَّةُ الْحَمَّةُ اللَّهُ اللَّهُ مَا عَلَى الْحَمَّةُ اللَّهُ عَلَى الْحَمَّةُ اللَّهُ الْحَمَّةُ اللَّهُ عَلَى الْحَمَالِ اللَّهُ عَلَى الْحَمَاعُ اللَّهُ عَلَى الْعَلَى اللَّعَلَى الْحَمَ عَلَى الْحَمَالَةُ اللَّهُ اللَّالَةُ اللَّهُ اللَّهُ عَلَى الْحَمَالَةُ اللَّالِ اللَّكَمَا اللَّكُومَ الْحَالِي اللَّ عَلَى اللَّالِعَلَى اللَّعَلَى الْحَمَاعَالَي الْحَمَاعُ الْحَمَا عَلَى الْعَلَى الْعَلَى الْعَلَى الْحَالَةُ الْحَلَ		Á	Á	Á
Øã^Á;¦[ơ\&cā;}ÑÁ	∏Á	∏Á	⊠Á	∏Á
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Ù&@[ •ÑÁ	□Á	□Á	⊠Á	∏Á
Úæ∖∙ÑÁ	∏Á	∏Á	⊠Á	ШÁ
Uc@⊹Áj`à a&Áæsajäa?t•ÑÁ	∏Á	∏Á	⊠Á	ШÁ

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G][b]ZWLbWY7f]HYf]U. V@ÁÚ¦[b/&oÁ[ĭ|åÁ^•ĭ|oÁ\$[ÁœÁ\*ð]}ã&Bæ}oÁ\$[]æ&oÁ\$[Á`à|&A^+\ç&A^+¢&A^+(c\*A^+)[c\*àÁ ąĨĂœÁ^˘˘ā^{^}œĂį¦Ăąi&¦^æ^åĂ;¦Á¢]æ}å^åÁ;`à|a&Á^\;ca&^Áæ&ajããã•Á;¦Á;œ-ąi\*Éáai&;`åai\*Áa^Á;¦Á[|a&^Á ]¦[c^&cā[}ÈÊ4&@[[|●Áæ);åÁ,æ¦\●ÉÁÁ

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9 bj]fcbaYbHJ`GYH1jb[.ÁÚ[|a&^Á;\[c^&ca];}Á\*^\ça&^•Á{[¦Ác@/Á^}cā^ÁÔāĉÁa] aē•ÁārÁ;\[çaã^å/áà`Ác@/Á/\\ãe@Á Ú[|a&^ÁÖ^]æld(^}dÆ),@a^Ác@AT^}å[&a][ÁÔ[`}cÂÙ@\¦lã+qeÁÖ^]æld(^}o4);[;aa^•Á][|a&^Á+^\;ca&^•Á[|Á  $a d^{2} a d^{2} = \frac{1}{2} \left[ \frac{1}{2} a d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d^{2} d$ Xæ|^^Á26ā^ÁQEcq0;¦ãcÁse)åÁÔæ4ã[¦}ãæ4Ô^]æ4q[^}q4,420[¦^•d^Áse)åÁ26ā^ÁÚ|[c<sup>6</sup>&dā]}ÁQÔæ4Á26ā^DĚÁÔå\*&æe4ã}}æ4Á U~a&^Á[ÁÔå`&ææā]} ÉÉee) å Ác@ÁT^} å[&a] [ÉŠæè^ÁÔ[{{`}}ãĉ ÁÔ[||^\*^ÁÔã d a&dÉA/@\^Áee^Áeo[Á+^ç^¦æ¢Á ]¦ãçæe^Áæ)åÁ&@ee!c^¦Á\*&@[[|•Á\*^¦çã]\*Á^•ãå^}c•Á;ãc@ã)Ác@ÁÔãc`Á;~ÁW.ãee@Éæe:Á;^||Áæe:Ác@A´}ã;&[;'][¦æe^åA .c@;¦^Áæ!^ÁFHÁÔãĉ Á,æ\•Ê‱á{``} 3&a];æ|Á\*[|~Á&[`¦•^Êæ);åÁæ4\\æe^Á];æ\Á;æ}A;æ\Á;æ}æ\*^á,æ}A  $^{||_{ABC}}$  A (  $^{|_{ABC}}$  A (  $^{|$ 

8]gW/gg]cb./ftUL/@/gg`h\Ub`g][b]Z]WUbhi]adUW/l/QTpc@`\*@A[[Ásh^ç^|[]{^}o/\$r/A;\[][•^åAeer/ko@r/kā;^ÊfaA  $\tilde{a} \dot{A} \tilde{a} \bullet \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{A} \tilde{a} \dot{$ C]ÁţÁFIÁ}ão•DÁţ}Ás@AÁãxAÉÞA^. Á@{{ ^•ÁξiÁs@ÁÔãĉ eŗÁŏ¦ã\*åã&cãţ}Á [č|åÅà^Áx^¦c^åÅà^Ás@ÁÔãĉ eŗÁÚ[|ã&^Á Ö^]æld(^}c/æ)åÁo@oÁNXãæ@ÁXæ|^^Á2ã^Áæĕc@;¦ãĉÉÁV@ãAÁ;ãjã[ækÁ§&l^æ•^Á§jÁ\*^¦çã&^Áæ!^æÁ;[ĭ|åÁ;[oÁà^Á

&[}•ãā^¦^åÁ\*ā\*}ã&Bæ}dÉæeÁā^Áæ}åÁj[|&B^Á&] æ&dÁ^^•Áæ^Á&[||^&&c^åÁ{[¦A;^, Á&[}•d`&aj}Å{[Á;~•^d&@A ~ã;æ}&ãæ‡Áa`¦å^}Áx@æeÁ,^, Aa^ç^|[]{ ^}d&æ}Áj[c^}aæd^A&]^æ^A[¦Áx@Aã^Aa^]æd{ ^}d&A

$$\begin{split} \dot{U}_{a} = \frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$$

. Šæe d^ÊÁæe Áåãe & ٘ ••^åÁðjÁÙ^&aðil }ÁFÎÊÁÜ^&¦^æaðil }ÊÁc@ Áðj&¦^æe ^ÁðjÁ¦^•ãå^}aãe,Ajãe,Ajãe Áj[č|åÁ}[oÁà^Á &[}•ãå^¦^åÁe ðiðjá&æðjóæðjåÁčč¦^Åå^ç^|[]{^}oÁj[č|åÁà^Á^ččā^åAát[ÁjæâÁjæAkét[jæbákæðjáæð-Ásí]æ&oÁ^^•ÊAj@&&@Áæ^Á čj•^åÁt[Áæe ðiðjÁs@Áå^ç^|[]{^}oÁæðjåÁtæðjc^}æðj&^Át[×Ájæk\•ÁæðjåÁ^&t]^Áæðiðaæðjáæði•ÈÁ

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Ø č¦^Á¦^•ãå^}cãæþÁå^ç^|[]{^}cÁ [`|åÁà^Áæ••^••^åÉæ)åÁã[]æ&oÁ^^•Á[¦Áæ|Áæ;[¦^{ ^}cã]}^åÁ]`à|ã&Á •^¦çã&^•Á [`|åÁà^Á&[||^&c^åÁå`¦ā]\*Áœ)ÁÓ`ā¦åā]\*ÁÚ^¦{ãơ}]¦[&^••ÈOEÁ\*`&@Êc@ÁÚ¦[b^&oÁ,[`|åÁ@æç^ÁæÁ `Ygg'h Ub`g][b]Z]VUDbh]adUWWÁ;}Á`à|ã&Á^¦çã&^•È

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àDÁÖ[^•Ác@Á; [b/8có¥g8]čå^Ár^&¦^ææn[]æd/ææð[afa3?•Á;¦Á^~ča*Ác@Á 8[}•d`&cā]}Á;!Á*¢]æ)•ã]}Á;Ár%&¦^ææn[]æd/ææð[afa3?•Á;@a8@á;ā@A @æçrÁæ)Áæåç^!•^Á;@•a8æd/v~~8có{{}Ác@Á*}çā[}{ ^}dÑÁ	∏Á	ШÁ	МÁ	∐Á

G][b]Z]VUbVW77f]hYf]U.`Q] æ&or Át[Á^&¦^ææa‡}Á [č|åÁà^Árãt}ãææa)ofāÁ@AÚ¦[b\&ofA/•č|d^åÁ§,Á§,&¦^æe^åÁ \*•^Á[-Á^¢ãrcā]\*Á] æ\•Á[¦Á¦^&¦^ææa‡}æ4Á-ææa‡ãaāa)•Ád[Ác@Á^¢c^}ofAc@æeA•čà•cæa}cãæ4Áå^c^¦á‡¦ææa‡}Á, æe Á æ&&^|^¦æe^åA{;¦Æu&@AÚ¦[b\&of§;ç[|ç^åÁs@Æa^ç^|[]{ ^}ofA;Å?¢]æ}•ã‡}A{;~Á^&'^ææa‡}æ4Áæ&a‡ãaãa)•Ás@æeÅ[č|åÁ @æç^Áæ}Áæåç^¦•^Á~-^&of{;}Ás@A;@•æ&æ4Á\*}çã[]{ ^}dĚÁ Á

9 bj]fcbaYbhU`GYhh]b[.Á/@ÁN\ãæ@ÁXæ|^^Á, ~^¦•ÁæÁ, ãå^Áçæa'ð c´Á, Á^&¦^æanţ} ædÁ,]][¦c`}ãað•ÈÁ/@•^Á āj&|`å^Á([¦^Ác@e)ÁFHÁÔãc´A;æ\•Éæé(`}å&a]æhá\*[|-Á&|`¦•^Éæe)åÁæá+\æc^Á;æ\Á(æ)æ\*^á,ka`Ac@ÁÔãc´A; Á W\ãæ@Aç,[Á^\*ā]}æhÁ;æ\•Á(æ)æ\*^å,ka`Ac@ÁÔ[`}c`LÁÔ[, ÁT[`}ææajÁÜ/&&¦^æaa‡}ÅŒ!^æák;æ\* åÅa`Ác@Á Ó`¦^æčAţ-ÁŠæe)åÁTæ}æ\*^{ ^}dÆeyåÅŠæ}^AT^}å[&ā][Á;æ)æ\*^åÅa`Ac@ÁNÙÁOE{ ^ÁÔ[']•Áţ-ÁÔ}\*āj^^\•ÈÁQÁ æååãaā}È£c@¦^Áæ4^Áæa]]¦[¢ã]æ\*\`ÁH€Áţā/•Áţ-Ád;æanţA[&æ\*\åÁs@[`\*@]`ók@ÁN\ǎæ@ÁN\ãæ@Áxæ4\^ÈÁ

## %+" HfUbgdcfHUhjcb

HF5BGDCFH5H+CB"ÁÁY[č åÁk@?Á;¦[b%&dÁ	Ú[c^}caaa)^Á Ùa*}aa&aa)oÁ Q:]aa&oÁ	Š^••ÁV@æ)Á Ùa*}ãa3æ)oÁ ,ãc@Á Tãa#æaa[}Á		Þ[ÁQ:]æ&oÁ
æĐÁ Ô[}-¦aBưÁ, ão@ÁæÁ]¦[*¦æ∉ ÊÁ] æ)ÊÁ[¦åā]æ)&^Á[¦Á][ja3:Á æåå¦^••ā]*Áo@Á&ã&` æaā]}Ár^•c^{{EÁB}&]∛a3]*Ádæ)•ãEÁ[æå, æêÊÁ àa&`& ^Áe)åÁ,^å^•dæ)Áæ&aãa≊•ÑÁ	∐Á	∏Á	МÁ	∐Á
àDXÔ[}-¦-138con[¦Ás^Asj&[}•ã:cr}c/}c/,ãc@AÔOÙODAÕĭãa^ ā]^•a/na/Afí€Î ÈHÃA •`àåãçãã∦}A(3aDBAÔ¦ãcr¦ãacA[¦ÁOEjæ†:;ā]*A/¦æ-38AAQ]æ&crÑÁ	ШÁ	∏Á	⊠Á	∏Á
80ÁÙ čè cæ) cãng¦^ Án 38, ^æ ^ Á@ee æ'å • Án ` ^Át Ánext ^ [ { ^ d 38, Án • ã } Á -^æč ¦^ÁQ È ⊞A • @ed ] Á&` ¦ç^ • Át ¦ Áa æ) * ^ [ ` • Án • A • ^ & at } • DÁ( ¦Á a] 8.[ { ] æaa  ^Á • ^ • Áo, È ⊞Áæ { Á` ` a] { ^} dDÑÁ	∏Á	ШÁ	МÁ	∏Á
åDÃÜ^∙` d\$ji,Áşi;æ≜^``æ⊵^Á{{ ^¦*^}&`Áæ&&&^••ÑÁ	ШÁ	□Á	⊠Á	∏Á

G][b]ZWUbWY7f]HYf]U.ÁQ] æsor Á{Á\æ}•][\ææā] } Ás) å Á\æ~æÅ [`|å Á\A Å å } ã ææ) ofsi Á@ Á\\[b\&ofsi [} +&ofsi A ā@ÁœÁ[[&æ4Á] |æ] ÉA[|&å]] æ} &^ A[|A][|& Aœsi a\~••] \* Á\æ] \* Á\æ] \* á\æ] \* ā\æ] \* á\æ] \* á\æ] \* á\æ] \* á\æ] \* &[] +&ofsi A &[] +&ofsi A &[] +&ofsi A &[] +&ofsi A &[] +&ofsi A &[] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &] &&ofsi A &

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Q ÁGEFÌ Éko@ ÁU ~-3&^ÁĮ ~ÁÚ|æ}} āj \* Áeðj å ÁÜ^•^æ&@ÁQUÚÜDÁJ \* à lã @ å ÁezÁ/^&@ 38ædÁOtåçã [ ¦^Á] } ÁE valuating Transportation Impacts in CEQA QGEFÌ DÁ, @38@Ár Áðj c\*}å^å ák[ Á]:[çãā^Áezáçã&/Áeðj å Á^&[ { { } å ææajī} • Á[ ¦Á ^çætřæzāj \* ÁXT VÉÅ, @38@Áret\*^} & &ð • Áeðj å Á[ c@:!Á\*} orazð • Á[ æĉ Á • ^ Áezá Azeáçã&/ Áeðj å Á^&[ { { } å ææajī} • Á[ ¦Á ^çætřæzāj \* ÁXT VÉÅ, @38@Áret\*^} & &ð • Áeðj å Á[ c@:!Á\*} orazð • Á[ æĉ Á • ^ Áezá Azeá/œðj å Áå &] { { } } å ææajī} • Á[ ¦Á ^çætřæzāj \* ÁXT VÉÅ, @38@Áret\*^} & &ð • Áeðj å Á[ c@:!Á\*} orazð • Á[ æĉ Á • ^ Áezá Azeá/œðj å Áå &] \* ÉOE Ábá & \* • ^ å Á\*; !c@:!Á à^[[ ] Éb@ Á/^&@ 38æa/Azeácē [ ¦^Á] ~~!• Ás@ezeá &!^^} ð \* Ás@^• @[ |å • Á]; æĉ Á • ^ áka/Á • ^ å Ás[ Ása ^}; œ? Á; @} Áeðj å Á • ^ Á à ^ [] [ b\* &o ÉA \* &@Áse Á { æljÁ\* &æd^ Á^• orazÅ} cãædÁ]; [ b\* &o ÉA @ \* |å /ás^ A\* ¢] ^ &c\* å Ás[ Ásæ\* • ^ Áezá/• • Ec@eðj Ée ð] ã ã &æðj o Á aj ] æsoÁ; ão@ \* óks[ } å \* &cðj \* Ásaás^cæðj å ákiæ-æðká č å ČÁ

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U}Áa^@edp-Át,~Áx@AT^}å[&ä][ÁÔ[`}&ä]Át,~ÁÕ[ç^\}{ ^} or ÁÇTÔUÕDDÉØ @ABÁÚ^^\+ÉA,\] advá ÁzeÁU^}æc^AÓa]Á ÏIHÁX^@a&\^ÁTā/^•ÁV¦æç^|^åÁÜ^\*ā]}adÁÓæe^|ā]^ÁUčå^ÁQÓæe^|ā]^ÁUčå^ÁQÓæe^|ā]^ÁUčå^LÁTæÊÉQEGEDÁd[Á] ¦[çãå^Áæ)Á [ç^\çãr, Át,~ÁÙÓÁIIHÉA\*`{ { adā ^ÁXTVÁazezAsezasabæ;zasjazaà|^Á[¦ÁT^}å[&ā][ÁÔ[`}ĉÊÉAăã&`\*•Áqec^\}æzā;^•Á{! a) åÁ^&[{ { ^} åÁXTVÁt^æ\*`\^{ ^> c@}å^Áa} áko@^•@[å\*Át]'ÁT^}å[&ā][ÁÔ[``}ĉÊÉAăã&`\*\*Áqec'\}æzā;^\*Át^}á a) åÁ^&[{ { ^} åÁXTVÁt^æ\*`\^{ ^> a} áA( a) ad ( a) ad ( ~) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad ( a) ad

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OE Á [ c\*å Áşi Ás@ ÁÓæe ^ |ā] ^ ÁÙč å ^ Éği ^¦ ÁÔÒÙ OZÃÕ ăă ^ |ā] ^• ÁÙ^ & cāj } Árí €Î I È HÉşi ^ @BA|^ Á, ā ^• Ásiæç ^ |^ å Á[ ¦ Áœj å Á \*• ^ Áj ¦ [ b\* & o Á^ ¢ & ^ å āj \* Áœj Áæj ] |ā5æaà |^ Ác@^• @ |å Á] ~ Á\* ā } ãā5æa} & ^ Á( æb ¦ Ád æ) å ä58æe ^ Áæá\* ā } ãā5æa) o Áāj ] æ8dĚA Õ^ } ^ !æ]^ ÉÝ] ¦ [ b\* & o Á árc@j Á[ } ^ É@e‡ Á( ä]^ Á[ ~Á\* árc@ ! Áæj Á ¢æi cāj \* Á( æb ¦ Ád æ) • ár ⁄ d[ ] Á[ ¦ Áœź\* d] ] æ8dĚA ^ ¢ār cāj \* Á@ā @Á `æ‡āî Ásiæ) • ãrÁs[ ¦ 1 ãá[ ¦ Á @ ` |å Ási ^ Á; ^ \* árð á Ási / Å æb ¦ Ád æ) • ár ⁄ d[ ] Á[ ¦ Áœź\* d] } Åæð Á ^ ¢ār cāj \* Á@ā @Á `æ‡ãî Ásiæ) • ãrÁs[ ¦ 1 ãá[ ¦ Á @ ` |å Ási ^ Á; \\*\* { ^å Ási / Åeð Á ^ ¢ār cāj \* Á@ā @Á `æ‡ãî Ásiæ) • ãrÁs[ ¦ 1 ãá[ ¦ Á @ ` |å Ási ^ Á; \\*\* { ^å Ási / Åeð / Åeæi / Åeæi / Å ^ ¢ār cāj \* Á@ā @Á `æ‡ãî Ásiæ) • ãrÁs[ ¦ 1 ási [ ¦ Á @ ` |å Ási ^ Á; \\*\* { ^å Åsi / Åeð / Å ã ] æ8dĚQ Áœå åãrāj } ÉÁj ¦ [ b\* & o Ác@æa ⁄ å < Ae ^ Áç^ @B4|^ Á( ä]^ • Ád æç^ / å Áðj Ác@ Áj ¦ [ b\* & ó Ae ^ æA8[ { ] æ ^ å Á ( Á ^ ¢ār cāj \* Á8[ } å ãaāj } • Á @ ` |å Ási ^ Á; !^ • ` { ^å Å [ Á@æç ^ Áscá/ • • Ás@eð Á ð ] ãa5æð ó Ásiæ) • ] [ ¦ cæaāj } Ási ^ ćā cāj \* Á8[ } å ãaāj } • Á @ ` |å Ási ^ Á; !^ • ` { ^å Ási / Áœç ^ Æa/ • • Ás@eð Á ð ] ãa5æð ó Ásiæ) • ] [ ¦ cæaāj } Ási Á

GÁ ¢ã cā) \* Á; [å^|• Á; ¦Á; ^ حوك à• Ást-^Á; [okseçæafaæa) / Áti Á• cā; ær Ás@ Áç^@aß / Á; ā^• Átæç / / å Át ¦Ás@ Á, æ daß vi | æ Á ] ¦[b/ &o Ás/ à \* Á&[} • ãa ^ ¦ ^ å Ékæá/ كَشَرُهُ \* ؟ & ʿÁ; æ Ásej æ‡ : ^ Ás@ Á; ¦[b/ &one Áç^@aß / Áti ā/• Átæç / / å Á ` æ faïzæaã; ^ / ÈÁ Ŭ ` & @áseÁ ` æfaïzæaã; ^ Ásej æ Á [ ` | å Á çæ] ` ær Áæsko[ ¦ • Á ` & @áse Ás@ Áseçæafæaiājāî Á; -Átiæ) • ã Éá å ^ • cāj æaāj } • ÉA c& Éáo[ ¦Á; æ] ^ Á; ¦[b/ &on ÉáseÁ ` æfaïzæãç: ^ Ásej æf ` ě á Á; -Áse] } • d` & cāj } Átiæ-ætÁ; æ Ási ^ Ási ^ Ásej ] ¦[] ¦ãær ÈÁ Át

9 bj]fc ba YbhU`GYhhjb[.``V@ ÁÔãĉ Á[-ÁN\\ãee@A^}^¦æ||^Áð\•Á ^•oA[-ÁNÈÙÈÁEEF&a^ç\_^^} Á@ ÁNÈÙÈÁEEFD>[¦c@Á Ùcæe^ÁÙd^^oÁsj cº¦&@a)\*^Êáej å Á@ ÁNÈÙÈÁEEFAÉÀU[`c@ÁUcæe^ÁÙd^^oÁsj cº¦&@a)\*^ÈÁ/@^^Á[æssi lÁsj cº¦&@a)\*^•Á æ[] \* ÁNÈÙÉÁEEFÉA/æ{{ æ\*^ÂÜ[æåÊÃÕ[ààãÂUd^^dÉáej å ÁÛ/°¦\ğ]•ÂÙd^^oÁGF[{ Á[`c@Áz[Á][c@DÉÅ];[çãa^Ása&&^••Á d[ Á\*[`c@:}] Áæj å Á&^} dæ ÁA\ ãædĚA/@ ÁÔãĉ Á[-ÁA\ ãædÁa Åå^ç^|[]^å Áġ ÁœÁcî] ãædÁ\*¦äa Á]ææc'}} Á a@[^ A\*[`c@:}] Áæj å Á&^} dæ ÁA\ ãædĚA/@ ÁÔãĉ Á[-ÁA\ ãædÁa Åå^ç^|[]^å Áġ ÁœÁcî] ãædÁ\*¦äa Á]ææc'} Á a (Å [`c@:]} Áæj å Á&^} dæ ÁA\ ãædĚA/@ ÁÔãĉ Á[-ÁA\ ãædÁa Åå^ç^|[]^å Áġ ÁœÁcî] ãædÁ\*; a (Å [`c@:]} áa] cvå Á[['c@Áz[ Á[`c@Áz] å Á>æ cÁz[ Á] ~• dĚÓã& &|^Áæ] ^• Áæ^A[ &æec'àÁc@[`\* @]`cÁœ ÁÔãc Áæj å Á ]`à |ãAÁ!æ]•ãÆ Á];[çãå^å Ásî Áœ ÁT ^} å[&ä] [Á'!æ]•ãAÔE c@; lãc ÁÇT VOEDÉÁ

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İÈ; ^}å[&4][&[\*È:|\*Ð4A^●Ď||G+H€ÏÍ €509€FÏ ÉÜVÚÉ01e É01a[]d∾åà ĠÌ, ^àÉ-{¦{ aæÃ GJÈ; å-ÁQ;\*ÈĂFFDA Á

fWXŁ`@Ygg`h`Ub`g][b]Z]WUbh]adUW1'Á0E] | { ¢ã æ^\^Â} }^Ë@a+A;ā^Á; &@A ¢ã cã \* Átì Á; Átí -cÁ ãa^Á ¦æç^|Á ]¦ãçæe^Áæ&&^••Á[æåÉãa^\*ã;}ðj\*Áæ&@Áæ&&^••Á[ðjcÁæ&@Ak\*\{ðj`•Á;AkJAÜ^å,[[åADĘ^}`^Ák[Á@ÁQE`•^Á •ãz^•ÉĂ,[`|å Áà^Ă];æç^å Áq[Á•^¦ç^Ác@^Á~čč¦^ÁQĮ`•ã;\*Áå^ç^|[]{^}ŏ4•ãz^•ĚAV@Ă[;æå Áq[]|{[ç^{^} ^}oĂ;ã|A ∄,&|`å^Áå^ç^|[]∄,\*ÁæÁ&`|Ëå^⋿°æ&Aæ);åÁ][●●ãa|^Á^¢ơ^}åãj,\*Áå¦ãç^,æ°●Áq[ÁÖ^ç^|[]{^}o^Úæ&A\●ÈĂV@Á Ö^ç^|[]^¦Á,ā|,Á&[{]|^c^Áo@^Á[æå,Áã[]¦[ç^{ ^}o+ÁaĭóAo@^Á[æå,Á,ā|)Á^{ æã),Á`}å^¦Á¦ãçæe^Á, }^¦•@3],Áo@æeÁ ,ĵąl/a∖a^A(, ænāj cænāj^å,Aà,Aà^AæAP[{^[,}^\q,AOE•[&ãæenāj]}ÁQPUOEDA{[¦A,čč¦^Á,^•ãå^}cãæeļ∕åå^ç^|[]{^}c@Ab@∘Á

А , [ັ |å ÁāxÁδ[} - [äkó Á; ão @ÁsáÁ^\*ā[} a⇔Á |æ) Á ¦ Á [|æλ Á^|æv å Á [ Á æv æ Æð ŽáQ] æsor Á [č |å Áa^ Á Ygg h Ub ˈg][b]Z]WUb H'Á Á

## å^ç^|[]{ ^}oAi-Aiætæl|^|Ai[¦c@D]`c@Áæ&añaña•ÈÁ

Á V@^ÁXTVÁā[]æ&orÁ[-Ác@^Á¦^•ãå^}cãæ‡Áå^ç^|[]{^}ơÁ、[č|åÁ}[ơÁ&[}-|ã&oÁ、ão@Ác@-ÁGEFÏÁÜ^\*ã[}æ‡Á V¦æ}•][¦œæaī[}ÁÚ|æ}ÁQÜVÚDÁæaå[] </ và Áà^Ác@∘ÁTÔUÕÊĂT^}å[&ã][ÁÔ[ĭ}c`q+ÁÜ^\*ã[}æ‡ÁV¦æ}•][¦œæaī[}Á Ú|æ)}ðj\*ÁOE^}&^`EĂÚ^¦Áv@^ÁGEFÏÁÜ^\*ðj}æÁV¦æ)•][¦œæðj}ÁÚ|æ)ÁÚ|æ)ÁÚUÚDÉA,^`,Á&^ç^|[]{{^}ċ/s Á×¢]^&&^åÁξ[Á County] tend to protect open-spaced lands such as agriculture and forestlands."5 V@ÁÚI[][•^åÁ Ú¦[b^&oÁ,[č|åÁ,[oÁ&[}-|a&oÁ,ão@Áãa^}cãa?àÁTaabj¦ÁQ,]¦[ç^{ ^}o+ÉÖ[a=+ÉÅÚ[|a&a?•Á,¦ÁUàb/&cãç^•Áãa^}cãa?àÁ jā Ás@ ÁGEFÎ ÁÜ VÚÉÁDEá á ãnā[}æ|^ÉÁs@ ÁN∖ãee@Áxæ|^^ÁDE^æÁU|æ) ÁQGEFFDÁ6á^}cá ã+o Áčč¦^Á&[}&^]čæ|Á[æå,æÂÁ ā[] ¦[ç^{ ^} • Á-{ ¦Ác@^Á] |æ) Áæ/~æEÁV@^ÁÚ'|[][•^åÁÚ'|[b/%oAå[^•Á}[cÁ&[}-4&A[ ] 4&6A^ ãc@Ác@AWXOEÚqA ¦^&[{ { ^} åæaā[}•Áæ) åÁ&[}&^] č æ‡Á'[æåÁã[] ¦[ç^{ ^} œÉà^&æě •^Ác@•^Á'^&[{ { ^} åæaã[} •Áæåå¦^••Á \*æ]•Á]ā, Ác@:Á•d^^cÁ•^•c^{{ Á^¢] æ}; å Á&æ]; æ&ãĉ Á, @:¦^Á~č; ¦^Á&[}\*^•cā[}Á|^ç^|•Áæ¦^Áæ); cã&a]; æ^åÉAæ); å Á

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9 bj]fcbaYbhU`GYhhjb[.Á/@Á{æbb[łãcĂ[~ÓðācĂ]¦[]^¦cā\•Áæ4^Á+^¦ç^åÁà^ÁÔācĂ\_ær^¦É4+^\_^^kÉ4k\*^\_\_^kÉk\* æ)åÁdæ@Á&[||^&cā]}ÈÉÁP[\_^^ç^¦É4+[{^Á]¦[]^¦cā\•Á\_ão@3}Ác@ÁY^•c^!}ÁPā]I•É4āJ&[`åāJ\*Ác@ÁÚ¦[][•^åÁ Ú¦[b\&oA+ãz(•É4å[Á][oÁ&`¦¦^}d^Á@æç^Áæ&&A\*•A{[ÁÔãcĂ[áDāz]A[ä]a\*EA2[¦Á]¦[]^¦c`Á[`orãa^Á[-Ác@ÁÔãcÂa[ãorÉA •^¦çã&^•Áæ^Á]¦[çãa^åÁà^Á]¦ãçæz^Á<}çã&^Á]¦[çãa^¦•Áæ)åÁ]^&ãæ4Áåãcdã&orÉ&æA`{{ æ4ã ^åÁa^|[\_ ÈÁ Á

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8]gWigg]cb.ÁfUL:@ygg`h\Ub`g][b]Z]WUbh]adUWhik]h\`a]h][Uh]cb`]bWcfdcfUhYX"Ù^,^¦ÉA,æe^¦Áæ)åÁ ^|^&d&&Á cājām2•Á,[`|åÁa^Á,¦[çãā^åÁq[Áo@ÁÖ^ç^|[]{ ^}dÚæk&^|•ÉAÙ^, ^¦Áæ)åÁ,æe^¦Á,ājlÁa^Áa^ç^|[]^åÁa^Á

fK!YL:@Ygg`h`Ub`g][b]ZJVUbh`]a dUWW'OE+ at } ãa38a) ∽éat [`} ∽Á[-Á+[|ãaÁ æ crÁārÁ}[oráz) aðaj æzråáÁt[Áà^Á \*^}^!æzråÁ+'[{ Ác@ÁÚ|[b/8,cóka) å Áce|A+[láaÁ æ crÁ][`láÁà^Áåā][•^åÁt Áze8,8[¦åæ) &^Á ão@Áce|A^å^!ædÉ • cæzrÉ2ka) å Á[&ædÁ cæzior (\* áka) å Ár\*`|æzta] \* Ár/æzrå át Á[lãaÁ æ crÁa át] [• ^åÁt Áæ8,8[¦åæ) & A ão@Áce|A^å^!ædÉ • cæzrÉ2ka) å Á[&ædÁ cæzior (\* áka) å Ár\*`|æzta] \* Ár/æzrå át Á[láaÁ æ crÁa át] \* ÁcæzrÁæj å Át &ædÁ æ crÁa ár/!æta !^``ār{ ^}o EAU[|ataÁ æ crÁs[||^&cråA4+[{ Ás[}•d`&ata] \* ábo átá] \* ÁcæzrÁæj å Át &ædÁ æ crÁa át & áo@Áce !/``år{ ^}o EAU[|ataÁ æ crÁs[||^&cråA4+[{ Ás[}•d`&ata] \* ábo átá] \* ábo átá] \* ÁcæzrÁæj å Át &ædÁ æ crÁa át & áo@Á !Ni ãæ@Ár/!æ) • ~ ¦ÁUcæzta] } ÉA @as@áta Át, } ^ å Åta Átc@ÁO át At Ati &ædé áta] ^ !æzrå áta ÁU[|ataÁ æ crÁti & ábo Á !/``âr{ ^}o EAU[|ataÁ æ crÁs[|]^ & as@ataát] \* ábo átá] \* ábo átá] \* ábo áta] ^ !æzrå áta ÁU[|ataÁ æ crÁti & ábo áta !/``âr{ ^}o EAU[|ataÁ æ crÁs[] / \* æta] } A ' \* åta Átc@ÁO át At Ati &ædé áta] \* ábo áta] ^ !æzrå áta AU[|ataA æ crÁti & ábo áta] !/``ârA{ } ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : ata : at

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V@ÁÚ¦[b/&cÁ•ãc Áā Áå^ç^|[]^åÁ, ãt@ÁÔæ¢ÁØãt^Á~^|Áà¦^æt•Áæ)åÁ@æe Áà^}Á•`àb/&cAd[Áç^\*^œæāt]}Á {æ}æt^{ ^}cÅ] !æ&cã& •Áðj Á[!å^!Ád[Á^å`&^Áā^Á!ã \Áðj Ác@ÁY ^•c'!}ÁPā]•ÈĂOEF+@æå^åÁ~^|Áà!^æ Á &[}•d`&c'åÁ\$P[!c@Át[ÁÛ[`c@DÁed]]\* Ác@Áaæ^Á(-4@A) Å@Å ^•c'!}Á@ð]•Áed[]\*Ác@Á? aā^Ár}\*c@Át-Á@AÂ {}\*d@Ár=€€EcÁ, ãta^ÉtôEE El; át^Á\*^|Áa!^æ Á§j Áæc^ÁGEFIÁeg)åÁ\*æ}^ÁGEFJEA, ãt@At}\*[3]\*Áeg} &^Á; æf, ^!-{!{ ^åÁ ]^!~{{ ^åA&^Ác@A}![]^!c'At, }^EdAte Af Af Af A& ]^!{ ^åA&^Ác@A}![]^!c'At, }^EdAte Af A& A

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Á 8]gW/gg]cb. fLbz V / `XŁ @/gg h Lb g][b]Z]WLbh ]a dUW/ OE Áå^•&¦āa^åÁæà[ç^Ác@ ÁÚ¦[b^&cÁæ4^æÁā Á å^ç^|[]^åÁ, ãc@Á-˘^|Áà¦^æà•Áæ}åÁ@æeÁà^^}Á•`àb^&cÁ[Áç^\*^cæeā]}Á{ æ}æ\*^{ ^}cÁ]¦æ&cã&^•ÁāJÁ[¦å^¦Á[Á ¦^å`&^Á`^|Ă[æåÁ ão@4 Áo@ÁY ^•c^¦} ÁPā]•ÈÁ/@ÁÚ¦[b^&c4 ã^Áã Áå^ç^|[]^åÁ ão@4a) Á¢ã cã \*Áæ&&^••Á[æåÁ c@eedxáçæetā∿●Á¦[{ ÁFÌ ÁcAtj ÁHÍ ÁdÉĂ, ãã^Á, ãc@ko@Á, æbj¦ãĉ Á, A5axAa^ā,\*Áæá, ā,ā, `{ Á, AG€ÁcĂ, ãå^ÈĂ/@Á,^&cā}}●Á c@eenÁsel^ÁrīlÁcÁ,ãa^Ásel^Á;@{¦cÁşiÁ(^}\*c@ÁQe4j]¦[¢ã[zee^|^ÁrF€€ÁcÁ([}\*DÁse)åÁ@eeç^Á,ãa^Áči¦}Ü;`orÁs[{^åãee\*|^Á à^+[ ¦^Á; ¦Ásec^; lÁs@{ ÉKÓ[ c@ks@ kÔætjä[ ¦} ãzekÖ^] ætq{ ^} c/k, -Á2[ ¦^•d^ Áset å.Á26ä^ÁÚ![ c^&cji } ÁqÔæt Á26ä^Dkset å.Ás@ Á ₩.ãæ@Áxæ|^^ÁØã^ÁØEc@|¦ãĉÁQVXØ0EDÁ@æç^Á^çã\\_^åÁs@ÁÚ|[b^&oÁse}åÁsE[}å`&c^åÁseÁãrAçãrãEÁV@\Á¢ãrcã}\*Á \*¦æç^|Áæ&&^••Á[æåÁ,ā|Á\$^Á\$[]¦[ç^åÁ,ãc@Åæ•]@edpo%a)åÁæ&&`|Ëå^Ë•æ&Ê\$B}Áæ&&[¦åæ}&^A,ão@Abd|Á&`¦¦^}oÁā^Á æ)åÁræ^c^Á&[å^•Áæ]]|&&æà|^Át[Ác@ÁÚ¦[b/&dÊÁ/@Á]¦[][•^åÁā[]¦[ç^{ ^} @Á[ĭ'|åÁā]&¦^æ^Ác@Á^ç^|A[·Á d[ÁseååÁ,^\_,Á,æe^¦Ád[¦æt^Áse)åÁā^Á,¦[c^&cā]}Áæ&ajāaā?●ÁsjÁs@Á⁄^●c^¦}Á?Pā]|●ĚÁJ^¦Ás@ÁÔæqaã[¦}ãæÁØã^ÁÔ[å^ÉÁ æ∮,[¦cąī,}Aí,-Áo@\Á, æc^¦Áqçæba?•Áaæe^åAí,}Aíã^Áæ)åAj`{à^¦Aí,-Á@;{^•DÁ,ā∥Áa^Á/~``ā^åAú[Áa^Áæ|[cc^åAí[¦Á ~ã^Á;¦[c^&cā;}Á;^¦çã&^•Áce;åÁ&ce;}[cÁà^Á\*•^åÁ;¦Á^•ãå^}cãe;Á\*•^LÁc@ã;Á;ã|Áà^Áce&&[{]|ã;@\*åÁà^Áce;Á;[ce;Á • ā&@Ác@eezÁ,āļlÁb:^Á5;•cæ‡|^å Á5; Ác@,Ácæ} \•ÉAQ,Ásæå åã6ā; }ÊÁU`à]3&ÁÜ^•[`¦&^•ÁÔ[å^ÁÛ^&c6ā; }•Á GJ€Áse}å Á,GJFÁ 8[}cæajiÁseáåãaāji}æ‡Á^˘˘ã^{^}o•Á[¦Áæ}å•Á ão@ajiÁK^¦^ÁPã @Á2ã^ÁÛ^ç^¦ãĉ ÁZ[}^•Ás@æeÁ [ĭ|åÁse]]|^Ás[Ás@A U¦[b^&dEA/@•^A\$j&|`å^E&`oAee^A}[oAa[ãe^åAq[Êc@A{[||[]]3]\*Á]@3&@4ee^Áå^•ã}}^åAq[Á¦|[çãa^Áå^~^}•ãa|^Á •] æ&^ Áæ} å Áā^ Á! ¦[ c^8æ] } Á! ¦ Á! ^\_ Á&] } • d` 8æ] } Áæ} å Á? } •` ¦^ Áæå^`` æ^ Á^{ ^!\*^} & ^ Áæ8&^•• kÆ] & '^æ^ å Á ] ¦[] ^ ¦ ĉ`Á|āj ^ Á• ^ cà æ&\ • Á-{ ¦ Áæ‡|Áæ‡] | a&ææ`|^Á&[} • d` &cāj } LÁ[ } Ë ãc^Á, æc^\¦ Á• d[ ¦ æt ^ Á-{ ¦ Á-ãi^Á] ¦[ c^ &cāj } ĔĂ å¦ãç^, æ`£D[æå, æ`Á\$`]^•Áa);åÁ`]^&ãã&æaā[}•Áaæ^åÁ\}Áå^•ã\*}æe^åÁ`•æ\*^åÁ`•æ\*^LÁae|Á,^æe@;¦Áå¦ãç^, æ`£D[æå, æ`Á • č¦~æ&∧• Áà^ą̃ \* Á\} \* ą̃^^¦^åÁ{[¦Ä ĺ Ê€€€]àÁç^@&k|^• LÁ [æ¢ã[č{ Á|[]^ Á; ÁFÎ Ã ĽÁč¦}[čÁ^č`ã^{ ^}œLÁ æ¢Á ¦^``ã^{ ^} @ Áæ); åÁ ^ ca æ& • ÉA æ\ ã \* Á cæ); åæ å • ÉA ~ ^ |• Á^å`&cã); Á^\*` |æcã); • ÉA c&ÈOEA` č ¦^Á^• ãa^} cãæ); « Á ^ \* A ~ \* ãa^} cãæ) å^c^|[]{ ^} \$\chi\_j i \arrow A^A^c a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a \chi\_a • cæ) 忦å• É\$ 4 & ` å 3 \* Ác 4 • ^ Á c& ÉÅ Á

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f7/Ł@/gg`h\Ub`g][b]Z]WUbh]adUWNk]h\`a]h][Uh]cb"]bWcfdcfUhYX"OE/&^+&¦äa^å/A§AÛ^&ca[}}Á)ÉA?ææ¦å•Á æ) å ÁPææla [`•ÁTæe^¦ãæ)•ÉAĮ Ác@à ÁQ,ãããe) ÁQ;ãããe) ÁQ;ãããe) ÁQ;ãããe) ÁQ;ãããe) Al Adj, -{æ, d`&c`¦^Áe); å ÁS[}•d`&cã; } Á[ Ác@A Ú¦[b^&oÁ{æ^Áājç[|ç^Ác@^Á\*•^Á[-Á\*æ•[|āj^Ėj[,^¦^åÁq[[|•Áæ)åÁ^\*`āj{ ^}oÁj[o^}cãæ|^Áajd[å\*&aj\*Á}^、Á  $c^{(1)} = \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[$ T^ærč¦^ÁPOZEČSÁ,ã∥Á^åč&^Áãj.]æ&orÁtjÁ^••Áx@æ)Á\*ã\*}ã&æa)dÉ2@/ggih\Ub`g][b]Z[WUbhk]h\`a]h][Uh]cb`

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[}ÁÞ[ç^{ à^¦ÁFÌÉG€G€ÉAPææå•Áãå^}cãã?åÁ{¦Ác@∕ÁÔãcÁ[~ÁN\ãæ9Áð]&\ĭå^Áræc@ĭæ\^•ÉA, ðå~ð^É&åæ;Á ~æajĩ ¦^Ё~-{[[å Áæ);å Á]] æ);å^{ & & EÁVæà |^ÁFËFHÁ[ ~Ác@ ÁÔãĉ q Áŏ ¦ãrå & & & & }^¢Á\are o Á^æ&@Á@æ æ å Áæ);å Á { ãuất aeeá) } Áse8ucá) } Áy ¦ ÁÔãc Á) ~ÁW ãee@PÉÁ

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aĐXÔ[ ^• Ás@ Á; [] b/ 8ơk @æç ^ Ás@ Á; [ ơ'} @ätek Á; Ás^* ; asá ^ Ás@ Á ` atáčí Á; Á c@ Ár} çã[ } { ^} d2* ` a• cað @ätel Ár ^ å & A Ác@ Á@asá asas /; Ásak ā @f; ; Á , ậtả [ā^ Á] ^ &3• Ex & a• Asak ā @f; !A ậtả [ā^ Á; [] `   asat ] Ai (Ási [] Ås /[ , Á • ^] - E` • casa ] ∄ * Á/ < ^   Ec @ ^ asar } Af; Ár [ā] ā az ^ Ásak [] Ås /[ ] Ås /[ , Á • ^] - E` • casa ] ∄ * Á/ < ^   Ec @ ^ asar } Af; Ár [ā] ā az ^ Ásak ] að of; !Aa jā at • ^] - E` • casa ] ∄ * Á/ < ^   Ec @ ^ asar } Af; Ár [ā] ā az ^ Ásak ] að of; !Aa jā at • ^] - E` • casa ] ∄ * Á/ < ^ ( - Aa 2 at at at at at at at at at at at at at		МÁ	ШÁ	ШÁ
à DÝÖ[^• Áv@ Á] ¦[b & & Áv@æç^Á¥i] æ&o Áv@ævÁæ'^Á#i åãçãa `æ ^Á#i æ^å ÅÄ à `dÁ&`{` ææq^^ ^Á&]}•ãa^!æa ^ÑÁ¢Ô`{` ææq^^]^Á&]}•ãa^!æa ^ÄÁ {^æ}• Áv@ævÅ@ Æi & {^} æ#i^!æa ^ÄÁ {^æ}* Áv@ævÅ@ Æi & {^} æ#i^!ea } Å æ A] = & & & & & & & & & & & & & & & & & &		⊠Á	ШÁ	ШÁ
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8]gW/gg]cb. fULÁ@/gg`h\Ub`g][b]Z]WUbh]adUWik]h\`a]h][Uh]cb`]bWcfdcfUhYX"Ú¦[b^&oÁ&[{][}^}&Á jā &|čájā \* Ás@ Áse&ččārānaj}Éése)}^¢æenāj}Éése) åÁ¦^:[] jā \* Á; -Á, æel&^|• Éðaj Áseá åãnāj}Ás[Ás@ ÁS[OŠ3j]^ÁDēabŏ•o(^}o•ÉA ,[`|åA}[o^åä^&d^A\^•`|o^ą`A]@•a&aqAą[]a&eopAq[Ac@A]@•a&aqA^}ça[[}{\_^}dEAP[\_^c^\HZ+aj~+ae\_d`&c`|^A ã[]¦[ç^{ ^} o Ás) å Ás@^Á[[o^} œedÁs[}•d´&cã]}Á[Á^Á]Á[Á^ç^} Áð]\*|^Éæ{jî^Á@{{ ^•Ás} å Á^ç^} Áse•[&ãæe^åÁ OEÖW+ÉA{{\ÁœÁq[cæ‡Á[-ÁFIÁ}ã+Á[āc@]Áœ!A^æec^\}}{[•oÄI|Áæ&\^•Á[-Ác@AÚ\[b^&oÁæ^æÊ&[`|åÁ[&&`\A`}å^\A c@AÖ^ç^|[]{^}cACE\*¦^^{ ^}dAAP`||ÁÚ|[]^¦ca?∙Áā\*Á&@[[•ā]\*Áq[Á/^``ā^Ác@Á\*ā]\*|^Ëæ{ā\*Á@{{ ^•Áq[Áa^A Ü^•d a&caji} •ÁQÔÔBÜ•DÁ{¦ÁÔ^ç^|[]{^} oÁÚæel&^|•ÁFËHÉQA Áœelåãaãj}ÊÉedpcQ`\*@A,[oÁ^``ã1^åÉkc@^Á;ãaãtæeaji}Á { ^æ\* ¦^• Á&[ } œaa) ^åĄ ão@) Áo@ ÁODT ÞÖÁ[ ¦Á^• ãa^} cãad,Áá^ç^|[ ] { ^} oĄ ã|Asd+ [ Áá^A§ &|` å^å,Á§ A@ ÁÔÔBÜ• ÉA Ö^ç^|[]{^}ơĂJæb&^|•ÁFËHÁ, ã||Ácã||Áb^Á9;&|ĭǎ^àÁ9;Ác@^Áse]]|&8zæeā[}Á[¦Áse)}^¢æeā[}Áse)aÁ;¦^:[}^àÁ9;ÁQ`FËPĔÄ ClĘcóqu<sup>\*\*</sup> óck/•ãå^} cãædÁå^ç^|[] { ^} cÁã Á}[cá]; [] [ •^åÁœeÁcôãa Ácãi ^Áæ) åÁcô@ ÁÚ¦[b/8cá] [ \* |åÁ][cá]; [a; cáe) ^Á ^} cã(^{ } ^} o Éásoãa Áæ) a‡ •ãa Áæ• • \* { ^• ÁsoæeÁsô@ Áå^ç^|[] { ^} cáj äl/á; 88\* ¦/á; } Áæ|AÖ^ç^|[] { ^} cáj äl/á; 88\* ¦/á; } áda 88\* |• Éás[cóa] `}å^¦Ác@/ÁÔ[`}c`Áæ);åÁÔãc`q•Áŏ¦ãråä&ca∏;}ÈÁOE-Áå^•&¦ãa^åÁc@[`\*@[` @`CÁc@/ÁQ,ãããæ4ÁÛc`å^ÊÁ&[}•d`&ca∏;}Áæ);åÁ  $* \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{$ d ÁOBÁÁŮ zatáč ÉZŐAT || \* 38/adAÜ^• [ \* | &^• ÉZÔ\* | c' | adAÐV | 38 adAÔ\* | c' | adAÜ/• [ \* | &^• ÉZÔ^[ || \* ^ Ást) åÁÙ[ Af• ÉZP æ ad å• Á æ)åÁPææ¦å[`•ÁTæc^¦ãæb+ÉAP¯å¦[|[\*^Áæ)åÁv/æc^¦ÁÚ`ækåĉÉAÞ[ã~^ÉAVkā)ãã&•Áæ)åÁÙ^¦çã&^ÁŬ^•œ^{•Éæe)åÁ Yā¦å~ã^ÈP[,^ç^¦É4(ããã æaāį}Á(^æ•`¦^•Áãa^}cãã®åÁ,ãc@)Ác@Áæe[¦़{{^}cā}}åÁ\*^&aā{}>•Á,[`|åÁ^å`&^Á ãi]æ&orÁsÍÁYggʻh∖Ubʻg][b]Z]WUbhik]h∖ʻa]hj[Uh]cbʻ]bWcfdcfUhYXËÄ Á

I \_]U\ `K YghYfb`<]``g`CdYb`@UbX`5Wei ]g]h]cb`UbX`@a ]hYX`8 Yj Y`cda Ybh5[fYYa Ybh`` Final Draft Initial Study and Mitigated Negative DeclarationÁ Ôã` Á ÁWI ae@Á Á

fWL:@Ygg`h\Ub`g][b]Z]WUbh`]a dUWik k]h\`a]h][Uh]cb`]bWcfdcfUhYX"ÁÓæe^åÁ[}ÁœA´-ā,åā,\*•Áæ)åÁ &[}&[`eā;}•Á&[}œæ]^åÁ§Á@ÁQããæ µÁUčå^Ê&@ÁÚ![][•^åÁÚ![b%&A´,[`|åÅ,[oÁ@æç^Á?}çã[]{ ^}œ#Á~~^&@Á @&&@Á\_ā]Á&æě•^Á\*`à•œ}œ#µÁœåç^!•^Á~~^&&~Á[}Á@{ æ}Áà^ā,\*•Ê%ã@'¦Áåã^&d^´A[¦Áā;åã^&d^ÈAQ]]æ&oA [`]åÁà^ÁYgg'h\Ub`g][b]ZWUbhk]h\`a]h][Uh]cb`]bWcfdcfUhYX" J≝ F9:9F9B79G

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- FĚÁ CĘcæÁCE&@[ |[\* 38æ‡ÁÔ[}•`|c3;\* ÁÇCĘcæ£DĚCE&@[ |[\* 38æ‡ÁÙ`¦ç^^ ÁÜ^][¦☆ÁÇCEÙÜDĚZÔãC Á; ÁW\ ãæ@Á Y ^• c^}} ÁP a]• ÁCE} ^ ¢ÁW\ ãæ@ÉXT ^} å[&3][ÁÔ[`} C ÉXÔæ‡ã[¦} ãæÉACE/Þ• Á€€FËEI €ËI HÉÁFÍ Ï ËEÏ €Ë €FÉÁFÍ Ï ËEÏ €Ë€CÉ2€€FÉFJ€ËEFÉÁFÍ Ï ËEÍ €ËEJÉAT æ}&@ÉXC€CFÉA Á
- GĚÁ Ôæ¢ÁØã^ÁÙœæ^ÁÜ^•][}•ãa țãc ÁOE^æźK â?, ^¦Á
  @cd Kep, Éã^ÈsæÈ[çĐã^]¦^ç^}cā} →^Цæçã, ^¦´|æ`}&@ÁÁ
- HĚÁ Ôæ¢Á26ā^Ê£Ôæ¢ã[¦}ãexéA26ā^Á?£ææsååÁù^ç^¦ãc ÁZ[}^ÁTæ}ÅÉÔæ¢á§{¦]ãexéA26ā^É3^ @cd\_H529\*ãe`Eá^É3e2<sup>\*</sup>[ç5B2PÙZ56Á
- Í ÈÁ Ôæ¦ã[¦}ãækÖ^]æ¦({^}o^{A, ÁÔ[}•^¦çæa‡i}ÈÉÔæ¦ã[¦}ãækŐ^[[\*] ãækŐ^];", čk Čæk ÅÛ\*';", čh ČÉČEÅ, ÅÔ Q,ç^} d[' Á ^àÁOE]] |ã&æa‡i}ÈÁ @cd • HED • \* • Èt æ}• Éæk &\* ã È&[{ Ba}+] • Ð ^àæ]]çã ?, ^¦E3)å^¢ È@k [|Ñãâ Mæ% FO€JÎG+ ÍJIHIà]&J <u>@ al í Î & Î Ĵ å</u>ÁÁ
- Ĩ ĚÁ Ôæặã[¦} ãæớÔ^] ætd{ ^} ớh, ÁØāj æ) & AĖOĘ ^¦ã&æ) ÁÔ[{ { `}} ãc ÁÙ ', ç^ ÈÁ @ct Kep,\_\_\_Èā[--È&æž<sup>\*</sup>[çED/]['c=ED/{[\*!æ];@sc Ü^]['c=EDE, ^¦ã&æ) ´Ô[ { { `}} ãc ´Ù ', ç^^AÁ
- Ì ÈÁ Ôæ¢ã[¦} ãæ¢Ö^] æ¢{ ^} ơ∱. Á⁄[¢ã&ÁÙčà•œè} &^ÁÔ[} d[|ÈÓ}çã[Ùd;¦Ååæææàæ^Á @cd•M⊕, È}çã[•d;¦Éa@&È&æÈ[çEÁÁ
- ÀÉ Ó (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (^ ) & (
- F€ÈÁÔæjã[¦}ãæ∕ÁQ;[;^\]{ (\$\A)~38`A, A) (\$\a) \$ [ \\$ (\$\A)~A) (\$\a) \$ [ \\$ (\$\A)~A) [\$ \\$ (\$\A)^A] ] [ \\$ (\$\A)^A] ] [\$ (\$\A)^A] \$ (\$\A)^A] \$ (\$\A)^A] \$ (\$\A)^A] \$ (\$\A)^A] \$ (\$\A)^A] \$ (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A (\$A^A
- FFĚLŐãč Á; -ÁNX ãæ 9/Ő^}^¦æ ÁÚ|æ) ÈÉŠæe váze; ^} å^å ÁGEFJÈÁ
- FGĚÓãCÁ, ÁN ãæ@Óã& & ^ Ás à ÁÚ^å^• dãa ) ÁT æ c' ¦ ÁÚ|æ) ÈÁÚ;^] æ ^ å Ás ^ ÁŒ, æ Áú|æ) } ā, \* ÁÉ/Ö^• ã } ÉÁ Y Ë/¦æ) • Ás à áÁ æ\ ÁÓã ^ ÁT ^ } å[ & ã] [ ĚŒ \* ` • ÁŒFÍ ĚÁ

- FI ĔÃÔãĉ Á(-ÁN\ãæ@楚ĀF[`•引;\*ÁÒ|^{ ^} య/l]åæe^ÁGEFJËGEGÏ ĔÃOãa[] c/àÁJ&q[à^¦ÁGHÉGEFJÁæ)åÅ Ô^¦cãa?åÅa^ÁPÔÖÁÖ^&^{ à^¦Á ÉGEFJÈ@cd H型, \_\_Èãĉ [~`\ãæ@è&[{ ⊕}¦[b/&or Đ⊉`•引;\*Ë \_\_\_\_\_^[^{ ^} dĚ] åæe^ÉÁ
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**Ukiah Western Hills Open Land Acquisition and Limited Development Agreement** *Final Draft Initial Study and Mitigated Negative Declaration* City of Ukiah

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**Ukiah Western Hills Open Land Acquisition and Limited Development Agreement** *Final Draft Initial Study and Mitigated Negative Declaration* City of Ukiah

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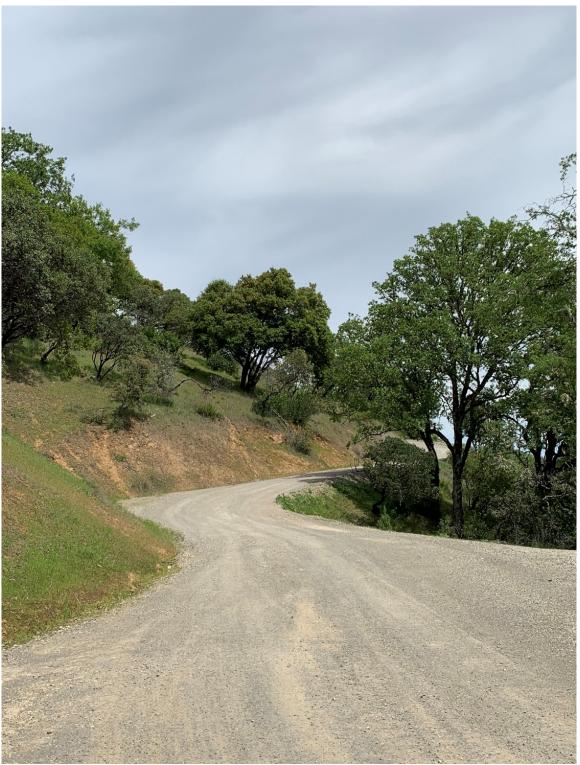
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### Existing Site Photographs

Existing access road



Existing water tank site



Existing "house site" on one of the proposed Development Parcels



### natural resource planning & management



# **Biological Assessment Report**

#### **Prepared For:**

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APNs: 001-040-83, 157-070-01, 157-070-02, and 003-190-01

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#### Section 1.0: Introduction

This biological assessment was prepared by Jacobszoon and Associates Inc. for the City of Ukiah for the purpose a lot line adjustment to reconfigure parcels for future single-family residential development on approximately 55 acres. The project site is located just west of Ukiah, CA within Sections 19 and 30, Township 15N, Range 12W, Mount Diablo Base and Meridian, in the Ukiah USGS 7.5-minute quadrangle, APNs: 001-040-83, 157-070-01, 157-070-02, and 003-190-01 (Appendix D: Map 1, Study Area- Topographic Map). A site visit was conducted on February 5, 2021. A botanical survey was conducted on March 30, 2021. Additional botanical survey results will be amended in once completed.

The purpose of this study was to identify and map areas within the parcel that are potential sensitive natural communities and to locate special-status plants and special-status animal habitats to determine if they would be directly or potentially impacted by the proposed project. The Study Area referred to within this report comprises approximately 55 acres and includes existing dirt and gravel roads, fire breaks, water tank pad sites, and areas cleared for potential house sites (Appendix D: Map 2, Study Area-Aerial Map).

This report includes the following:

- Regulations and Project Description (Section 2)
- Field Survey Methodology (Section 3)
- Study Area Setting (Section 4)
- Field Survey Results (Section 5)
- Assessment Summary and Recommendations (Section 6)
- Tables of Special-Status Plants and Wildlife within CNDDB nine quads (Appendix A)
- List of Species Observed (Appendix B)
- Representative Photographs of Study Area (Appendix C)
- Supporting Maps (Appendix D)
- Supporting Documents (Appendix E)

#### Section 2.0: Regulations and Descriptions

#### 2.1 Regulatory Setting

In addition to the requirements of Mendocino County's permitting process, the project shall comply with Federal, State, and local regulations designed to protect sensitive natural resources. The following natural resources are protected under one or more of several Federal and/or State regulations and should be considered when designing and/or implementing the proposed project within the Study Area:

<u>Essential Fish Habitat</u>: protected through changes to the Magnuson-Stevens Fishery Conservation and Management Act to maintain sustainable fisheries in the United States, administered by National Marine Fisheries Service (NMFS):

• Includes habitats (rivers, creeks, estuaries) that may support anadromous fish (fish migrating from ocean habitat into freshwater river habitat), as well as commercially and/or ecologically valuable fishes.



<u>Streams, Lakes, and Riparian Habitat:</u> protected under the California Fish and Game Code (CFGC), administered by the California Department of Fish and Wildlife (CDFW):

• Includes creeks and rivers (bodies where water flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life), and vegetation adjacent to and associated with (riparian habitat).

#### Waters of the State: protected under the State Water Resources Control Board

<u>Waters of the U.S.</u>: protected under the Clean Water Act (CWA), administered by the Environmental Protection Agency (EPA) and U.S. Army Corps of Engineers (Corps):

• Includes wetlands, streams, rivers, and other aquatic habitats meeting the guidance issued by the Corps.

#### 2.2 Natural Communities and Sensitive Natural Communities

<u>Sensitive Natural Communities:</u> protected under the California Fish and Game Code (CFGC), administered by California Department of Fish and Wildlife (CDFW 2020):

• Includes terrestrial vegetation or plant communities that are ranked by NatureServe and considered "threatened" or "endangered" by CDFW, lists of such are included in *List of Vegetation Alliances and Associations* (CDFW 2020).

#### 2.3 Special-Status Species

<u>Special-status Plant and Wildlife Species including Critical Habitat:</u> protected under one or more of the Federal Endangered Species Act (ESA), California Endangered Species Act (CESA), California Environmental Quality Act (CEQA), administered by the U.S. Fish and Wildlife Service (USFWS), and/or CDFW:

- Includes plants listed under the ESA and/or CESA, or those plants ranked by the California Native Plant Society (CNPS) as Rank 1, 2, 3 and 4.
- Includes wildlife listed under the ESA and/or CESA, and wildlife listed by CDFW as Species of Special Concern, Fully Protected Species, and/or Special status including Invertebrates, Birds of Conservation Concern listed by USFWS, Species of Concern listed by National Marine Fisheries Service (NMFS), Western Bat Working Group (WBWG).

#### Section 3.0: Field Survey Methodology

#### 3.1 Assessment Methods

The biological resource assessment is designed to identify sensitive communities within the Study Area and determine the existence or potential occurrence for special-status species. The assessment is also designed to address the potential for cumulative impacts to biological resources that may occur as a result of the project and to make recommendations to reduce or mitigate potential impacts.



The biological resource assessment includes the analysis and comparison of existing habitat conditions within the Study Area and the documented range and habitat requirements of sensitive plant and wildlife species described in CDFW's California Wildlife Habitat Relationships System (CWHR).

Jacobszoon & Associates Inc. senior biologist Alicia Ives Ringstad conducted a biological resource assessment of the Study Area on February 5, 2021, consisting of approximately six (6) hours. The Study Area was assessed to document: (1) the on-site plant communities, (2) existing conditions and their ability to provide suitable habitat for any special-status plant or wildlife species, and (3) if sensitive biological communities (e.g. wetlands, vernal pools) are present.

Plant species observed during the site assessment were recorded and are listed in Appendix B. Plants listed in Appendix B were identified using *The Jepson Manual: Vascular Plants of* 

*California 2<sup>nd</sup> Edition* (Baldwin et al. 2012) to the taxonomic level necessary to determine rarity. The names provided in this biological assessment report follow *The Jepson Flora Project* (JFP 2021).

#### 3.2 Database and Resource Descriptions

Prior to conducting field surveys, available reference materials were reviewed, including the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) *Web Soil Survey*, the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI), the Ukiah 7.5'-minute USGS quadrangle topographic map, and the most recent available aerial imagery. The 100-year flood zone was assessed using the Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (NFHL) (Appendix D, Map 8: FEMA National Flood Hazard Layer Map). The location of streams and watercourses within the project vicinity were reviewed using datasets from California Streams and the California Department of Forestry and Fire Protection (CAL FIRE).

Existing vegetative communities were reviewed using CDFW's Vegetation Classification and Mapping Program (VegCAMP) data for the potential existence and location of sensitive biological communities including Mendocino Cypress (*Hesperocyparis pygmaea*) and related vegetation. Where VegCAMP data was not available, existing vegetative communities were reviewed using USDA Forest Service Classification and Assessment with Landsat of Visible Ecological Groupings (CALVEG) data.

Databases queried for the occurrence of special-status species include the USFWS Information for Planning and Consultation (IPaC), California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (online edition, v8-03 0.39), and the California Department of Fish and Wildlife California Natural Diversity Database (CNDDB) Spotted Owl Data Viewer, RareFind and Quick Viewer processed and unprocessed data (online edition, v5.94.01). The CNDDB consists of mapped overlays of all known populations of sensitive plants and wildlife. The database is continually updated with new sensitive species population data.



The CNPS database produces a list of sensitive plants that have population occurrences registered within the scoping range. Various habitat characteristics are included with each listed species, including location of the Study Area with regard to the geographic range of sensitive plant species, location(s) of known populations of sensitive plant species as mapped in the CNDDB, soils of the Study Area, elevation, presence/absence of special habitat features (vernal pools, serpentine/volcanic soils, etc.) and plant communities existing within the Study Area.

While use of the CNPS inventory does not eliminate the need for an in-season botanical survey, it can, when used in conjunction with other information, provide a very good indication of the suitability of a site as habitat for sensitive plant species. The CNDDB consists of mapped overlays of all known populations of sensitive plants and wildlife (Appendix D, Map 3: CNDDB Vicinity Map). The database is continually updated with new sensitive species population data.

California Wildlife Habitat Relationships (CWHR) Predicted Habitat Suitability is a dataset accessed through CNDDB BIOS Commercial/Spotted Owl Viewer that represents areas of suitable habitat within species' documented ranges. Examination of the CWHR dataset was applied when: 1) the data is available for the species of concern, and 2) when there is a moderate to high potential for an animal to occur on or within 100 feet of the Study Area. CWHR examines whether the areas being examined in the biological assessment is habitat which *may* support a species of special concern. Habitat suitability ranks of Low (less than 0.34), Medium (0.34-0.66) and High (greater than 0.66) suitability are based on the mean expert opinion suitability value for each habitat type for breeding, foraging, and cover (CDFW 2021).

#### 3.3 Database Resource Assessment

A scoping of the CNDDB and CNPS Inventory of Rare and Endangered Plants was performed to identify existing and historical occurrences of special status species and sensitive terrestrial communities within the project vicinity. The scoping extended to twelve quads surrounding and including the Ukiah 7.5-minute USGS Quadrangles and included the Boonville, Cow Mountain, Elledge Peak, Laughlin Range, Orrs Springs, Potter Valley, Purdy's Gardens, Redwood Valley, and Ukiah 7.5-minute USGS Quadrangles. In addition, a 0.25-mile radius scoping area was completed for the identification of northern spotted owl (*Strix occidentalis caurina*, NSO) Activity Centers. No spotted owl territories (Activity Centers) are located within the 0.25-mile buffer.

Prior to the site visit, the databases listed above were accessed to determine whether sensitive biological communities, special-status species or other sensitive areas were documented within the vicinity of the Study Area (Appendix D: Map 3, CNDDB Vicinity Map). During the site visit, existing habitat conditions were evaluated and used to assess the potential for presence of special-status species. The potential for each special-status species to occur in the Study Area was then evaluated according to the following criteria:

• <u>No Potential:</u> Habitat on and adjacent to the Study Area is clearly unsuitable for the species requirements (foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime).



- <u>Unlikely:</u> Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the Study Area is unsuitable or of very poor quality. The species is not likely to be found on-site.
- <u>Moderate Potential:</u> Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the Study Area is suitable. The species has a moderate probability of being found on-site.
- <u>High Potential:</u> All the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the Study Area is highly suitable. The species has a high probability of being found on-site.
- <u>Present:</u> Species is observed on the site or has been recorded (i.e. CNDDB) on-site recently.

A complete list of all special-status species and communities listed in the nine-quad scoping of the CNDDB and CNPS as well as those listed in an official USFWS IPaC search of the project area is included in Appendix A: Scoping Table of Special-Status Species and Communities and Potential to occur within the Study Area, and in supporting documents within Appendix E.

#### 3.4 Biological Communities

Biological communities present within the Study Area were classified based on existing plant community descriptions described by Preliminary Descriptions of the Terrestrial Natural Communities of California (Holland 1986), USDA Forest Service Classification and Assessment with Landsat of Visible Ecological Groupings (CALVEG) system, and the Manual of California Vegetation Online Edition (MCV2 Alliances, CNPS 2021b). However, in some cases it may be necessary to identify variants of community types or to describe non-vegetated areas that are not described in the literature. Biological communities were classified as sensitive or non-sensitive as defined by CEQA and other applicable laws and regulations.

The currently accepted vegetation classification system for the state that is standardly used by CDFW, CNPS, and other state and federal agencies, organizations, and consultants for survey and planning purposes is the *Manual of California Vegetation* (MCV; Sawyer, Keeler-Wolf, and Evans 2009). Unlike Holland, this vegetation classification system is based on the standard National Vegetation Classification System (NVCS) and includes alliances (a floristically defined vegetation unit identified by its dominant and/or characteristic species) and associations (the finer level of classification beneath alliance).

Although the CNDDB still maintains records of some of the old Holland vegetation types, these types are no longer the accepted standard, and the CDFW Vegetation Classification and Mapping Program (VegCAMP) has published more recent vegetation lists for the state based on a standardized vegetation classification system that is currently being developed for California and which is consistent with the MCV classification system. Global and state rarity rankings have been assigned for various types on the recent VegCAMP lists.



#### 3.4.1 Non-sensitive Biological Communities

Non-sensitive biological communities are those communities that are not afforded special protection under CEQA, and other Federal, State, and local laws, regulations, and ordinances. These communities may, however, provide suitable habitat for some special-status plant or wildlife species, and are described in Section 5.1.

#### 3.4.2 Sensitive Biological Communities

Sensitive biological communities include those that are listed in CNDDB as well as MCV2 alliances or associations with state ranks of S1-S3. Aquatic resources (e.g. watercourses, ponds, wetlands, vernal pools, etc.) are also considered sensitive biological communities and are afforded special protections under CEQA and other Federal, State, and local laws, regulations, and ordinances. Sources for assessing sensitive terrestrial or aquatic natural communities include *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986), *List of Vegetation Alliances* (CDFW, 2020), *A Manual of California Vegetation* (CNPS 2021b), California Streams, and USFWS National Wetlands Inventory (NWI).

#### Sensitive Natural Communities

CDFW considers any MCV2 alliance or association with a state rank of S1-S3 a sensitive natural community. Global and state rankings are defined below.

Global Ranking:

- G1-Critically Imperiled: At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2-Imperiled: At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3-Vulnerable: At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4-Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5-Secure: Common; widespread and abundant.

State Ranking:

- S1-Critically Imperiled: Critically imperiled in the state because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.
- S2-Imperiled: Imperiled in the state because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the state.
- S3-Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the state.
- S4-Apparently Secure: Uncommon but not rare in the state; some cause for long-term concern due to declines or other factors.
- S5-Secure: Common, widespread, and abundant in the state.



#### Critical Habitat

Critical habitat is a term defined by the ESA as a specific geographic area that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection. The ESA requires federal agencies to consult with the USFWS to conserve listed species on their lands and to ensure that any activities or projects they fund, authorize, or carry out will not jeopardize the survival of a threatened or endangered species. Federal agencies must also ensure that their activities or projects do not adversely modify critical habitat to the point that it will no longer aid in the species' recovery. In many cases, this level of protection is similar to that already provided to species by the ESA jeopardy standard. However, areas that are currently unoccupied by the species, but which are needed for the species' recovery, are protected by the prohibition against adverse modification of critical habitat.

#### Aquatic Resources

Watercourses and other waterbodies were classified using guidance from the *California Forest Practice Rules 2020* (FPR). Wetlands are determined using the USFWS National Wetland Inventory (NWI) database and are defined in the 1987 USACE Wetlands Delineation Manual as "Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Wetlands generally include swamps, marshes, bogs, and similar areas. Wet areas are areas with observed hydrophytic vegetation and/or other hydrologic indicators that suggest the area is influenced by ponding or flooding for a significant amount of time throughout the growing season. Wet areas should be given the same protections as wetlands for the purposes of this assessment until a wetland delineation is conducted to confirm the presence and extent of wetlands.

#### 3.5 Special-status Species

Special-status plants (native, vascular and non-vascular) and animals assessed are of limited abundance in California, with known occurrence or distribution in Mendocino County, and were derived from the following lists:

- Federal listed or threatened or endangered plants or species of concern (FT, FE, FSC)
- California State listed or rare, threatened or endangered plants or species of concern (SR, ST, SE, SP, SSC)
- Board of Forestry Sensitive (BFS)
- California Department of Fish and Wildlife (CDFW) Status animals: Fully Protected, Species of Special Concern and Watch List (FP, SSC, WL)
- California Native Plant Society Rare Plant Rank (CRPR) list 1A species (plants presumed extirpated in California, and either rare or extinct elsewhere)
- California Native Plant Society Rare Plant Rank (CRPR) list 1B species (plants rare, threatened or endangered in California and elsewhere)
- California Native Plant Society Rare Plant Rank (CRPR) list 2A species (plants presumed extirpated in California but more common elsewhere)
- California Native Plant Society Rare Plant Rank (CRPR) list 2B species (plants rare, threatened, or endangered in California but more common elsewhere)
- California Native Plant Society Rare Plant Rank (CRPR) list 3 (plants which more information is needed- a review list)



•Á California Native Plant Society Rare Plant Rank (CRPR) list 4 (plants of limited distribution – a watch list)

Rare, threatened, and endangered plants are not necessarily limited to those species which have been "listed" by state and federal agencies but should include any species that, based on all available data, is rare, threatened, and/or endangered under the following definitions:

A species, subspecies, or variety of plant is "endangered" when the prospects of its survival and reproduction are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, over-exploitation, predation, competition, or disease. A plant is "threatened" when it is likely to become endangered in the foreseeable future in the absence of protection measures. A plant is "rare" when, although not presently threatened with extinction, the species, subspecies, or variety is found in such small numbers throughout its range that it may be endangered if its habitat continues to deteriorate.

The site assessment is intended to identify the presence or absence of suitable habitat for specialstatus species known to occur within the Study Area. The site visit does not constitute a full season protocol-level survey and is not intended to determine the actual presence or absence of a species. If a special-status species is observed during the site visit, its presence will be recorded and discussed. All plant and wildlife species observed were recorded and are included in Appendix B.

#### Section 4.0: Study Area Setting

#### 4.1 Climate and Hydrology

The project site is located west of Ukiah, CA within Sections 19 and 30, Township 15N, Range 12W, Mount Diablo Base and Meridian, in the Ukiah USGS 7.5-minute quadrangle (Appendix D: Map 1, Study Area). The Study Area is located along a ridgetop that divides the Orrs Creek – Russian River watershed (HUC-12, 180101100403). The average annual precipitation is 41 to 63 inches, the average annual air temperature is 55-60 degrees F, and the average frost-free period is 240 to 340 days.

#### 4.2 Topography and Soils

The Study Area is located at approximately 840-1,600 feet in elevation and is underlain by two (2) soil mapping units, according to the United States Department of Agriculture, Natural Resources Conservation Service's *Web Soil Survey*: Map Unit Symbol 141, Hopland Ioam, 30 to 50 percent slopes; and Map Unit Symbol 151, Hopland-Wohly loams, 50 to 75 percent slopes (Appendix D: Map 4, Soil Map). A description of the soil series are as follows:

<u>Hopland loam, 30 to 50 percent slopes (Map Unit Symbol 141)</u>: This map unit is located on mountains and hills. Included in this unit are small areas of Squawrock, Hellman, Witherell and Cummiskey soils. California black oak and Pacific madrone are the main tree species. Among the trees of limited extent are Douglas-fir, Oregon white oak, interior live oak and blue oak. The elevation range is 490 to 2,400 feet.



•Á Hopland loam is moderately deep, well drained soils formed in material weathered from sandstone and shale. Redvine soils are on dissected stream terraces and have slopes of 2 to 30 percent.

<u>Hopland-Wohly loams, 50 to 75 percent slopes (Map Unit Symbol 151)</u>: This map unit is on hills and mountains. Included in this unit are small areas of Bearwallow, Cassabonne, Hellman and Squawrock soils. The native vegetation is mainly oaks and scattered pockets of Douglas-fir. The elevation range is 500 to 2,500 feet.

- •Á Hopland soil is moderately deep, well drained soils formed in material weathered from sandstone and shale.
- •Á Wholy soil is moderately deep, well drained soils formed in material weathered from sandstone and shale.

#### 4.3 Biota and Land Use

Regionally, the Study Area has historically been used primarily for timber and firewood production, recreation, homesite development, and wildlife habitat (USDA Web Soil Survey, 2021). Section 5 provides a detailed account of the biological communities found on-site, including sensitive and non-sensitive biological communities and additionally the special-status flora and fauna with potential to occur within the Study Area.

#### Section 5.0: Field Survey Results

#### 5.1 Biological Communities

The Study Area and immediate surroundings were assessed prior to a site a visit on February 5, 2021 to determine local biological communities present and develop a comprehensive list of all plant and wildlife species that may be present. Natural communities referred to in this report include Holland 1986 descriptions, USFS CALVEG classifications, and the Manual of California Vegetation (MCV2) alliance descriptions.

#### **Holland Descriptions:**

The Study Area is within Cismontane woodland, Valley and foothill grassland and Broadleaved upland forest habitat as best classified by the habitat classification system described by Holland 1986. Descriptions of these habitat types are as follows:

- •Á <u>Valley and Foothill Grassland</u>: Introduced, annual Mediterranean grasses and native herbs. On most sites the native bunch grass species, such as needle grass, have been largely or entirely supplanted by introductions. Stands rich in natives usually found on unusual substrates, such as serpentinite or somewhat alkaline soils.
- •Á <u>Cismontane Woodland:</u> Trees deciduous, evergreen, or both, with open canopies. Broadleaved trees, especially oaks, dominate, although conifers may be present in or emergent through the canopy. Understories may be open and herbaceous or closed and shrubby. This type occurs on a variety of sites below the conifer forests in Mediterranean California.



•Á <u>Broadleaved Upland Forest</u>: Stands of evergreen or deciduous, broadleaved trees 5 meters or more tall, forming closed canopies. Many, but not all, with very poorly developed understories. Several are seral to montane conifer forests. It includes the "mixed evergreen forest" of the Coast Ranges.

#### **USFS CALVEG Classifications:**

According to USDA Forest Service CALVEG mapping delineation, the regionally dominant vegetation type within the Study Area is comprised of Black oak, Oregon white oak, Pacific Douglas-fir, Douglas-fir-Ponderosa pine, Interior live oak and Interior mixed hardwood (Appendix D: Map 5, CALVEG Classification Map). Descriptions of these vegetation types are as follows:

- •A <u>California Black oak</u>: California Black Oak (*Quercus kelloggii*) occurs extensively in this zone at elevations up to about 6000 feet (1830 m). It has been mapped abundantly as a dominant hardwood in the Eastern Klamath Mountains and Oregon Mountain Subsections (Mountains Section) and in the Eastern and Central Franciscan and Konocti Flows Subsections (Ranges Section) and scattered 13 among twenty-five other subsections in the three sections. It may develop into relatively pure stands on moderately steep slopes or may associate with Oregon White Oak (*Q. garryana var. garryana*) and/or Canyon Live Oak (O. chrysolepis) on drier or harsher sites. These stands are commonly found within or below the Douglas-fir (Pseudotsuga menziesii), Mixed Conifer - Pine and Ponderosa Pine (Pinus ponderosa) types, often as a result of fire or other disturbance, especially in Douglas-fir areas. Black Oak commonly is a major understory hardwood in those conifer types and also typically grows on better soils than those of the Canyon Live Oak-dominant type. Commonly associated shrubs include both upper and lower montane species such as various Manzanitas (Arctostaphylos spp.), shrub Oaks (Quercus spp.), Deerbrush (Ceanothus intergerrimus), Brewer Oak (Q. garryana var. breweri), Wedgeleaf Ceanothus (C. cuneatus), etc.
- •Á <u>Pacific Douglas-Fir:</u> Douglas-fir (*Pseudotsuga menziesii*) is the dominant overstory conifer over a large area in the Mountains, Coast, and Ranges Sections. This alliance has been mapped at various densities in most subsections of this zone at elevations usually below 5600 feet (1708 m). Tanoak (*Lithocarpus densiflorus var. densiflorus*) is the most common hardwood associate on mesic sites towards the west. Along western edges of the Mountains Section, a scattered overstory of Douglas-fir often exists over a continuous Tanoak understory with occasional Madrones (*Arbutus menziesii*). Canyon Live Oak (*Quercus chrysolepis*) becomes an important hardwood associate on steeper or drier slopes and those underlain by shallow soils. Black Oak (*Q. kelloggii*) may often associate with this conifer but usually is not abundant. In addition, any of the following tree species may be sparsely present in Douglas-fir stands: Redwood (*Sequoia sempervirens*), Ponderosa Pine (*Pinus ponderosa*), Incense Cedar (*Calocedrus decurrens*), White Fir (Abies concolor), Oregon White Oak (*Q. garryana*) and Bigleaf Maple (*Acer macrophyllum*), among others. The shrub understory may also be quite diverse and includes a wide range of shrubs and forbs.



- •À <u>Interior Mixed Hardwood:</u> No single species is dominant in the Interior Mixed Hardwood Alliance, a mixture that has been mapped most extensively in the Central Franciscan and Ultrabasic Complex Subsections of the Mountains Section and the Mount St. Helena Flows and Valleys, Coast Franciscan and Marin Hills and Valleys Subsections of the Coast Section. It also occurs with less abundance in thirteen other subsections in all three sections. The mixture in this area includes diverse proportions of Oregon White (*Quercus garryana*), Canyon Live (*Q. chrysolepis*) and Blue (*Q. douglasii*) Oaks, with lesser amounts of California Bay (*Umbellifera californica*) and Coast Live Oak (*Q. agrifolia*). Conifer associates are mainly Douglas-fir (*Pseudotsuga menziesii*) and in western areas, Redwood (*Sequoia sempervirens*). This alliance has been mapped at elevations generally below about 4000 feet (1220 m). Annual grasses and forbs typically occur in these open sites.
- •A Oregon White Oak: Oregon White Oak (Quercus garryana) is widely distributed from British Columbia to this zone, with outlying scattered populations further east and south to the Sierra Nevada Mountains and southern California. The tree form (Q. g. var. garryana) becomes a local canopy dominant in woodlands of the three sections of this zone across thirty-one subsections, becoming especially prominent in seven of them. Mapped elevations of this type are usually below about 5800 feet (1768 m). Often developing on poor, exposed or droughty soils in inland valleys, foothills or rocky ridges, the Oregon White Oak type also is found in poorly drained areas having occasional standing water or next to stream terraces. On better sites, it is usually out-competed by species such as Douglas-fir (*Pseudotsuga menziesii*) and California Black Oak (Q. kelloggii), often becoming a minor element in mixed hardwood types. Other associated species include other conifers such as Ponderosa Pine (*Pinus ponderosa*), Gray Pine (P. sabiniana) and various Oaks (Quercus spp.). Open sites often have a grass understory.
- •À <u>Douglas-fir-Pine</u>: Douglas-fir (*Psuedotsuga menziesii*) shares canopy dominance with Ponderosa Pine (Pinus ponderosa) at elevations below about 6000 feet (1830 m) in drier sites of the Mountains and Ranges Sections, and more rarely in the eastern sectors of the Coast Section. The type has been mapped within twenty-nine subsections, having greater spatial frequency towards the east and south sections of the zone. Knobcone Pine (*P. attenuata*) may occasionally be present as a minor component of the conifer overstory. Pacific Madrone (*Arbutus menziesii*), California Black Oak (*Quercus kelloggii*), Canyon Live Oak (*Q. chrysolepis*) and Bigleaf Maple (*Acer macrophyllum*) are often present in the understory, while Tanoak (*Lithocarpus densiflorus var. densiflorus*) is usually absent. This type may grade into the Mixed Conifer - Pine type in the Coast Ranges as site conditions become more mesic or disturbance factors less significant in the landscape. It is less prominent in the moister, outermost Klamath Mountains area where it intermixes with Pacific Douglas-fir forests.



•Á Interior Live Oak: The Interior Live Oak (*Quercus wislizenii*) Alliance occurs mainly in southern areas of the Coast and Mountains Sections as mapped in eight subsections. It is often found to the north and east of the Coast Live Oak (*Q. agrifolia*) Alliance distribution and topographically above Blue Oak (*Q. douglasii*) dominated stands towards the east. This type often indicates xeric or rocky sites when associated with other hardwood types and has been mapped at elevations up to about 4400 feet (1342 m). The shrubby form (*Q. wislizenii var. frutescens*) may also dominate a site, especially in areas of frequent fires. Occasional trees and shrubs such as Douglas-fir (*Pseudotsuga menziesii*), Gray Pine (*Pinus sabiniana*), Blue Oak (*Q. douglasii*), Oregon White Oak (*Q. garryana*) and Chamise (*Adenostoma fasciculatum*) may be associated with this pure hardwood alliance. Interior Live Oak is known to hybidize with California Black Oak (*Q. kelloggii*) and Coast Live Oak (*Q. agrifolia*), occasionally making field identification more difficult.

#### **MCV2** Alliances:

Biological communities observed were classified using data collected in the field and the Manual of California Vegetation Online Edition (MCV2 Alliances, CNPS 2020b). Five (5) MCV2 Alliance communities (Appendix D: Map 6: MCV2 Classification Map) were observed on site:

- •Á Quercus garryana Forest & Woodland Alliance: Oregon white oak forest and woodland
- •Á Pseudotsuga menziesii Forest & Woodland Alliance: Douglas-fir forest and woodland
- •Á *Quercus kelloggii* Forest and Woodland Alliance: California black oak forest and woodland
- •Á Umbellularia californica Forest & Woodland Alliance: California bay forest and woodland
- •Á Pinus attenuata Forest & Woodland Alliance: Knobcone pine forest and woodland

Detailed descriptions of these communities are as follows:

Quercus garryana Forest & Woodland Alliance: Oregon white oak forest and woodland:

- •A Characteristics Species: Quercus garryana var. garryana is dominant or co-dominant in the tree canopy with Juniperous occidentalis, Pinus jeffreyi, Pinus ponderosa, Pinus sabiniana, Pseudotsuga menziesii, Quercus chrysolepis, Quercus kelloggii and Umbellularia californica.
- •Á Vegetation Layers: Trees < 30 m; canopy is open to continuous. Shrub layer is usually open. Herbaceous layer is open to intermittent and mostly grassy.
- •Á Membership Rules:
  - $\circ$ Á *Quercus garryana* > 30% relative cover in the tree canopy; > 25% absolute cover, and lacking an appreciable conifer cover.
  - •A *Quercus garryana* > 30% relative cover in the tree canopy often with other oaks such as *Q. kelloggii*.
- •Á Habitats: Raised stream benches, terraces, slopes. and ridges of all aspects.
- •Á State Rarity Rank: S3
- •Á Global Rarity Rank: G4



#### Pseudotsuga menziesii Forest & Woodland Alliance; Douglas-fir forest and woodland:

- •A Characteristic Species: *Pseudotsuga menziesii* is dominant or co-dominant with hardwoods in the tree canopy with *Abies concolor, Acer macrophyllum, Alnus rhombifolia, Arbutus menziesii, Calocedrus decurrens, Chamaecyparis lawsoniana, Cornus nuttali, Pinus contorta, Pinus lambertianana, Quercus agrifolia., Quercus chrysolepis, Quercus garryana, Quercus kelloggii,* and *Sequoia sempervirens.*
- •A Vegetation Layer: Trees <75m; canopy intermittent to continuous, and it may be twotiered. Shrubs are infrequent or common. Herbaceous layer is sparse or abundant.
- •Á Membership rules:
  - oÁ Pseudotsuga menziesii > 50% relative cover in the tree canopy and reproducing successfully, though hardwoods may dominate or co-dominate in the subcanopy and regeneration layer; Abies concolor, Chamaecyparis lawsoniana, Pinus contorta, P. ponderosa, and Sequoia sempervirens <20% relative cover; and Notholithocarpus densiflorus <10% relative cover in the tree canopy.</p>
- •Á Habitats: All topographic positions and aspects. Substrates various, including serpentine.
- •Á State Rarity Rank: S4
- •Á Global Rarity Rank: G5

Quercus kelloggii Forest and Woodland Alliance: California black oak forest and woodland:

- •A Characteristics Species: Quercus kelloggii is dominant or co-dominant in the tree camopy with Abies concolor, Arbutus menziesii, Calocedrus decurrens, Pinus attenuata, Pinus ponderosa, Pseudotsuga menziesii, Quercus agrofolia, Quercus chrysolepis, Quercus garryana, Quercus lobata and Umbellularia californica.
- •Á Vegetation Layers: Trees < 40 m; canopy is open to continuous. Shrub layer is open to intermittent. Herbaceous layer is sparse or grassy.
- •Á Membership Rules:
  - A Quercus kelloggii > 50% relative cover in overstory, and conifers are not conspicuous; or Q. kelloggii > 30% relative cover in the overstory and Pinus ponderosa may co-dominate.
  - $\circ$ Á *Quercus kelloggii* > 50% relative cover in the tree canopy; emergent conifers <10% relative cover.

oÁ Quercus kelloggii and Pinus ponderosa 30-60% relative cover in the overstory.

- •Á Habitats: All topographic positions and aspects. Soils are moderately to excessively drained.
- •Á State Rarity Rank: S4
- •Á Global Rarity Rank: G4

#### Pinus attenuata Forest & Woodland Alliance: Knobcone pine forest and woodland:

- •A Characteristic Species: Pinus attenuata is dominant or co-dominant in the tree canopy with Arbutus menziesii, Juniperus occidentalis, Notholithocarpus densiflorus, Pinus contorta, Pinus coulteri, Pinus monticola, Pinus radiata, Pinus sabiniana, Pseudotsuga menziesii, Quercus chrysolepis and Quercus wislizeni.
- •Á Vegetation Layers: Trees < 25 m; canopy is open to continuous and one or two tiered. Shrub layer is sparse to continuous. Herbaceous layer is sparse.



- •Á Membership Rules
  - •Á *Pinus attenuata* > 50% relative cover in the tree layer; if co-dominant, > 30% relative cover.
- •Á Habitats: Slopes of all aspects, ridges. Soils are derived notably from ultramafic, granitic, sedimentary, and volcanic substrates.
- •Á State Rarity S4
- •Á Global Rarity G4

Umbellularia californica Forest & Woodland Alliance: California bay forest and woodland:

- •A Characteristic Species: Umbellularia californica is dominant or co-dominant in the tree or tall shrub canopy with Acer macrophyllum, Aesculus californica, Alnus rhombifolia, Alnus rubra, Arbutus menziesii, Corylus cornuta, Juglans californica, Notholithocarpus densiflorus, Pinus sabiniana, Platanus racemosa, Pseudotsuga menziesii, Quercus agrifolia, Quercus chrysolepis, Quercus wislizeni and Sequoia sempervirens.
- •Á Vegetation Layers: Trees < 25 (30) m; canopy is intermittent to continuous. Shrub layer open to intermittent. Herbaceous layer is sparse to abundant.
- •Á Membership Rules
  - •A Conifers < 30% relative cover in canopy, *Umbellularia californica* > 30% relative cover in the tree canopy.
  - •Á *Umbellularia californica* usually > 50% relative cover in the overstory as a tree or tall shrub; when with *Alnus rhombifolia* or *Quercus wislizeni*, > 30% relative cover.
- •Á Habitats: Alluvial benches, streamsides, valley bottoms, coastal bluffs, inland ridges, steep north-facing slopes, rocky outcrops. Soils are shallow to deep, sandy to clay loams. The USFWS Wetland Inventory (1996 national list) recognizes *Umbellularia californica* as a FAC plant.
- •Á State Rarity: S3
- •Á Global Rarity: G4

#### 5.1.1 Non-sensitive Biological Communities

Non-sensitive biological communities are those communities that are not afforded special protection under CEQA, and other Federal, State, and local laws, regulations, and ordinances. The Study Area is comprised of three (3) non-sensitive biological communities, as classified under the MCV2 system:

*Pseudotsuga menziesii* Forest & Woodland Alliance: Douglas-fir forest and woodland CDFW State Rarity Rank: S4 (Apparently Secure)

*Quercus kelloggii* Forest and Woodland Alliance: California black oak forest and woodland CDFW State Rarity Rank: S4 (Apparently Secure)

*Pinus attenuata* Forest & Woodland Alliance: Knobcone pine forest and woodland CDFW State Rarity Rank: S4 (Apparently Secure)

Descriptions of these communities are listed above in section 5.1, Biological Communities, and include the Manual of California Vegetation (MCV2) alliance descriptions.



#### 5.1.2 Sensitive Biological Communities

Sensitive biological communities include those that are listed in CNDDB as well as observed MCV2 alliances or associations with state ranks of S1-S3 and are listed on CDFW's *List of California Sensitive Natural Communities* (CDFW 2020). The Study Area is comprised of two (2) non-sensitive biological communities, as classified under the MCV2 system:

*Quercus garryana* Forest & Woodland Alliance: Oregon white oak forest and woodland CDFW State Rarity Rank: S3 (Vulnerable).

*Umbellularia californica* Forest & Woodland Alliance: California bay forest and woodland CDFW State Rarity Rank: S3 (Vulnerable).

Recommendations to avoid or mitigate potential impacts to sensitive natural communities are discussed in Section 6.0, Assessment Summary and Recommendations.

#### Sensitive Aquatic Resources:

The Study Area contains two (2) Class II watercourses and four (4) Class III watercourses that were observed and mapped on-site.

Recommendations to avoid or mitigate potential impacts to aquatic resources are discussed in Section 6.0, Assessment Summary and Recommendations.

#### 5.2 Special-status Species

#### 5.2.1 Special-status Plant Species

Upon review of the resource databases (Appendix E: listed in Section 3.2, forty-six (46) specialstatus plant species have been documented within the vicinity of the Study Area. Please refer to Appendix A for a table of all special-status plant species which occur within a nine-quad search surrounding the Study Area and additional discussion of the potential for each species to occur within the Study Area. Special-status species documented within five miles of the Study Area are depicted in the CNDDB Vicinity map (Appendix D: Map 3, CNDDB Vicinity Map).

Of the forty-six (46) special-status plant species within the vicinity of the Study Area, seventeen (17) special-status plant species have a moderate to high potential to occur within the Study Area. The remaining twenty-nine (29) special-status plant species documented within the vicinity of the Study Area are unlikely to occur or do not have the potential to occur due to one or more of the following reasons:

- •Á Hydrologic conditions (e.g., vernal pools, riverine) necessary to support the special-status plant species are not present within the Study Area.
- •Á Edaphic conditions (soils, e.g., rocky outcrops, serpentinite) necessary to support the special-status plant species are not present within the Study Area.
- •Á Topographic conditions (e.g., montane) necessary to support the special-status plant species are not present within the Study Area.
- •Á Unique pH conditions (e.g., alkali scalds, acidic bogs) necessary to support the specialstatus plant species are not present within the Study Area.



- Associated vegetation communities (e.g., interior chaparral, tidal marsh) necessary to support the special-status plant species are not present within the Study Area.
- The Study Area is geographically isolated (e.g., outside of required elevations, coastal environment) from the documented range of the special-status plant species.
- Ecological conditions (last recorded observations, human-made or natural disturbance) have encroached on species to a point to cause presumed extinction.

The habitat requirements for the seventeen (17) special-status plant species with moderate or high potential to occur within the Study Area is described in the table below:

SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Plants			
mountain lady's-slipper <i>Cypripedium</i> <i>montanum</i> Rank 4.2	Lower montane coniferous forest, broadleaved upland forest, cismontane woodland, north coast coniferous forest, often on dry, undisturbed slopes. Elevation ranges from 607 to 7300 feet (185 to 2225 meters). A perennial herb (rhizomatous), the blooming period is from Mar-Aug.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment or during the botanical survey conducted on March 30. There are no recommendations for this species.
Koch's cord moss <i>Entosthodon</i> <i>kochii</i> Rank 1B.3	Cismontane woodland, often growing on soil over riverbanks. Elevation ranges from 607 to 1198 feet (185 to 365 meters). A moss, there is no distinct blooming period.	Moderate Potential. Cismontane woodland is present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment and there are no recommendations for this species.
stinkbells <i>Fritillaria</i> <i>agrestis</i> Rank 4.2	Cismontane woodland, chaparral, valley and foothill grassland, pinyon and juniper woodland, sometimes on serpentine soil, mostly found in non-native grassland or in grassy openings in clay soil. This species has a serpentine affinity of 2.7 (strong indicator). Elevation ranges from 33 to 5102 feet (10 to 1555 meters). A perennial bulbiferous herb, the blooming period is from Mar-Jun.	<b>Moderate Potential.</b> The Study Area contains chapparal habitat that may be suitable for this species.	Not Observed. This species was not observed during the biological assessment or during the botanical survey conducted on March 30. There are no recommendations for this species.
Roderick's fritillary <i>Fritillaria</i> <i>roderickii</i> Rank 1B.1	Coastal bluff scrub, coastal prairie, valley and foothill grassland, often on grassy slopes, mesas. Elevation ranges from 66 to 2002 feet (20 to 610 meters). A perennial herb (bulb), the blooming period is from Mar-May.	Moderate Potential. Grassland habitat is present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment or during the botanical survey conducted on March 30. There are no recommendations for this species.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Mendocino tarplant <i>Hemizonia</i> congesta ssp. calyculata Rank 4.3	Cismontane woodland, valley and foothill grassland, open woods and forests, sometimes on serpentine. <i>H. congesta ssp.</i> <i>calyculata</i> has a serpentine affinity of 1.5 (weak indicator). Elevation ranges from 738 to 4593 feet (225 to 1400 meters). An annual herb, the blooming period is from Jul-Nov.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Jul- Nov).
congested- headed hayfield tarplant <i>Hemizonia</i> <i>congesta ssp.</i> <i>congesta</i> Rank 1B.2	Valley and foothill grassland, often in fallow fields, sometimes along roadsides. <i>H. congesta</i> ssp. <i>congesta</i> has a serpentine affinity (1.3, weak indicator/indifferent). Elevation ranges from 17 to 1706 feet (5 to 520 meters). An annual herb, the blooming period is from Apr-Nov.	Moderate Potential. Grassland habitat is present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Nov).
Contra Costa goldfields <i>Lasthenia</i> <i>conjugens</i> FE Rank 1B.1	Valley and foothill grassland, vernal pools, alkaline playas, cismontane woodlands, often found in swales and low depressions in open grassy areas. Elevation ranges from 4 to 1477 feet (1 to 450 meters). An annual herb, the blooming period is from Mar-Jun.	<b>Moderate Potential.</b> The Study Area contains the required habitat (cismontane woodland and grassland habitat) and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment or during the botanical survey conducted on March 30. There are no recommendations for this species.
bristly leptosiphon <i>Leptosiphon</i> <i>acicularis</i> Rank 4.2	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Elevation ranges from 181 to 4922 feet (55 to 1500 meters). An annual herb, the blooming period is from Apr-Jul.	Moderate Potential. The Study Area contains the required habitat (cismontane woodland) and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period for this species. It is recommended to survey for this species during the appropriate blooming period (Apr- Jul).



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
broad-lobed leptosiphon <i>Leptosiphon</i> <i>latisectus</i> Rank 4.3	Broadleaved upland forest, cismontane woodland. <i>L.</i> <i>latisectus</i> has a serpentine affinity of 2.0 (weak indicator). Elevation ranges from 558 to 4922 feet (170 to 1500 meters). An annual herb, the blooming period is from Apr- Jun.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr- Jun).
redwood lily <i>Lilium</i> <i>rubescens</i> Rank 4.2	Chaparral, lower montane coniferous forest, broadleaved upland forest, upper montane coniferous forest, north coast coniferous forest, sometimes on serpentine. <i>L. rubescens</i> has a serpentine affinity of 2 (weak indicator). Elevation ranges from 99 to 6267 feet (30 to 1910 meters). A perennial herb (bulb), the blooming period is from Apr- Aug.	Moderate Potential. Broadleaved upland forest is present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr- Aug).
green monardella <i>Monardella</i> <i>viridis</i> Rank 4.3	Broadleaved upland forest, chaparral, cismontane woodland. Elevation ranges from 328 to 3314 feet (100 to 1010 meters). A perennial herb, the blooming period is from Jun-Sep.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr- Jun).
white- flowered rein orchid <i>Piperia</i> <i>candida</i> Rank 1B.2	North Coast coniferous forest, lower montane coniferous forest, broadleaved upland forest, sometimes on serpentine. Often found in forest duff, mossy banks, ultramafic (serpentine) rock outcrops and muskeg. <i>P. candida</i> has a serpentine affinity of 1.2 (weak indicator/indifferent). Elevation ranges from 66 to 5299 feet (20 to 1615 meters). A perennial herb, the blooming period is from May-Sep.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (May-Sep).



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Mayacamas popcornflower <i>Plagiobothrys</i> <i>lithocaryus</i> Rank 1A	Chaparral, cismontane woodland, valley and foothill grassland, moist sites. Elevation ranges from 985 to 1477 feet (300 to 450 meters). An annual herb, the blooming period is from Apr- May.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-May).
beaked tracyina <i>Tracyina</i> <i>rostrata</i> Rank 1B.2 USFS: S	Cismontane woodland, valley and foothill grassland, chaparral, often observed in open grassy meadows commonly within oak woodland and grassland habitats. Elevation ranges from 492 to 2609 feet (150 to 795 meters). An annual herb, the blooming period is from May-Jun.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (May-Jun).
showy Indian clover <i>Trifolium</i> <i>amoenum</i> FE Rank 1B.1	Valley and foothill grassland, coastal bluff scrub, sometimes on serpentine soils (ultramafic), open sunny sites, swales, along roadsides and eroding cliff faces. <i>T. amoenum</i> has an ultramafic affinity (1.3, weak indicator, indifferent). Elevation ranges from 17 to 1017 feet (5 to 310 meters). An annual herb, the blooming period is from Apr-Jun.	Moderate Potential. Grassland habitat is present within the Study Area and this species is sometimes found in serpentine soil, but not always. The Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr- Jun).
Methuselah's beard lichen Usnea longissima Rank 4.2	North coast coniferous forest, broadleaved upland forest. Often grows in the "redwood zone" on tree branches of a variety of trees, including bigleaf maple ( <i>Acer</i> macrophyllum), various oaks ( <i>Quercus spp.</i> ), ash ( <i>Fraxinus</i> <i>spp.</i> ), Douglas-fir ( <i>Pseudotsuga</i> menziesii) and California bay ( <i>Umbellularia californica</i> ). Elevation ranges from 148 to 4807 feet (45 to 1465 meters).	Moderate Potential. Broadleaved upland forest is present within the Study Area; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment. Trees are not proposed for removal; therefore, there are no recommendations for this species.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
oval-leaved	Chaparral, cismontane woodland,	Moderate Potential.	Not Observed. This
viburnum	lower montane coniferous forest.	Cismontane woodland is	species was not observed
	Elevation ranges from 706 to	present within the Study	during the biological
Viburnum	4593 feet (215 to 1400 meters). A	Area and may provide	assessment; however, the
ellipticum	shrub, the blooming period is	suitable habitat for this	biological assessment
	from May-Jun.	species.	was not conducted
Rank 2B.3			during the blooming
			period. It is
			recommended to survey
			for this species during
			the appropriate blooming
			period (May-Jun).

No special-status plant species were observed within the Study Area during the Biological Assessment. A complete list of all plant and wildlife species observed within the Study Area was compiled during the site visit on February 5, 2021. A botanical survey was conducted on March 30, 2021. Further botanical surveys will be conducted in May and July of 2021 and results will be amended to this report.

#### 5.2.2 Special-status Animal Species

A total of forty-four (44) special-status wildlife species have been documented within the vicinity of the Study Area. Please refer to Appendix A for a table of all special-status wildlife species which occur within the vicinity of the Study Area and discussion of the potential for each species to occur within the Study Area. Special-status species documented within five miles of the Study Area are depicted in the CNDDB Vicinity map (Appendix D: Map 3, CNDDB Vicinity Map).

Of the forty-four (44) special-status wildlife species within the vicinity of the Study Area, thirteen (13) special-status wildlife species recorded have a moderate to high potential to occur within the Study Area. The remaining thirty-one (31) special-status wildlife species documented within the vicinity of the Study Area are unlikely to occur or do not have the potential to occur due to one or more of the following reasons:

- •Á Aquatic Habitats (e.g., streams, rivers, vernal pools) necessary to support special-status wildlife species are not present within the Study Area.
- •Á Vegetation Habitats (e.g., forested area, riparian, grassland) that provide nesting and/or foraging resources necessary to support special-status wildlife species are not present within the Study Area.
- •Á Physical Structures and Vegetation (e.g., caves, old-growth trees) that provide nesting, cover, and/or foraging habitat necessary to support special-status wildlife species are not present within the Study Area.
- •Á Host Plants (e.g., *Cirsium sp.*) that provide larval and nectar resources necessary to support special-status wildlife species are not present within the Study Area.
- •Á Historic and Contemporary Disturbance (e.g., cattle grazing, agriculture) deter the presence of the special-status wildlife species from occupying the Study Area.



•Á The Study Area is outside the documented nesting range of special-status wildlife species.

The thirteen (13) special-status wildlife species with moderate or high potential to occur within the Study Area are described in the table below.

SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Amphibians			
red-bellied newt <i>Taricha</i> <i>rivularis</i> CDFW: SSC IUCN: LC	<i>T. rivularis</i> inhabits coastal forests, typically in redwood ( <i>Sequoia sempervirens</i> ) forest habitat although also found in other forest types (hardwood etc.). Adults are terrestrial and fossorial. Transformed juveniles leave aquatic environments and go into hiding in underground shelters, often until ready to reproduce. Breeding occurs in streams often with relatively strong flows.	<b>High Potential.</b> Habitat within the Study Area is ranked High (1.00) in suitability according to the CWHR Predicted Habitat Suitability Map. Aquatic habitat is not present within the Study Area; however, the Study Area may be used for migration and refugia. There is a known occurrence of this species approximately 0.7 miles northwest from the Study Area along Gibson Creek according to CNDDB.	Not Observed. This species was not observed during the biological assessment. It is recommended to survey for this species prior to ground disturbance.
Avifauna			I
northern goshawk Accipiter gentilis BLM: S CDF: S CDFW: SSC IUCN: LC USFS: S	A. gentilis are often found in dense, mature and old growth stands of conifer and deciduous habitats. Younger seral stands that include larger residual or defective trees are also used. Nest often on cooler (northerly or easterly) moderate slopes in dense vegetation or within riparian zones, but close to openings. Nest sites are often located next to water, which may provide a break in canopy for easy access to the nest stand or may influence microclimate or prey distribution.	<b>High Potential.</b> Habitat within the Study Area is ranked Medium (0.44) and High (1.00) in suitability according to the CWHR Predicted Habitat Suitability Map. There are no stands of dense, mature and old growth conifer or deciduous forest in the immediate vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	Not Observed. This species or nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
golden eagle Aquila chrysaetos BLM: S CDF: S CDFW: FP, WL IUCN: LC USFWS: BCC	A. chrysaetos is an uncommon permanent resident in northern California. This species ranges from sea level up to 11,500 feet inhabiting rolling foothills, mountain areas, sage-juniper flats and desert. This species frequently nests in secluded cliffs of all heights with overhanging ledges and in large trees in open areas.	High Potential. Habitat within the Study Area is ranked Moderate (0.44) and High (1.00) in suitability according to the CWHR Predicted Habitat Suitability Map. There are no stands of dense, mature and old growth conifer or deciduous forest in the immediate vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	Not Observed. This species or nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.
osprey Pandion haliaetus CDF: S CDFW: WL IUCN: LC	<i>P. haliaetus</i> are strictly associated with large, fish- bearing waters, primarily in ponderosa pine and mixed conifer stands. Foraging habitat consists of open, clear waters, rivers, lakes, reservoirs, estuaries, lagoons, swamps, marshes, and bays. Diet consists almost exclusively live fish. Large trees, snags, and blown- out treetops are used for cover and nesting. Nests are located on or near the tops of trees, snags, cliffs, or human-made structures.	<b>High Potential.</b> Habitat within the Study Area is ranked Moderate (0.44) and High (0.77) in suitability according to the CWHR Predicted Habitat Suitability Map. There are no stands of dense, mature and old growth conifer or deciduous forest in the immediate vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	Not Observed. This species or nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.
yellow warbler <i>Setophaga</i> <i>petechia</i> CDFW: SSC USFWS: BCC	<i>S. petechia</i> often inhabits riparian deciduous habitats in summer: willows, alders, cottonwoods, and other small trees and shrubs typical of low, open canopy riparian woodland. This species will also breed in montane shrubbery in open conifer forest. S. petechia migrates through woodland, forest and shrub habitats. Nests above ground in a deciduous dappling or shrub.	Moderate Potential. Habitat within the Study Area is ranked Low (0.22) to Moderate (0.44) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area contains does contain montane shrubs in open conifer and deciduous forest that may be potential habitat for this species.	Not Observed. This species was not observed during the biological assessment. It is recommended that nesting bird surveys be conducted prior to vegetation removal.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
northern spotted owl Strix occidentalis caurina FT, ST CDF: S IUCN: NT NABCI: YWL	<i>S. occidentalis caurina</i> are year- round residents in dense, structurally complex forests, primarily with old-growth conifers. Nests on snags and within tree cavities, and often is associated with existing structures (old raptor nests, squirrel nests and <i>A. pomo</i> nests).	Moderate Potential. The Study Area is approximately 4.3 miles southeast from the closest NSO Activity Center and 4.5 miles northeast from the nearest critical habitat as identified by the USFWS. The Study Area is located within suitable habitat according to the CWHR Predicted Habitat Suitability Map. The Study Area does not contain large conifers for nesting but may provide suitable foraging habitat for this species.	Not Observed. This species or evidence of this species was not observed during the biological assessment. Trees are not proposed for removal; therefore, there are no recommendations for this species.
Insects			
obscure bumble bee <i>Bombus</i> <i>caliginosus</i> CDFW: SSC IUCN: VU	<i>B. caliginosus</i> are often found in coastal areas from Santa Barbara county north to Washington state. Food plant genera includes <i>Baccharis, Cirisum, Lupinus,</i> <i>Lotus, Grindelia,</i> and <i>Phacelia</i> .	<b>Moderate Potential.</b> The Study Area contains suitable habitat and food plant genera for this species.	Not Observed. This species was not observed during the biological assessment. Brush and grassland are proposed for removal; however, there is adequate potential habitat surrounding the Study Area. There are no recommendations for this species.
western bumble bee <i>Bombus</i> <i>occidentalis</i> State: CE USFS: S Xerces: IM	<i>B. occidentalis</i> are formerly common throughout much of western North America; however, populations from southern British Columbia to central California have nearly disappeared. They occur in a variety of habitat types and are generalist pollinators. <i>B.</i> <i>occidentalis</i> are commonly encountered along stream banks, meadows, disturbed areas, or on flowers by roadsides.	Moderate Potential. The Study Area contains suitable habitat and food plant genera for this species.	Not Observed. This species was not observed during the biological assessment. Brush and grassland are proposed for removal; however, there is adequate potential habitat surrounding the Study Area. There are no recommendations for this species.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Mammals			
Sonoma tree vole Arborimus pomo CDFW: SSC IUCN: NT	A. pomo lives in humid coastal forests consisting of Douglas-fir, grand fir, western hemlock, and/or Sitka spruce. This species requires Douglas-fir and grand fir needles as a food source and nesting materials. Nests are frequently found in trees along the bole, in branch crotches, or in the top of snags. Nests are most often found along roads, skid trails, or forest edges; however, they could exist further in the forest with dense canopies making nest identification difficult. This species is distributed along the North Coast from Sonoma County north to the Oregon border, being practically restricted to the fog belt.	Moderate Potential. Habitat within the Study Area is not suitable in some areas, ranks Low (0.33) withing Montane Hardwood- Conifer habitat and High (1) within Conifer Forest habitat according to the CWHR Predicted Habitat Suitability Map. The Study Area does contain Douglas-fir trees and map provide suitable habitat for this species.	Not Observed. This species or evidence of this species was not observed during the biological assessment. Trees are not proposed for removal, but if trees were to be removed, it is recommended to survey those trees for this species.
North American porcupine <i>Erethizon</i> <i>dorsatum</i> IUCN: LC	<i>E. dorsatum</i> are commonly found in coniferous and mixed forested areas, and can also inhabit shrublands, tundra and deserts, albeit less frequently as this species tends to spend much of its time in trees. This species makes its dens in hollow trees, decaying logs and caves in rocky areas. Recognized as primarily solitary and nocturnal, <i>E.</i> <i>dorsatum</i> may be seen foraging during daytime.	Moderate Potential. Habitat within the Study Area is ranked Low (0.33) within the Montane Hardwood habitat to Moderate (0.55) within the Hardwood-Montane Conifer habitat in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area may contain suitable habitat for this species.	Not Observed. This species or evidence of this species was not observed during the biological assessment. It is recommended to survey for this survey prior to ground disturbance.
western red bat <i>Lasiurus</i> <i>blossevillii</i> CDFW: SSC IUCN: LC WBWG: H	L. blossevillii roosts primarily in trees, often 2-40ft above the ground from sea level through mixed conifer forests. Typical habitats include cismontane woodland, lower montane coniferous forest, riparian forests and woodlands. This species prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Moderate Potential. Habitat within the Study Area is ranked Moderate (0.66) within the Hardwood- Montane Conifer habitat in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area may contain suitable habitat for this species.	Not Observed. This species or evidence of this species was not observed during the biological assessment. There are no further recommendations for this species.



SPECIES	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
hoary bat	L. cinereus are yearlong	Moderate Potential.	Not Observed. This
	residents of Mendocino County.	Habitat within the Study	species was not
Lasiurus	This bat is one of the few bats	Area is ranked Moderate	observed during the
cinereus	knows to both migrate south for	(0.55) within the Hardwood-	biological assessment.
	winter and to hibernate locally.	Montane Conifer habitat in	It is recommended to
CDFW: SSC	Hoary bat daytime roosts are	suitability according to the	survey for this survey
	typically dense foliage of	CWHR Predicted Habitat	prior to ground
IUCN: LC	medium to large sized trees.	Suitability Map. The Study	disturbance.
	This bat occupies a variety of	Area may contain suitable	
WBWG: M	habitats including dense forest,	habitat for this species.	
	forest edges, coniferous forests,		
	deserts, and broadleaf forests.		
fisher [West	P. pennanti are primarily	Moderate Potential. Habitat	Not Observed. This
Coast DPS]	solitary, except during breeding	within the Study Area is	species was not
	season (February – April) and	ranked from no suitable	observed during the
Pekania	they inhabit forest stands with	habitat $(0)$ to High $(1)$ in	biological assessment.
pennanti	late-successional characteristics	suitability according to the	Trees present within the
-	including intermediate-to-large	CWHR Predicted Habitat	Study Area do not
	tree stages of coniferous forest	Suitability Map and may	exhibit late
ST	and deciduous-riparian areas	provide suitable habitat for	successional
	with high percent canopy	this species.	characteristics and none
CDFW: SSC	closure. Den site and prey		are not proposed for
	availability are often associated		removal for this
USFS: S	with these characteristics. P.		project. There are no
	pennanti use cavities, snags,		further
	logs and rocky areas for cover		recommendations for
	and denning and require large		this species.
	areas of mature, dense forest.		

No special status animal species were observed within the Study Area during the biological site assessment. A complete list of all plant and wildlife species observed within the Study Area was compiled during the site visit on February 5, 2021 or March 30, 2021.

#### Section 6.0: Assessment Summary and Recommendations

#### 6.1 Biological Communities

The Study Area is comprised predominantly of three (3) non-sensitive biological communities, two (2) sensitive biological communities, as well as several watercourses as determined during on-site biological assessments on February 5, 2021 and March 30, 2021 (Appendix D: Map 5, MCV2 Alliance Classifications).

### Non-Sensitive Communities:

Under the MCV2 alliance classification system, site visits on February 5, 2021 and March 30, 2021 determined that non-sensitive communities within the Study Area are best classified as *Pseudotsuga menziesii* Forest & Woodland Alliance: Douglas-fir forest and woodland, *Quercus kelloggii* Forest and Woodland Alliance: California black oak forest and woodland and *Pinus attenuata* Forest & Woodland Alliance: Knobcone pine forest and woodland. Detailed descriptions of these biological communities are discussed in section 5.1. There are no recommendations for non-sensitive communities.



#### **Sensitive Communities:**

Sensitive biological communities include those that are listed in CNDDB as well as observed MCV2 alliances or associations with state rarity ranks of S1-S3 and are listed on CDFW's *List of California Sensitive Natural Communities* (CDFW 2020). Two (2) sensitive communities, as classified under the MCV2 alliance classification system, exist within the Study Area and were observed on-site. More detailed descriptions of these sensitive communities are discussed in Section 5.1.2.

<u>*Quercus garryana* Forest & Woodland Alliance (Oregon white oak forest and woodland)</u>: This community has a Global Rarity Rank of G4 (Apparently Secure) and a State Rarity Rank of S3 (Vulnerable). It is recommended that any proposed work within or in the vicinity of this community avoid the removal of *Quercus garryana*. This community may also provide habitat for nesting birds protected by the Migratory Bird Treaty Act (MBTA) and it is recommended that nesting bird surveys be conducted for any activities that require vegetation removal between March 1st and August 31st of any year. Other management considerations for the preservation of this community include thinning or removal of conifer species within the stand in accordance with local laws, regulations, and ordinances. Such thinning could limit the possibility of vegetation type conversion to closed-canopy woodlands and conifer forest and inhibit the development of fuel ladders that increase the potential for stand-replacing fires. Any removal of *Quercus garryana* cannot be done without consultation with CDFW, and all work within this community shall adhere to CDFW recommendations. It is the understanding of Jacobszoon & Associates, Inc. that no tree removal is proposed.

<u>Umbellularia californica Forest & Woodland Alliance: California bay forest and woodland:</u> This community has a Global Rarity Rank of G4 (Apparently Secure) and a State Rarity Rank of S3 (Vulnerable). It is recommended that any proposed work within or in the vicinity of this community avoid the removal of *Umbellularia californica*. This community may also provide habitat for nesting birds protected by the Migratory Bird Treaty Act (MBTA) and it is recommended that nesting bird surveys be conducted for any activities that require vegetation removal between March 1st and August 31st of any year. Other management considerations for the preservation of this community include thinning or removal of conifer species within the stand in accordance with local laws, regulations, and ordinances. Such thinning could limit the possibility of vegetation type conversion to closed-canopy woodlands and conifer forest and inhibit the development of fuel ladders that increase the potential for stand-replacing fires. Any removal of *Umbellularia californica* cannot be done without consultation with CDFW, and all work within this community shall adhere to CDFW recommendations. It is the understanding of Jacobszoon & Associates, Inc. that no tree removal is proposed.

Aquatic resources, communities, and habitats (e.g. watercourses, ponds, wetlands, vernal pools, etc.) are considered sensitive biological communities and are afforded special protections under CEQA and other Federal, State, and local laws, regulations, and ordinances. Aquatic habitats present within the Study Area could provide suitable aquatic or riparian habitats for sensitive flora and fauna.



Two (2) Class II watercourses and several Class III watercourses within the Study Area. Recommendations for aquatic resources are listed below:

- •Á It is recommended that all earthwork adjacent to any watercourse or other body of water adhere to standard methods of erosion and sediment control and, if possible, to complete all work while the channel is dry to reduce sediment load downstream.
- Á It is recommended that a qualified biologist be on site for any dewatering event to address the potential for the presence of sensitive aquatic species such as foothill yellow-legged frog (*Rana boylii*).
- •Á It is recommended that any work within a watercourse or water body with the potential to impact aquatic resources be conducted in compliance with s CDFW's Lake and Streambed Alteration Agreement.
- •Á It is recommended that future expansions or development associated with this project be located outside of the NFHL 100-year flood zone as well as SWRCB setbacks.

A Class II watercourse located approximately 225 feet north of the Study Area is mapped on the USFWS National Wetland Inventory (Appendix D: Map 7, NWI mapped wetlands) as a riverine habitat classified as R4SBC. R4SBC is a riverine intermittent system with a streambed and is seasonally flooded. Riverine systems are considered watercourses for the purposes of this assessment. The proposed project will not impact this watercourse.

#### 6.2 Special-status Species

Seventeen (17) special-status plant species and thirteen (13) special-status wildlife species have a moderate or high potential to occur within the Study Area based on habitat present. No special status plant or wildlife species were observed within the Study Area during the biological site assessment.

#### 6.2.1 Special-status Plant Species

Seventeen (17) special status plant species have a moderate or high potential to occur within the Study Area: mountain lady's-slipper (*Cypripedium montanum*), Koch's cord moss (*Entosthodon kochii*), stinkbells (*Fritillaria agrestis*), Roderick's fritillary (*Fritillaria roderickii*), Mendocino tarplant (*Hemizonia congesta ssp. calyculata*), congested-headed hayfield tarplant (*Hemizonia congesta ssp. calyculata*), congested-headed hayfield tarplant (*Hemizonia congesta ssp. calyculata*), stinkbells (*Lasthenia conjugens*), bristly leptosiphon (*Leptosiphon acicularis*), broad-lobed leptosiphon (*Leptosiphon latisectus*), redwood lily (*Lilium rubescens*), green monardella (*Monardella viridis*), white-flowered rein orchid (*Piperia candida*), Mayacamas popcornflower (*Plagiobothrys lithocaryus*), beaked tracyina (*Tracyina rostrata*) showy Indian clover (*Trifolium amoenum*), Methuselah's beard lichen (*Usnea longissimi*) and oval-leaved viburnum (*Viburnum ellipticum*).

Recommendations for special-status plant species are listed below:

•Á It is recommended that a seasonally appropriate botanical survey be conducted for the above listed species prior to any groundbreaking<sup>1</sup> activities.

<sup>&</sup>lt;sup>1</sup> The term "groundbreaking" encompasses vegetation removal, grading, or excavation.



No special-status plant species were observed during the biological site assessment. The biological site visit does not constitute a full season protocol-level botanical survey and is not intended to determine the actual presence or absence of a species. A botanical survey shall be conducted between March and July of 2021 and the results will be amended into this report.

#### 6.2.2 Special-status Wildlife Species

Thirteen (13) special-status wildlife species have a moderate or high potential to occur within the Study Area. These species include red-bellied newt *(Taricha rivularis)*, northern goshawk *(Accipiter gentilis)*, golden eagle *(Aquila chrysaetos)*, osprey *(Pandion haliaetus)*, yellow warbler *(Setophaga petechia)*, northern spotted owl *(Strix occidentalis caurina)*, obscure bumble bee *(Bombus caliginosus)*, western bumble bee *(Bombus occidentalis)*, pallid bat *(Antrozous pallidus)*, Sonoma tree vole *(Arborimus pomo)*, North American porcupine *(Erethizon dorsatum)*, western red bat *(Lasiurus blossevillii)*, hoary bat *(Lasiurus cinereus)*, and fisher [West Coast DPS] *(Pekania pennanti)*.

#### <u>Amphibians</u>

One (1) special-status amphibian has a moderate or high potential to occur within the Study Area; red-bellied newt *(Taricha rivularis)*.

Recommendations for this species are listed below:

•Á It is recommended that a qualified biologist survey the area prior to any groundbreaking activities to determine the presence of special-status amphibian species.

No special-status amphibian species were observed within the Study Area during the biological site assessment.

#### <u>Avifauna</u>

Five (5) special-status avian species have moderate or high potential to occur within the Study Area. These species include northern goshawk (*Accipiter gentilis*), golden eagle (*Aquila chrysaetos*), osprey (*Pandion haliaetus*), yellow warbler (*Setophaga petechia*), and northern spotted owl (*Strix occidentalis caurina*). Additionally, most non-game bird species in California are protected under the Migratory Bird Treaty Act (MBTA) which prohibits the deliberate destruction of active nests belonging to protected species. Groundbreaking activities, specifically vegetation removal, within the Study Area during avian breeding periods have the potential to significantly impact nesting migratory bird species.

Recommendations for special-status avian species and migratory bird species are listed below:

- •Á It is recommended that all active bird nests not be removed, relocated, or otherwise disturbed for any purpose until all fledglings have left the nest.
- •Á It is recommended that nesting bird surveys be conducted prior to the commencement of any groundbreaking activities which occur between March 1st and August 31st of any year.

No avian special-status species were observed within the Study Area during the biological assessment.



#### Fish

The Study Area does not contain any special-status fish species or fish bearing watercourses or waterbodies. The nearest fish-bearing watercourse is a Class II watercourse, located approximately 225 feet north of the Study Area. It is recommended that all earthwork within or adjacent to any watercourse or waterbody adhere to standard methods of erosion and sediment control. Future development within the Study Area does not have the potential to impact special-status fish species. No special-status fish were observed during the biological site assessment.

#### **Insects**

Two (2) special-status insect species have moderate or high potential to occur within the Study Area. These species include the obscure bumble bee (*Bombus caliginosus*) and western bumble bee (*Bombus occidentalis*).

Recommendations for special-status insect species are listed below:

• If a special-status insect nests are observed, it is recommended that active nests not be removed, relocated, or otherwise disturbed until the nest becomes inactive.

No special-status insects or nests were observed within the Study Area during the biological site assessment.

#### <u>Mammals</u>

Five (5) special-status mammal species have moderate or high potential to occur within the Study Area. These species include the Sonoma tree vole (*Arborimus pomo*), North American porcupine (*Erethizon dorsatum*), western red bat (*Lasiurus blossevillii*), hoary bat (*Lasiurus cinereus*), and fisher [West Coast DPS] (*Pekania pennanti*).

Recommendations for special-status mammal species are listed below:

- If evidence of bat roosts are observed (i.e. bat guano, ammonia odor, grease stained cavities) around trees or structures, it is recommended that pre-construction bat surveys be conducted by a qualified biologist for activities that may affect bat roosting habitat.
- If evidence of special-status mammal borrows or denning activity is observed, it is recommended that pre-construction surveys be conducted by a qualified biologist for activities that may affect den sites.

No special-status mammals were observed during the biological site assessment. No evidence of special-status mammal species was observed during the biological site visit.

#### 6.3 Wildlife Corridors

No change to foraging or wintering habitat for migratory birds is expected as a result of the proposed project. Additionally, no significant impacts to migratory corridors for amphibian, aquatic, avian, mammalian, or reptilian species is expected as a result of the project.

#### 6.4 Critical Habitat

The Study Area does not contain and is not adjacent to critical habitat for any Federal or Statelisted species (Appendix E: USFWS IPAC Official Species List).



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Appendix A: Table of Potential for Special-Status Plants and Wildlife within the Study Area

SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Amphibians				
California giant salamander	CDFW: SSC	California giant salamanders are year-round residents of California and were split into two species – California giant salamander	<b>No Potential.</b> The Study Area is outside the known distribution range for this	Not Present. There are no recommendations for this species.
Dicamptodon ensatus	IUCN: NT	( <i>Dicamptodon ensatus</i> ) occurring south of the Mendocino County line and the coastal giant salamander ( <i>Dicamptodon tenebrosus</i> ) occurring in the north. <i>D. ensatus</i> are found in meadows and seeps, north coast coniferous forest and riparian forested habitats. <i>D. ensatus</i> occur in wet coastal forests in or near clear, cold permanent and semi-permanent streams and seepages. Adults leave terrestrial habitats to reproduce and both the reproduction and larval stages are aquatic with breeding occurring mostly in the spring.	species according to the CWHR Predicted Habitat Suitability Map.	
northern red-legged frog <i>Rana aurora</i>	CDFW: SSC IUCN: LC USFS: S	<i>R. aurora</i> are often observed within humid forests, woodlands, wetlands, grasslands and stream-sides in northwestern California, usually near dense riparian cover. This species is generally found near permanent water but can be found far from water in damp woods and meadows during the non-breeding season. Typical habitat types include Klamath/North coast flowing waters, riparian forest and woodland.	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
foothill yellow-legged frog <i>Rana boylii</i>	BLM: S CDFW: SSC IUCN: NT USFS: S	<i>R. boylii</i> occupy a diverse range of ephemeral and permanent streams, rivers, and adjacent moist terrestrial habitats. Occupied streams are often partly shaded, low gradient, and dominated by coarse, unconsolidated rocky substrates. Adults breed and tadpoles develop in slow water velocity habitats. Dispersing juvenile and adult frogs will seek refugia in Class II streams pre-and-post breeding, opposite of salmonids.	Unlikely. Habitat within the Study Area is ranked Low (0.33) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area itself does not contain suitable habitat for this species, although potential suitable breeding habitat may be in Doolin Creek a Class I watercourse located approximately 2,230 feet south of the Study Area. A Class II watercourse located approximately 225 feet north of the Study Area may be suitable winter refugia habitat as well.	<b>Not Observed.</b> This species was not observed during the biological assessment. There are no recommendations for this species.
red-bellied newt <i>Taricha rivularis</i>	CDFW: SSC IUCN: LC	<i>T. rivularis</i> inhabits coastal forests, typically in redwood ( <i>Sequoia sempervirens</i> ) forest habitat although also found in other forest types (hardwood etc.). Adults are terrestrial and fossorial. Transformed juveniles leave aquatic environments and go into hiding in underground shelters, often until ready to reproduce. Breeding occurs in streams often with relatively strong flows.	High Potential. Habitat within the Study Area is ranked High (1.00) in suitability according to the CWHR Predicted Habitat Suitability Map. Aquatic habitat is not present within the Study Area; however, the Study Area may be used for migration and refugia. There is a known occurrence of this species approximately 0.7 miles northwest from the Study Area along Gibson Creek according to CNDDB.	<b>Not Observed.</b> This species was not observed during the biological assessment. It is recommended to survey for this species prior to ground disturbance.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Avifauna				
northern goshawk	BLM: S	<i>A. gentilis</i> are often found in dense, mature and old growth stands of conifer and	High Potential. Habitat within the Study Area is	Not Observed. This species or nests were not
Accipiter gentilis	CDF: S	deciduous habitats. Younger seral stands that include larger residual or defective trees are	ranked Medium (0.44) and High (1.00) in suitability	observed during the biological assessment. No
	CDFW: SSC	also used. Nest often on cooler (northerly or easterly) moderate slopes in dense vegetation	according to the CWHR Predicted Habitat Suitability	trees are proposed for removal; however, it is
	IUCN: LC	or within riparian zones, but close to openings. Nest sites are often located next to water,	Map. There are no stands of dense, mature and old	recommended to survey for this species within 500
	USFS: S	which may provide a break in canopy for easy access to the nest stand or may influence microclimate or prey distribution.	growth conifer or deciduous forest in the immediate vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	feet of ground disturbance activities.
tricolored blackbird	SCE	<i>A. tricolor</i> breed and forage in a variety of	No Potential. The Study	Not Present. There are no
Agelaius tricolor	BLM: S	habitats including salt marshes, moist grasslands, freshwater marshes, bay-shore	Area is outside the known distribution range for this	recommendations for this species.
	CDFW: SSC	habitats, riparian forests and oak savannahs. <i>A.</i> <i>tricolor</i> use dense riparian vegetation such as Himalayan blackberry ( <i>Rubus armeniacus</i> ) for	species according to the CWHR Predicted Habitat Suitability Map. Riparian	
	IUCN: EN	nesting and forage in cultivated fields, wetlands, and feedlots associated with dairy farms.	forests with dense vegetation are not present within the Study Area.	
	NABCI: RWL		within the Study Area.	
	USFWS: BCC			



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
grasshopper sparrow Ammodramus	CDFW: SSC	<i>A. savannarum</i> are an uncommon and local, summer resident in foothills and lowlands west of the Cascade- Sierra Nevada crest from	<b>No Potential.</b> The Study Area does not have suitable habitat present according to	<b>Not Present.</b> There are no recommendations for this species.
savannarum	IUCN: LC	Mendocino and Trinity Counties south to San Diego County. <i>A. savannarum</i> nests on the ground in grasslands, prairie, cultivated fields, and grassy clearings in forests; particularly in areas with a variety of grasses and tall forbs and scattered shrubs for singing perches. Nests are typically found at the base of a small clump of overhanging grass or other vegetation.	the CWHR Predicted Habitat Suitability Map. Small patches of suitable habitat are present within the surrounding area.	
golden eagle	BLM: S	<i>A. chrysaetos</i> is an uncommon permanent resident in northern California. This species	<b>High Potential.</b> Habitat within the Study Area is	<b>Not Observed.</b> This species or nests were not
Aquila chrysaetos	CDF: S	ranges from sea level up to 11,500 feet inhabiting rolling foothills, mountain areas,	ranked Moderate (0.44) and High (1.00) in suitability	observed during the biological assessment. No
	CDFW: FP,	sage-juniper flats and desert. This species	according to the CWHR	trees are proposed for
	WL	frequently nests in secluded cliffs of all heights with overhanging ledges and in large trees in	Predicted Habitat Suitability Map. There are no stands of	removal; however, it is recommended to survey
	IUCN: LC	open areas.	dense, mature and old growth conifer or deciduous	for this species within 500 feet of ground disturbance
	USFWS:		forest in the immediate	activities.
	BCC		vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	
great blue heron	CDF: S	A. herodias are commonly found in shallow	<b>Unlikely.</b> Habitat within	Not Present. There are no
8		estuaries and fresh and saline emergent	the Study Area is ranked not	recommendations for this
Ardea herodias	IUCN: LC	wetlands. Foraging areas include river and creek banks, ponds, lakes, and watercourses in mountainous areas. This species often nests in colonies within a rookery tree.	suitable (0) to Low (0.22) to Moderate (0.44) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area itself contains no nesting or foraging habitat suited for this species.	species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
oak titmouse Baeolophus inornatus	IUCN: LC NABCI: YWL USFWS: BCC	<i>B. inornatus</i> are cavity-nesters found within oak or oak-pine woodlands, and many will use scrub oaks or other brush with woodlands nearby. This species occurs within montane hardwood-conifer, montane hardwood, oak woodlands ( <i>Quercus agrifolia</i> , <i>Q. douglasii</i> , <i>Q. lobata</i> ). <i>B. inornatus</i> typically eats seeds, various plant materials, insects and other invertebrates, foraging from the ground floor up to approximately 30 ft off the ground.	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	<b>Not Present.</b> There are no recommendations for this species.
western snowy plover Charadrius alexandrinus nivosus	FT CDFW: SSC NABCI: RWL USFWS: BCC	<i>C. alexandrinus nivosus</i> inhabit barren to sparsely vegetated sandy beaches, salt pond levees, Great Basin standing waters, wetlands and shores of large alkali lakes. Nesting habitat consists of sandy, gravelly or friable soils usually within a natural or scraped depression on dry ground. Diet consists of terrestrial and aquatic invertebrates.	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	<b>Not Present.</b> There are no recommendations for this species.
northern harrier Circus hudsonius	CDFW: SSC IUCN: LC	<i>C. hudsonius</i> are year-long residents of Mendocino and Lake County. They frequent meadows, alpine meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands and are seldom found in wooded areas. Usually hunts by flying low over fields, scanning the ground for small prey including mammals (voles, rats, other rodents), bird species ranging from songbirds to small ducks and large insects. Breeding occurs on meadows and marshland, both salt and freshwater. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	<b>No Potential.</b> The Study Area does not have suitable habitat present according to the CWHR Predicted Habitat Suitability Map. Small patches of Low (0.22) suitable habitat are present within the surrounding area.	Not Observed. This species or nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
yellow-billed cuckoo Coccyzus americanus	FT SE BLM: S	<i>C. americanus</i> use wooded habitat with dense cover and water nearby, including woodlands with low, scrubby vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes. This species makes their nests along horizontal	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	<b>Not Present.</b> There are no recommendations for this species.
	NABCI: RWL USFS: S	branches or the fork of a tree or large shrub, often between 3 to 90 feet (1 to 28 meters). Trees are often oak ( <i>Quercus</i> sp.), beech, hawthorn ( <i>Crataegus</i> sp.) and ash, often with	5 1	
	USFWS: BCC	lower story of blackberry, nettles or wild grapes.		
white-tailed kite	BLM: S	Often found in coastal, valley lowlands and agricultural areas, <i>E. leucurus</i> inhabit	<b>No Potential.</b> The Study Area does not have suitable	<b>Not Observed.</b> This species or nests were not
Elanus leucurus	CDFW: FP IUCN: LC	herbaceous and open stages of most habitats especially in cismontane California. This species' primary diet consists of small mammals (voles and other rodents), found in undisturbed, open grasslands, meadows, farmlands, and emergent wetlands (Waian et. al. 1970). Nests are often found in isolated, dense-topped trees.	Area does not have suitable habitat present according to the CWHR Predicted Habitat Suitability Map. Small patches of Low (0.32) suitable habitat are present within the surrounding area.	species of nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.
yellow-breasted chat	CDFW: SSC	<i>I. virens</i> inhabit riparian thickets of willow and other brushy tangles near watercourses.	<b>No Potential.</b> The Study Area is outside the known	Not Present. There are no recommendations for this
Icteria virens	IUCN: LC	Required habitat for this species is riparian forest, woodland, or scrub. Nests in low, dense riparian habitat often consisting of willow, blackberry, and wild grape within 10ft. of the ground.	distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Lewis' woodpecker Melanerpes lewis	CDFW: SSC IUCN: LC NABCI: YWL	<i>M. lewis</i> often inhabit oak savannahs, broken deciduous, and coniferous habitats. Nests are made at the forest edge (especially ponderosa pine) or in groves or scattered trees and requires snags for nest cavities. <i>M. lewis'</i> primary diet consists of insects, nuts, and fruits.	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	Not Present. There are no recommendations for this species.
	USFWS: BCC			
osprey Pandion haliaetus	CDF: S CDFW: WL IUCN: LC	<i>P. haliaetus</i> are strictly associated with large, fish-bearing waters, primarily in ponderosa pine and mixed conifer stands. Foraging habitat consists of open, clear waters, rivers, lakes, reservoirs, estuaries, lagoons, swamps, marshes, and bays. Diet consists almost exclusively live fish. Large trees, snags, and blown-out treetops are used for cover and nesting. Nests are located on or near the tops of trees, snags, cliffs, or human-made structures.	High Potential. Habitat within the Study Area is ranked Moderate (0.44) and High (0.77) in suitability according to the CWHR Predicted Habitat Suitability Map. There are no stands of dense, mature and old growth conifer or deciduous forest in the immediate vicinity of the Study Area; however, areas withing the Study Area does contain conifer and deciduous forest stands.	<b>Not Observed.</b> This species or nests were not observed during the biological assessment. No trees are proposed for removal; however, it is recommended to survey for this species within 500 feet of ground disturbance activities.
yellow warbler Setophaga petechia	CDFW: SSC USFWS: BCC	<i>S. petechia</i> often inhabits riparian deciduous habitats in summer: willows, alders, cottonwoods, and other small trees and shrubs typical of low, open canopy riparian woodland. This species will also breed in montane shrubbery in open conifer forest. S. petechia migrates through woodland, forest and shrub habitats. Nests above ground in a deciduous dappling or shrub.	Moderate Potential. Habitat within the Study Area is ranked Low (0.22) to Moderate (0.44) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area contains does contain montane shrubs in open conifer and deciduous forest that may be potential habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment. It is recommended that nesting bird surveys be conducted prior to vegetation removal.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
northern spotted owl	FT, ST CDF: S	<i>S. occidentalis caurina</i> are year-round residents in dense, structurally complex forests, primarily with old-growth conifers.	<b>Moderate Potential.</b> The Study Area is approximately 4.3 miles southeast from the	Not Observed. This species or evidence of this species was not observed
Strix occidentalis caurina	IUCN: NT	Nests on snags and within tree cavities, and often is associated with existing structures (old	closest NSO Activity Center and 4.5 miles northeast from	during the biological assessment. Trees are not
	NABCI: YWL	raptor nests, squirrel nests and <i>A. pomo</i> nests).	the nearest critical habitat as identified by the USFWS. The Study Area is located within suitable habitat according to the CWHR Predicted Habitat Suitability Map. The Study Area does not contain large conifers for nesting but may provide	proposed for removal; therefore, there are no recommendations for this species.
			suitable foraging habitat for this species.	
Fish				
Pacific lamprey	AFS: VU	<i>E. tridentatus</i> are anadromous, but also with a number of permanent freshwater resident	<b>No Potential.</b> The Study Area does not contain fish	<b>Not Present.</b> There are no recommendations for this
Entosphenus tridentatus	BLM: S	populations. This species is parasitic as adults, feeding on blood and body fluids of its prey.	bearing water bodies suitable for this species and	species.
	CDFW: SSC	To breed, <i>E. tridentatus</i> migrate into fresh water and dig nests. Adults die post-breeding. Larvae/juveniles live 5-6 years in freshwater	does provide suitable habitat for this species.	
	USFS: S	before returning to the ocean.		
Clear Lake tule perch Hysterocarpus traskii lagunae	CDFW: SSC	<i>H. traskii lagunae</i> are endemic to three (3) highly altered lakes (Clear Lake, Lower Blue Lake, and Upper Blue Lake); however, it is expected that they are only commonly found in Upper Blue Lake as the other lakes have already lost a majority of their native fishes. A key habitat requirement of <i>H. traskii lagunae</i> is cover, especially for pregnant females and small juveniles. This species is typically found in small shoals in deep (3+ m) tule beds, among rocks (especially along steep rocky shores), or among the branches of fallen trees.	<b>No Potential.</b> The Study Area is outside of the Clear Lake watershed and the current known distribution for this species according to the FSSC Range Map.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Russian River tule perch <i>Hysterocarpus traskii</i> pomo	AFS: VU CDFW: SSC	<i>H. traskii pomo</i> inhabits clear, flowing streams and rivers, and occupy deep pools that have complex cover in the form of aquatic and overhanging vegetation. This species is endemic to the Russian River and the lower parts of its tributaries. They feed on invertebrates, plants, and zooplankton. Mating occurs in July-Sept.	<b>No Potential.</b> The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
Navarro roach Lavinia symmetricus navarroensis	CDFW: SSC	<i>L. symmetricus navarroensis</i> are generally found in small, warm intermittent streams, and dense populations are frequently found in isolated pools. They are most abundant in mid- elevation streams in the Sierra foothills and in the lower reaches of some coastal streams. Roach are tolerant of relatively high temperatures (30-35 C) and low oxygen levels (1-2 ppm). However, they are habitat generalists, also being found in cold, well- aerated clear "trout" streams, in human- modified habitats and in the main channels of rivers, such as the Russian and Tuolumne. This form appears to be abundant in both the Russian and Navarro rivers.	<b>No Potential.</b> The Study Area is outside of the Navarro River watershed and current known distribution for this species according to the FSSC Range Map.	<b>Not Present.</b> There are no recommendations for this species.
Clear Lake – Russian River roach <i>Lavinia symmetricus</i> <i>ssp. 4</i>	CDFW: SSC	<i>L. symmetricus</i> are generally found in small, warm intermittent streams, and dense populations are frequently found in isolated pools. Roach are tolerant of relatively high temperatures (30-35 C) and low oxygen levels (1-2 ppm). However, they are habitat generalists, also being found in cold, well- aerated clear "trout" streams, in human- modified habitats and in the main channels of rivers. Clear Lake roach are restricted to the tributaries of Clear Lake, where they are widely distributed in the basin's seven major drainages.	<b>No Potential.</b> The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
coho salmon – southern Oregon / northern California ESU Oncorhynchus kisutch pop. 2	FT ST AFS: TH	<i>O. kisutch</i> are anadromous, migrating and spawning in streams that flow directly into the ocean or tributaries of larger rivers. Migration peaks between mid-May and mid-June. Coho lay egg masses (redds), often located between a pool and a riffle. This evolutionarily significant unit, or ESU, includes naturally spawned coho salmon originating from coastal streams and rivers between Cape Blanco, Oregon, and Punta Gorda, California.	<b>No Potential.</b> The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species. According to the CWHR Predicted Habitat Suitability Map, Doolin Creek (approximately 2,230 feet south) and an unnamed watercourse (approximately 225 north) do not have Intrinsic Potential to contain this species.	Not Present. There are no recommendations for this species.
coho salmon – central California coast ESU Oncorhynchus kisutch pop. 4	FE SE AFS EN	Coho are anadromous, migrating and spawning in streams that flow directly into the ocean or tributaries of larger rivers. Migration peaks mid-May till mid-June. The fish will spend two to three years at sea before migrating back to their natal stream to spawn. Coho lay egg masses (redds), often located between a pool and a riffle. This evolutionarily significant unit, or ESU, includes naturally spawned coho salmon originating from rivers south of Punta Gorda, California, to and including Aptos Creek, as well as such coho salmon originating from tributaries to San Francisco Bay.	No Potential. The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species. According to the CWHR Predicted Habitat Suitability Map, Doolin Creek (approximately 2,230 feet south) and an unnamed watercourse (approximately 225 north) have Intrinsic Potential to contain this species.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
steelhead – northern California DPS Oncorhynchus mykiss irideus pop. 16	FT AFS: TH	<i>O. mykiss irideus</i> are anadromous coastal rainbow trout. As adults, this species requires high flows, with depths of at least 18cm for passage. Clean well-aerated gravel beds, typically in steep, rocky reaches of upper tributaries are needed for spawning. This distinct population segment, or DPS, includes naturally spawned anadromous steelhead ( <i>Oncorhynchus mykiss</i> ) originating below natural and manmade impassable barriers in California coastal river basins from Redwood Creek to and including the Gualala River.	<b>No Potential.</b> The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species. According to the CWHR Predicted Habitat Suitability Map, Doolin Creek (approximately 2,230 feet south) and an unnamed watercourse (approximately 225 north) do not have Intrinsic Potential to contain this species.	Not Present. There are no recommendations for this species.
steelhead - central California coast DPS Oncorhynchus mykiss irideus pop. 8	FT AFS: TH	<i>O. mykiss irideus</i> are anadromous coastal rainbow trout. As adults, this species requires high flows, with depths of at least 18cm for passage. Clean well-aerated gravel beds, typically in steep, rocky reaches of upper tributaries are needed for spawning. The central California coast DPS are found from the Russian River south to Soquel Creek and to, but not including Pajaro River. Also San Francisco and San Pablo Bay basins. This DPS does not include summer-run steelhead.	No Potential. The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species. According to the CWHR Predicted Habitat Suitability Map, Doolin Creek (approximately 2,230 feet south) and an unnamed watercourse (approximately 225 north) have Intrinsic Potential to contain this species.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
chinook salmon – California coastal ESU Oncorhynchus tshawytscha pop. 17	FT AFS: TH	The California coastal ESU includes all naturally spawned populations of Chinook salmon from the Klamath River (exclusive) to the Russian River (inclusive). Adult numbers depend on pool depth and volume, amount of cover, and proximity to gravel. Water temperatures greater than 27°C are lethal.	<b>No Potential.</b> The Study Area does not contain fish bearing water bodies suitable for this species and does provide suitable habitat for this species. According to the CWHR Predicted Habitat Suitability Map, an unnamed watercourse (approximately 225 north) and Doolin Creek (approximately 2,230 feet south) do not have Intrinsic Potential to contain this species.	Not Present. There are no recommendations for this species.
Insects				
obscure bumble bee Bombus caliginosus	IUCN: VU	<i>B. caliginosus</i> are often found in coastal areas from Santa Barbara county north to Washington state. Food plant genera includes <i>Baccharis, Cirisum, Lupinus, Lotus, Grindelia,</i> and <i>Phacelia</i> .	Moderate Potential. The Study Area contains suitable habitat and food plant genera for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment. Brush and grassland are proposed for removal; however, there is adequate potential habitat surrounding the Study Area. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
western bumble bee	SCE	<i>B. occidentalis</i> are formerly common throughout much of western North America;	<b>Moderate Potential.</b> The Study Area contains suitable	<b>Not Observed.</b> This species was not observed
Bombus occidentalis	USFS: S	however, populations from southern British Columbia to central California have nearly	habitat and food plant genera for this species.	during the biological assessment. Brush and
	Xerces: IM	disappeared. They occur in a variety of habitat types and are generalist pollinators. <i>B</i> .	genera for uns species.	grassland are proposed for removal; however, there is
		occidentalis are commonly encountered along		adequate potential habitat
		stream banks, meadows, disturbed areas, or on flowers by roadsides.		surrounding the Study Area. There are no
				recommendations for this species.
Mollusks				
western ridged mussel		<i>G. angulata</i> inhabits cold creeks and streams from low-to-mid elevations that are seasonally	<b>No Potential.</b> The Study Area does not contain fish	<b>Not Present.</b> There are no recommendations for this
Gonidea angulata		and not continuously turbid. G. angulata	bearing water bodies	species.
		requires a host species to reproduce and disperse and can be found in diverse substrates	suitable for this species. The Russian River within	
		from firm mud to coarse particles.	roughly 500 feet of the	
		Documented fish hosts for this species include	Study Area does provide	
		hardhead ( <i>Mylopharodon conocephalus</i> ), pit sculpin ( <i>Cottus pitensis</i> ), and Tule perch	aquatic habitat for this species, but the Study Area	
		(Hysterocarpus traski).	contains no tributary	
			watercourses.	
Mammals				
pallid bat	BLM: S	A. pallidus are found in deserts, grasslands,	<b>Unlikely.</b> Habitat within	Not Observed. This
Antrozous pallidus	CDFW:	shrublands, woodlands, and forests. Most commonly forages along open river channels.	the Study Area ranks Low (0.11) in suitability	species or evidence of this species was not observed
<i>F</i>	SSC	Roosting sites include crevices in rocky	according to the CWHR	during the biological
	IUCN: LC	outcrops and cliffs, caves, mines, basal hollows in large conifers and various human	Predicted Habitat Suitability Map. Suitable foraging is	assessment. There are no further recommendations
	IUCN. LU	structures such as bridges, barns, and buildings	present within grassland	for this species.
	USFS: S	(including occupied buildings). Roosts must protect bats from high temperatures. Very	habitat throughout the Study Area; however, roosting	-
	WBWG: H	sensitive to disturbance of roosting sites.	habitat is limited.	



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Sonoma tree vole	CDFW: SSC	<i>A. pomo</i> lives in humid coastal forests consisting of Douglas-fir, grand fir, western hemlock, and/or Sitka spruce. This species	Moderate Potential. Habitat within the Study Area is not suitable in some	<b>Not Observed.</b> This species or evidence of this species was not observed
Arborimus pomo	IUCN: NT	requires Douglas-fir and grand fir needles as a food source and nesting materials. Nests are frequently found in trees along the bole, in branch crotches, or in the top of snags. Nests are most often found along roads, skid trails, or forest edges; however, they could exist further in the forest with dense canopies making nest identification difficult. This species is distributed along the North Coast from Sonoma County north to the Oregon border, being practically restricted to the fog belt.	Area is not suitable in some areas, ranks Low (0.33) withing Montane Hardwood-Conifer habitat and High (1) within Conifer Forest habitat according to the CWHR Predicted Habitat Suitability Map. The Study Area does contain Douglas-fir trees and map provide suitable habitat for this species.	during the biological assessment. Trees are not proposed for removal, but if trees were to be removed, it is recommended to survey those trees for this species.
Townsend's big-eared bat	BLM: S CDFW:	<i>C. townsendii</i> is associated with a wide variety of habitats from deserts to mid-elevation mixed coniferous-deciduous forest, basal	<b>Unlikely.</b> Habitat within the Study Area ranks Low (0.11) in suitability	<b>Not Observed.</b> This species or evidence of this species was not observed
Corynorhinus townsendii	SSC IUCN: LC	hollows in large conifers. Females form maternity colonies in buildings, caves and mines and males roost singly or in small	according to the CWHR Predicted Habitat Suitability Map. Suitable foraging is	during the biological assessment. There are no further recommendations
	USFS: S	groups. Foraging occurs in open forest habitats where they glean moths from vegetation.	present within grassland habitat throughout the Study Area; however, roosting	for this species.
	WBWG: H		habitat is limited.	
North American porcupine	IUCN: LC	<i>E. dorsatum</i> are commonly found in coniferous and mixed forested areas, and can also inhabit shrublands, tundra and deserts,	Moderate Potential. Habitat within the Study Area is ranked Low (0.33)	<b>Not Observed.</b> This species or evidence of this species was not observed
Erethizon dorsatum		albeit less frequently as this species tends to spend much of its time in trees. This species makes its dens in hollow trees, decaying logs and caves in rocky areas. Recognized as primarily solitary and nocturnal, <i>E. dorsatum</i> may be seen foraging during daytime.	within the Montane Hardwood habitat to Moderate (0.55) within the Hardwood-Montane Conifer habitat in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area may contain suitable habitat for this species.	during the biological assessment. It is recommended to survey for this survey prior to ground disturbance.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
western mastiff bat Eumops perotis californicus	CDFW: SSC BLM:S WBWG:H	Uncommon resident in southeastern San Joaquin Valley and Coastal Ranges from Monterey Co. southward through southern California, from the coast eastward to the Colorado Desert. Occurs in many open, semi- arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub, and urban.	<b>No Potential.</b> The Study Area is outside the known distribution range for this species according to the CWHR Predicted Habitat Suitability Map.	<b>Not Present.</b> There are no recommendations for this species.
western red bat <i>Lasiurus blossevillii</i>	CDFW: SSC IUCN: LC WBWG: H	<i>L. blossevillii</i> roosts primarily in trees, often 2-40ft above the ground from sea level through mixed conifer forests. Typical habitats include cismontane woodland, lower montane coniferous forest, riparian forests and woodlands. This species prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Moderate Potential. Habitat within the Study Area is ranked Moderate (0.66) within the Hardwood-Montane Conifer habitat in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area may contain suitable habitat for this species.	<b>Not Observed.</b> This species or evidence of this species was not observed during the biological assessment. There are no further recommendations for this species.
hoary bat <i>Lasiurus cinereus</i>	CDFW: SSC IUCN: LC WBWG: M	<i>L. cinereus</i> are yearlong residents of Mendocino County. This bat is one of the few bats knows to both migrate south for winter and to hibernate locally. Hoary bat daytime roosts are typically dense foliage of medium to large sized trees. This bat occupies a variety of habitats including dense forest, forest edges, coniferous forests, deserts, and broadleaf forests.	Moderate Potential. Habitat within the Study Area is ranked Moderate (0.55) within the Hardwood-Montane Conifer habitat in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area may contain suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment. It is recommended to survey for this survey prior to ground disturbance.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
little brown bat	CDFW: SSC	<i>M. lucifugus</i> is found in most of the United States and Canada, except for the south central and southeastern United States and northern	<b>Unlikely.</b> Habitat within the Study Area is ranked Low (0.11) in suitability	Not Observed. This species was not observed during the biological
Myotis lucifugus	IUCN: LC WBWG: M	and southeastern United States and northern Alaska and Canada. <i>M. lucifugus</i> typically lives and feeds in forested areas near or over water. The little brown bat lives in three different roosting sites throughout the year: day roosts, night roosts, and hibernation roosts. Stable, ambient temperatures greatly influence site selection. Human-made structures are often selected, however both day and night roosts may be found in trees, under rocks, and in piles of wood. Day roosts provide excellent shelter, limited to no light, and typically have southwestern exposure. Night roosts are larger areas these bats can use when outside temperatures necessitate communal congregation for warmth. Hibernaculum habitats tend to include mines and caves and are typically warmer and more humid.	(0.11) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area does not contain structures, mines or caves that this species could use for breeding sites. This species may forage over the Study Area.	during the biological assessment. There are no further recommendations for this species.
Yuma myotis Myotis yumanensis	CDFW: SSC BLM: S IUCN: LC WBWG: LM	<i>M. yumanensis</i> commonly inhabits open forests and woodlands from British Columbia across the western U.S. and south into Baja and southern Mexico. This species will use a variety of lowland habitats from scrub to coniferous forest, always near slow-moving or standing water habitats. Foraging occurs almost exclusively over water, with distribution being closely tied to bodies of water. Typical roosting habitat are caves, mines, buildings, under bridges and in cliff and tree crevices. Maternity colonies are often in caves, mines, buildings and crevices.	Unlikely. Habitat within the Study Area is ranked Low (0.22) in suitability according to the CWHR Predicted Habitat Suitability Map. The Study Area does not contain structures, mines or caves that this species could use for breeding sites. The Study Area does not contain bodies of water for foraging habitat.	<b>Not Observed.</b> This species was not observed during the biological assessment. There are no further recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
fisher [West Coast DPS]	ST CDFW:	<i>P. pennanti</i> are primarily solitary, except during breeding season (February – April) and they inhabit forest stands with late-	<b>Moderate Potential.</b> Habitat within the Study Area is ranked from no	Not Observed. This species was not observed during the biological
Pekania pennanti	SSC USFS: S	successional characteristics including intermediate-to-large tree stages of coniferous forest and deciduous-riparian areas with high percent canopy closure. Den site and prey availability are often associated with these characteristics. <i>P. pennanti</i> use cavities, snags, logs and rocky areas for cover and denning and require large areas of mature, dense forest.	suitable habitat (0) to High (1) in suitability according to the CWHR Predicted Habitat Suitability Map and may provide suitable habitat for this species.	assessment. Trees present within the Study Area do not exhibit late successional characteristics and none are not proposed for removal for this project. There are no further recommendations for this species.
American badger <i>Taxidea taxus</i>	CDFW: SSC IUCN: LC	<i>T. taxus</i> are most abundant in drier open stages of most shrub, forest and herbaceous habitats, with friable soils (Zeiner et al. 1990b). <i>T. taxus</i> dig burrows in the friable soils and frequently reuse old burrows. They prey on burrowing rodents, especially ground squirrels and pocket gophers, also on birds, insects, reptiles and carrion. Their diet shifts seasonally depending on the availability of prey. <i>T. taxus</i> are non- migratory and are found throughout most of California, except the northern North Coast area.	<b>No Potential.</b> The Study Area does not have suitable habitat present according to the CWHR Predicted Habitat Suitability Map. Small patches of suitable habitat are present within the surrounding area.	Not Present. There are no recommendations for this species.
Reptiles			<b></b>	
western pond turtle <i>Emys marmorata</i>	BLM: S CDFW: SSC IUCN: VU USFS: S	<i>E. marmorata</i> are associated with permanent ponds, lakes, streams, stock ponds, marshes, seasonal wetlands, artificial areas including reservoirs or irrigation ditches, or permanent pools along intermittent streams in a wide variety of habitats. This species requires basking sites in the aquatic environment or upland, grassy openings with loose soil for nesting and overwintering. Nest sites can be found from 100-500 meters from aquatic habitat.	<b>Unlikely.</b> Habitat within the Study Area is ranked Low (0.33) according to the CWHR Predicted Habitat Suitability Map. There are no watercourses or ponds located within the Study Area. The Study Area does not provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment. There are no further recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Plants				
Raiche's manzanita Arctostaphylos stanfordiana ssp. raichei	Rank 1B.1	Chaparral, lower montane coniferous forest (openings), rocky, serpentine sites, often on slopes and ridges. <i>A. stanfordiana ssp. raichei</i> has a serpentine affinity of 2.6 (strong indicator). Elevation ranges from 1591 to 3511 feet (485 to 1070 meters). A perennial evergreen shrub, the blooming period is from Feb-Apr.	No Potential. The required habitat or soil (serpentine) for this species is not present within Study Area. The Study Area does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Brewer's milk-vetch Astragalus breweri	Rank 4.2	Chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland. Often in grassy flats, meadows moist in spring, and open slopes in chaparral. Commonly on or near volcanic or serpentine sites. <i>A. breweri</i> has a serpentine affinity of 3.2 (strong indicator). Elevation ranges from 296 to 2395 feet (90 to 730 meters). An annual herb, the blooming period is from Apr-Jun.	Unlikely. The Study Area does contain open grassland and cismontane woodland; however, the area does not contain serpentine or volcanic soils and is unlikely to provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Sonoma sunshine Blennosperma bakeri	Rank 1B.1	Vernal pools, swales (mesic areas), valley and foothill grasslands (wetlands, riparian). Elevation ranges from 33 to 952 feet (10 to 290 meters). An annual herb, the blooming period is from Mar-May.	<b>No Potential.</b> The Study Area does not contain the required habitat (wet areas) for this species and is unlikely to provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
watershield Brasenia schreberi	Rank 2B.3	Freshwater marshes and swamps. Aquatic, known from water bodies both natural and artificial. Elevation ranges from 3 to 7152 feet (1 to 2180 meters). A perennial rhizomatous herb (aquatic), the blooming period is from Jun-Sep.	<b>No Potential.</b> The Study Area does not contain the required habitat (wet areas) for this species and is unlikely to provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
bristly sedge <i>Carex comosa</i>	Rank 2B.1	Marshes and swamps, coastal prairie, valley and foothill grasslands, lake margins, wetlands. Elevation ranges from 17 to 3314 feet (5 to 1010 meters). A perennial rhizomatous herb, the blooming period is from May-Sep.	<b>Unlikely.</b> The Study Area does contain grassland habitat; however, wet areas or wetlands are not present for this species and is unlikely to provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Rincon Ridge ceanothus <i>Ceanothus confusus</i>	Rank 1B.1	Closed-cone coniferous forest, chaparral, cismontane woodland, known from volcanic or serpentine soils, dry shrubby slopes. <i>C.</i> <i>confusus</i> has a serpentine affinity of 1.3 (weak indicator/indifferent). Elevation ranges from 492 to 4200 feet (150 to 1280 meters). A shrub, the blooming period is from Feb-Jun.	<b>Unlikely.</b> The Study Area does contain cismontane woodland; however, does not have volcanic or serpentine soils and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Jepson's dodder Cuscata jepsonii	Rank 1B.2	Upper montane coniferous forest, lower montane coniferous forest, broadleaved upland forest, on primary host species ( <i>Ceanothus</i> <i>diversifolius</i> and <i>Ceanothus prostratus</i> ). Elevation ranges from 3937 to 9006 feet (1200 to 2745 meters). An annual herb or vine, the blooming period is from Jul-Sep.	<b>Unlikely.</b> Ceanothus sp. is present within the Study Area; however, the Study Area is located outside of the elevation range of this species.	Not Present. There are no recommendations for this species.
California lady's- slipper <i>Cypripedium</i> californicum	Rank 4.2	Lower montane coniferous forest, bogs and fens, wetlands, often found in perennial seepages on serpentine substrate and in gravel along creek margins (ultramafic). This species has a serpentine affinity of 4.5 (broad endemic). Elevation ranges from 99 to 9023 feet (30 to 2750 meters). A perennial herb (rhizomatous), the blooming period is from Apr-Aug.	<b>No Potential.</b> The Study Area does not contain serpentine soil or wet areas and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
mountain lady's-slipper <i>Cypripedium</i> <i>montanum</i>	Rank 4.2	Lower montane coniferous forest, broadleaved upland forest, cismontane woodland, north coast coniferous forest, often on dry, undisturbed slopes. Elevation ranges from 607 to 7300 feet (185 to 2225 meters). A perennial herb (rhizomatous), the blooming period is from Mar-Aug.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within Study Area and may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period for this species. It is recommended that a botanical survey is conducted for this species during the appropriate blooming period (Mar- Aug).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Koch's cord moss Entosthodon kochii	Rank 1B.3	Cismontane woodland, often growing on soil over riverbanks. Elevation ranges from 607 to 1198 feet (185 to 365 meters). A moss, there is no distinct blooming period.	Moderate Potential. Cismontane woodland is present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment and there are no recommendations for this species.
bare monkeyflower Erythranthe nudata	Rank 4.3	Chaparral, cismontane woodland, moist areas, often along drainages and roadsides in serpentine seeps. This species has a serpentine affinity of 5.6 (strict endemic). Elevation ranges from 820 to 2297 feet (250 to 700 meters). An annual herb, the blooming period is from May-Jun.	<b>Unlikely.</b> Cismontane woodland is present within the Study Area; however, serpentine soil is not present. The Study Area does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
minute pocket moss Fissidens pauperculus	Rank 1B.2	North coast coniferous forest, redwoods, moss growing on damp soil along the coast, sometimes in dry streambeds and along stream banks. Elevation ranges from 99 to 3363 feet (30 to 1025 meters). A moss, there is no distinct blooming period.	<b>Unlikely.</b> Small patches of redwood trees are present within the Study Area; however, the Study Are is not located within North coast coniferous forest required for this species.	Not Present. There are no recommendations for this species.
stinkbells Fritillaria agrestis	Rank 4.2	Cismontane woodland, chaparral, valley and foothill grassland, pinyon and juniper woodland, sometimes on serpentine soil, mostly found in non-native grassland or in grassy openings in clay soil. This species has a serpentine affinity of 2.7 (strong indicator). Elevation ranges from 33 to 5102 feet (10 to 1555 meters). A perennial bulbiferous herb, the blooming period is from Mar-Jun.	Moderate Potential. Cismontane woodland is present within the Study Area. This species is sometime found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Mar-Jun).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Purdy's fritillary Fritillaria purdyi	Rank 4.3	Chaparral, cismontane woodland, lower montane coniferous forest, usually on serpentine soil. <i>F. fritillary</i> has a serpentine affinity of 4.5 (broad endemic). Elevation ranges from 574 to 7399 feet (175 to 2255 meters). A perennial bulbiferous herb, the blooming period is from Mar-Jun.	<b>Unlikely.</b> Cismontane woodland is present within the Study Area; however, this species has a strong affinity to serpentine soil. The Study Area does not contain serpentine soil and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Roderick's fritillary Fritillaria roderickii	Rank 1B.1	Coastal bluff scrub, coastal prairie, valley and foothill grassland, often on grassy slopes, mesas. Elevation ranges from 66 to 2002 feet (20 to 610 meters). A perennial herb (bulb), the blooming period is from Mar-May.	Moderate Potential. Grassland habitat is present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Mar-May).
Boggs Lake hedge- hyssop Gratiola heterosepala	Rank 1B.2	Marshes and swamps (freshwater), vernal pools, often found in clay soils, usually in vernal pools or sometimes lake margins. Elevation ranges from 13 to 7907 feet (4 to 2410 meters). An annual herb, the blooming period is from Apr-Aug.	<b>No Potential.</b> The Study Area does not contain the required habitat (aquatic or vernal pools) suitable for this species.	<b>Not Present.</b> There are no recommendations for this species.
Toren's grimmia Grimmia torenii	Rank 1B.3	Cismontane woodland, lower montane coniferous forest, chaparral, often found in openings, rocky, boulder and rock walls, carbonate, volcanic. Elevation ranges from 1067 to 3806 feet (325 to 1160 meters). A moss, no distinct blooming period.	<b>Unlikely.</b> Cismontane woodland is present within the Study Area; however, does not contain carbonate or volcanic soil and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Mendocino tarplant Hemizonia congesta ssp. calyculata	Rank 4.3	Cismontane woodland, valley and foothill grassland, open woods and forests, sometimes on serpentine. <i>H. congesta ssp. calyculata</i> has a serpentine affinity of 1.5 (weak indicator). Elevation ranges from 738 to 4593 feet (225 to 1400 meters). An annual herb, the blooming period is from Jul-Nov.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Jul-Nov).
congested-headed hayfield tarplant <i>Hemizonia congesta</i> ssp. congesta	Rank 1B.2	Valley and foothill grassland, often in fallow fields, sometimes along roadsides. <i>H. congesta</i> ssp. <i>congesta</i> has a serpentine affinity (1.3, weak indicator/indifferent). Elevation ranges from 17 to 1706 feet (5 to 520 meters). An annual herb, the blooming period is from Apr- Nov.	Moderate Potential. Grassland habitat is present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Nov).
Tracy's tarplant <i>Hemizonia congesta</i> ssp. <i>tracyi</i>	Rank 4.3	Coastal prairie, north coast coniferous forest, lower montane coniferous forest, often found in openings and sometimes on serpentine (ultramafic). <i>H. congesta</i> ssp. <i>tracyi</i> has a serpentine affinity of 1.8 (weak indicator). Elevation ranges from 394 to 3937 feet (120 to 1200 meters). An annual herb, the blooming period is from May-Oct.	<b>No Potential.</b> The Study Area does not contain the required habitat (coastal prairie, North coast coniferous forest or lower montane coniferous forest) suitable for this species.	Not Present. There are no recommendations for this species.
glandular western flax Hesperolinon adenophyllum	Rank 1B.2	Chaparral, cismontane woodland, valley and foothill grassland, serpentine soils, generally found in serpentine chaparral. <i>H.</i> <i>adenophyllum</i> has a serpentine affinity of 5.7 (strict endemic). Elevation ranges from 1395 to 4413 feet (425 to 1345 meters). An annual herb, the blooming period is from May-Aug.	Unlikely. Cismontane woodland and grassland habitat is present within the Study Area; however, does not contain serpentine soil. The Study Area does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Bolander's horkelia <i>Horkelia bolanderi</i>	Rank 1B.2	Lower montane coniferous forest, chaparral, meadows and seeps, valley and foothill grassland, often found in grassy margins of vernal pools and meadows. Elevation ranges from 1493 to 2805 feet (455 to 855 meters). A perennial herb, the blooming period is from Jun-Aug.	<b>Unlikely.</b> Grassland habitat is present within the Study Area; however, does not contain vernal pools and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
small groundcone Kopsiopsis hookeri	Rank 2B.3	North coast coniferous forest, open woods, shrubby places, generally on <i>Gaultheria</i> <i>shallon</i> . Elevation ranges from 394 to 4708 feet (120 to 1435 meters). A perennial herb, the blooming period is from Apr-Aug.	No Potential. The Study Area does not contain the required habitat (North coast coniferous forest along the coast) suitable for this species.	<b>Not Present.</b> There are no recommendations for this species.
Burke's goldfields Lasthenia burkei	FE Rank 1B.1	Found in vernal pools and swales, meadows and seeps. Elevation ranges from 49 to 1969 feet (15 to 600 meters). An annual herb, the blooming period is from Apr-Jun.	<b>No Potential.</b> The Study Area does not contain the required habitat (vernal pools or wet areas) for this species.	<b>Not Present.</b> There are no recommendations for this species.
Contra Costa goldfields Lasthenia conjugens	FE Rank 1B.1	Valley and foothill grassland, vernal pools, alkaline playas, cismontane woodlands, often found in swales and low depressions in open grassy areas. Elevation ranges from 4 to 1477 feet (1 to 450 meters). An annual herb, the blooming period is from Mar-Jun.	Moderate Potential. The Study Area contains the required habitat (cismontane woodland and grassland habitat) and may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period for this species. It is recommended that a botanical survey during the appropriate blooming period for this species is conducted (Mar-Jun).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Colusa layia <i>Layia septentrionalis</i>	Rank 1B.2	Chaparral, cismontane woodland, valley and foothill grassland, scattered colonies in fields and grassy slopes in sandy or serpentine soil. This species has a serpentine affinity of 3.2 (strong indicator). Elevation ranges from 49 to 3609 feet (15 to 1100 meters). An annual herb, the blooming period is from Apr-May.	<b>Unlikely.</b> Cismontane woodland is present within the Study Area; however, the area does not contain serpentine soil The Study Area is unlikely to provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
bristly leptosiphon <i>Leptosiphon acicularis</i>	Rank 4.2	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Elevation ranges from 181 to 4922 feet (55 to 1500 meters). An annual herb, the blooming period is from Apr-Jul.	Moderate Potential. The Study Area contains the required habitat (cismontane woodland) and may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period for this species. It is recommended that a botanical survey during the appropriate blooming period for this species is conducted (Apr-Jul).
broad-lobed leptosiphon <i>Leptosiphon latisectus</i>	Rank 4.3	Broadleaved upland forest, cismontane woodland. <i>L. latisectus</i> has a serpentine affinity of 2.0 (weak indicator). Elevation ranges from 558 to 4922 feet (170 to 1500 meters). An annual herb, the blooming period is from Apr-Jun.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Jun).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
woolly-headed lessingia <i>Lessingia hololeuca</i>	Rank 3	Coastal scrub, lower montane coniferous forest, valley and foothill grassland, broadleaved upland forests, often on clay or serpentine along fields and roadsides. <i>L.</i> <i>hololeuca</i> has a serpentine affinity of 2.5 (strong indicator). Elevation ranges from 49 to 1001 feet (15 to 305 meters). An annual herb, the blooming period is from Jun-Oct.	<b>Unlikely.</b> Grassland habitat is present within the Study Area; however, does not contain serpentine soil and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
redwood lily Lilium rubescens	Rank 4.2	Chaparral, lower montane coniferous forest, broadleaved upland forest, upper montane coniferous forest, north coast coniferous forest, sometimes on serpentine. <i>L. rubescens</i> has a serpentine affinity of 2 (weak indicator). Elevation ranges from 99 to 6267 feet (30 to 1910 meters). A perennial herb (bulb), the blooming period is from Apr-Aug.	Moderate Potential. Broadleaved upland forest is present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Aug).
Baker's meadowfoam Limnanthes bakeri	Rank 1B.1	Marshes and swamps, valley and foothill grassland, meadows and seeps, vernal pools, seasonally moist or saturated sites within grassland, also in swales, roadside ditches and margins of freshwater marshy areas. Elevation ranges from 574 to 3002 feet (175 to 915 meters). An annual herb, the blooming period is from Apr-May.	<b>Unlikely.</b> Grassland habitat is present within the Study Area; however, does not contain wet/marshy areas and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Mendocino bush- mallow Malacothamnus mendocinensis	Rank 1A	Chaparral, open roadside banks. Elevation ranges from 1395 to 1887 feet (425 to 575 meters). A shrub, the blooming period is from May-Jun.	<b>No Potential.</b> The Study Area does not contain the required habitat (Chaparral) for this species.	<b>Not Present.</b> There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
green monardella <i>Monardella viridis</i>	Rank 4.3	Broadleaved upland forest, chaparral, cismontane woodland. Elevation ranges from 328 to 3314 feet (100 to 1010 meters). A perennial herb, the blooming period is from Jun-Sep.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Jun).
Baker's navarretia Navarretia leucocephala ssp. bakeri	Rank 1B.1	Cismontane woodland, meadows and seeps, vernal pools and swales, valley and foothill grassland, lower montane coniferous forest, adobe or alkaline soils. Elevation ranges from 10 to 5512 feet (3 to 1680 meters). An annual herb, the blooming period is from Apr-Jul.	Unlikely. Cismontane woodland and grassland habitat are present within the Study Area; however, does not contain adobe or alkaline soils and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
California Gairdner's yampah <i>Perideridia gairdneri</i> ssp. gairdneri	Rank 4.2	Broadleaved upland forest, chaparral, coastal prairie, valley and foothill grassland, vernal pools. Often found on adobe flats or grasslands, wet meadows and vernal pools, under <i>Pinus radiata</i> along the coast, mesic sites. Elevation ranges from 0 to 2002 feet (0 to 610 meters). A perennial herb, the blooming period is from Jun-Oct.	<b>Unlikely.</b> Grassland habitat and broadleaved upland forest are present within the Study Area; however, is not located along the coast and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
white-flowered rein orchid <i>Piperia candida</i>	Rank 1B.2	North Coast coniferous forest, lower montane coniferous forest, broadleaved upland forest, sometimes on serpentine. Often found in forest duff, mossy banks, ultramafic (serpentine) rock outcrops and muskeg. <i>P. candida</i> has a serpentine affinity of 1.2 (weak indicator/indifferent). Elevation ranges from 66 to 5299 feet (20 to 1615 meters). A perennial herb, the blooming period is from May-Sep.	Moderate Potential. Cismontane woodland and broadleaved upland forest are present within the Study Area. This species is sometimes found in serpentine soil, but not always; therefore, the Study Area may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (May-Sep).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Mayacamas popcornflower <i>Plagiobothrys</i> <i>lithocaryus</i>	Rank 1A	Chaparral, cismontane woodland, valley and foothill grassland, moist sites. Elevation ranges from 985 to 1477 feet (300 to 450 meters). An annual herb, the blooming period is from Apr- May.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area and may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-May).
North Coast semaphore grass Pleuropogon hooverianus	Rank 1B.1	Broadleaved upland forest, meadows and seeps, north coast coniferous forest, often found in wet, grassy, shady areas, sometimes freshwater marsh. Often associated with forest environments (wetland-riparian areas). Elevation ranges from 148 to 3806 feet (45 to 1160 meters). A perennial rhizomatous herb, the blooming period is from Apr-Jun.	<b>Unlikely.</b> Broadleaved upland forest and grassland habitat are present within the Study Area; however, does not contain wet areas and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Lobb's aquatic buttercup <i>Ranunculus lobbii</i>	Rank 4.2	Cismontane woodland, valley and foothill grassland, vernal pools, north coast coniferous forest (mesic sites). Elevation ranges from 50 to 1542 feet (15 to 470 meters). An annual herb (aquatic), the blooming period is from Feb-May.	<b>Unlikely.</b> Cismontane woodland and grassland habitat are present within the Study Area; however, does not contain wet areas and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
great burnet Sanguisorba officinalis	Rank 2B.2	Bogs and fens, meadows and seeps, broadleaved upland forest, marshes and swamps, north coast coniferous forest, riparian forest, rocky serpentine seepage areas and along streams. Elevation ranges from 17 to 4593 feet (5 to 1400 meters). A perennial rhizomatous herb, the blooming period is from Jul-Oct.	<b>Unlikely.</b> Cismontane woodland and broadleaved upland forest are present within the Study Area; however, does not contain wet areas or streams and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Hoffman's bristly jewelflower Streptanthus glandulosus ssp. hoffmanii	Rank 1B.3	Chaparral, cismontane woodland, valley and foothill grassland, moist, steep rocky banks in serpentine and non-serpentine soils. Elevation ranges from 197 to 2510 feet (60 to 765 meters). An annual herb, the blooming period is from Mar-Jul.	<b>Unlikely.</b> Cismontane woodland is present within the Study Area and this species is sometimes found in serpentine soil, but not always. However, moist rocky banks are not present within the Study Area and does not provide suitable habitat for this species.	<b>Not Present.</b> There are no recommendations for this species.
beaked tracyina Tracyina rostrata	Rank 1B.2 USFS: S	Cismontane woodland, valley and foothill grassland, chaparral, often observed in open grassy meadows commonly within oak woodland and grassland habitats. Elevation ranges from 492 to 2609 feet (150 to 795 meters). An annual herb, the blooming period is from May-Jun.	Moderate Potential. Cismontane woodland and grassland habitat are present within the Study Area and may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (May-Jun).
showy Indian clover Trifolium amoenum	FE Rank 1B.1	Valley and foothill grassland, coastal bluff scrub, sometimes on serpentine soils (ultramafic), open sunny sites, swales, along roadsides and eroding cliff faces. <i>T. amoenum</i> has an ultramafic affinity (1.3, weak indicator, indifferent). Elevation ranges from 17 to 1017 feet (5 to 310 meters). An annual herb, the blooming period is from Apr-Jun.	Moderate Potential. Grassland habitat is present within the Study Area and this species is sometimes found in serpentine soil, but not always. The Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (Apr-Jun).



SPECIES	STATUS*	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA	RECOMMENDATIONS
Santa Cruz clover Trifolium buckwestiorum	Rank 1B.1	Coastal prairie, broadleaved upland forest, cismontane woodland, often found in moist grasslands along gravelly margins. Elevation ranges from 99 to 2641 feet (30 to 805 meters). An annual herb, the blooming period is from Apr-Oct.	<b>Unlikely.</b> Cismontane woodland, grassland habitat and broadleaved upland forest are present within the Study Area; however, does not contain wet areas and does not provide suitable habitat for this species.	Not Present. There are no recommendations for this species.
Methuselah's beard lichen <i>Usnea longissima</i>	Rank 4.2	North coast coniferous forest, broadleaved upland forest. Often grows in the "redwood zone" on tree branches of a variety of trees, including bigleaf maple ( <i>Acer macrophyllum</i> ), various oaks ( <i>Quercus spp.</i> ), ash ( <i>Fraxinus</i> <i>spp.</i> ), Douglas-fir ( <i>Pseudotsuga menziesii</i> ) and California bay ( <i>Umbellularia californica</i> ). Elevation ranges from 148 to 4807 feet (45 to 1465 meters).	Moderate Potential. Broadleaved upland forest is present within the Study Area; therefore, the Study Area may provide suitable habitat for this species.	Not Observed. This species was not observed during the biological assessment. Trees are not proposed for removal; therefore, there are no recommendations for this species.
oval-leaved viburnum     Rank 2B.3       Viburnum ellipticum		Chaparral, cismontane woodland, lower montane coniferous forest. Elevation ranges from 706 to 4593 feet (215 to 1400 meters). A shrub, the blooming period is from May-Jun.	Moderate Potential. Cismontane woodland is present within the Study Area and may provide suitable habitat for this species.	<b>Not Observed.</b> This species was not observed during the biological assessment; however, the biological assessment was not conducted during the blooming period. It is recommended to survey for this species during the appropriate blooming period (May-Jun).



TERRESTRIAL OR AQUATIC COMMUNITY	HABITAT REQUIREMENTS	POTENTIAL TO OCCUR IN THE STUDY AREA AND RECOMMENDATIONS
Northern Interior Cypress Forest – Terrestrial (Holland 1986)	<ul> <li>Description: An open, fire-maintained scrubby "forest" similar to Knobcone Pine Forest but dominated by one of several Cupressus species. These stands may be as much as 15m tall, but usually are lower.</li> <li>Site Factors: On dry, rocky, sterile, often ultramafic soils, frequently associated with Serpentine Chaparral. Intergrades on less sever sites with Upper Sonoran Mixed Chaparral, Montane Chaparral, or Knobcone Pine Forest; and on more mesic site with Mixed Evergreen Forest or Montane Coniferous Forest.</li> <li>Characteristic Species: <i>Cupressus abramsiana</i> (Santa Cruz Mountains, on sandstone), <i>C. bakeri</i> (Cascade and northern Sierra Nevada, on serpentine or aerated basic sites), <i>C. macnabiana</i> (North Coast Ranges and northern Sierra Nevada, on serpentine), <i>C. sargentii</i> (North and South Coast ranges, on serpentine), <i>Pinus attenuata</i>, <i>Quercus durata</i></li> </ul>	<b>Unlikely.</b> The Study Area is located predominantly within cismontane woodland and valley and foothill grassland and does contain Knobcone pine; however, serpentine soil or chaparral habitat is not present. It is unlikely for this terrestrial community to be present within the Study Area. This community was not observed during the biological assessment. There are no
	Distribution: Scattered through the Siskiyou Mountains, North and South Coast Ranges, Cascades and northern Sierra Nevada. Combining the four species into a single element is open to question but does reflect a common pattern of occurring on serpentine or other sterile substrate and moisture status intermediate between mesic Coastal Closed Cone Conifer Forests and xeric Southern Interior Cypress Forests.	further recommendations for this community.
Serpentine Bunchgrass (Holland 1986)	<ul> <li>Description: An open grassland dominated by perennial bunchgrasses. Total cover typically is low but is markedly dominated by native species (usually much more so than in Valley Needlegrass Grassland or Non-native Grasslands.</li> <li>Site Factors: Restricted to serpentine sites.</li> <li>Characteristic Species: Bromus hordeaceus, Calamagrostis ophiditis, Eschscholtzia californica, Pestuca grayii, Hemizonia luzulaefolia, Lotus subpinnatus, Melica californica, Poa scabrella, Stipa cernua, S. lepida, S. pulchra, Vulpia microstachys</li> </ul>	<b>No Potential.</b> The Study Area is located within cismontane woodland, broadleaved upland forest and valley and foothill grassland; however, serpentine soil is not present. It is unlikely for this terrestrial community to be present within the Study Area.
	Distribution: Scattered widely through the Coast Ranges, less common in the Sierra Nevada and southern California mountains.	This community was not observed during the biological assessment. There are no further recommendations for this community.



Abbreviation	Organization
FC	Federal Candidate
FE	Federal Endangered
FT	Federal Threatened
FPE	Federally Proposed for listing as Endangered
FPT	Federally Proposed for listing as Threatened
FPD	Federally Proposed for delisting
SC	State Candidate
SE	State Endangered
ST	State Threatened
SCE	State Candidate for listing as Endangered
SCT	State Candidate for listing as Threatened
SCD	State Candidate for delisting
Rank 1A	CRPR Rank 1A: Presumed extirpated in California and either rare or extinct elsewhere
Rank 1B	CRPR Rank 1B: Plants rare, threatened or endangered in California and elsewhere
Rank 2B	CRPR Rank 2B: Plants rare, threatened, or endangered in California, but more common elsewhere
Rank 3	CRPR Rank 3: Plants about which CNPS needs more information (a review list)
Rank 4	CRPR Rank 4: Plants of limited distribution – a watch list

#### Potential to Occur:

No Potential. Habitat on and within 100 feet adjacent to the site is clearly unsuitable for the species requirements (cover, substrate, elevation, hydrology, plant community, site history, disturbance regime).

<u>Unlikely</u>. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and within 100 feet adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site.

<u>Moderate Potential</u>. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or within 100 feet adjacent to the site is unsuitable. The species has a moderate probability of being found on the site.

High Potential. All of the habitat components meeting the species requirements are present and/or most of the habitat on or within 100 feet adjacent to the site is highly suitable. The species has a high probability of being found on the site.

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#### **Results and Recommendations:**

Present. Species was observed on the site or has been recorded (i.e. CNDDB, other reports) on the site recently.

Not Present. Species is assumed to not be present due to a lack of key habitat components.

Not Observed. Species was not observed during surveys.

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Abbreviation	Organization
AFS_EN	American Fisheries Society - Endangered
AFS_TH	American Fisheries Society - Threatened
AFS_VU	American Fisheries Society – Vulnerable
BLM_S	Bureau of Land Management – Sensitive
BCC	USFWS Birds of Conservation Concern
CDF_S	Calif. Dept. of Forestry & Fire Protection – Sensitive
CDFW_SSC	Calif. Dept. of Fish & Wildlife – Species of Special Concern
CDFW_FP	Calif. Dept. of Fish & Wildlife – Fully Protected
CDFW_WL	Calif. Dept. of Fish & Wildlife – Watch List
IUCN_CR	IUCN – Critically Endangered
IUCN_EN	IUCN – Endangered
IUCN_NT	IUCN – Near Threatened
IUCN_VU	IUCN – Vulnerable
IUCN_LC	IUCN – Least Concern
IUCN_DD	IUCN – Data Deficient
IUCN_CD	IUCN – Conservation Dependent
NABCI_RWL	North American Bird Conservation Initiative – Red Watch List
NABCI_YWL	North American Bird Conservation Initiative – Yellow Watch List
NMFS_SC	National Marine Fisheries Service – Species of Concern
USFS_S	U. S. Forest Service - Sensitive
USFWS_BCC	U. S. Fish & Wildlife Service Birds of Conservation Concern
WBWG_H	Western Bat Working Group – High Priority
WBWG_MH	Western Bat Working Group – Medium-High Priority
WBWG_M	Western Bat Working Group – Medium Priority
WBWG_LM	Western Bat Working Group – Low-Medium Priority
Xerces: CI	Xerces Society – Critically Imperiled
Xerces: IM	Xerces Society – Imperiled
Xerces: VU	Xerces Society – Vulnerable
Xerces: DD	Xerces Society – Data Deficient



Ultran	Ultramafic (serpentine) Affinity				
	≥ 5.5	strict endemic	taxa with 95% of their occurrences on ultramafics		
< 5.5	$\geq$ 4.5	broad endemic	taxa with 85-94% of their occurrences on ultramafics		
< 4.5	≥ 3.5	transition from broad endemic to strong indicator	taxa with 75-84% of their occurrences on ultramafics		
< 3.5	≥2.5	strong indicator	taxa with 65-74% of their occurrences on ultramafics		
< 2.5	≥1.5	weak indicator	taxa with 55-64% of their occurrences on ultramafics		
< 1.5	$\geq 1.0$	weak indicator / indifferent	taxa with 50-54% of their occurrences on ultramafics		



Appendix B: List of Species Observed



SCIENTIFIC NAME	COMMON NAME
Plants	
Acer macrophyllum	bigleaf maple
Achillea millefolium	common yarrow
Acmispon brachycarpus	short-podded lotus
Adenostoma fasciculatum	chamise
Adiantum jordanii	maiden hair fern
Anaphalis margaritacea	pearly everlasting
Arbutus menziesii	Pacific madrone
Arctostaphylos canescens ssp. canescens	hoary manzanita
Arctostaphylos glandulosa ssp. glandulosa	Eastwood manzanita
Arctostaphylos manzanita spp. manzanita	common manzanita
Avena barbata	slender wild oat
Baccharis pilularis	coyote bush
Cardamine californica	milk maids
Cardamine hirsuta	hairy bittercress
Cardamine oligosperma	Idaho bittercress
Carduus pycnocephalus	Italian thistle
Ceanothus cuneatus var. cuneatus	buckbrush
Ceanothus foliosus var. foliosus	wavyleaf ceanothus
Cerastium glomeratum	mouseear chickweed
Cercocarpus betuloides	mountain mahogany
Chlorogalum pomeridianum var. pomeridianum	wavyleaf soap plant
Claytonia perfoliata	miners lettuce
Cynoglossum grande	Pacific houndstongue
Cynosurus echinatus	bristly dogtail grass
Delphinium nudicaule	red larkspur
Dichelostemma capitatum	blue dicks
Diplacus aurantiacus	sticky mnkey flower
Dryopteris arguta	California wood fern
Elymus glaucus	blue wild rye
Eriophyllum lanatum	common woolly sunflower
Erodium moschatum	storks bill
Erodium spp.	geranium
Erythronium californicum	California fawn lily
Festuca microstachys	small fescue
<i>Festuca perennis</i>	Italian rye
Fritillaria affinis	checker lily
Galium aparine	cleavers
Galium bolanderi	Bolander's bedstraw
Gastridium phleoides	nit grass



SCIENTIFIC NAME	COMMON NAME
Genista monspessulana	french broom
Geranium molle	woodland geranium
Heteromeles arbutifolia	toyon
Hieracium spp.	hawkweed
Holodiscus discolor	oceanspray
Hordeum brachyantherum	common barley
Hypericum concinnum	goldwire
Hypochaeris glabra	smooth cats ear
Iris macrosiphon	ground iris
Lomatum dasycarpum	hog fennel
Lonicera spp.	honeysuckle
Lotus corniculatus	birdsfoot trefoil
Lithophragma affine	common woodland star
Luzula comosa	hairy wood rush
Lysimachia latifolia	Pacific star flower
Medicago polymorpha	bur clover
Micranthes californica	Greene's saxifrage
Microcarpus californicus	q-tips
Mimulus aurantiacus	sticky monkey flower
Nemophila heterophylla	small baby blue eyes
Notholithocarpus densiflorus	tanoak
Pedicularis densiflora	warrior's plume
Pentagramma triangularis	goldenback fern
Phoradendron leucarpum ssp. tomentosum	mistletoe
Pinus attenuata	knobcone pine
Plagiobothrys tenellus	slender popcorn flower
Plantago lancelota	English plantain
Polypodium californicum	California polypody
Polypodium glycyrrhiza	licorice fern
Primula hendersonii	Henderson's shooitng star
Pseudotsuga menziesii	Douglas-fir
Pteridium aquilinum var. pubescens	bracken fern
Quercus berberidifolia	scrub oak
Quercus garryana	Oregon white oak



SCIENTIFIC NAME	COMMON NAME	
Quercus kelloggii	California black oak	
Quercus parvula var. shrevei	Shreve oak	
Quercus wislizeni var. wislizeni	interior live oak	
Ranunculus occidentalis	western buttercup	
Rosa gymnocarpa	wood rose	
Rumex acetosa	sorrel	
Sanicula crassicaulis	Pacific sanicle	
Scutellaria tuberosa	skullcap	
Sequoia sempervirens	coast redwood	
Stachys spp.	hedgenettle	
Stellaria media	chickweed	
Symphoricarpos albus	snowberry	
Torreya californica	California nutmeg	
Toxicodendron diversilobum	poison oak	
Trientalis latifolia	western star flower	
Trifolium microcephalum	small headed clover	
Umbellularia californica	California bay laurel	
Vicia americana	American vetch	
Whipplea modesta	modesty	
Wyethia glabra	smooth mule ears	
Wildlife	· · · · ·	
Amphibians		
N/A	-	
Avifauna		
Aphelocoma californica	western scrub jay	
Buteo jamaicensis	red tailed hawk	
Buteo lineatus	red-shouldered hawk	
Cathartes aura	turkey vulture	
Colaptes auratus	northern flicker	
Corvus corax	common raven	
Junco hyemalis	dark-eyed junco	
Melanerpes formicivorous	acorn woodpecker	

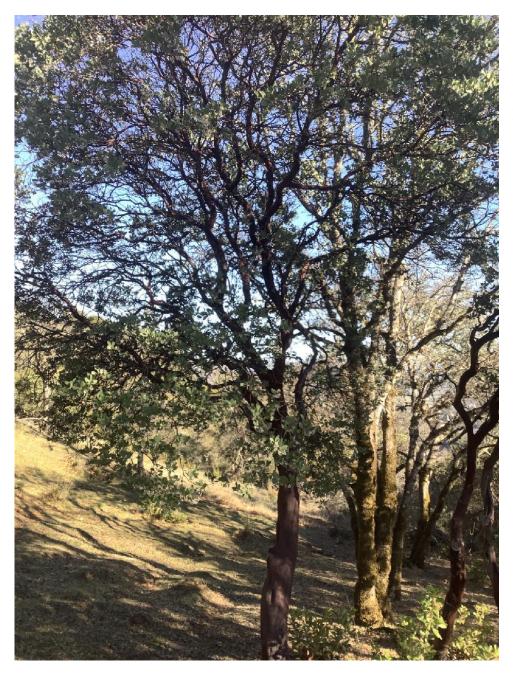


SCIENTIFIC NAME	COMMON NAME	
Fish		
N/A	-	
Insects		
N/A	-	
Mammals		
Odocoileus hemionus	mule deer	
Mollusks		
N/A	-	
Reptiles		
N/A	-	



Appendix C: Photographs





**Photo 1:** Overview of Study Area.

Photo facing North.





**Photo 2:** Overview of Study Area.

Photo facing East.





#### Photo 3:

Overview of Study Area.

Photo facing West.





**Photo 4:** Overview of Study Area.

Photo facing Northwest.

**Date:** February 5, 2021

**Photo 5:** Overview of Study Area.

Photo facing Southwest.





**Photo 6:** Cleared area within Study Area.

Photo facing Northwest.





**Photo 7:** Overview of Study Area.

Photo facing Northeast.





**Photo 8:** Overview of Study Area.

Photo facing North.





#### Photo 9:

Overview of Study Area.

Photo facing East.





#### Photo 10:

Overview of Study Area.

Photo facing Southeast.





## Photo 11:

Overview of Study Area.

Photo facing West.





Photo 12:

Overview of Study Area.

Photo facing West.





## Photo 13:

Overview of Study Area.

Photo facing West.





## Photo 14:

Overview of Study Area.

Photo facing South.





## Photo 15:

Overview of Study Area.

Photo facing Southwest.





## Photo 15:

Clearing within Study Area.

Photo facing North.





#### Photo 17:

Overview of Study Area (at edge looking towards Ukiah).

Photo facing East.





**Photo 18:** Within a clearing in Study Area (and looking past).

Photo facing Northeast.





## Photo 19:

Overview of Study Area.

Photo facing North.





#### Photo 20:

Overview of Study Area (showing road).

Photo facing West.





#### Photo 21:

Overview of Study Area (showing cleared area).

Photo facing West.



#### JACOBSZOON & ASSOCIATES, INC.



#### Photo 22:

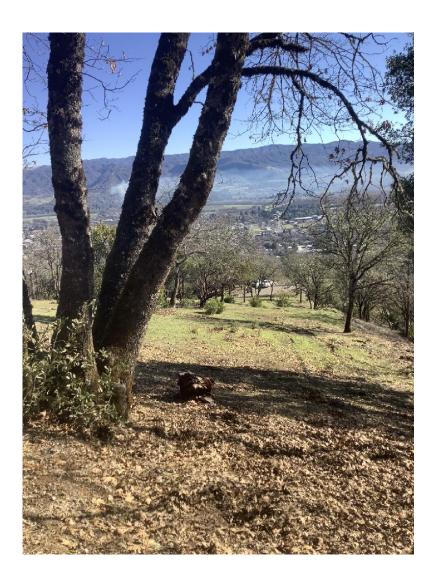
Overview of Study Area (showing road).

Photo facing West.

**Date:** February 5, 2021



#### JACOBSZOON & ASSOCIATES, INC.



#### Photo 23:

Overview of Study Area.

Photo facing East.

Date: February 5, 2021



## JACOBSZOON & ASSOCIATES, INC.



#### Photo 24:

Overview of Study Area.

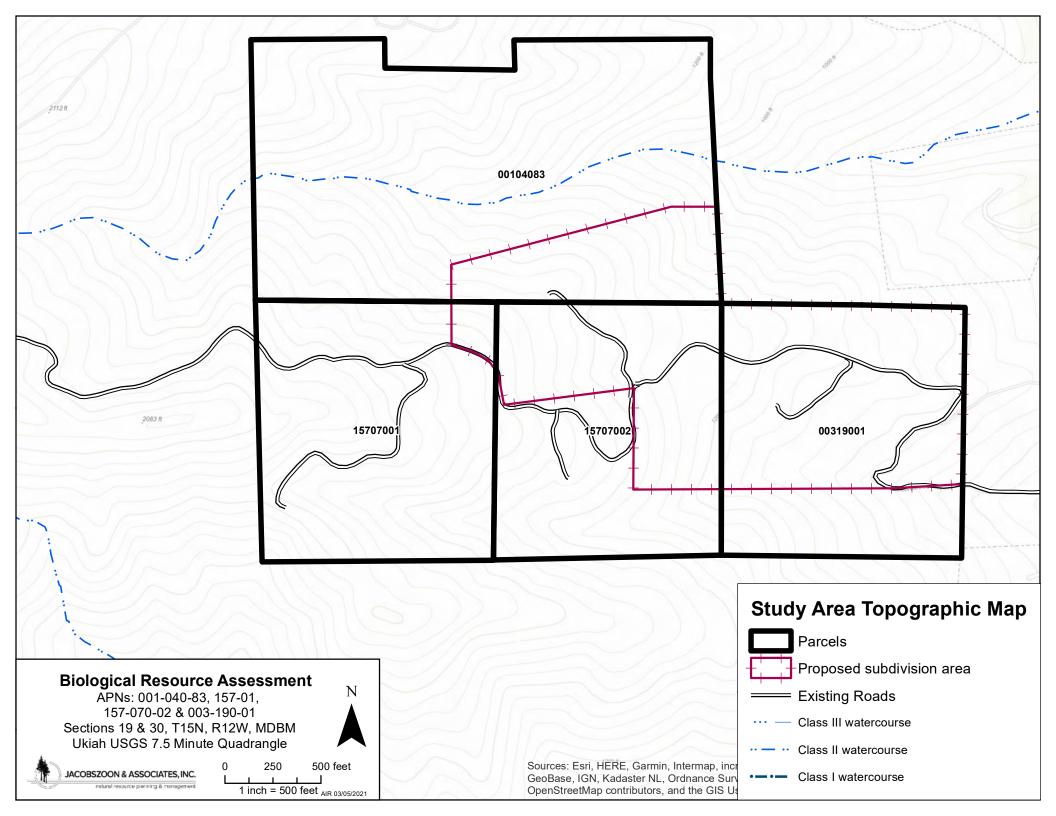
Photo facing West.

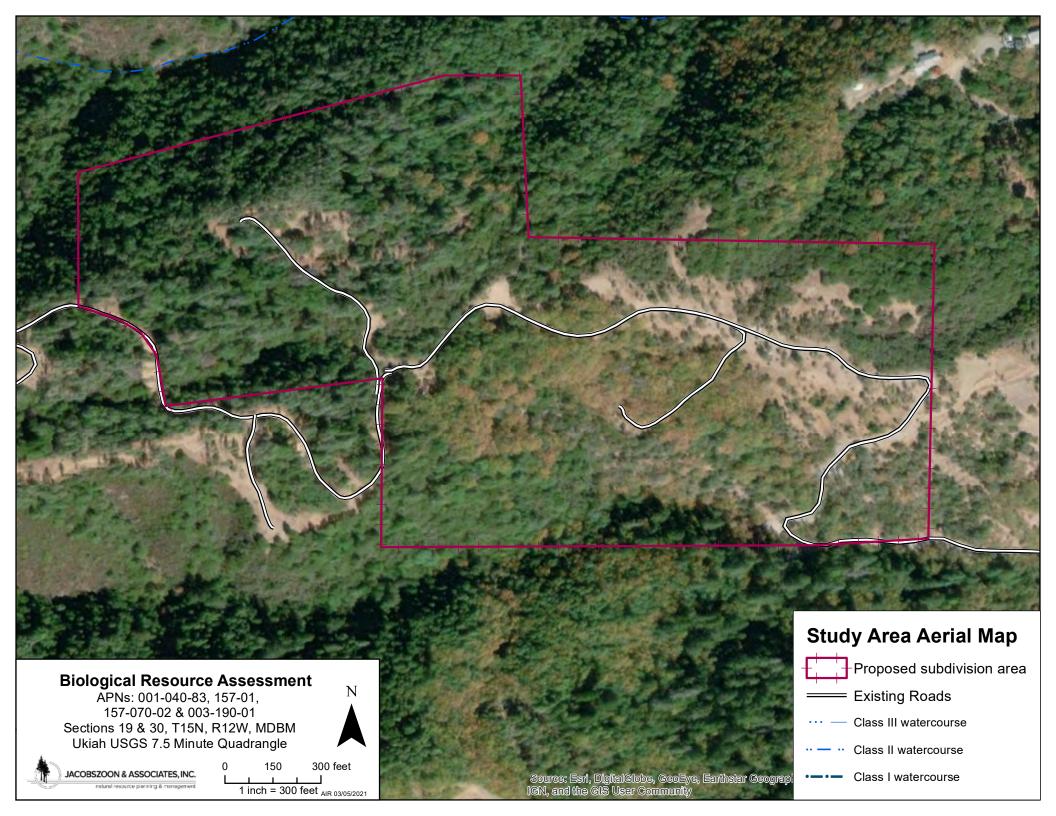
**Date:** February 5, 2021

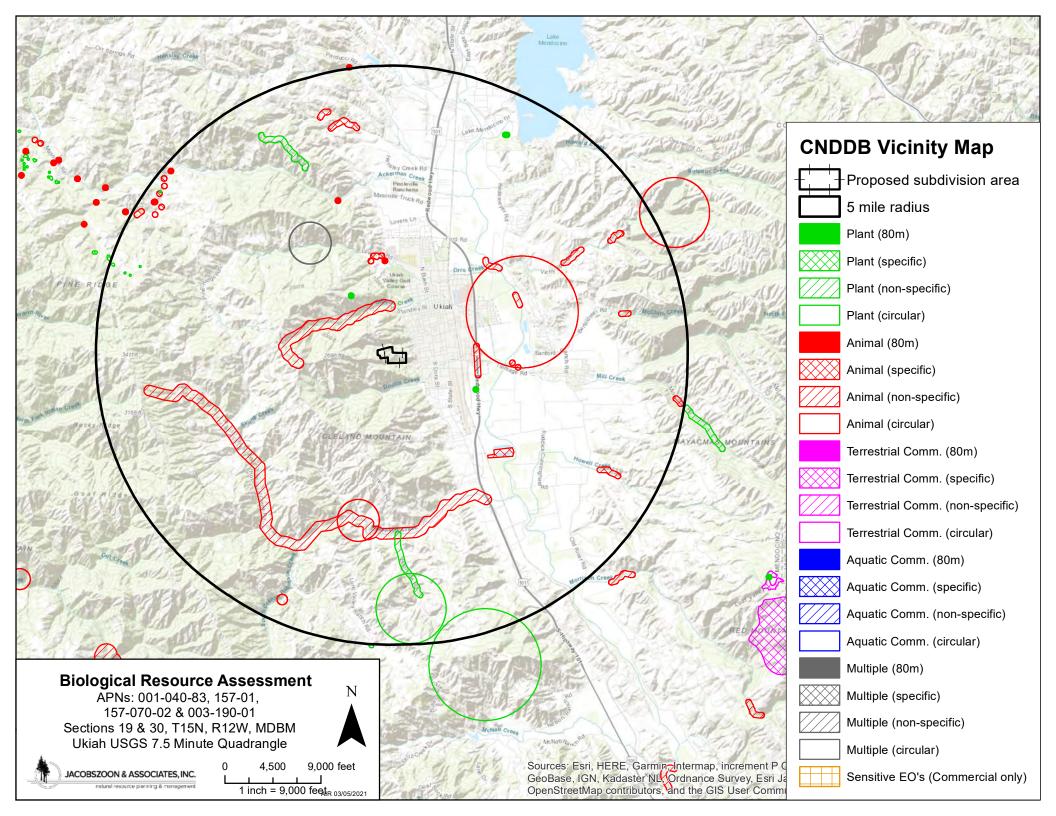


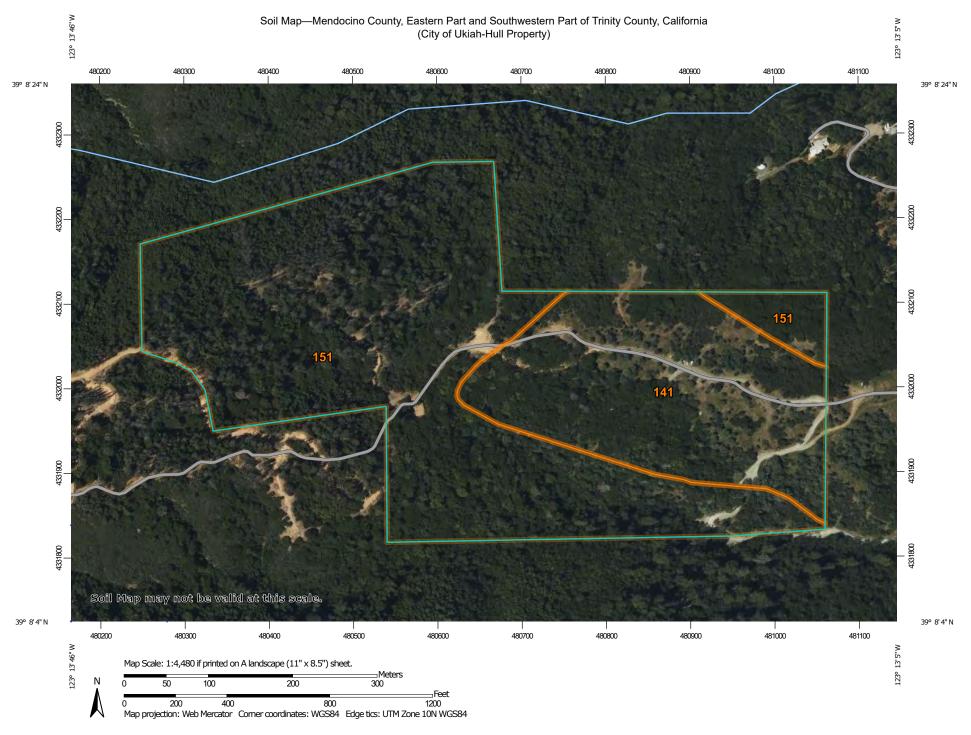
Appendix D: Maps











USDA Natural Resources

**Conservation Service** 

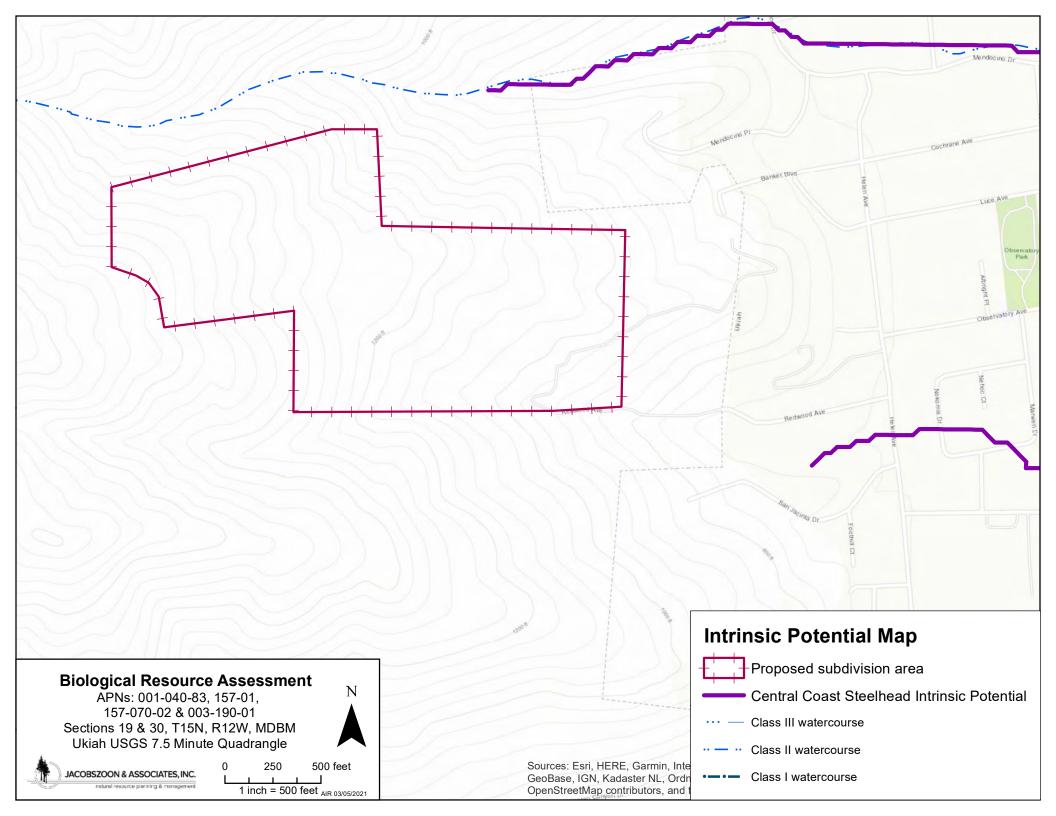
Web Soil Survey National Cooperative Soil Survey

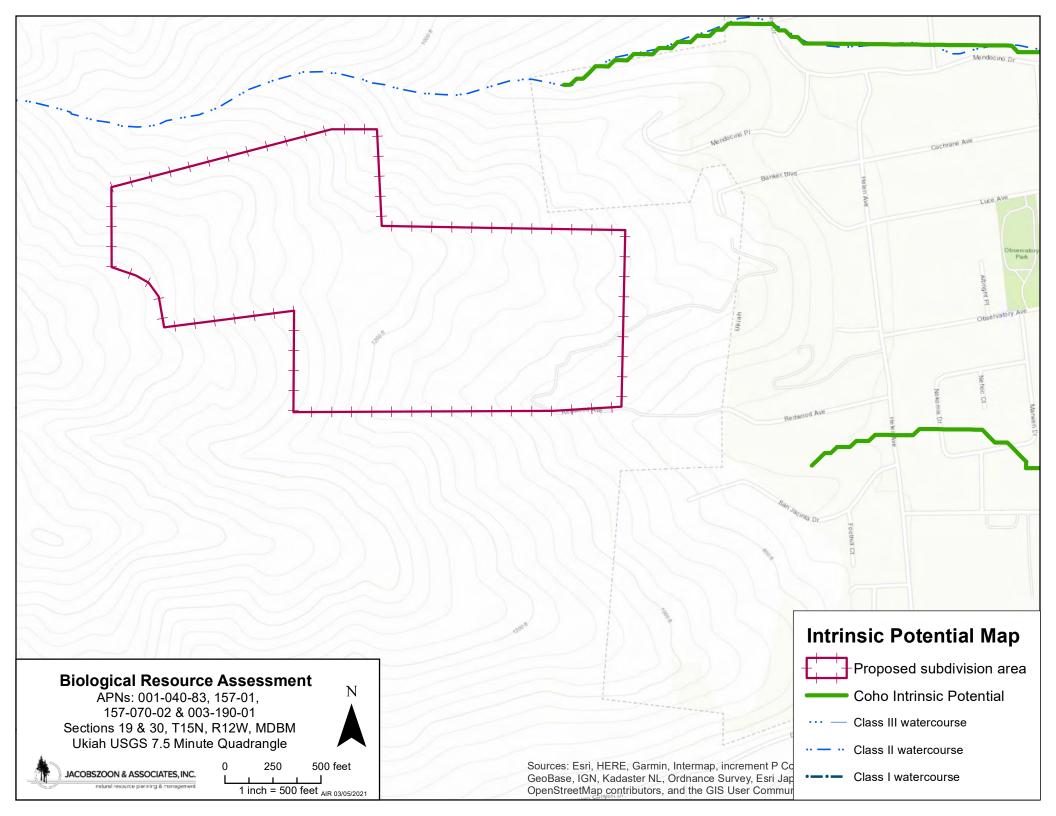
Area of Interest (AOI) & Stony Spot Soils Soil Map Unit Polygons	The soil surveys that comprise your AOI were mapped at 1:24,000.
Soil Map Unit Lines Other   Soil Map Unit Points Special Line Features   Soil Map Unit Points Special Line Features   Blowout Water Features   Borrow Pit Streams and Canals   Clay Spot Hails   Closed Depression Interstate Highways   Gravel Pit Vater Features   Gravel Pit Vater Streams and Canals   Gravel Pit Vater Streams and Canals   Gravel Pit Vater Streams and Canals   Antifili Vater Streams and Canals   Major Roads Local Roads   Antifili Vater Streams and Canals   Mine or Quarry Aerial Photography   Mine or Quarry Mine or Quarry   Mine or Quarry Saline Spot   Saline Spot Vater Streams and Spot   Saline Spot Vater Streams and Streams   Sandy Spot Sandy Spot   Sould Streams Streams and Canals   Sould Depression Hails   Mine or Quarry Sandy Spot   Saline Spot Vater Streams   Sandy Spot Sandy Spot   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams   Sould Streams Vater Streams	Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detaile scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as th Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data of the version date(s) listed below. Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 15, Jun 1, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: May 5, 2019—Jun 2019 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor

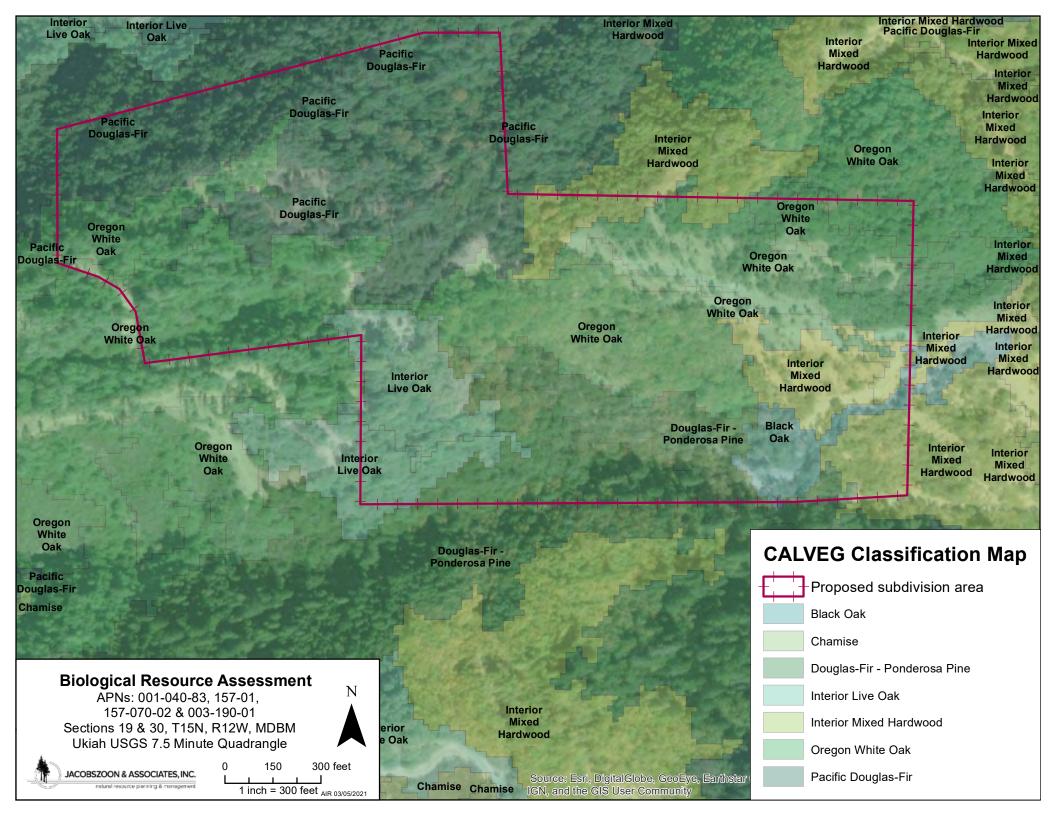


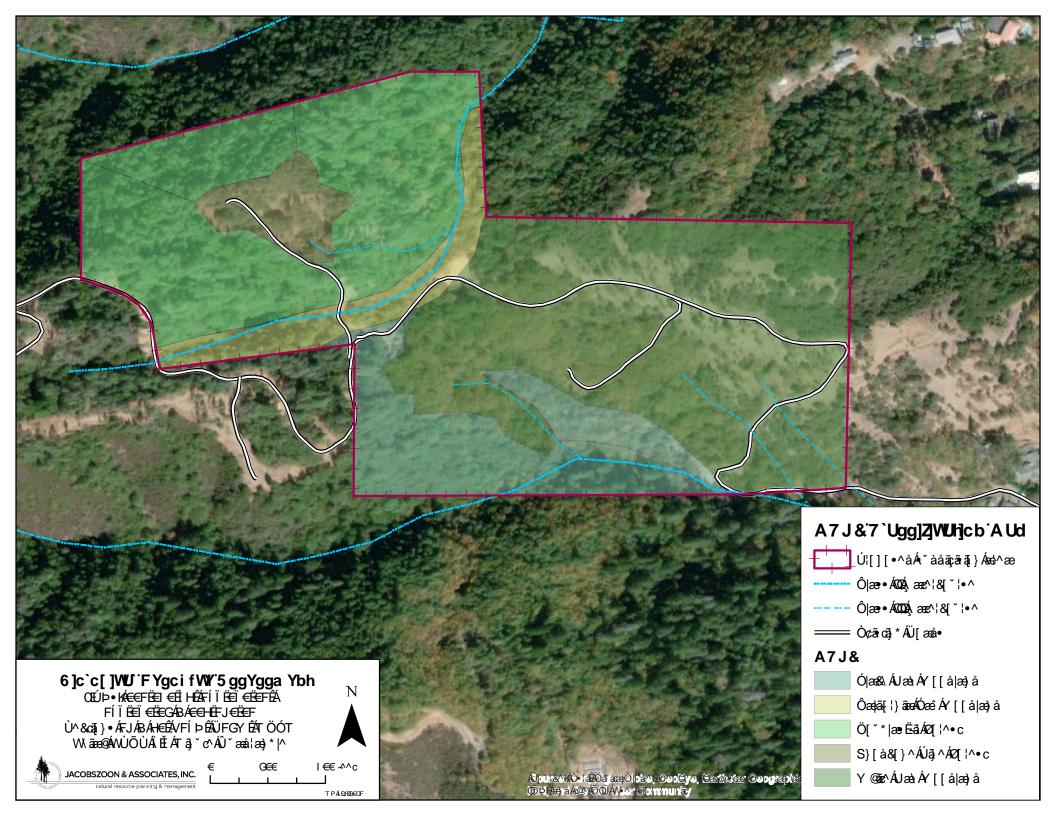
## Map Unit Legend

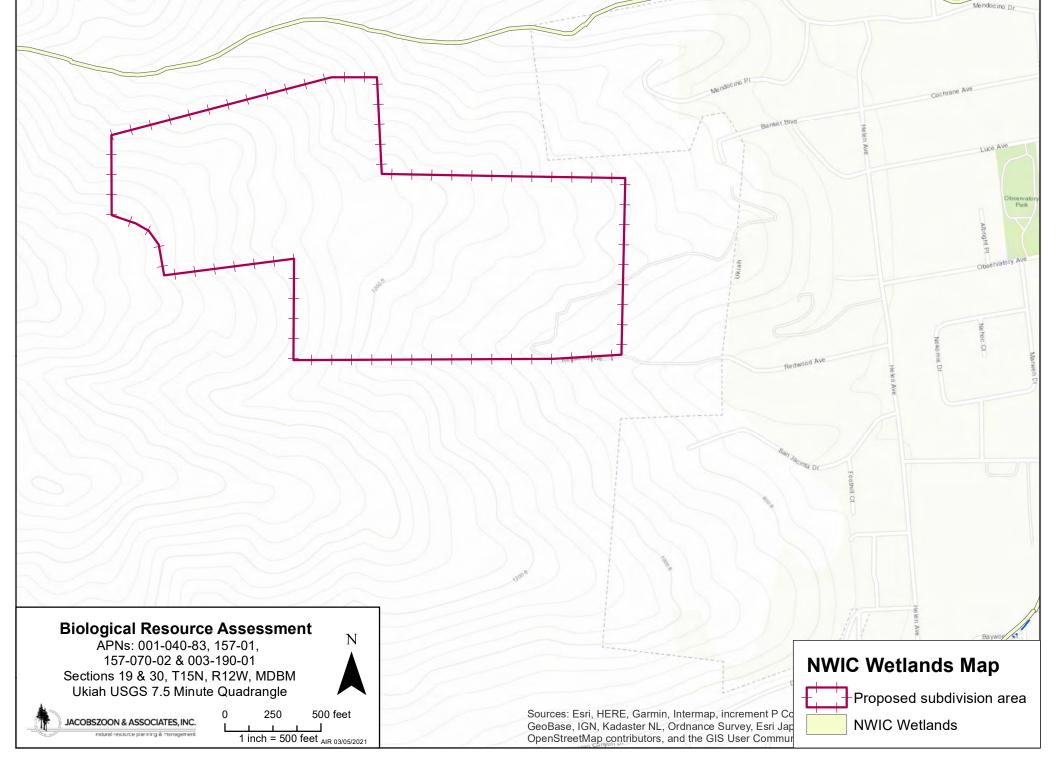
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
141	Hopland loam, 30 to 50 percent slopes, high ffd	18.6	31.4%
151	Hopland-Wohly loams, 50 to 75 percent slopes	40.6	68.6%
Totals for Area of Interest		59.2	100.0%

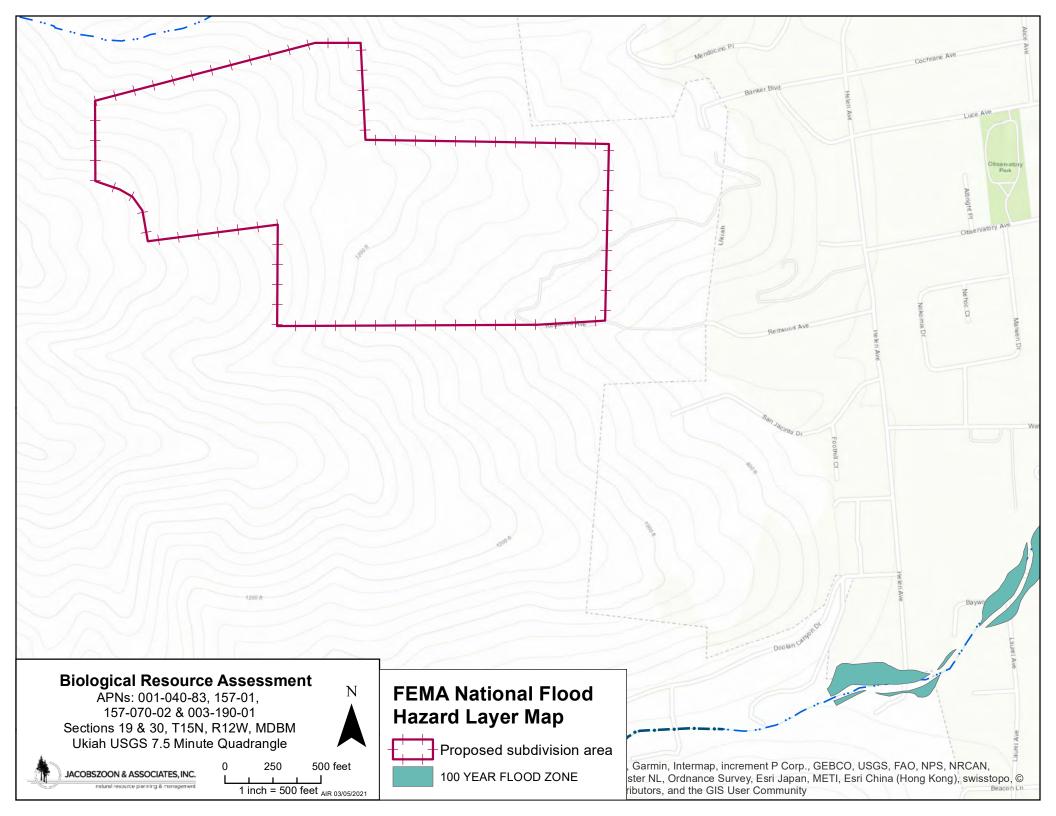












Appendix E: Supporting Documents





## United States Department of the Interior

FISH AND WILDLIFE SERVICE Arcata Fish And Wildlife Office 1655 Heindon Road Arcata, CA 95521-4573 Phone: (707) 822-7201 Fax: (707) 822-8411



In Reply Refer To: Consultation Code: 08EACT00-2021-SLI-0169 Event Code: 08EACT00-2021-E-00382 Project Name: City of Ukiah February 23, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq*.), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http:// www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

#### Arcata Fish And Wildlife Office

1655 Heindon Road Arcata, CA 95521-4573 (707) 822-7201

This project's location is within the jurisdiction of offices which do not participate in IPaC's automated species list delivery. Please contact the following offices directly for more information:

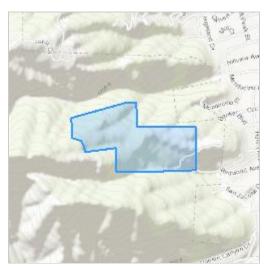
#### **Red Bluff Fish And Wildlife Office**

10950 Tyler Road Red Bluff, CA 96080-7762 (530) 527-3043

## **Project Summary**

Consultation Code:08EACT00-2021-SLI-0169Event Code:08EACT00-2021-E-00382Project Name:City of UkiahProject Type:LAND - ACQUISITIONProject Description:Parcel line adjustment to create 7 lots within approximately 55 acresProject Location:Vertical description

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@39.13734495,-123.22381603736494,14z</u>



Counties: Mendocino County, California

## **Endangered Species Act Species**

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **Birds**

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/1123</u>	Threatened
<ul> <li>Western Snowy Plover <i>Charadrius nivosus nivosus</i></li> <li>Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast)</li> <li>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8035</u></li> </ul>	Threatened
Yellow-billed Cuckoo Coccyzus americanus Population: Western U.S. DPS There is <b>proposed</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/3911</u>	Threatened
Amphibians NAME	STATUS

California Red-legged Frog *Rana draytonii* Threatened There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/2891</u>

## **Flowering Plants**

NAME	STATUS
Burke's Goldfields <i>Lasthenia burkei</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/4338</u>	Endangered
Contra Costa Goldfields <i>Lasthenia conjugens</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/7058</u>	Endangered
Showy Indian Clover <i>Trifolium amoenum</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6459</u>	Endangered

### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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D5;ã;憕Æ D5;]@3aãæ}∙	Væð&@æÁðç` æð	¦^åËa^∥ā∿åÁj,^, c	QEHEREØ€G€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghog	WSQEP	Tæ]]^åÁæ)å W}]¦[&^∙∙^å	05;ã; a‡•AÄOE; ]@äaãaa)•AË Ùa‡aa; a3)å¦ãa ae AÄAada&@ee ¦ã;č  adaãa
)5;ã;a;+•ÁË )5;]@ãaãæ;)∙	Væð&@æÁðçč  æð	¦∧åËå^∥ð∿åÅ,^, c	QEHERE/€G€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	нуғанан	ŬÜÜÙ ÙÚÜŒÕÙ	Tæ∯]^å	05;ā[憕ÁÄ05;]@ānāæ)•ÁË Ùæ†æ‡ æ}å¦ānāæ^ÁÄVæia&@æ ¦āç` æiā
D5;ã;憕Æ D5;]@ãaãæ}∙	Væð&@æÁðçč  æðð	¦^åËa^∥a∿åÁj,^, c	OEEEEE	Þ[}^	Þ[}^	ÙÙÔ	Ë	IJFG <del>H</del>	ŠŒWÕ₽ŠŒ⊳ ÜŒ⊵ÕÒ	Tæ∯]^å	CB, āj a‡• ÁŘÁCE; ]@5a ãa)• ÁŘ Úa‡azi; ad)å¦ãa a# ÁŘÁVada33.@3e ¦ãç` ad ã
05)ą̃a∲•AË Óãåå∙	018&a]ãc^\Á^}aāã	}[¦c@;}Á[•œç\	ŒÓÞSÔFŒÎ€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>hf</del>	ÚU V VÒÜ XŒŠŠÒŸ	Tæ}]^å	O5;ā;憕ÁEXÓãå•ÁË O58&3;ātāāæ•ÁEXO58&3;āe^¦ *^}dājā

@cd]•KBBaa}]•È;āfå|ã^b3aabž[çBaā[•Đ]¦ājc/aaà|^Ú¦^çã^,È@a(|

#### QTOEÚÙÁÚ¦ậ, cÁÚ¦^çã\,

O5jāįaț•ÆË Óđiå∙	Œĭ <b>ajæx%</b> @^∙æ\d•	*[ å^}Á*æ* ^	ŒÓÞSÔGG€F€	Þ[}^	Þ[}^	ØÚÆ YŠ	Ë	hj f <b>g-ig</b> f	ÔUY	W}]¦[&^••^å	O5, ãį a‡+ ÄÄ́Óãå• ÄË O8&&ãjãiãaæ°ÄÄ́ØEčãæ
									TUWÞVOED		&@^*•æ%q*• OĘą࿆̃•ÁžÓãå•ÁË
O5jāįa‡•ÆË Óãå∙	Œĭ <b>āæ4&amp;@^∙æ</b> •([•	* [  å^} Á æ  ^	ŒÓÞSÔGG€F€	Þ[}^	Þ[}^	ØÚÆÎ YŠ	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	W}]¦[&^••^å	0,7 a at Anoaa Ano OR&aj ai ãaæ ÁFACE čãæ &@°•æ°([•
O5ją̃a∳+ÁË Óãå∙	Ôã& • Á@ å•[}ã •	}[¦c@!}Á@eelar¦	ŒÓÞSÔFF€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩}]¦[&^••^å	05; ā; 懕 ÁZÓãå• ÁË 078&3; āiāaæ ÁZÓã&ĭ• @å•[}ã•
O5jāįa‡•ÁË Óãå∙	Ò æ) ˘ • Á^ ˘ & ̆ ¦˘ •	, @ar∧Ecæaa∤^åÁãr^	ŒÓÞSԀ΀F€	Þ[}^	Þ[}^	ØÚ	Ë	hjfghhg	ÜÒÖY UUÖ XŒŠŠÒŸ	W}]¦[&^••^å	05;ā; 憕Á≅Óãå•ÁË 088&ã;ātããæ Á≅Ó∣æ)`•  ^`&`¦`•
O5jāįa∳AË Óãiå∙	Œlå^æ∲@⊹[åãæ	*¦^æ&a `^Á@:{[}	ŒÓÞÕŒEI€F€	Þ[}^	Þ[}^	Ë	Ë	HJFGHGG	WSQEP	W}]¦[&^••^å	O5;ãį a‡•ÁÄŽÓãå•ÁÄŽOEtå^ããæ°ÁË OEtå^æ4@⊹[åãæ•
OBjā[a‡+AË Óãlå∙	C≝^ æã•Áslã&[ [¦	dã&[∥[¦^åÁsi æ&∖àãå	ŒÓÚÓÝÓ€€G€	Þ[}^	V@^æe^}^å	ÙÙÔ	Ë	hjfg <b>hf</b>	ÚU V VÒÜ XOĐŠŠÒŸ	Tæ}]^å	C5;ã; a‡+ ÁËŹÓãå+ÁËŹÓ3&a*ÁË C2≛^ æã:+Ásiã&[ [¦
05;ã;憕ÆË Óãå•	<b>(&amp;c</b> ^¦ã∞ý;ã^}∙	^^  [,Ëa¦^æc^åÁ&@æ	ŒÓÚÓÝG €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <b>hf</b>	ÚU V VÒÜ XOĐŠŠÒŸ	₩]¦[&^••^å	O5;ā;a‡•Á22Óãå•Á2243&°¦ãããæ°Á2E C34c°¦ãae4ýã^}•
05;ã;憕ÆË Óãå•	Cacc^¦ãæký́ã^}∙	^^  [,Ëa¦^æo¢åÁ&@ee	ŒÓÚÓÝG €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjf <del>g h</del> g	ÜÒÖY UUÖ XOĐŠŠÒŸ	₩]¦[&^••^å	O5;ā;憕ÁÉZÓãå•ÁÉZÖ&&~¦ãããæ≏ÁÉ CA&~¦ããeÁçã^}•
05;ã;憕ÆË Óãå∙	C&c^¦ãækýã^}∙	^^  [,Ëa¦^æơåÁ&@æ	ŒÓÚÓÝG €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHQG	WSQEP	₩]¦[&^••^å	O5;ā;憕Á22Óāå•Á2243&∿¦ããaæ≯ÁE Q3xc¦ãæáçā^}•
O5jāįa‡•ÆË Óālå∙	C&c^¦ãækýjã^}∙	^^ ∥[,Ëa¦^æo∿åÁ&@ee	ŒÓÚÓÝG €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHGF	ÔUY TUW⊳VOED⊋	₩]¦[&^••^å	O5;ā;æ+•Á21Óãå•Á2103&c°¦ããæ≉Á2 C34c°¦ãæ4çã^}•
05,ã, a‡•Æ Óãå•	C&c^¦ãækýã^}∙	^^  [,Ëa¦^æơåÁ&@æ	ŒÓÚÓÝG €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <b>HF</b> G	ÒŠŠÒÖÕÒ ÚÒOES	₩]¦[&^••^å	O5;ā;憕Á22Óāå•Á2243&∿¦ããaæ≯ÁE Q3xc¦ãæáçā^}•
OBją̃ia‡+ÁË Óãå•	Úæ)åąī}Á@e¢aae°č∙	[•]¦^^	ŒÓÞSÔ€F€F€	Þ[}^	Þ[}^	ΥŠ	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	Ta∯]^å	C1,5,ã(æ)+ Á⊒ÓÓãå•ÁË Úæ)åã(}ãaæ\ÁËÁÚæ)åã(} @e¢aãecčě•
O∄aĩa‡•ÁË Óãå∗	Úæ)åą[}Á@e¢aae°č∙	[•]¦^^	ŒÓÞSÔ€F€F€	Þ[}^	Þ[}^	ΥŠ	Ë	hj fghog	WSOOP	Tæ]]^å	05;ā( a‡+ ÁĒÁÓāå•ÁĒ Úa3)åā(}}ãāa≫ÁĒÁÚa3)åā(} @a‡āa≌ćč•
O∄aĩa‡•ÁË Óãaå∙	Úæ)åąį}Á@e¢aae°č∙	[•]¦^^	ŒÓÞSÔ€F€F€	Þ[}^	Þ[}^	ΥŠ	Ë	hjfg <b>hf</b>	ÚU V VÒÜ XŒŠŠÒŸ	W}]¦[&^••^å	05;ā(a‡•ÁĒÓðāå•ÁĒ Úæ)åā(}}ãaæ∕ÁĒÁÚæ)åā(} @e‡ãae°č•
O5jāįa‡•ÆË Óãiå∙	Óæ^[ []@• ậ[¦}æč•	[æ\Áãa([`•^	ŒÓÚŒY €FF€€	Þ[}^	Þ[}^	Ë	Ë	HJFGHGG	WSQEP	W}]¦[&^••^å	05;ã; 憕ÁЁÓãå•ÁЁÁ)æ;ãåæ?ÁË Óæ°[∥[]@•Á§[¦}æč•
05;ãį a‡•ÁË Óãå•	Óæ^[∥[]@• ậ[¦}æč∙	[æ\Áxaa([`•^	ŒÓÚŒY €FF€€	Þ[}^	Þ[}^	Ë	Ë	HJF <b>G+F</b> G	ÒŠŠÒÖÕÒ ÚÒŒS	₩]¦[&^••^å	O5;ā;憕ÁÄÓðiå•ÁÄÚæ)äåæ≯ÁE Óæ^[∥]]@•Á§[¦}æč•
05,ãį a‡•ÁË Óãå∙	Óæt^[∥[]@[• ậ[¦}æč∙	[æ\Áāa{[`•^	ŒÓÚŒY €FF€€	Þ[}^	Þ[}^	Ë	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩]¦[&^••^å	05;ā(憕Á¤Óðiå•Á¤Úæ)ä忢Á⊑ Óæ°[∥[]@•Á9j[¦}æč•
05,ãį a‡•ÁË Óãå∙	Ù^{[]@etæ4j^^&&@ae	^^  [ , Á æà ^¦	ŒÓÚÓÝ€HEF€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHFG	ÒŠŠÒÖÕÒ ÚÒŒS	₩]¦[&^••^å	05;ā(a‡•Á21⁄0āå•Á21́0æ* ãaæ•Á2 Ù^([]@ee*æ4,^c^&&@aæ
05;ãį æ†•ÆË Óãå∙	Ù^([]@etae∮,^c^&@ae	^^  [ , Á æàà ^¦	ŒÓÚÓÝ€H€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <b>hf</b>	ÚU V VÒÜ XOĐŠŠÒŸ	₩}]¦[&^••^å	Q5;ā[憕ÁĒÁÓāå•ÁĒÁÚæ+ઁ ããæ*ÁĒ Ù^q[]@eetæ4j.^c^&@obe
O∄aĩa‡•ÁË Óãå∙	OĘ{{[妿{ř• •æçæ}}æř{	*¦æ•@]]^¦Á]æ¦[,	ŒÚÚÓÝŒE€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	Tæ]]^å	O5;ā;a‡•Á52Óãå•ÁË Úæ••^¦^∥ãaæ%Æ O5;{ [妿;ř•Áæçæ)}æ∛{

OBjā[a‡●ÁË Óãiå●	T^ æ}^¦]^•Á(^,ã	Š^, ã(ģ.[[å]^&\^¦	ŒÓÞŸØ€I€F€	Þ[}^	Þ[}^	Ë	Ë	HJFG <b>HF</b> G	ÒŠŠÒÖÕÒ ÚÒOES	₩]¦[&^••^å	O5;ãį a‡+ Á2ÁÓãå+ ÁEÁÚã&ãaæ^ÁE T^ aa}^¦]^+Á^,ã
05,ã,憕ÁË Óãå•	T^ æ}^¦]^•Á(^,ã	Š^, ã(Q, [[å]^&\^¦	ŒÓÞŸØ€I€F€	Þ[}^	Þ[}^	Ë	Ë	HJFGHQG	WSQEP	W}]¦[&^••^å	05;ā;憕ÁËÓãå•ÁËÚã&ãaæ∕ÁË T^ æ}^¦]^•Á^,ā
05;ã(憕ÁË Óãåå∙	Ùdã¢Á[k&&ãã^}cæ‡ã &æč¦ãjæ	Þ[¦@¦}ÂJ][œåÁJ,	ŒÓÞÙÓFŒFF	V@^æe^}^å	V@^æe^}^å	Ë	Ë	HJFG <del>HF</del> H	ÓUUÞXQŠŠÒ	Tæ}]^å	QĘą̃a≄•ÁËÁÓãå•ÁËÁÚdãããæ?. ÙdãcÁ{&&ãã^}ca≄ãÁ&æč¦ãjæ
05;ã;憕ÁË Óãåå∙	Ùdã¢Áįk&&ãã∧}œa‡ã &æč¦ãjæ	Þ[¦@¦}ÂĴ][œåÁJ,	ŒÓÞÙÓFG€FF	V@^æe^}^å	V@^æe^}^å	Ë	Ë	hjfghgh	UÜÜÙ ÙÚÜ�ÕÙ	Tæ}]^å	OĘą̃a; aq+aÄŽÓãå.åa ÄÄÄÜdāfāaâæ? ÙdācÁį&&&ãā^}caq4ārÁ&æč¦ājæ
05jãῆ•ÁË Óãiå∙	Ùdã¢Á(&&ãã^}}œ‡ã &æč¦ãjæ	Þ[¦@?¦ÂĴ][c?åÁJ,	ŒÓÞÙÓFŒFF	V@^æe^}^å	V@^æe^}^å	Ë	Ë	HJFG <b>HF</b>	ÚU VVÒÜ XOĐŠČOŸ	Tæ}]^å	05;ā; 憕 ÁËŹÓãå • ÁËÁÙdā*aãæ* ÙdãcÁ[&&&ãā^}cæ†ā*Á&æ*¦ājæ
05jãj憕ÁË Óãå∙	ÙdãtÁ(&&ãã^^} cæ‡ã &æč¦ãjæ	Þ[¦@?¦ÂJ][@åÁJ,	ŒÓÞÙÓFG€FF	V@^æe^}^å	V@^æe^}^å	Ë	Ë	hjfg <b>h</b> g	ÜÒÖY UUÖ XOĐŠŠÒŸ	Tæ}]^å	05;ā; 憕 ÁËŹÓãå t• ÁËÁÙdā* ããæ≊ ÙdãcÁ;888ãã ^}œa†ã*Á\$&æ* ¦ã;æ
05;ã;憕ÁË Óãå∙	ÙdãtÁ(&&ãã^^} cæ‡ã &æč¦ãjæ	Þ[¦@?¦ÂJ][@åÁJ,	ŒÓÞÙÓFG€FF	V@^æe^}^å	V@^æe^}^å	Ë	Ë	HJFG <del>HH</del>	ŠŒWÕPŠO⊉ ÜOD⊉ÕÒ	Tæ}]^å	05;ā; 懕ÁËŹÓãå ªÁËÁÙdā*ããæ ÙdãcÁ;&&&ãā^}cæ‡ã*Á&æč¦ā;æ
05,ã,憕AË Øãr@	ŠæçājãæÁr^{{ ^ dã&`∙ }æçæ¦[^}∙ã	Þæ;æ¦[Á[æ&@	ŒØÔRÓFJ€GH	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghgh	ŬÜÜÙ ÙÚÜΦÕÙ	₩]¦[&^••^å	C5;ā(憕ÁĒ262ā@ĀĒ2Ô^]¦ā)āðæ ĒXŠæçā)āæ∱^{{ ^dãX`• }æçæ¦[^}•ã
05,ã,憕AË Øãr@	ŠæçðjãæÁr^{{^dã&`∙ ••]EÁ	Ô ^æk/Šæ\^ÆÄU`••ãæ)AÜãç^¦ ¦[æ&@	ŒŹÔRÓFJ€GJ	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>HH</del>	ŠŒWÕPŠO⊉ ÜŒÞÕÒ	W}]¦[&^••^å	C5;ā;憕Á5407ā•@45400^]¦ā;āāa 1545æçā;āæ4A^{{^dā&`•Á•] 
05,a,a¢+ÁË Øãe@	P^∙c∿¦[&æai]`•Áatæa∖ãã  æat`}æa	Ô ^æłʎšæ\^Áš  ^Ą\^¦&@	ŒZÔÛS€G€FH	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghgf	ÔUY TUWÞVOEÐÞ	Tæ]]^å	C5;ā(憕Åä2k0ā@AÉ Ò(àā(d(&āāæ)ÅÉ P^•c*¦[&æ]`•Áslæe\āā  ætັ}æ≎
05ją̃a‡+AË Øãi@	P^∙c∿¦[&æå]`•Átæ≉∖ãã ][{[	Ü≚ ••ãæ) ÁÜãç^¦Áč  ^Á,^¦&@	ŒZÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghgf	ÔUY TUWÞVOEEÞ	W}]¦[&^••^å	05;ā(憕ÁЁ407ā•@4Ё Ò{àā[d[&ããæAÊ P^•⊄`¦[&æe]`•Ásiæe \ãã∱[{
05ją̃a‡+AË Øãi@	P^∙o∿¦[&æå]`•Átæ≉∖ãã ][{[	Ü≚ ••ãæ) ÁÜãç^¦Áč  ^Á,^¦&@	ŒØÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjf <b>g<del>f</del>g</b>	ÒŠŠÒÖÕÒ ÚÒŒS	₩]¦[&^••^å	05;ā(憕Á5407ā@4Ē Ò{àā[d[&ãāæ*ÁĒ P^•⊄`¦[&æ4]č•Átæ•\ãa4)[{
05ją̃a‡+AË Øãi@	P^∙c∿¦[&æå]`•Ástæe∖ãã ][{[	Ü≚ ••ãæ) ÁÜãç^¦Áč  ^Á,^¦&@	ŒZÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghog	WSODEP	W}]¦[&^••^å	05;ā(憕Á5407ā@4É Ò{àā[d[&ãāæ*ÁÉ P^•⊄`¦[&æ+]`●Ástæ•\ãa4,[{
05,ã,憕AË Øãr@	P^∙c∿¦[&æå]`•Ástæe∖ãã ][{[	Ü≚ ••ãæ) ÁÜãç^¦Áč  ^Á,^¦&@	ŒZÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>HH</del>	ŠŒWÕ₽ŠŒ¢ ÜŒÞÕÒ	W}]¦[&^••^å	05;ā(憕Á5407ē•@4Ē Ò{àā[d[&ããæ*ÁĒ P^•⊄`¦[&æ]`•Ástæ•\ãa∯[{
05,ã,憕AË Øãr@	P^∙c∿¦[&æå]`•Ástæ∍∖ãã ][{[	Ü≚ ••ãæ) ÁÜãç^¦Áč  ^Á,^¦&@	Œ2ÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjeghgh	ŬÜÜÙ ÙÚÜΦÕÙ	W}]¦[&^••^å	05;ā(憕Á5407ā@4É Ò{àā[q[&ããæ*ÁE P^•⊄`¦[&æ+]`●Ástæ•\ã54,[{
05)ą̃a≱•AË Øãr@	P^∙c∿¦[&æ}]`•Ástæ∍∖ãã ][{[	Ŭ~•• <b>ãe)</b> ÁŬãç^¦Áč  ^Áj^¦&@	Œ2ÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <b>HF</b>	ÚU V VÒÜ XŒŠŠÒŸ	W}]¦[&^••^å	05;ā;a‡•Á5406:@AE Ò(àā;d;&āaæ∕ÁE P^•c^¦[&æ]`•Ás!æ•\ãa∱[{
05;ā;憕ÆË 27ā:@	P^∙c∿¦[&æ}]`•Ástæ∍∖ãã ][{[	Ŭ~•• <b>ãe)</b> ÁŬãç^¦Áč  ^Áj^¦&@	Œ2ÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfghig	ÜÒÖY UUÖ XŒŠŠÒŸ	W}]¦[&^••^å	05;ā;a‡•Á5403:@4Ē Ò(àā;d;&āaæ∕AĒ P^•c^¦[&æ]`•Ás!æ•\ā6∳,[{
05;ā;憕ÁË 27ā•@	P^•c∿¦[&æ÷]`•Ástæe∖ãã ][{[	ܢ••ãaa) ÁIJãç^¦Áš  ^Á,^¦&@	ŒZÔÛS€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩]¦[&^••^å	05;ā(æ)+Á540ā;@4Ē Ò{àā(d(&ãāæ)ÁĒ P^•¢`¦[&æ}]ັ•Ásæ∖ãā4\[{

O5ją̃a‡•AË Øãr@	Ò}([•]@)`• d'ãā^}cæcĭ•	Úæ£ãætÁæ;]¦^^	ŒŹÓŒŒEGF€€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>HH</del>	ŠŒWÕ₽ŠŒ¢ ÜŒÞÕÒ	₩]¦[&^••^å	00;ā[æ]+ ÁĒÁOār@Æ Ú^d[{^:[}@aãæ?AĒ Ò}([•]@}`•Áslãa^}cæcĭ•
O5ją̃a‡+AË Øãe@	Ò}([•]@-}`• d'ãā^}cæcĭ•	Úæ£ããkÁpæ[]¦^^	OEZÓOEDEEGF€€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hj fghgh	IJÜÜÙ ÙÚÜΦÕÙ	W}]¦[&^••^å	05;ā;a‡•ÁāX0ā:@Æ Ú^d[{^:[}0āåæ?ÁÆ Ò}([•]@}`•Ásiāå^}cæcĭ•
O5ją̃a‡+AË Øai@	U}&{¦@}&@● ∖ãičo&@Aj[]ÈXG	&[@[Áræ‡{[}ÁŘA[čo@!} U!^*[]ÁBA[[:o@!}ÁÔæ‡ã[!}ãæ ÒÙW	ŒZÔPŒEG€HG	V@^æ^}^å	V@^æ^\}^å	Ë	Ë	HJFG <del>HH</del>	ŠŒINÕPŠO⊉ ÜOD⊉ÕÒ	₩}]¦[&^••^å	Q5jāja¢+Á21402ā;@AE Úzak[[}ābac≯ÁE U}&{¦@}&@●Áāřo&@A[]È G
05jāja¢+AË Øãi@	U}&{¦@}}&@● ∖ãičo&@Aj[]ÈÁi	&[@[Áræ‡{[}}Ä25&<}dæ‡ Ôæ‡ã[¦}ãæ&%[ærc4ÔÙW	ŒZÔPOŒEG€H	Ò}åæ)*^¦^å	Ò}åæ)*^¦^å	Ë	Ë	hjfghgg	WSQOP	₩}]¦[&^••^å	Q5jāja¢+Á∰205a;@AĒ Úæ∦[}ābærAĒ U}&{¦@}&@•Áāřa&@A[]È I
05;ã;a‡•ÁË Øãi@	U}&{¦@}&@● ∖ãrčo&@Á,[]ÈÁ	&[@[Áræ‡{[}}Ää5&∧}dæ‡ Óæ‡á[¦}áæ4&[æ•c/ÓÙW	ŒØÔ₽ŒEG€H	Ò}åæ)*^¦^å	Ò}åæ)*^¦^å	Ë	Ë	HJFG <b>-F</b> H	ÓUUÞXŒŠČÒ	₩;]¦[&^••^å	C5;ã;憕Åääæ≊a@k Úæ∦[}ãaæ*Æ U}&{¦@}&@●Áãča&@4,[]È I
05;ã;a‡•ÁË Øãi@	U}&{¦@}&@∙ {^\ã•Á≦ãå^ั•Áj[]È FÎ	•&^ @ඎໍAĔ́,[¦o@¦}AÔa¢ã́[¦}ăæ ÖÚÙ	0722ÔP07€G€JÛ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG <b>-F</b> H	ÓUUÞXŒŠŎ	₩}]¦[&^••^å	C5;ā;憕Áã2079;@Æ Úæ{{[}āāæ^AÆ U}&{¦@}&@●Á{(^\ã∙ āãā^`●Á,[]EAFÎ
05;ã;a‡•ÁË Øã:@	U}&{[¦@]}&@.● {^\ã•Á\$aãa^`•Á;[]È FÎ	• &^  @ ඎໍ#äָ, [ ¦ @; } #Ôæặā[ ¦} ãæ ÖÚÙ	ŒØÔPOŒEG€JÛ	V@^æe^}^å	Þ[}^	Ë	Ë	hjfghgh	ŪÜÜÙ ÙÚÜΦÕÙ	₩}]¦[&^••^å	C5;ã;憕ÁÉXO7a@AÉ Úæ{{[}ãaæ∕AÉ U}&{¦@}&@•Á;^\ã• ããa^`•Á;[]ĚAFÎ
05;ã;a‡•ÁË Øã:@	U}&{¦@}&@● {^\ã•Á\$aãa^`•Á;[]È FÎ	• &^  @ ඎໍѦ҄ѽ҉[ ¦ c@ ¦} ѦѺ҄ӕӓ҉ล[ ¦} ӓӕ ӦÚÙ	ŒØÔPOŒEG€JÛ	V@^æe^}^å	Þ[}^	Ë	Ë	HJFG <del>H</del> H	ŠŒINÕPŠO⊉ ÜOD⊉ÕÒ	₩}]¦[&^••^å	C5;ā;a‡+ÁĔ426ā;@AĒ Úaa∦[}āāa≫Æ U}&[¦@}&@●Á;^\ā• āãa^*•Á,[]ĔAĒÎ
05;ã;憕ÁË Øãi@	U}&{¦@}&@● {^\ã∙Á\$aã^`•Á;[]ÈÀ	• c*^ @ æåÅÄ&&} dæÅÔæ†ã[ }} ãe &[ æ dÔÚÙ	ŒZÔPOŒEG€JÕ	V@^æe^}^å	Þ[}^	Ë	Ë	HJFG <b>H</b> H	ŠŒINÕPŠO⊉ ÜŒDĐÕÒ	₩}]¦[&^••^å	C5jāja¢+ÁExC6a;@AE Úaa∦[}ābaa>ÆE U}&{¦@}&@•Áj^\ā• ābā^*•Á,[]ÈÈÅ
O5jājaa∳•AË Øāi@	U}&{¦@}&@● {^\ã∙Á§ãã^`•Á;[]ÈÀ	•c^^ @;aai/2224^}d;a4/Ó;a4a[ }äe &[ae:dÖÚÙ	ŒZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG <b>H</b> G	ÜÒÖY UUÖ XŒŠŠÒŸ	₩}]¦[&^••^å	C5;ã;憕Á52079:@Æ: Úæ{[}ãaæ^Æ: U}&[¦@}&@•Á[^\ã• ããa^*•Á[]ÈÂ
05jãįa‡•AË Øãi@	U}&{¦@}&@● {^\ã∙Á§ãã^`•Áj[]ÈÀ	• د%^  @ عشائلآ&% \ طعبلاً مُعظمًا عشارًا عنه &[ عود مالُّكُلُلُ	ŒZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	hjfghgh	UÜÜÙ ÙÚÜŒÕÙ	₩}]¦[&^••^å	Q5jāja¢+ÅE1626a;@AE Úca4{[}ābac≯ÅE U}&{¦@}&@•Á;^\ā• āãa^*•Á,[]ÈÅ
05;ã;憕ÁË Øãi@	U}&{¦@}&@● {^\ã∙Á§ãã^`•Á;[]ÈÀ	•c^^ @;ඎ%225\$^}d;a4/Ó;a4ã[;}ãe &[æo%ÖÚÙ	ŒZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	hj f <b>ghg</b> f	ÔUY TUWÞVOEDÞ	₩}]¦[&^••^å	C5;ā;憕ÁãXO3:@Æ Úæ{[}ãaæ≯Æ U}&[¦@}&@•Á(^\ã• āãa^*•Á[]EÅ
05;ā;a;∳AË Øā:@	U}&[¦@}&@∙ {^\ã∙Ásãa^`•Á;[]BÀ	•	Œ2ÔPOEEGEJŐ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG <b>-F</b> H	ÓUUÞXŒŠŠÒ	W}]¦[&^••^å	C5;ā;憕ÂΞά26a;@ΛĒ Úæ∦[}āåæ≯ĀĒ U}&[:@}&@●Á[^\ā∙ āāā^`●Á]]ÈĀ

O5jājaa∳aÁË Øãi@	U}&[¦@]&@● {^\ã∙Á\$3ãâ^`•Áj[]ÈÀ	• ♂^   @ æåÅЁ&{ } d æÅÔæþã[; } ãæ &[æ dÔÚÙ	ŒZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFGHGG	WSQOP	₩;]¦[&^••^å	Q5,ā;a‡•ÂË26ā•@Ê Ùa‡{[}āāa*ÂË U}&{¦@}&@•Á;^\ā• āãa^`•Á,[]Èà
O5jājaa†∍AË Øãi@	U}&[¦@]}&@● {^\ã∙Á\$5ãå^`•Áj[]ÈÀ	• c^^ @:æå#ää&}} d:æhÔæläa[;} äæ &[æo#ÖÚÙ	OEZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG <b>HF</b> G	ÒŠŠÒÖÕÒ ÚÒŒS	₩;]¦[&^••^å	C5;ā;æ+ ÁÉÁ26a:@ÉE Ùæ4{[}āāæ>ÁE U}&{¦@}&@•Á;^\ã• āãa^`•Á;[]EÂ
05jājaa∳rÁË Øãi@	U}&[¦@]&@● {^\ã∙Á\$5ãå^`•Áj[]ÈÀ	• c*^  @ æåÅЁ&x } d æÅÔæ‡ã[;} ãæ &[ æ c4ÔÚÙ	OEZÔPOEEG€JÕ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG+FF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩]¦[&^••^å	Q5,ā;a‡+Á≟20ā;@Ē: Ùa‡{[}āāa>ÁË U}&{¦@}&@•Á;^\ā• āãa^`•Á[]Èà
05,ã,憕ÁË Øãi@	U}&[¦@}&@∙ or@æçîor&@æ4j[]È2frï	&@3)[[\Áiæt{[}ÁËÄÔæt†ã{[}}ãæ &[æiœzetÁÔÙW	OEZÔPOEEG€ÍÙ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG+FF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩]¦[&^••^å	Q5;a;ad+ÅE2026;@AE Ùad{[]ãac+ÅE U}&[¦@]&@e Áor@ae;^or&@ae ][]E4E;ï
05,ã,憕ÁË Øãi@	U}&[¦@}&@∙ or@æçîor&@æ4j[]È2frï	&@3)[[\Áiæt{[}ÁËÄÔæt†ã{[}}ãæ &[æiœzetÁÔÙW	0927ÔP09€G€ÍÙ	V@^æ^}^å	Þ[}^	Ë	Ë	HJFG <b>HF</b> G	ÒŠŠÒÖÕÒ ÚÒŒS	₩]¦[&^••^å	Q5;a;ad+ÅE2026;@AE Ùad{[]ãac+ÅE U}&[¦@]&@e Áor@ae;^or&@ae ][]E4E;ï
05jãįa¢+AË Øãi@	U}&[¦@}&@∙ or@æçîor&@æ4j[]È2frï	&@3)[[\Áiæt{[}ÁËÄÔæt†ã{[}}ãæ &[æiœzetÁÔÙW	0927ÔP09€G€ÍÙ	V@^æ^}^å	Þ[}^	Ë	Ë	HJ FGHGG	WSQOP	₩]¦[&^••^å	Q5,at,az+Á2206r@4E Ùza{{[}ãac+ÁE U}&[¦@]&@e Áor@ee,^or&@ee ][]E4Erï
05;ã;a‡•ÁË Øãi@	U}&[¦@}&@∙ or@eçîor&@ee∳[]ÈÉFÏ	&@3)[[\Áiæt{[}ÁİÄÖæt†ä[¦}ãæ &[æiætætÁÖÙW	0820ÔP08€G€ÍÙ	V@^æe^}^å	Þ[}^	Ë	Ë	HJFGHH	ŠŒWÕPŠO⊉ ÜŒ₽ÕÒ	₩]¦[&^••^å	C5,5(a); az+Á52026 @AE Úzek([}ãa ex+Á52 U}&([); U}&([); U}&@`, &@`, Áor@ee; ^or&@ee ][]E547ï
05;ã;a†•ÁË Q;∙^&c•	Ó[{à`•Á&æ‡ãã][•`•	[à•&`¦^Æ`{à ^Æ^^	OOP, Ä⊥ GIHJ€	Þ[}^	Þ[}^	Ë	Ë	HJFGHFF	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	Tæ}]^å	O5;ā;憕Á720,•^&o•Á720,¶;āaæ^A73 Ó[{à`•Á&æ†ā*ā][•`•
O5jāja‡•AË Q}∙^&o•	Ó[{à`•Á[&&&ãã^}cæ‡ã	,^•σ^¦}∕åi`{à ^∕ài^∧	OOP?ŸTGIGÍ€	Þ[}^	Ôæ) åãåæe^ Ò}åæ) *^¦^å	Ë	Ë	HJFGHGF	ÔUY TUWÞVOEDÞ	Tæ]]^åÁæ))å W}]¦[&∿∙∙^å	O5;ã;憕Á7Á0,∙^&o•Á7Á05;ãaæ°Á7 Ó[{à`•Á;&&ãa^}cæ†ã
05jãja‡+ÁË Tæ{{æ∳	O⊞à[¦ãįř•Áj[{[	Ù[}[{ æáds^^áş[ ^	OET OEØØGH€H€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <b>-F</b> H	ÓUUÞXŒŠŠÒ	Tæ∯]^åÁæ)å W}]¦[&^∙∙^å	O5,ā,憕ÁËAT,æ;{憕ÁË Ô;88∧@ãæ&ÁËAOEtà[¦ā,ĭ• ][{[
05jãjao∳ÁË Taqí{ao∳	OEEà[¦āįĭ•Áj[{[	Ù[}[{æki^^k;[ ^	OET OEØØGH€H€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <b>HH</b>	ŠŒWÕ₽ŠŒ¢ ÜŒ₽ÕÒ	Tæ]]^åÁæ))å W}]¦[&^∙∙^å	O5;ā[憕ÁËATæ;{憕ÁË Ô¦ã&∧ããæ≉ÁËADEà[¦ã[ĭ• ][{[
05jãja‡•AË Ta€{{a‡•	Œlà[¦āį ˘∙Áj[{[	Ù[}[{æki/^kş[ ^	OET OEØØGH€H€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>hf</del>	ÚU VVÒÜ XŒŠŠÒŸ	₩]¦[&^••^å	O5;ā(憕ÁÉATæ({憕ÁÉ Ô¦ã&∧ããæ≉ÁÉAOEà[¦ã(ੱ• ][{[
05jãjao∳ÁË Taqí{ao∳	Ò¦^c@ã[}Åå[¦∙æč{	Þ[¦c@Á04[^¦a8æ)-Áj[¦&ĭ]aj^	OET OEØR€F€F€	Þ[}^	Þ[}^	Ë	Ë	hjfg <b>f</b> h	ÓUUÞXŒŠŠÒ	Tæ]]^åÁæ))å W}]¦[&^∙∙^å	O5;ā[憕ÂË́¥īæ{{憕ÂË Ò¦^c@ã[}œãæ*ÀË́O¦^c@ã[} å[¦•æč{
05jãjao∳ÁË Tæ{{a∳•	Ò¦^o@ã[}Åå[¦∙æč{	Þ[¦c@Á04[^¦a8æ)-Áj[¦&ĭ]aj^	OET OZØR€F€F€	Þ[}^	Þ[}^	Ë	Ë	HJFG <b>HF</b> G	ÒŠŠÒÖÕÒ ÚÒŒS	Tæ∯]^å	O5;ā[æ‡+ÂÉATæ{{æ‡+ÂË Ò¦^c@ã[}œãæ*ÀËÖ¦^c@ã[} å[¦•æcč{
05jãja‡•ÁË Taqí{a‡•	Ò¦^c@ã[}Á‰[¦∙æč{	Þ[¦c@Á04;^¦ä&æ)Áj[¦&ĭ]āj^	Œ ŒR€F€F€	Þ[}^	Þ[}^	Ë	Ë	HJFGHGG	WSQEP	Tæ∯]^åÁæ)å W}]¦[&^∙∙^å	O5;ā;a‡+ÁEATæ;{a‡+ÁE Ò¦^c@ā[}@ãaæ*ÁEXÕ¦^c@ã[} å[¦∙æcč{

05jãja‡•ÁË Tæ{{æ∳	Ò¦^c@ã[}Áå[¦∙æč{	Þ[¦c@ÁQĘ^¦a&aa)Á,[¦&`]ā,^	OET OØØR€F€F€	Þ[}^	Þ[}^	Ë	Ë	HJFG <b>HF</b> F	Ú₩ÜÖŸÙ ÕŒÜÖÒÞÙ	Tæ]]^å	05;ã; æ‡+ ÁEAT æ; {æ‡+ ÁE Ò¦^c@ã[}œãæ* ÁEÖ¦^c@ã[} å[¦•æč; {
05jājæ∳AË Tæş{a∳•	Ò`{[]•Áj^¦[cã &æ‡ã[¦}a&`∙	,^•⊄\}Á,æcã-Áaæ	0ET 0EÔÖ€G€FF	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>h</del> g	ÜÒÖY UUÖ XŒŠŠÒŸ	₩]¦[&^••^å	C5;ā;a‡•ÁÄT æ;{a‡•ÁË T[][••āaæAÄAČ{ []• ]^¦[cā·Á&a‡ā{;}a&`•
05jãjæ∳AË Tæş{{æ∳	Ú^\a)āedý.^}}a)cã	Øða @{}	Œ ŒØ€F€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>h</del> g	ÜÒÖY UUÖ XŒŠŠÒŸ	Tæ]]^å	05;ā;憕ÁŘTæ;{憕ÁŘ T`∙c∿¦ãaæ×ÁŘÚ/∧\æ;ãæ ]^}}æ;cã
05jãj憕ÁË Tæt{憕	Ú^\a)āadý.^}}a)cã	Øða @{}	Œ ŒØ€F€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>HF</del>	ÚU V VÒÜ XŒŠŠÒŸ	₩]¦[&^••^å	C5;ā;憕ÁŘTæ;{憕ÁŘ T`∙c∿ ãaæ*ÁŘÚ/\æ;ãæ ]^}}æ;cã
05jãj憕AË Tæ{{憕	Ú^\a)āadý.^}}a)cã	Øða @{}	Œ ŒØ€F€G€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>IFF</del>	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	Tæ}]^å	C5;ā;憕ÁŘTæ;{憕ÁŘ T`∙c∿¦ãaæ*ÁŘÚ/\æ;ãæ ]^}}æ;cã
05jãῆ•ÁË Tæ{{憕	Væ¢ãå^æ¢kæ¢`∙	CEĘ^¦a8æa),Áaæå*^¦	OF ORØ€I€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFGHHG	ÜÒÖY UUÖ XŒŠŠÒŸ	₩}]¦[&^••^å	O5;ã;a‡•ÁЁ́ATa;{a‡•ÁË T`•c∿ ããae*ÁËÁ/aa¢ãã^^aaÁaa¢`•
05;ã;憕ÁË Tæ{{憕	CB;d[:[ĭ●Ájæa)áãŭě●	] æljái Áiæc	Œ ŒÔF€€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>h</del> g	ÜÒÖY UUÖ XŒŠŠÒŸ	₩]¦[&^••^å	O5;ā[a‡•/ĀŘTæ;{a‡•/ĀĒ X^•]^¦dājā}āāæ%/ĀŘO5;d[:[č• ]æ¦āāč•
05jãj憕AË Tæ{{憕	CB;d[:[ĭ•Ájæ¢)ããĭ•	] අම්බ්රේම අප	Œ ŒÔF€€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>HF</del>	ÚU V VÒÜ XŒŠŠÒŸ	₩]¦[&^••^å	O5;ā[a‡•ÁŘÍ æ;{a‡•ÁŘ X^•]^¦dāj}ãa:æ*ÁŘÍO5;d[:[č• ]æ¦ãač•
05;ã;憕ÁË Tæ{{憕	CB;d[:[ĭ●Ájæa¢lããĭ●	] අද්ධීවේ. එයි අප	Œ ŒÔF€€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	hjfg <del>i</del> gf	ÔUY TUWÞVOEDÞ	Tæ]]^å	05;ā[a‡•/ĀḖ aā;{a‡•/ĀĒ X^•]^¦dājā]}āāae%/ĀḖ05;d[:[ੱ• ]aa¦āā`•
05jãįa‡•AË Taqi{a‡•	CB;d[:[ĭ●Ájæ¢)ããĭ●	] අම්බ්රේම අප	Œ ŒÔF€€F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>IFF</del>	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	₩]¦[&^••^å	O5;ā[a‡•ÁŘÍ æ;{a‡•ÁŘ X^•]^¦dāj}ãa:æ*ÁŘÍO5;d[:[č• ]æ¦ãač•
05jãj憕AË Tæ{{憕	Ô[¦^}[¦@3)ັ∙ ⊄ູ}•^}åãã	V[,}•^}å©Áàãˤæh^åÁàæe	08T 08ÔÔ€Ì €F€	Þ[}^	Þ[}^	ÙÙÔ	Ë	HJFG <del>IF</del> F	ÚWÜÖŸÙ ÕŒÜÖÒÞÙ	Tæ}]^å	O5jāja¢+ ÁŘÍ æ;{a++ÁË X^•]^¦dāj}ãaæ≯ÁË Ô[¦^}[¦@3j`+Á;}+^}åãã
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# **Re: Biological Resource Assessment Addendum Rare Plant Assessment and Botanical Survey**

Prepared for:

City of Ukiah Department of Community Development 300 Seminary Avenue Ukiah, CA 95482

APN: 001-040-83, 157-070-01, 157-070-02, 003-190-01

Prepared by:

Becca Cosmero Environmental Technician Jacobszoon & Associates, Inc. 117 Cara Ave Ukiah, CA 95482 (209) 482-6311 becca@jaforestry.com

07/9/2021

#### **Survey Objectives:**

Rare plant assessments and botanical surveys are conducted to maximize the likelihood of locating rare, threatened, or endangered plants and plant communities that may be present within a Study Area. Survey findings are useful in assessing the potential for significant adverse impacts on botanical resources and critical in mitigating those impacts. If special-status plant species are located during a survey, mitigation measures will be recommended to avoid or minimized damage to the species.

The Rare Plant Assessment and Botanical Survey for the City of Ukiah constitutes a seasonally appropriate floristic survey and was conducted during appropriate blooming periods for all potentially occurring rare plant species within a nine-quad scoping range of the project area. Every plant taxon encountered during the survey was identified to the taxonomic level necessary to determine rarity and listing status. Habitat requirements for special-status species and their potential to occur within the Study Area are discussed in Appendix A: Table of Potential for Special-Status Plants and Wildlife within the Study Area, of the Biological Resource Assessment.

The survey employs the methods and guidance outlined in the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018). The Study Area referred to in this report includes areas shown in the Biological Resource Assessment Figure 2: Biological Assessment Map, Aerial.

#### **Botanical Survey Results:**

Field surveys within the Study Area were conducted on 03/30/2021 by Miles Hartnett, Staff Biologist/Botanist and Becca Cosmero, Environmental Technician. Jacobszoon and Associates Environmental Technician, Becca Cosmero conducted field surveys on 5/17/2021 and 7/9/2021. Survey protocol was based on *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018). An intuitively controlled, seasonally appropriate, floristic survey was performed, which was moderate in coverage density (60-80%) in the potential rare plant habitat areas.

A complete list of all plant species observed within the Study Area during the Botanical Survey is included in Table 1: List of Observed Taxa within the Study Area. Plants listed in Table 1 were identified using The Jepson Manual: Vascular Plants of California 2nd Edition (Baldwin et al. 2012) to the taxonomic level necessary to determine rarity. The names provided in the Rare Plant Assessment and Botanical Survey follow The Jepson Flora Project.



The Rare Plant Assessment and Botanical Survey identified a total of 96 plant taxa within the Study Area including both native and introduced species. (Table 1: List of Observed Taxa). Of the 96 species observed, none were special-status, rare, threatened, or endangered species.

Species name	Common name	
Acer macrophyllum	bigleaf maple	
Acmispon brachycarpus	Short-podded lotus	
Adenostoma fasciculatum	chamise	
Adiantum jordanii	maiden hair fern	
Aesculus californica	California buckeye	
Arbutus menziesii	Pacific madrone	
Arctostaphylos canescens ssp. canescens	hoary manzanita	
Arctostaphylos glandulosa	Eastwood manzanita	
Arctostaphylos glandulosa ssp. glandulosa	Eastwood manzanita	
Arctostaphylos glauca	Bigberry manzanita	
Arctostaphylos manzanita ssp. manzanita	common manzanita	
Arctostaphylos patula	greenleaf manzanita	
Baccharis pilularis	coyote bush	
Calochortus tolmiei	pussy ears	
Cardamine californica	milk maids	
Cardamine hirsuta	hairy bittercress	
Cardamine oligosperma	Idaho bittercress	
Ceanothus cuneatus var. cuneatus	buckbrush	
Ceanothus foliosus var. foliosus	wavyleaf ceanothus	
Centaurea melitensis	Maltese star-thistle	
Cerastium glomeratum	mouseear chickweed	
Cercocarpus betuloides	mountain mahogany	
Chlorogalum pomeridianum	Wavy leaf soaproot	
Claytonia perfoliata	miner's lettuce	
Collomia heterophylla	variable leaf collomia	
Crocanthemum scoparium	peak rushrose	
Cynoglossum grande	Pacific houndstongue	
Cynosurus echinatus	bristly dogtail	
Delphinium nudicaule	red larkspur	
Dichelostemma capitatum	blue dicks	
Dichelostemma ida-maia	firecracker flower	
Diplacus aurantiacus	sticky monkeyflower	
Dittrichia graveolens	stinkwort	

Table 1: List of Observed Taxa within the Study Area



Species name	Common name	
Dryopteris arguta	California wood fern	
Elymus glaucus	blue wild rye	
Eriophyllum lanatum	common woolly sunflower	
Erythronium californicum	California fawn lily	
Euphorbia oblongata	eggleaf spurge	
Festuca arundinacea	tall fescue	
Festuca microstachys	small fescue	
Festuca perennis	Italian rye	
Festuca temulenta	darnel	
Galium aparine	cleavers	
Galium bolanderi	Bolander's bedstraw	
Gastridium phleoides	nit grass	
Genista monspessulana	french broom	
Geranium molle	woodland geranium	
Hesperolinon	dwarf-flax	
Heteromeles arbutifolia	toyon	
Hieracium spp	hawkweed	
Holodiscus discolor	oceanspray	
Hordeum brachyantherum	common barley	
Hypericum concinnum	goldwire	
Iris macrosiphon	ground iris	
Lithophragma affine	common woodland star	
Lonicera hispidula	pink honeysuckle	
Luzula comosa	hairy wood rush	
Lysimachia latifolia	Pacific star flower	
Madia gracilis	grassy tarweed	
Marrubium vulgare	white horehound	
Micranthes californica	Greene's saxifrage	
Micropus californicus	Q tips	
Nemophila heterophylla	small baby blue eyes	
Notholithocarpus densiflorus	tanoak	
Pedicularis densiflora	warrior's plume	
Pentagramma triangularis	goldenback fern	
Phacelia imbricata	mountain phacelia	
Pinus attenuata	knobcone pine	
Plagiobothrys tenellus	slender popcorn flower	
Polygala californica	California milkwort	
Polypodium glycyrrhiza	licorice fern	
Polystichum munitum	western sword fern	
Primula hendersonii	Henderson's shooting star	
Pseudotsuga menziesii	Douglas-fir	



Species name	Common name	
Pteridium aquilinum var. pubescens	bracken fern	
Quercus berberidifolia	scrub oak	
Quercus garryana	Oregon white oak	
Quercus kelloggii	California black oak	
Quercus parvula var. shrevei	Shreve oak	
Quercus wislizeni var. wislizeni	interior live oak	
Ranunculus occidentalis	western buttercup	
Rosa gymnocarpa	wood rose	
Sanicula crassicaulis	Pacific sanicle	
Scutellaria tuberosa	blue skullcap	
Sequoia sempervirens	redwood	
Sidalcea diploscypha	fringed checkerbloom	
Symphoricarpos albus	snowberry	
Tauschia spp.	umbrellawort	
Torreya californica	California nutmeg	
Toxicodendron diversilobum	poison oak	
Trifolium hirtum	rose clover	
Trifolium microcephalum	small headed clover	
Umbellularia californica	bay laurel	
Vicia americana	American vetch	
Whipplea modesta	modesty	
Wyethia glabra	smooth mule ears	

No special status plant species were observed during the Rare Plant Assessment and Botanical Survey.

## **Recommendations:**

No special status plant species were observed during the Rare Plant Assessment and Botanical Survey.

There are no recommendations for special status plant species at this time.



### **Report Author:**

### **Becca Cosmero**

Becca Cosmero is an environmental technician at Jacobszoon and Associates Inc. with three years of professional experience in fisheries management, biological monitoring, and ecological restoration. She received a Bachelor's of Science in Biology with an emphasis in Ecology and Evolutionary Studies from the University of California, Merced in 2018. Prior to working with Jacobszoon and Associates Inc., Ms. Cosmero has worked with FISHBIO to monitor and study predator populations threatening salmonids within the Stanislaus and Tuolumne Rivers, Sequoia Ecological Consulting as an on-call biologist conducting compliance monitoring, and Grassroots Ecology as an AmeriCorps intern. She received a Rare Plant and Vegetation Sampling certificate from the California Native Plant Society in March 2019 and holds a Rare Plant Voucher Collecting Permit through CDFW (No. 2081 a-21-076-V).

Sincerely,

Becca Cosmero (she/her)

Environmental Technician Jacobszoon & Associates, Inc.



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Notices were sent to the following Tribes on December 15, 2020:

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On January 14, 2021, notices were sent to the following additional tribes per NAHC's recommendation:

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(a) In reviewing draft EIRs, persons and public agencies should focus on the sufficiency of the document in identifying and analyzing the possible impacts on the environment and ways in which the significant effects of the project might be avoided or mitigated. Comments are most helpful when they suggest additional specific alternatives or mitigation measures that would provide better ways to avoid or mitigate the significant environmental effects. At the same time, reviewers should be aware that the adequacy of an EIR is determined in terms of what is reasonably feasible, in light of factors such as the magnitude of the project at issue, the severity of its likely environmental impacts, and the geographic scope of the project. CEQA does not require a lead agency to conduct every test or perform all research, study, and experimentation recommended or demanded by commentors. When responding to comments, lead agencies need only respond to significant environmental issues and do not need to provide all information requested by reviewers, as long as a good faith effort at full disclosure is made in the EIRE

(b) In reviewing negative declarations, persons and public agencies should focus on the proposed finding that the project will not have a significant effect on the environment. If persons and public agencies believe that the project may have a significant effect, they should: (1) Identify the specific effect, (2) Explain why they believe the effect would occur, and (3) Explain why they believe the effect would be significant. (c) Reviewers should explain the basis for their comments, and should submit data or references offering facts, reasonable assumptions based on facts, or expert opinion supported by facts in support of the comments. Pursuant to Section 15064, an effect shall not be considered significant in the absence of substantial evidence  $\dot{E}\dot{A}$ 

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**BIO-1:** Special Status Plants Sensitive Trees. Full USFWS protocol level sensitive plant species surveys for Mendocino tarplant, congested headed hayfield tarplant, bristly leptosiphon, broad-lobed leptosiphon, redwood lily, green monardella, white-flowered rein orchid, Mayacamas popcornflower, beaked tracyina, showy Indian clover, and oval leaved viburnum within the blooming period (generally March-August) shall be conducted prior to any ground disturbing activities to verify the presence of special status plants and identify additional mitigation if needed, to ensure that the Project will not result in a significant impact. If trees are proposed for removal, preconstruction surveys shall be conducted by a qualified biologist to identify Oregon white oak forest and woodland, as well as California bay forest and woodland habitat; removal of sensitive habitat shall be conducted in accordance with California Department of Fish and Wildlife (CDFW) regulations.

**BIO-2**: **Red-belly newt** <u>Sensitive Amphibian Species</u>. A qualified biologist shall survey the area prior to any groundbreaking activities to determine the presence of Red-belly newt, <u>or other</u> <u>sensitive amphibian species</u>, and identify additional avoidance measures, if needed. <u>A qualified</u> <u>biologist shall be on-site for any dewatering event to address the potential for the presence of sensitive amphibian species such as foothill yellow-legged frog (Rana boylii).</u>

Ú<sup>∧</sup>¦ $\hat{AOOU}$ OŽ $\tilde{AO}^{*}$ a Å<sup>|</sup> $\tilde{a}$ ,  $\hat{AU}^{*}$ Aca  $\tilde{A}^{*}$   $\tilde{AF}^{\dagger}$   $\in$  HĚ ÇaEމ lead agency is required to recirculate a negative declaration when the document must be substantially revised after public notice of its availability has previously been given pursuant to Section 15072, but prior to its adoption. Notice of recirculation shall comply with Sections 15072 and 15073.

(b) A "substantial revision" of the negative declaration shall mean:

(1) A new, avoidable significant effect is identified and mitigation measures or project revisions must be added in order to reduce the effect to insignificance, or
(2) The lead agency determines that the proposed mitigation measures or project revisions will not reduce potential effects to less than significance and new measures or revisions

must be required.

(c) Recirculation is not required under the following circumstances:

(1) Mitigation measures are replaced with equal or more effective measures pursuant to Section 15074.1.

(2) New project revisions are added in response to written or verbal comments on the project's effects identified in the proposed negative declaration which are not new avoidable significant effects.

(3) Measures or conditions of project approval are added after circulation of the negative declaration which are not required by CEQA, which do not create new significant environmental effects and are not necessary to mitigate an avoidable significant effect.
(4) New information is added to the negative declaration which merely clarifies, amplifies, or makes insignificant modifications to the negative declaration."

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 Table 1, Comments Received on the Draft Initial Study and Mitigated Negative

 Declaration

FGÁ	Tæl*[ÁØlæ}∖Á	TæÎÁG€ÉÉÍG€GFÁ
FHÁ	₽^æ@\¦ÂÛ^**^ Á	TæÎÁG€ÊÉG€GFÁ
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FÏ Á	R[@;Áæ);åÁÖ^ ^}}^Á Ü[*^¦∙ÉĂ	TæÎ <b>ÁG€ÉÍG€GF</b> Á
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G€Á	₽^ ^}ÂĴã^{ [¦^Á	TæÎ <b>ÁG€ÊÍG€GF</b> Á

Q,-{; { aceā; } Á&; } cæā; ^ å Á, ãc@3; Ác@ Áà^|[, Á^•][} • ^ Á{; Á&; { { ^} o Á@ae Áà^^} Áā; & { }] [ ¦ ae ^ å Áā; d; Ác@ Á QÙT ÞÖÁ; ¦ Á&; az ã ã ac a â; } Á, ` ¦] [ • ^ • Ébee Áa]; ] a8 aca | ^ Édu`]] [ ¦ cā; \* Áā; -{ ¦ { aceā; } Éba; & | ` å ∄; \* Áscá; ] [ \* ¦ ae]; @38 ae Á { ad; Á/^ cc \! • Á \* ` à { ãc ^ å Áà ^ ÁT ^ } å [ & ã] [ ÁÔad; ÁCB ^ ÁU}; ã ÁCB ^ ÁOàd; aceā; ÁX ae | ^ ! \* ac à áb; à ÁW; ã eo é X ae | ^ ^ ÁZB ^ Á { ad; Á/^ cc \! • Á \* ` à { ãc ^ å Áà ^ ÁT ^ } å [ & ã] [ ÁÔad; ÁCB ^ ÁU}; ã ÁZB ^ ÁOàd; aceā; ÁX ae | ^ ! \* ac à áb; à ÁW; ã eo é X ae | ^ ^ ÁZB ^ Á { ad; Á/^ cc \! • Á \* ` à { ãc ^ å Aà ^ ÁT ^ } å [ & ã] [ ÁÔad; ÁZB ^ ÁU; ã ÁZB ^ ÁOàd; á AO ad } aceā; ÁX ae | ^ ! \* ac à áb; à ÁW; ae O á X ae | ^ ^ A CE co2! ¦ã; ÁQWX, 20EDÁÔ@3 - Á P ` c&@3; [ } ÉĂ ad; å Á Raes[ à • : [ [ } Á ad; å ÁO ad 0 = • [ & ãæe ^ e ÉÁQ; & ÉÁ 3; Á \- • ] [ } • ^ Ád; Á & [ { ^ } o Á ^ & ˆa ^ ã É&ea; Áà ^ Á; ´ ` à Á5; ÁU ^ ] [ } • ^ Át; ÁÔ[ { { ^ } o Á5 HLW; a Ybh5 ÉĂ

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- •Á Ôæ‡ã[;]ãæÁÜ^•ãå^}cãæ‡ÁÔ[å^ÊÁÙ^&cã]; ÁÜHHÏÁÇTæe^;¦ã懕Áæ); åÁÔ[}•d`&cã]; Á T^cq@;å•Á[; ÁÔ¢cº;¦ã]; ÁÝãå]ã^ÁÔ¢][•`;^DbÁ
- •Á Ôæ‡ã [ ¦ ] ãæÁÜ^^\^} &^åÁÙœ) 忦å•ÁÔ[ å^ÊÂÔ@e] c^\ÁFŒË ŒÁ ÇØã^ÁÜ^•ã; cãç^Á ٜ) 忦å•DLÁ
- •Á Ôæţã[ ¦ 3ãæ¢Ô[ å^Á; ÁÜ^\* jæzā] ÊŹvãt/ÁFI ÊŹÖã;ãã ã] À FĚ ÊŹÔ@e‡] «\ Á ÊÚ` à &@e‡] «\ Á ÁÁ (2) ` à &@e‡] «\ Á ÁÁ (2) ` à &@e‡] «\ Á ÁÁ (2) ` à &@e‡] «\ Á Á Á (2) ` à &@e‡] «\ Á Á (2) ` à &@e‡] «A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A Á (2) ` à & A A (2) ` à & A A (2) ` à & A A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` à & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A (2) ` & A
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- ]" V@Á][¦cāĮ}Á[-Ác@Á]¦[][•^åÁ]æ&A|•Á,ãc@3,Ác@Á&`;!^},dù]@¦^Á[-ÁQ,⊣`^}&^ÁQ,á ][¦cāĮ}Á[-ÁÚæ&A|•Â,Áœ)åÁF€EÁ([cæ¢ā]\*Áœ]]¦[¢ã[æeA|^ÁH HÁæ&¦^•ÊÁ,^-A;!/^åÁ([Áæ-Ác@Á %Q+ ãå^ÁÔ[}+^¦çæaā]}ÁÚæ&A|•+DÁ,ã|Áà^Á]¦^+^¦ç^åÁæeA[]^}Á+]æ&Aœ)åÁ§ Á[;[][•^åÁ d[Áà^Á]¦^:[}^åÁ%LJØ+ÁÇÚ`à]æAÆæ&äjãæ?•DÁ,@&&@A]^&ããæde|^Áãa^}cãã?•Á,`à]æA{,¦Á`æ=ãË ]`à]æ&A ••EÁ§,&{`åā]\*ÉAà`oÁ,[oÁā[ãc\åA(EÁ),æč;¦æAA^•[`¦&^Á&[}•^¦çæaā]}Á&AæAæ Áœ)åÁ ]æ\•Áæ}åÁ/~&i^æaā]}È

V@:ÁT^}å[&āj[ÁÔ[`}ĉÁŠ[&æ¢ÁOE^}&`Á2[¦{ææ‡i}ÁÔ[{{ã•4i}}ÁÇŠOEZÔ[DÉA,@3&@ÁãAc@A Ü^•][}•āa|^ÁOE^}&`Á`}å^¦ÁÔÒÛOE5key åÁ, ajlÁ`|cā[æe^\|^Á&[}•ãa^¦Ác@ÁÔãĉ q Ákey}^¢ææ‡i}Ákey åÁ ]¦^:[}āj\*Áæ‡]|38ææ‡i}ÊÉ\*\*`à{ãcc^åÁ&[{{^}@:ÁQ}^^ÁÔ[{{ ^}cAS^cc^\¦ÁFJDÉ\*cææ‡i\*Ác@æeÁc@A %ul`orãa^ÁÔ[}•^¦çææ‡i}ÁÚæs&\|•+Á{ `•oÁà^Áaj&|`å^åÁājÁc@A]!^:[}āj\*Áæ‡]|38ææ‡i}ÉA]^¦Á  $\tilde{O}[c^{+}] \{ ^{A} d\hat{O}[a^{A}\hat{U}^{A}d\hat{I} + \hat{H}]$   $\hat{I} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat{U} \oplus \hat$ 

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V@ ÁÚ¦[b/&oÁ, āļÁæ&ː ă^Áæ) åÁ] ¦^•^¦ç^Á[]^} Á•]æ&^Á-{¦¦Á•^ç^¦æ‡Á¦^æe[}•ÊAāj&|`åāj\*Á •[`¦&^, æe^¦Áj¦^•^¦çææāj} ÊÁā^Á{ ãcā ææāj} ÊÆ\*&^} &&A^{-[`¦&^+ Ê&+]} åAàāj[[\* 38æ‡Áj¦^•^¦çææāj} ĚÁ V@ārÁæ]] ¦[æ&@Á, āļÁæ‡|[, Ác@~ÁÔãc Á{ Á] ¦^•^\ç^Áæ) åÁj ¦[c^&oAc@ Á&[||^&cāç^AÔ[}•^¦çææāj} Á Úæ}&^|•ÁÇÎ I€Áæ&¦^•Á{ cæ‡DÊÅ, @ā^Áj^¦{ ãcāj\*Ájā ãc^ åʽ[¦å^¦|^ÊÆ&]`•c`¦^åA[, Ëå^}•ãc Á+āj\*|^Ë ~æ{ āîÁ@\_`•āj\*Åå^ç^|[] { ^} cÁ ãc@ajÁs@ ÁÖ^ç^|[] { ^} cÁUæ&{^|•ÁÇI IÁæ&¦^•DÈ

### 7CAA9BH'@9HH9F'%'A5F;C':F5B?'

7 ca a Ybh V@ Á&[{ { ^} c^¦ Á^¢] ¦^••^• Á&[ } &^'; • Á^\* æ¦åā] \* Á, ājå~āl^ ĚÁ

Á **FYgdcbgY.**ÂÜ^^ÁTæc∿¦ÄÜ^•][}•^Á∓È

#### 7 C A A 9 BH'@9 HH9 F '& '7 F=GD=B'6 "< C @@8G< 958 '

7 ca a Ybh `V@ Á&[{ { ^} c^¦Á^¢] ¦^●●^● Á&[} &^¦}● Á^\* æ¦åð] \* Á, ð|åa⊸ã^ĚÁ

Á FYgdcbgY.ÂĴ^^ÁTærc^¦ÄĴ^•][}•^ÁFÈ

#### 7 CAA9BH @9 HH9 F". I @ @5 6 FIBB69 F; F5 B8

7 ca a Ybh `V@ Á&[{ { ^} c^¦Á\*¢] ¦^••^• Á&[} &^¦}•Á^\* æ¦åðj \* Á, ðjåå~ði^ÈÁ

## Á FYgdcbgY.ÂĴ^^ÁTæc^¦ÁĴ^•][}•^Á∓È

7 ca a Ybh `V@Á&[{ { ^} ♂¦Á\*`\*\*^• @ Ác@eeáA@A]; ¦[b%&óÀa^ÁA^çã^åÁ{[Á];}|^Áæ‡|[, Á;}^Áå, ^||ð, \*Á], ^¦Á ] 趓&^|Áæ) åÁ/\••ÁÖ^ç^|[] { ^} óÁJæ&\'•ÈÁ

FYgdcbgY.Á\\}å^¦Á\@ ÁÔ[`} ĉ q ÁÕ^}^¦æ‡ÁÚ|æ) Áæ) åÁZ[} āj \* ÁU¦åājæ) & Éò@ Á\}œā^ĉ Á[ Á@ Á Ĩ €Ĩ Áæ&¦^•Á@æ Á@ Á][c^}œæ‡Áţ[Áa^Áå^ç^|[]^åÁ ão@Á`] Áţ[Á;}^Áå, ^||āj \* Á,^¦Á €Áæ&¦^•ÉA;[¦ÁæÁ q[Ͼ‡Á[-ÁFÏÁ]¦āįæ ^Áå, ^||āj \* •ÉAQ, Áæååãāų] ĚAj Áæ&&{[¦åæ) & A, ão@Á\* œæ^Á|æ; ÉÆe) ÁOE&&^••[¦^Á Ö, ^||āj \* Á\\}ãxKOEÖUVÁ;æ Áå^Á&[}•d`&c^åÁæ Á; Áā @A, } Á\*æ&@4;æ&\[ÉÁ^•`|cāj \* ÁbjÁs@ Á,[c^};cãæ‡Á -{¦Á]A{[Á+IÁţ;œ‡Á`}ão Áţ[Áa^Áå^ç^|[]^åÈAÓ`Ëā @Aå^ç^|[]{ ^}∞Åa[^•A; Ča]; åã &\cāj}æ Á^çã, ÉÁ;['Aå[^•ÁæÁb;&]`å^Áb;Ëa^]c@A); cãæ‡Á <

Ù ٘ { { ﷺ ﷺ ﷺ ﷺ ﴾ ﷺ ﴾ ۿ كَمَاتِ الله & كَمَاتِ الله & كَمَاتِ الله & كَمَاتِ الله & كَمَاتِ الله & كَمَاتِ ال & ێ ¦ \ } dˆ Áœq [[ ֻ ^ å ĚÁW} å ^ ¦ Á^ ¢ã cā) \* Á&[ } å ãaā] ﴾ Ě ڪُو ۞ \ ^ Áã Á] [ c^ } cãæq Á{ ¦ Á´ ] Á{ Á+ l å^ ç^ [[ ] ^ å Áaˆ Áā @ ĚÁQÁ@ ÁU¦ [ كَانَ & كَمَةَتَ أَحْطَ ] ¦ [ ç^ å Éá@ār Áj č à ^ ¦ Á [ č | å Áa^ Á^ å č & ^ å Áţ Áæá kæçā č č A [ -Á´ ] Áţ Á∓ I Á` } ão ĚÁ

### 7 CAA9BH @9 HH9 F (. 5 @@e9 81;;5 B Á

7 ca a Ybh `V@ Á&[{ { ^} c^¦ Á^¢] ¦^••^• Á[]][•ãāā]}Á4[Ás@ ÁÚ¦[b/8dĚÁ

FYgdcbgY. V@ārÁ&[{ { ^} cÁārÁ}[ c^åÁæ); åÁārÁā]; &[ a^åÁā); Ác@·Á] `à|a&Á',^&[ ¦åÁ[ ¦ÁÚ|æ); ]ā] \*Á Ô[{ { ã•ā[} Áæ); åÁÔãc ÁÔ[ `} &ā]Á&[ }•ãå^¦æaā]; È

7 ca a YbhÁ/@Á&[{ { ^} c^\Á¢] \^••^•Á&[} &^\; + Á^\* æåðj \* Áslæ-æÅ{;} ÁÜ^å, [[åÁOĘ^}`^ÈÁ

 $F Ygdc bgY. OE A \left[ c^{a} A \overline{q} A U^{a} & A \overline{q} A \overline{U}^{a} & A \overline{q} A \overline{U}^{a} & A \overline{q} A \overline{U}^{a} & A \overline{q} A \overline{U}^{a} & A \overline{q} A \overline{U}^{a} & A \overline{q} A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^{a} & A \overline{Q}^$ 

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7 ca a YbhÁ√@Á&[{ { ^} ♂¦Áæ+ • Ác@Á[ ||[, j] \* Á` ^ • ca] } • Á\^\* æbåj \* Ác@Á] ![][•^åÅ, æe\* ¦Áæ) \ ká %% @æeÁæd^Ác@Á] |æ] • Á[ ¦Ác@Á] ^ Á æe\* ¦Ár d[ ¦æt ^Ácæ) \ Áb ^ • ãb ^ • Áđ ^ Á] ![ c^&ca] } Á[ ^æe ` ¦^ • ÑÁY @ Á j à^Á/•][} • ãb |^Á[ ¦Á[ æ∄ cæ∄ j] \* Ác@ÁFÍ €ÊEEE Á\* æh[] } Ácæ) \ ÉÅ] ` { ] ÉÉæ) åÅ, ^ ||Ác@æeÁ\* ]][ ¦o Ác@Á, æe\* ¦Á æa) \ ÑÁQÁc@Á, æe\* ¦ÁB Ác@á Ácæ) \ Áb ^ å 88æe\* åÁ[ ¦Áđ ^ Åb ^] æb d( ^} cA` • ^ Á[ ¦Áæ+ [ Á[ ¦Á\* • ^ Á[ -Á] [ c^} cãæÁ å[ { ^ • cã&Á] ` |][ • ^ • Á[ ¦Ác@Áb` a]ba' č ÑÁY a]Ác@¦^Áb ^ Á@ å \æ) o Á[ } Ác@Á&ãĉ Á, æe\* ¦Á[ æ∄ Á\*¢c\*} å] \* Á`] Á ↓[ { ÁÜ^å, [[ åÁCē\_}` ~ ÑhÁ

FYgdcbgY. `V@Á^, Á, æc^¦Áq[¦æt^Áæa) \•Á, āļļÁa^Á +^åÁk[Á^¦ç^Á&@ÁÖ^ç^|[] { ^} dÁUæt&^|•ÉĂ QÁæaååãāā] }ÉA@^Á, āļļÁa^Á +^åÁ{[¦Áā^Á]; [d%aā] }ÉÁ/@Áæa) \•Á, āļļÁa^Á(, }^åÁæa) åÁ{; æði æði ^åÁ à^Á@ÁPUOEĂÚ^¦Á@ÁÔætã[¦} ãædÁØā^ÁÔ[å^É&eA][!cā] }Á; Á@A, æc^¦ÁÇætā\*-Áaæe ^åÁ; }Áā^Áæa) åÁ }`{ à^¦Á; Á@{ { ^•DÁ, āļļÁa^Á^``ā^åÁt[Áa^Áset][dc^åÁt[¦Áā^Á; [d^&cā]; Á^¦çã&^+Áa; àA&ea) }[dá^Á `\*^åÁt[¦Á^\*aã^} cāetA^A@å]æa) or Ásc^Áset [Á^``ā^åÁt[Áa^Ás]\* cæt|^åÁ, ãc@Ác@Á^\*aã^} cãetÁ å^ç^|[] { ^} dĚÁ

7 ca a Ybh ÁV@ Á&[{ { ^} c'¦Á• cæc\*• Á%a^ąłÁÖæçã cězá4¦^•][}•^• Ád[ÁY PØÙÔÁ``^• cāţ}• Ád[ÁT ¦ÉÁ Ùæ) \* ãæ&[{ [Á^\* ælåā] \* Ác@ ÁP` ||ÁÚ¦[]^¦cā\*• ÁŠāţ ãc\*å ÁÖ^ç^|[]{ ^} cÁŒE ¦^^{ ^} 6454 Å\*å ÅæfA` ^• cāţ} Á [} Á æc\*¦Á^•[`¦&^• ÉAT ¦ÉÖæçã Á\* cæc\*å É%ão c@á Áj ¦[b\* & cÁj ¦[çãå^• Á\*[`¦&^, æc\*¦Áj ¦[c\* & cāţ} Å Áæ) å Áj áļ à^} ^-ãtÁc@ Á\*} cā^ÁtWi ãæ@ÁXæ‡|^^ Áà^Áj ¦[c\* & cāj \* Ác@ Á\*[`'\&^, æc\*¦Áæ) å Á\*}•`'¦āj \* Ác@æt/ãtÁ\* æ&@• Áãe Á { æctā]`{ Á[c\*} cãæ†ÉAF[, Á&[^• ÁT ¦ÉÖæçã Á&^-āj ^Á%a[`'\&^, æc\*¦Á];[c\* & cāt} } Ñ+Á

FYgdcbgYkÁ088; ǎã ãã [}Á[, Á@ æå, æ^\¦Á];[]^\'cð + Ág, Á@ Á7 ^• c^\'}ÁP ā|•Á[, Ác@ ÁN, ãæ@ÁXæ|/^ Á ] ¦[çã ^• Á•[` ¦&^Á, æ\*\'ÁÇ@ æå, æ\*\'DÁ] ¦[c\*&cā]; Áà^&æč • ^ Á• ^&` ¦ā] \* Ác@ • ^ Á] ¦[]^\'cð • Á, ā|Á ] ¦[çã ^ Á, ¦^• ^\;çæaā]; Á[, Á@ æå, æ\*\'Á, ¦[]^\'cð • Á9, Ás@ Á7 ^• c'\;}ÁP ā]• Ás@æ4, ā| Á@ |] Á; •` ¦^Ás@æ4 }æč¦æ¢Á`}[~~Áæ}åÁ'¦[`}å, æc'¦Á^&@ed\*^Á;æcc'¦•Á,āļlÁ&[}cāj`^Á\$jÁ,^¦]^čãĉÈÁKÓ^}^āre Á,āļlÁ āj&|`å^Á;¦^•^¦çāj\*ÁœÁ&`¦!^}œÁ@å![|[\*^Á;~ÁœÁ′^•c'¦}ÁPā]|•Á,@a&@éde^Áæ4;ætb;¦Ås¦ãç^¦Á[!Á c@Á^&@ed\*āj\*Á;~ÁN\ãæœÁ&æ‡|^^q Ásĕ`ã^¦ÈÁÚ!/^•^¦çāj\*Á@•^Á;![]^!cā\•Á,āļlÁ}•`¦^Á@exéA@!^Á ãrÁj[Áæåç^!•^Á&@ed)\*^Át[Ác@•^Áāt][¦æa}c4!^•[`¦&^•Áæ}åÁātÁ&[}•ãc'}cÅ;ã©Ác@Át[[æ‡Át]-Á •^&cāt]}ÁTÍÁ;-Ás@ÁUcæc^Át-ÁÖædaāt]}ãæatÁGEGEÁYæc'¦ÁÜ^•ājāt}&^ÁÚ[¦cf[jātÁstÁc@exÁsÁ;ā]IÁstol[c\*&cÁ ;æc'¦Á`ædátČástà;åÁ\*]]]^+EÁÁÁ

7 ca a Ybh Q Áæååãā; } Át Áv¢] ¦^••ā; \* Áš[ } &^¦}•Á^\*æåā; \* Á, ātå-āt^Áeð; å Ác@ Ár@æå^åÁč^|Áa¦^æè Ékc@ Á &[ { { ^} c^¦Áæ`\•ÁāxÁc@ Át^•ãå^} cãædÁå^ç^|[] { ^} c4[ -Ác@ Ál | Áræe c^¦} { [ •cAæ&¦^•Á&æð; Åà^Áæð; ^} Á; č4[ -Á c@ ÁÖ^ç^|[] { ^} c4CE\*¦^^{ ^} dĚQ Áæååãaā; } Ékc@ Á&[ { { ^} c^!Áæ`\•ÁāAc@ Á[ , ^¦Á'|^çææā; } Áj ¦[] ^¦cã•A , ^•c4[ -Ác@ Ár@æå^åÁč^|Áa¦^æ; Ác@æáA^{ æð; Áð; ÁT ¦ĚAP`||qrÁj[••^••ā; } Á;ā‡|Áa^Á&[ }•ãa^¦^åÁ[ ¦Áč č ¦^Á à šáå[ čdĚ

FYgdcbgY.`Ù^^ÁT æ ơ\¦ÁÜ^•][}•^ÁFÁæ)åÁÔ[{ { ^} ^ÅŠ^œ^\¦ÁJÁ^\*æåå勇\*Á, āååā^Áæ)åÁœA • @záå^åÁč ^|Áa¦^æ)ÈÁ

OE Á} [ c^åÁð, Ác@ ÁÚ¦ [ b/8cÁÖ^•& å ĝi cā] } Éźc@ Á[ } | ^ Á] [ ¦cā] } Á[ ~Ác@ Á] ¦ [ b/8cÁcœæzÁð, 8|č å^•Ác@ Á ] [ c^} cãæ‡Á[ ¦Áå^ç^|[ ] { ^} cÁæč^Ác@ Á | Áræc'| } { [•cÁæ&¦^•Á[ 8ææråÅåã^^&d^ Áæåbæ&^} cÁ[ Ác@ Á &č ¦ / ^ dÔãĉ Áã] ã= ÉŽU^^Á^á-9 ] [ }•^Áť ÁÔ[ { { ^} cŠ^cc^\ArÁť [ !Á[ [ /^Á§ -{ | { æðj ð] \* Áæ&¦^æ\* Å ] å åã &¦^cā] } æ^Á!^çã , Á] ¦ [ &^••Á-{ ¦Á~čč !^Áå^ç^|[ ] { ^} dĚÁV@ Á'^{ æðj ð] \* Áæ&¦^æ\* ^Á, ãĮÁà^Á ] !^•^!ç^å Áæ Á] ^} Á] æ&^È

#### 7 C A A 9 B H'@9 HH9 F '\*. '7 < F = G'K 5 HH'

7 ca a Ybh `V@ Á&[{ { ^} c^¦ Áœe \• ÁãÁc@ Áœ)}^¢ææā[} Á ^ ``ā^• Áœé cæ¢Ë @ed;ā] \* Áœt ¦^^{ ^} á @éc@ Á Ô[`}c`Á[ ~AT ^} å[&ā] [Éàe) å ÁsiÁ[Éá] @eceÁescaī[} • Á@ecç^Áa^^} Áseà ^} Ási Ás@ ÁÔãc Át[Á ^&` ¦^Áe) Ást ¦^^{ ^} dÉá

 $FYgdcbgY. CEÁczet = @eetaj * Ázet | ^^{ } oA, aj | Áà^Á|^~ af a^a Azet Azet ] zetoA[ -Ác@ Azet ] ^ czetaj } Azet | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^A at | ^$ 

7 ca a YbhÁ/@Á&[{ { ^} c'¦Áæ\•ÁãÁc@Á] æ&^|•Á] ¦[][•^åÁ{[¦Áå^ç^|[]{ ^} cÁ[ Áà^Á] ¦^:[}^åÁæ Á Ù∄ \* |^ËZæŧ ẩ ÁÜ^•ãå^} cãæŧËPã||•ãå^ÁUç^¦|æ ÁÖã dã&cÁÇÜFËPDÁ@æç^Áà^^} Á ã ^åÁ&[} •ã c'} d^ Á ã @ác@ Á Pã||•ãå^ÁÖ^ç^|[]{ ^} cÁÙcæ) åæå •ÉÆæ) åÁãÁ} [cÉAč ¦c@¦Á&[{ { ^} c•Ác@ Á] æ&^|•Á•@2č |åÁà^Á\*ã ^åÁ§ Á æ&&[ ¦åæ) &^Á ã @ác@ ÁPã||•ãå^ÁÖ^ç^|[]{ ^} cÁÙcæ) åæå •Áæ) åÁÙč àb/8cát Ác@ ÁN•^ÁÚ^¦{ ãcã} \*ÁÚ¦[ &^••Á æ} åÁ@ ÁPã||•ãa^ÁÖ^ç^|[]{ ^} cÁUcæ) åæbå •ÉÁ

FYgdcbgY. ÁV@ÁÖ^ç^|[] { ^} cÁÚæ&&\|•Áāj&|`á^åÁājÁc@Á[¦ātājæ‡Á]¦^|ā[ājæ†ÁŠ[cÁŠāj^Á C1ābš•c[^} c] [•^åÁt[Áà^Á]¦^:[}^åÁÛāj\*|^EZæt[āîÁÜ^•ãå^}cãæ#EPā]|•ãå^ÁUç^¦|æÁÖā:dãbcÁ @æç^Áà^} Áæå^``æc^|^Áā^åÁs)åÅå^•āt}^åÁsjÁse&E[¦åæj&^Á]cãæ#EPā]|•ãå^ÁUç^¦|æÁÖā:dãbcÁ |^\*`|æaā]}•E2Û^^ÁÜ^•][}•^Át[ÁÔ[{ { ^} o ÁOEcca&@ ^}cÓEAj@a&@Ásj&|`å^•ÁæAt[][\*¦æ]@a&eAA { æ] ÁæjåÁc@Áæç^¦æt^Á+|[]^Át\_Ác@ÁÖ^c^|[] { ^}cÁUæ&^|Áæ\*AzÉajÁæ&&[¦åæ)&^Aj Pā]|•ãa^AUç^¦|æÁÖã:dãbcA|[cÁ\*a^Ai^``ã^{ ^}o ÉAOEA}[c\*a\*AuçA]Ac@AÜ^çā:a]] •Áæ}åÁ

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7 ca a Ybh Á/@ Á&[{ { ^} c' | Á cæc' • Á@ Á[ ||[ ] 引 \* KÁGÁš[ } qvÁæ ^ Áše • ` ^ Á ã @Áslæ) • ~ || 引 \* Á ^ ç^ ! æþÁ ^ Áðe Á 引 åãçãi \* æþÁ æl&^ |• Á[ Ás^Áæ] } ^ ¢^ å Á[ Á@ ÁÔãc Á[ - Á/N ãæ@ ŽP[ , ^ ç^ ! És@ !^ Áse^ Ás[ } &^! } • Á ^ \* æl å ] \* ÁQ , Á c@ Áæslåãā] } æþÁæsl ^ æ \* Áĕi Á] |æ) } 引 \* Á[ Áa^ A` cājā ^ å kÁGLÎ æsA{[ !AÔ[ } • ^ ! çæaā] } ÅŠæ) å • Á[ } Áœ Á[ ] eo Á , ^ eo !} Áse^ æžH HæsÁ[ ! ÁÜ ^ &! ^ æaā] } æþÝÇ[ } ^ å ÁÚØËÚ \* à]ãkÁ@ æsaāñās • DÁŠæ) å • Áj Áæj Á[ å å Á @eð A ákô - Á , ^ eo !} Áse^ æžH HæsÁ[ !ÁÜ ^ &! ^ æaā] } æþÝÇ[ } ^ å ÁÚØËÚ \* à]ãkÁ@ æsaāñās • DÁŠæ) å • Áj Áæj Á[ å å Á @eð A ákô - Á ] æsc^! } Ésæj å Á I æsÁæ ÁÖ^ ç^ |[ ] { ^} oÁUæsA |• ÁÇ[ } ^ å ÁÚFËP DÁ] } Ás@ Á] [ !c@ æ o' !} Á&[ !} ^ !Ésæ Á @ , } Á æ) å Á • cæe\* å Áð] Ác@ ÁQÙT ÞÖÁ{ æ] Á|^\* ^} åÁ[ } Á] È HĚAY @ Á[ , } • Ác@ ÁI Á] æs& |• Áa^c, ^^} Ác@ Á%Ô+Á Ü ^ &! ^ æaā] } æþÁšæj å • Ésæj å Á, @æsÆt ^ Áœ Á, |æ] • Á[ !Á@ • ^ Á] æs& |• Ñ+Á

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Ùāįābel/ÊÁ}[ã×Áāį]æ&o•Áæ•[&ãæevåÁ ão@Ádæ-ã&Á [č|åÁà^Á&[}•ãå^¦^åÁơv{][¦æh^Áåčki]; &[}•d`&cāį}ĚÁVJ[}Á\*č¦^Á&[}•d`&cāį}Á;~Á\*āj\*|^Ëæq{āîÁ@2{^•ÊA{[`¦&^•A, A][ã^^A, [`|åÅà^Á] &[}•ãrc^}cÁ,ãc@Á[c@^¦Á}[ã^^Á•[ĭ¦&^•Ác^]ã&aaþÁ[~Á¦^•ãå^}cãadÁĭ•^•ÁQ`ȰÈÉA{^&@aa}ã&aabÁ ^``āļ{ ^} ŒÊ\$\$[\*•Ð]^@ÊÁæ)å•&æ]āj\*Áæ&ãããã?•Ê&&æ•Á,æ\āj\*ÊA&BÈDĂŒååããj}æ|^Ê&æA,[@^åÁ§A Ù^&cā[}ĂÍĖFHÉAÞ[ã=^ÉA[-Ác@-ÁQÙTÞÖÁc@-ÁÔãĉq=ÁÞ[ã=^ÁU¦åã]æ)}&^ÁQÖãçãa[a]}ÄÏÉAÔ@ea]c^¦ÁFÉA CEEca84^ÁÎDÁ∿∙cæaà|ã@ • Áæ∉ àã\}cÁàæ• ^Á}[ã ^ Ál^ç^|Á•cæàåædå• Ác@eecÁæà]] |^ Ád;Á•] ^ &ãã&Á [}ã \* Á åãrd ã&or Á, ão@aj Áo@ ÁÔãô Á; ~ÁW. ãæ@ÁQ. Áæååããā; }ÉÁq[Á^å`&^Áj[c^}; cãæ‡Á;[ãr^Áā;]æ&or Áq[Á;^æbà^Á; •^} • ãuãç^Á/^&^] d; ¦• ÉAT ãuất azenā; } ÁT ^ aze` ¦^ÁÞ U CÜEFÁ; [` |å Á/^`` ã/^Á&; { ] |ãze); &^Á; ãu@Ác@: ÁÔãc` q:Á æl∥[ ` ^åÁ@[ ` ¦•Á[ ~Á&[ }•d` &oaī] }ÁÇİ K∈∈ÁæÈÈ ÈÁqÍ ÁÏ K∈∈Á]ÈÈ ÈDÉÁ∄j &|` å^ÁÓ^•oÁTæ)æt\*^{ ^}oÁ Ú¦æ&sca&^•ÁQÓTÚ•DÁ{{¦Á^å`&aj\*Á&{}•d`&caj}}Á;[ã×^É&e)åÁ^``ã^Á&{}}•d`&caj}Á```aj{ ^}cÁ{{ Á à^Á^˘˘ą]]^åÅ, ãc@Áj ¦[]^¦|^Á[]^¦ææġ \* Áæ) åÁ(æij ææj ^åÁ(˘~¦^¦• Áæ) åÁ[c@?¦Á• cæe^Ë^˘˘ã^åÁ }[ãr^Áæec^}`æeā[}Áå^çã&^•ÈU]^¦æeā[}Á[×ác@>ÁÚ¦[][•^åÁÚ¦[b^&cÁ[[`|åÁ^•`|cÁ6[Á\*cæeā[}æe^Â }[ã=^Á+•[č¦&^•Áæ=•[&ãæe\*åá,ãc@Ác`]ã&æ4Á'^•ãå^}cãæ4Á|æ}åáč+^•ÁV@••^Á}[ã=^Á+•[č¦&^•Áæ!^Á c] 38æ‡|^Á5j c^¦{ ãcc^} o Áej å Á @ ¦oÁ5j Áåč ¦æzāj } Ééej å Á [č|å Áà^Á8Z[{] æ 2æà|^Á5[ Á ¢ã cā) \* Á [č|&^• Á [~Á;[ã\*^Á^¢]^¦ã\*}&^åÁæeÁ\*`¦¦[`}åãj\*Á^•ãå^}cãæ4Á\*•^•ÈAÞ[ã\*^Á§[]æ&orÁæ••[&ãæe^åÁ,ãc@Ác@A Ú¦[b^&oÁ,[č|åÁà^Á^••Áœe)Áã}ããæe)oÁ,ãc@á,ãcããæeã;}Áã;]|^{ ^} c^åÉÁ

7 ca a Ybh V@/&{[{ { ^} c^|Ácæe^•Ás@eexás@Á'¦^^} @` •^Áæ•Á{ ã•ā[}•Ásãã&` ••ā[}Á@` |å/&[}•ãa^¦Á co@eexás@As^ç^|[]{ ^}c4,ā|Á'}&[` ¦æ\*^Áş^@as\^Á`^|Ás[} •`{ ] cā[}Ás`^Ás[Ás@A[&æeā]}Á,Ás@Á@[` •ā]\*ĖÁ

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OE Ášār & ••^åÁşi ÁÙ^&caţi } ÁLÈHÉQE3ÁÛ če¢ači É≴t, Ás@ ÁQÙT ÞÖÉ&s@ ÁÚ¦[b/&c4Qs[c@á&[}•d č &caţi } Áse) åÁ []^¦æeaţi } DÁ, [č|åÁy[cÁ/•č|cÁgi Áœá+ði }ãa38æ) cÁy ^\*æeaçî^Áqt ]æ&cÁt Áæatá č že¢ači ĚÁÙqt ajæe|îÉæe Á åãr & ••^åÁaj ÁÙ^&caţi } ÁFÏÉÁV¦æ)•][¦cæeaţi } ÉÁcc@ ÁÚ¦[b/&cÁ, [č|åÁ}[cÁ]¦[áč &^A•ði }ãa38æ) cÁ æξt [č} or Át Ásiæ-a3&At ¦Áç^@3&|^Át aj^•Ásiæç^/|^å/so@æcÁ, [č|å/áşi Ásči } ÁA••č|cÁşi Ásæati }ãa38æ) cÁs & </br> Šæe (^ÉŹc@ÁÚ¦[b/8cÁā)8|ĭå^•Áæ)}^¢æeā)}Áæ)åÁ8[}•^¦çæeā]}Á[ -Áæ]]¦[¢ā]æc^|Â'I €Áæ&¦^•ÉÄ ,@38@Á āļlÁœeç^Á,[Áā]]æ&cÁQ;¦Áæás^}^-æãæe‡Áã]]æ&cDÁ,}ÁÕPÕÉ4ãç^}Å@æeÅ@ÁÚ¦[b/8cÁ5erÁ[8æe\*åÁ ,ão@3,ÁœÁ}[}Ézeczæä]{^}óÆcA∞Ác@ÁÚ![b/8cÁ5erÁĭ¦æ4Áā)Á;æcĭ¦^ÉÁæ)åÁc@ÁÚ![b/8cÁ5erÁ[8æe\*åÁ å^ç^|[]{^}oÁ-[[d]¦ā]dĚAV@ÁÚ![b/8dÉ4ā]8|ĭåā]\*Áā]⊰æcdĭ8cĭ¦^Aáā]]¦[ç^{{^}c^{{}}e^Aæ}åÁ[c@¦Á å^ç^|[]{~}oÁ-[[d]¦ā]dĚAV@ÁÚ![b/8dÉ4ā]8|ĭåā]\*Áā]⊰æcdĭ8cĭ¦^Áāā]]¦[ç^{{^}e^Aæ}åÁ c^{{}][¦æ²Á&[}edĭ8cāţãã2eÊáerÁ[cá4c]^8c3åÅ{á]}äã8æa)dîÁa]8|ĭaã8æa)dîÁa]8[c@¦Á Yã@ábá]]|^{{^}caaā}}áA[c@áec]¦^{{^}c}aā}^àÁ^\*čãaā} à^Á(•eÁ@æ)Áaã}ãa8æa)dĚ4

7 ca a Ybh `V@Á&[{ { ^} c^\Á`\*\*^• c• Ác@æeÁs@Á^˘ ǎā^åÁa[cæ); 38æqÁ`¦ç^^•Áæ; ^Áaj; æå^˘ ǎæ^Áæ); åÁa^Á &[{]|^c^åÁ, lǎ[ká]; æjā; æjā; }Á; -Ác@Á©ÙT ÞÖÈÁ

$$\begin{split} F Ygdc bgY. OE \dot{A} [ c^a \dot{A} \dot{B} \dot{A} \dot{D} T \models O \dot{A} \dot{V} & d \dot{A} \dot{A} \dot{E} E \dot{A} (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) & (\dot{A}) &$$

7 ca a YbhÁV@Á&[{ { ^} c'¦Á^¢] ¦^••^•Á&[} &^\; + A'\^\* ælåāj \* Áàā[|[\*ā&æqÁ¦^•[`¦&^•Áæ) åÁ, æe^\;Á &[`¦•^•Áæ) åÁ&`|ç^\;o:Á, ãc@3, Ác@ÁÚ|[b%&Aýçã&3,ãc ÈÁ/@Á&[{ { ^} c'}Áæ†[Á\*¢] ¦^••^•Á&[} &^\;}•Á^|æe^åÁ q[Á,āå]ã^Á;[ç^{ ^} cbé;

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#### 7CAA9BH'@9HH9F'%&'A5F; C':F5B?'

7 ca a YbhÁ/@Á&[{ { ^} c^\Áv¢] \^••^•Á&[} &^\; + Á^\* æ\åãj \* Á, āţà-ā^Áæ) åÁv¢] \^••^•Á, ]][•ãaāt} Á (tÁ c@Á, |[b^&děÁ

Ù^^ÁTæ•c^¦ÁÜ^•][}•^ÁFÁ^|æc^åÁξ[Á, ã¦å-ãi^ÈÁ

#### 7 CAA9BH @9 HH9 F %. < 95 H< 9 F G9; ; 9 @Á

7 ca a YbhÁ/@Á&[{ { ^} c^\Á^¢] \^••^•Á&[ } &^\; •Á^\*æåãj\*Á,ãå-ã^Áæ)åÁ^¢] \^••^•Á,]][•ãāā; }Á([Á c@Á,\[b^&džÁ

FYgdcbgY.ÁV@ãÁ&[{ { ^} oÁãrÁ}[ c^åÁæ) åÁãrÁð] &[ a^åÁð) Åc@Á] `à|a&Á'^&[ ¦åÁ{[ ¦ÁÚ|æ) }ð] \*Á Ô[{ { ã•ð] Áæ) åÁÔãc ÁÔ[ `} &ð]Á&[ }•ãå^¦æað] }ĚÁ

### 7 CAA9BH @9 HH9 F '%(. H< CA5 G < I BH

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] ¦^&^åð] \* Áæåbǐ • ({ ^} dĂ,Sierra Club v. Napa County Bd. of Sup'rs (CEFCDACE ÁÔæ†Ä0] ÈA c@Á FÎ CÈDÁ

V@ÁÔāč q Á^çā`, Á, Ásġ] | 88æsā, } • Ás Áā, ār ča Ásb å Á, ā ā c lāskā, Á, æš l^ĚQÁ, æš Á, j l Ásoci, { ā, A
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7 ca a YbhÁ/@Á&[{ { ^} ♂\Á∿¢]¦^••^åÁ&[}&^\; ^ Áœæá@Á©ÙTÞÖÁå[^•Á,[ơÁæåå¦^••ÁœÁ&æ]æ&ãĉÁ -{¦Á,-Ác@Á∿¢ãrcā)\*ÁÔãĉÁ cājãĉÁt[Á\*`]][¦ơÁc@Á,\[][•^åÁ@ૄ{ ^•Áæ)åÁ`^•cā]}•Á,@ĮÁ,[`|åÁ(æä);cæa)Á c@Á5),⊰æ-d`&c`¦^ÈÁÁ

7 ca a YbhÁ/@Á&[{ { ^} ♂¦Á☆]¦^••^åÁ&[}&^!}•Á^\*æåä}\*Á; ā‡å-ā³^Áæ)åÁæ&&^••Á^~ ă^{ ^} @ ÈQA æååãāā;}Êx@ Á&[{ { ^} ♂¦Á☆]¦^••^•Á&[}&^!}•Á^\*æåä}\*Áå^ç^|[] { ^} ♂Á^\* `|ææā;}•Áā; Á@ ÁPā||•ãa^Á Uç^!|æÂÖã\*dã&oÁ^|ææ^åÁ§[Á|[] ^ÈÁ

FYgdcbgY.Â\/^ÁTæc^\{Â\/^•][} •^ÁFÁe)åÁ^•][} •^ÁFÁe)åÁ^•][} •^Á§ ÁÔ[{ { ^} /6\$^/co^\ÂÁe)åÁFFÁ^\*ælåð]\*Á •|[]^Áe)åÁs^ç^|[]{ ^} oÁ, ãc@)Ác@ÁPð||•ã8^ÁUç^\|æÂÖãd&BCEMÁ 7 ca a Ybh V@ Á&[{ { ^} c^\A cæe^• Ác@eæÁą[] æ&o• Át[Á@ å\[ |[\*^ Á+[ { Á+[ { Á+[ { A] [ c^} c aæ4Áč č \^ Aå^ç^ |[ ] { ^} cÁ æ) å Á^] |æ&^{ ^} o• Át - Á&č |ç^ \o• Át ^\A [ of áæå^č č æe^\^ å åa &č •• ^ å Ásj Ác@ ÁcDT ÞÖ ÈÁ

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### 7 C A A 9 B H' @ 9 H H 9 F '%). G H 9 J 9 5 B 8 '> 9 5 B @ B 7 C @ B'

7 ca a YbhÁ/@Á&[{ { ^} c^\Á^¢] \^••^•Á&[ } &^\; •Á^\*æåðj\*Á,ðjå-ði^Áæ)åÁ^¢] \^••^•Á,]][•ãæj;}Á([Á c@Á,\[b^&džÁ

FYgdcbgY.ÁV@árÁ&[{ { ^} o^áarÁ}[ c^åÁæ) åÁãa Áðj &|` å^åÁðj Ác@ Á]` à|3&Á',^&[ ¦åÁ{[ ¦ÁÚ|æ)} }ðj\*Á Ô[{ { ã•ð[ } Áæ) åÁÔãc ÁÔ[ ` } &ðjÁ&[ }•ãa^¦ææð] }ĚÁ

### 7 CAA9BH`@9HH9F`%.`BCFH<`7 C5GH`F9; =CB5@K 5H9F`EI5@+HM7 CBHFC@6 C5F8` fB7FK E76Ł`

7 ca a YbhÁ/@Á&[{ { ^} c^¦Á\* cæe^•Ác@eeÁðj -{ ¦{ æeðj} }Á\*^\* ælåðj \* Á\*^} •ããðj^Áàðj |[ \* &&æþÁ&[ { { `} }ãæð • ÉÁ Y æe^¦•Á; Ás@Áùcæe^Áæj åÁ ^ dæj å • Áæi Á&[ } -{}&c@; Á\$@ðj Ás@ÁÓðj |[ \* &&æþÁÜ^•[ ` ¦&^•ÁŒ•^••{ ^} dĚ/@Á ÞÔÜY ÛÔÓÁ懕[Á\* cæe^•Ác@eeÁãÁY æe^¦•Á[ -Ác@Áùcæe^Á; ðj|Áà^Áðj ] æ&c^åÁà^Ác@Á] ¦[b\*&dÉ4/^\*` |æe[ ¦^Á ] ^¦{ ã•Á; ðj|Áà^ÁA´` ðr^åÈĂ

7CAA9BH @9HH9F %+. >C<B 5B8 89 @MBB9 FC; 9FG

7 ca a YbhÁ/@Á&[{ { ^} c^¦Á\*¢] ¦^••^• Á&[ } &^!} •Á^\* æ¦åð] \* Á, ð]å~ði^ÈÁ

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FYgdcbgY.ÁÙ^^ÁÙ^&cāt } ÁÍ ÈFI ÉÁÚ[] \* |æeāt } Áæ) åÁP[\*•ã; \*ÉÁ!^\*ælåã; \* ÁæÁåã; &\*••ãt; } Á[} Á ][c^}cāæļÁ\*¦[\_c@Áājå`&āj\*Áāj]æ&oeĖÁV@A¦^•ãå^}cãæļÁ&[{][}^}cÁ[-Ác@A]¦[][•^åÁ Ö^ç^|[]{^}ơÂŒ`¦^^{ ^}oÁ[`|åAà^Á[&æe^åÁãœãàÁi áœã Ái Áæ&i^•Á; cæ4€ï Áæ&i^•Á;[][•^åA -{¦Áse}}^¢æeā[}ĚÖ^ç^|[]{^}oÁ[č|åÁs^Á^•dã&c^åÁ[ÁseÁ[cæhÁ[ÁseÁ[čæhÁ[ÁsēA[čæhÁ[ÁseÁ][čæhÁ]] Ásē[Ås]\*|^Áæé[ãîÁ @{ ^• Áæ} å Ác@ Á [ c^} cãæ Á [ ¦ Áæ} ÁOËÜWÁ [ Á æ& @Á@ { ^ DÁ& [ { ] æ& cÁæ} å Á& [ \* c^ ! ^ å Á& Á [ å^ ! Å [ Å { æ¢ā[ ã^Ác@^Á] ¦^•^¦çææā[}Á[ 4[]^}Á•] æ&^ĚAV@ãÁQQ`•ā] \*Á&|`•c^¦Á,ā|,Áà^Á&[}cāt`[`•Áæ) åÁ • ãi ālæ Át Ár¢ā cāi \* Á ¦àæ) ã ^ å Áæ ^ æ Á ã c@ Á ⁄ • c^¦} ÁP ã|• Á } å^¦ ÁÔãc Át ¦ã å ã&cāi } ÈČQÁc@ Á ]¦[]^¦c`Á,^¦^Áq[Á^{ æanjĂ}]āj&[¦][¦æe^åÁ@?`•āj\*Á}ãn•Á&[`|åÅa^Áa^ç^|[]^åAj}Å\*æ&@Ajæ&&^|Á c@[`\*@`oks@A{[caqAse^adÉada^ãaA\$jAsaA{[\^Asãa^\^Asãa`\•^åAs[}-ã``\aea1}}ÈA/@•^A;\[][•^åA bǐlāråa8kcā[}æļÁ&@æ)\*^•Á[`'|åÁ][oÁ}\*^}å^¦ÁL]¦æ, |dĚU]Ác@Á&[}dæ^É&ça?`^åÁæeÁæ4,@[|^ÉA c@^Á\;[][•^åÁæ}}^¢æeā[}^¢æeā[}Á\_ā|Á^^å`&^Á\[c^}cãe¢Á\*];#e; |Áæ}åÁ&[}&^}cãe^Áč;#àæ}Á\*^;;cã&^•Á Çæe^\HÊ+^\_^\ÊA\|^&cla&ac Ê+[|aaA, æe c^A&[||^&ca[]}Áee) åAj`à|a&Aee) åAj Laçæe^A[æa+•DAg Ac@Aee^æA æ¦^æå^Ás^ç^|[]^åÁ[¦Áā]\*|^Áæ{aî^Á@?`•ā]\*Áæ}åÁ^&^ãçā]\*Á'¦àæ}Á^¦çæ?^•ĔV@Á&[}œã`[`•Á ] | [ ] ^ | cā\• Át[ Ác@ Á; [ | c@ æ oÁæ^ Áæ¦ ^ æå^ Á` } å^ | ÁÔãĉ Áŏ | ã åã&cā[ } Áæ} åÁ.[ } ^ åÁÜFËPÉÙ^ | çã& • Á . [ ઁ |åÁ; } | ˆ Áà^Áາ¢ơ^} å^åÁt Ác@Á^•ãå^} cãadÁ ãơ•Áa) åÁ; [ č |åÁ; [ óÁi; å` &^Á\*; [ . c@Ác@;[ č \* @ č óÁ c@cÁade\*^¦ÁY^•c^¦}Á₽ã∥•ÈĂ

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7 ca a YbhÁc@ Á&[{ { ^} c^¦Á^¢] ¦^••^•Á&[} &^\; + A^\* ælåð] \* Áçãa čælÁð[] æ&or Á'^|æer\åÁ([Ác@ Á, æer\¦Á cæ) \ É&yor, Áæ&&^••Á[æå•+Éæb;åÁ[[c^}cab; + A[2] \* |^Éæ; af Á@[{ ^•ÈÁ

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 -^æč¦^•ÁæjåáÁ&^}ಔÁ^•[`¦&^•Ájão@jÁ@AÝ^•c^¦}ĂPā]•ĚQĘc@[`\*@Ю^ç^|[]{^}ơÁUæt&^|•ÁEË HÁ(æâÁà^Áå^ç^|[]^åÁjão@jÁ@AÔ[`}ċ°qÁŏ¦ãråã&cāj}Áj¦āj¦ÁţÁaj}^¢ææāj}Åà^Ëãr@EÃo@^Ájā|Á à^Á^`čā^åÁţÁa^&a^ç^|[]^åÁţÁUFËPÁcæjåætå•Ás@[č\*@OÔBÜ•ÈQQÁœtåãāāj}ÊÆtek|Áţãātæaāj}Á {^æč¦^•Áãa^}cãa³åÁ-{¦Á¦^•ãa^}cãætÅå^ç^|[]{^}ơÁājÁc@AQDTÞÖÁ,ājAàà^Áæj]]a³åÁq[Á Č^ç^|[]{^}ơÁUæt&^|•ÁFËHĚAV@¦^+¦^ÊÉc@Aj[c^}cãætÁ4^eãa^ç^|[]{ ^}ơÁæ•[&ãæte^åÁ jãc@Ác@ÁÚ¦[b%&cÁj[č|åAj[cÁ&[}+ã&cÁjãc@Ast]]]a8æà|^Á[}āj\*ÁæjåAţc@¦Á^\*č]æatj}•Át[ç^¦}āj\*Á •&^}ã&A´čætáčĚĂ

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2[¦Ác@Áæ[¦^{ ^} cā[}^åÁ'^æ[]•Éc@ÁÚ¦[b%&A [`|åÁ}[cÁ^•`|óÁ] ÁæÁ\* ã }ã&æ) óÁi[]æ&óA[Á •&^}&&Á;ã cæ Éÿ[¦Ác@Áçã `æÁ&@æææ&c°¦Á[-Ác@Á\*ãc^Á[¦Áæ^æÈQ]]æ&orÁ[[`|åÁà^Á/••Ác@æ)Á •ã }ã&æ) dĚ

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7 ca a YbhÁ/@Á&[{ { ^} c^¦Á^¢] ¦^••^•Á&[} &^'; Å/\* æåðj \* Á, ðjå~ði^Áæ) å Áæe \•Á\*^ç^¦æA´` ^•cāį}•Á !^\*æåðj \* Á, ðjå~ði^É&j •` ¦æ) &^ÉA[ðjÁ, [ãrč ¦^É&i¦[`\* @ÉA^æeðaðjãô`Á, Á@AÚ|[b^&dÉ&) å Á@[`•ðj \* Á,^^å•ÈA

7 ca a YbhÁv@/&s[{ { ^} c', /ár Á, ~á@ Á] ∄ ã] } Ás@eená@ Áã ` ¦^• /ás &]` å^å Ás@ Áŵ)T ÞÖ/Ásel^ Ásjaæå^`` æe^Á æ) å Á cæe/• Ás@eenáwek[][\*¦æ] @a8æad4(æ] Á æ Á[c/ásj&]` å^å ÈAQ Ásæå ãaã] } Ês@ A&[{ { ^} c', A cæe/• Ás@eená@ Á ] @ d[\*¦æ] @ Á ∄ Á c@ Á Óā[[[\* 38æd4Á[u^•[`¦&^A OE • ^ • • { ^} cAå[Á][cA}[cA][c^A c@ Á ‰^[\*¦æ]; @a8æd4Á[¦Á d[][\*¦æ]; @a8æd4Á; @ ¦^æà[` ce ÈaAÁ

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"Discussion: (a) Less than significant impact. As previously discussed in the Project Description and Land Use Section (11) of this Initial Study, the Proposed Project would annex approximately 707 acres into the City. Once annexed, 54 acres could be developed with up to 14 residential units (seven single family homes and one associated ADU per lot) through the proposed Development Agreement. Although no development is proposed at this time, for this analysis it is assumed that future development would result in construction and development of residential uses on the site.

Under the County's General Plan and Zoning Ordinance, the entirety of the 707 acres has the potential to be developed with up to one dwelling per 40 acres, for a

total of 17 primary dwellings. In addition, an ADU may be constructed as of right on each parcel, resulting in the potential for up to 34 total units to be developed. The City of Ukiah's General Plan land use designation of Low Density Residential (LDR) allows for a density of six dwelling units per acre. Under these regulations, the 54 acres for residential development could conceivably be developed with up to 330 units. However, the proposed Development Agreement would restrict development to one single family dwelling per parcel and one ADU (except in cases where the slope exceeds 50 percent, per the City's Hillside Overlay Ordinance), for a total of up to 14 units. Although Development Parcels 1-3 may be developed within the County's jurisdiction prior to annexation by-right, they will be required to be developed to R1-H standards through CC&Rs. All Development Parcels would be prezoned to R1-H (with a Low Density Residential General Plan land use designation) and are located within the 95' General Plan's Unincorporated Planning Area, as well as the current UVAP/SOI boundary. The proposed Development Parcels are consistent with the density and intent of the LDR land use designation and R1H zoning. Additionally, the 14 units that could be developed under the Development Agreement would fulfil a portion of the moderate to above moderate income units required by the City's RHNA for the 2019-2027 Planning Cycle.

As a part of the Project, utilities would be extended to the area. However, because the extension of utilities would be limited to the seven Development Parcels that are currently zoned for rural residential development, the Project, including development of up to 14 units, would not directly induce substantial unplanned development and population growth in the area. The remaining 640 acres that would be preserved as open space would not be developed with residential uses that could result in an increase in population. For the aforementioned reasons, the Proposed Project would not induce substantial unplanned population growth in an area, either directly or indirectly. Impacts would be **less than significant.**"

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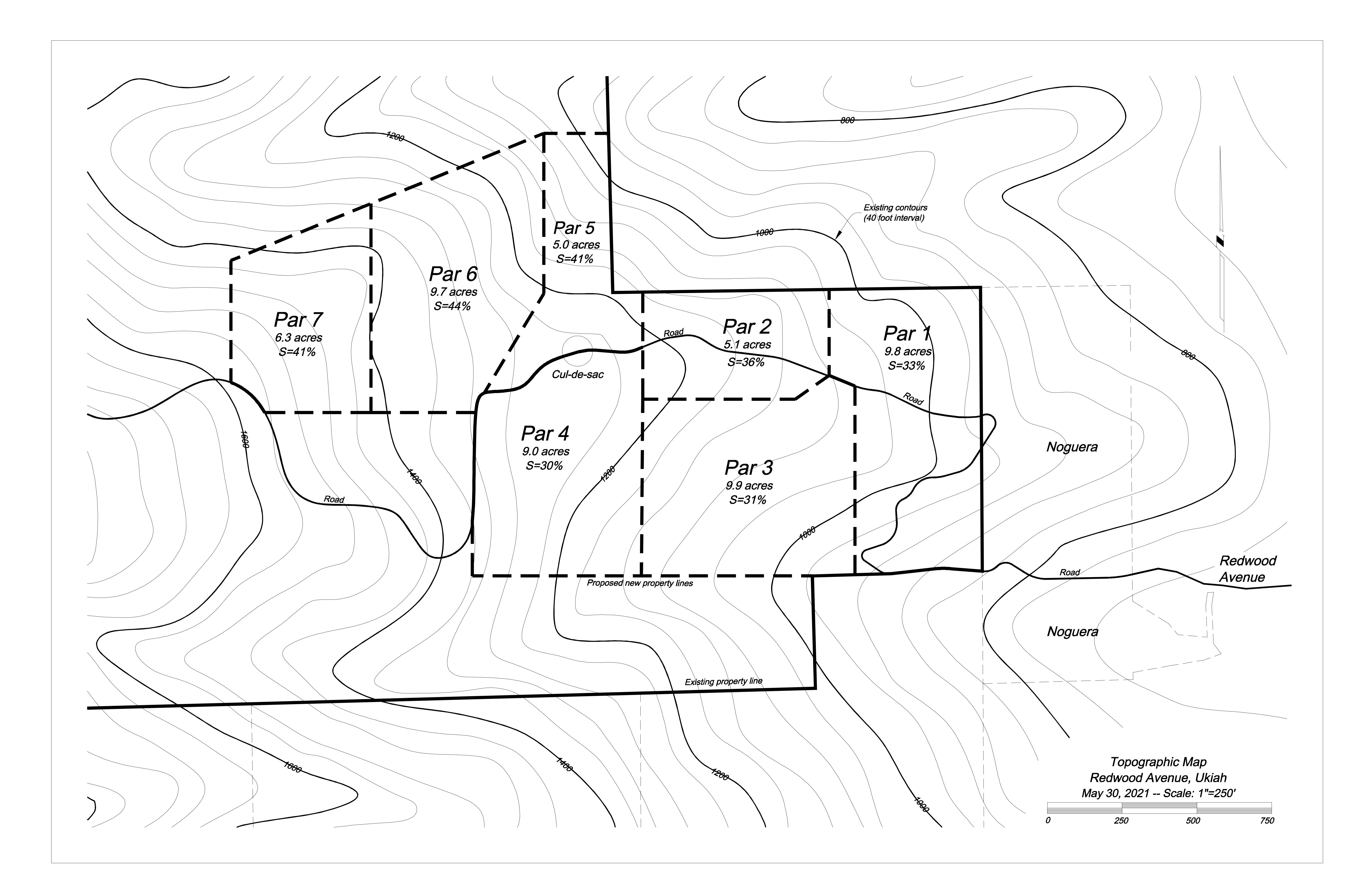
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# **UKIAH VALLEY FIRE AUTHORITY**

1500 SOUTH STATE STREET UKIAH, CA 95482-6709 Phone: (707)462-7921 Fax: (707)462-2938 Email: uvfd@sonic.net

## MEMORANDUM

Date: 27 May 2021

To: Michelle Irace, Community Development Manager

From: Doug Hutchison, Fire Chief

Subject: Western Hills Annexation, aka "the Hull Properties"

This memo is in regards to fire safety concerns that have been raised regarding the potential annexation of the Hull Properties in the Western Hills are of Ukiah.

The largest issue for the Fire Authority will be the administration and oversight of the project area for fire prevention once it is annexed. Per State law, once the area is annexed into the city it will be re-designated from "State Responsibility Area" (SRA) to "Local Responsibility Area" (LRA), but will retain its classification as a Very High Fire Hazard Zone. As such, the city, through the Fire Authority, will be required to enforce the State's fire safety standards on those lands.

It is our understanding that the proposal includes the possibility of very limited future development of seven (7) parcels in the lower, mid-slope portion of the property.

I performed a site visit with the property owner and went over the proposed development plans and believe that with the widening and paving of the road, and the installation of the water tank and fire hydrants we will be able to comply with the State's fire safety regulations in that area. This is not to say that the area does not present challenges, but they are no different than many other areas that we currently protect, and in many cases the conditions currently present and proposed would be better than those other areas.

In regards to the recently re-established shaded fuel break in the area, the addition of the small amount of structures would have minimal if any impact on its effectiveness. The

defensible spaces created by the home sites could even enhance its effectiveness in that limited area.

Please do not hesitate to reach out if you need more information or have other questions or concerns.



DEPARTMENT OF FORESTRY AND FIRE PROTECTION 17501 N. Hwy 101 Willits, CA 95490 (707) 459-7414 Website: www.fire.ca.gov



May 21, 2021

Michelle Irace, Planning Manager Department of Community Development 300 Seminary Avenue Ukiah, CA 95482

Subject: Western Hills Project

Ms. Irace,

This letter is a follow-up of the meeting on May 18<sup>th</sup>, 2021 with respect to the City of Ukiah's Western Hills Annexation Project.

The scope of the project entails the City of Ukiah to acquire 707 acres of land that is currently in the County of Mendocino's jurisdiction. Additionally, there is a possibility of future subdivision of parcels, as well as potential construction of residential units once the acquisition and annexation are complete.

This acquisition and eventual annexation of land into the City of Ukiah will have two significant effects from the Unit's perspective:

First, the land being acquired and annexed is currently within the State Responsibility Area. Under Public Resources Code Section 4125(a), CAL FIRE has the financial responsibility of preventing and suppressing fires on State Responsibility Area land. Under the proposed annexation, this land will be removed from the State Responsibility Area and will come under the purview of the City of Ukiah.

Public Resources Code Section 4127(b) requires that land inside an incorporated city be designated as being within the Local Responsibility Area. As this project's intent is to annex County land into the City, it will be then reclassified as being within the Local Responsibility Area. Therefore, the City of Ukiah will be financially responsible for the prevention and suppression of fires that occur on the acquired land once the annexation is complete as required in Public Resources Code Section 4125(a).

The second significant issue deals with new construction in Very High Fire Hazard Severity Zones in the Local Responsibility Area. Public Resources Code Section 4290, as amended by Assembly Bill 1823, requires lands classified and designated as Very High Fire Hazard Severity Zones in the Local Responsibility Area to comply with the requirements of the State Fire Safe Regulations beginning July 1<sup>st</sup>, 2021. In addition, Public Resources Code Section 4290 requires the local jurisdiction, not CAL FIRE, to implement and enforce the State Fire Safe Regulations on these lands. City of Ukiah Western Hills Annexation

As outlined in Public Resources Code Sections 4202 and 4203, the land involved with this annexation proposal is currently classified by the Director of the Department of Forestry and Fire Protection as being within a Very High Fire Hazard Severity Zone. Once annexed into the city, it will become the responsibility of the City of Ukiah to review, inspect and enforce the State Fire Safe Regulations on this land, as well as any other land that is classified as being within a Very High Fire Hazard Severity Zone within the Local Responsibility Area within the city's boundaries.

To summarize, once annexed into the City of Ukiah, the parcels in question will be transferred out of the State Responsibility Ara into the Local Responsibility Area. Once in the Local Responsibility Area, the City of Ukiah will be financially responsible for fire prevention and fire protection efforts on this land, as well as ensuring that any future improvements conform to the State Fire Safe Regulations.

If there are any questions regarding this issue, please feel free to contact me at (707) 459-7423, or by email at <u>chris.vallerga@fire.ca.gov</u>.

Chris A. Vallerga Fire Captain/ Pre-Fire Planning Mendocino Unit

Cc: MEU PRC 4290 File

Maya Simerson, Project Administrator, City of Ukiah Doug Hutchison, Fire Chief, Ukiah Valley Fire District Mendocino County Planning and Building Department

Reference: Public Resources Code Sections 4125-4127, "Responsibility for Fire Protection" Public Resources Code Sections 4202-4204, "Fire Hazard Severity Zones" Public Resources Code Section 4290, "Fire Safety Standards for State Responsibility Area Lands" California Government Code Section 51177(i), "Very High Fire Hazard Severity Zones" Title 14 California Code of Regulations, Division 1.5, Chapter 7, Sub-chapter 2, Article 2, "State Fire Safe Regulations"



## natural resource planning & management

May 31, 2021

Catherine Iantosca Environmental Scientist Southern 401 Water Quality Certification Unit North Coast Regional Water Quality Control Board 5550 Skylane Blvd, Ste. A Santa Rosa, CA 95403

RE: Response to 5/20/21 Regional Water Board Comments: City of Ukiah Western Hills Open Land Acquisition & Limited Development Agreement

Dear Catherine,

Thank you for commenting on the Biological Resource Report for the City of Ukiah Western Hills Open Land Acquisition & Limited Development Agreement.

With regards streams and riparian habitat Section 5.1.2, (5) Field Survey Results, (.1) Biological Communities (.2) Sensitive Biological Communities – Sensitive Aquatic Resources (page 16) states that six watercourses were observed and mapped in the Study Area. It additionally states that two sensitive biological communities, *Quercus garryana* Forest & Woodland Alliance (S3) and *Umbellularia californica* Forest & Woodland Alliance (S3) were observed within the Study Area.

Please refer to section 6.1, (6) Assessment Summary and Recommendations, (.1) Biological Communities (page 27-28), for recommended mitigations to reduce the impact of the project to streams and sensitive biological communities including riparian habitat. For proposed work within watercourses, such as stream crossings, our recommendations include obtaining a CDFW LSA Agreement but should include obtaining a SWRCB 401 permit as well.

With regards to wetlands, Section 3.4.2, (3) Field Survey Methodology, (.4) Biological Communities, (.2) Sensitive Communities-Aquatic Resources (page 8), is not a result or account of what we observed on site and is meant to describe our methodology in defining and describing wetlands for the purposes of the assessment. Generally, if a suspected wetland is observed during our biological assessment, it is referred to as a "wet area" until a wetland delineation is performed to determine whether the "wet area' meets the criteria of wetlands as described by the USACE 1987 Manual. The NWI database is consulted at a reconnaissance level before our site visit and is not intended to substitute on-the-ground field assessments for wetlands.

Please refer to section 5.1.2, (5) Field Survey Results, (.1) Biological Communities, (.2) Sensitive Biological Communities-Sensitive Aquatic Resources (page 16), for the results of the assessment concerning sensitive aquatic resources including wetlands. No wetlands were observed within the Study Area during the biological assessment. We will make these results clearer for future reporting.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Alicia Ives Ringstad Senior Wildlife Biologist Jacobszoon & Associates, Inc.





natural resource planning & management

August 8, 2021

RE: Response to 5/20/21 Public Comments: City of Ukiah Western Hills Open Land Acquisition & Limited Development Agreement

To whom it may concern,

Thank you for commenting on the Biological Resource Report for the City of Ukiah Western Hills Open Land Acquisition & Limited Development Agreement.

With regards to the following comments:

"I encourage the City to complete the botanical studies as planned. The study states that at least one more site visit was recommended. I recommend that this be completed before CEQA is finalized. That may mean waiting another year as many plants bloomed early this year and have already withered."

As noted in the Draft ISMND, botanical surveys were completed on 03/30/2021 and 5/17/2021. As noted in Draft ISMND Mitigation Measure BIO-1, the third botanical survey was required to be completed within the blooming period (March –July) and prior to any ground disturbing activities. The third and final botanical survey was completed and 7/9/2021. The surveys were conducted in accordance with "Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities" (CDFW 2018). No special status species plants were observed during the surveys. The botanical surveys are now completed for the project and no further recommendations for sensitive plants are required. Please refer to the Biological Resources Assessment Addendum for Rare Plant Assessment and Botanical Survey for more information.

"There are year-round springs adjacent to the road and I have heard that there are others in the area. We have found giant pacific salamanders on our property that must be residents of the springs. I don't think the salamanders are a protected species but they are very unusual in the Ukiah Valley. I have found native snails that I think are also unusual, if not protected, and I wonder what other species might be residents of these springs? I hope the biological surveys included the areas around the creek drainage."

The creeks within the Study Area were surveyed during the biological assessment and first botanical survey and no special status species were observed; however, it is recommended in biological assessment report in Section 6 that if any work is proposed within the streams to conduct preconstruction surveys for sensitive amphibian species.

"The unnamed creek drainage that runs along Redwood Avenue should be treated as a wildlife corridor and a seasonal creek. The springs along the creek are an important water source for wildlife. I have this drainage affected by sediment flows from improper grading, poor culvert placement, bright lights, tree removal in the creek corridor, and recently, fencing of the creek, prohibiting wildlife passage. I am concerned that these trends will continue if there is not educated oversight. Some of this has been on county land and some within the city limits."

It is recommended in the Biological Assessment report in Section 6 that all earthwork within or adjacent to the watercourse adhere to standard methods of erosion and sediment control and, if possible, to complete all work while the channel is dry to reduce sediment load downstream. It is also recommended that a qualified biologist be on site for any dewatering event to address the potential for the presence of sensitive aquatic species such as foothill yellow-legged frog (*Rana boylii*).

If you have any questions, please do not hesitate to contact me.

Sincerely,

Alicia Ives Ringstad Senior Wildlife Biologist Jacobszoon & Associates, Inc.



## Comments Received on the Ukiah Western Hills Open Land Acquisition & Limited Development Agreement Project Draft ISMND Public Review Period April 16, 2021- May 20, 2021

Comment Letter #	Commenter	Date Received
1	Margo Frank	May 3, 2021
2	Crispin B. Hollinshead	May 6, 2021
3	Ulla Brunnberg Rand	May 12, 2021
4	Allie Duggan	May 13, 2021
5	Western Hills Fire Safe Council	May 14, 2021
6	Chris Watt	May 18, 2021
7	Jeanne Wetzel Chinn	May 19, 2021
8	Andrea Vachon	May 19, 2021
9	Michael Maynard	May 19, 2021
10	Sharron Thomas (sent via email from Emily Thomas)	May 19, 2021
11	Andrea Davis	May 20, 2021
12	Margo Frank	May 20, 2021
13	Heather Seggel	May 20, 2021
14	Thomas Hunt (via email from Chris Watt)	May 20, 2021
15	Steve and Jean Lincoln	May 20, 2021
16	North Coast Regional Water Quality Control Board	May 20, 2021
17	John and Delynne Rogers	May 20, 2021
18	Pinky Kushner	May 20, 2021
19	Mendocino County Local Agency Formation Commission (LAFCo)	May 20, 2021
20	Helen Sizemore	May 20, 2021

From:	Margo Frank
To:	Michelle Irace
Subject:	Commenting on draft for Western hills open land
Date:	Monday, May 3, 2021 7:17:20 PM

#### Hi Michelle,

I read the lengthy and detailed draft of the initial study for the Western Hills development. We moved to Gardens Ave last fall after living at the top of Deerwood in the Eastern hills of the Ukiah Valley. While living there we were very aware of the danger of living in a high fire zone and having only one road for egress. It seems to me that this proposed Western Hills development would create a similarly dangerous situation. Many people I know who now live on the far western edge of Ukiah, up against the hills, are very concerned about fire risk. I don't understand how development on those hills makes any sense!

Thank you, Margo Frank 180 Gardens Ave. Ukiah

Members of the Planning Commission,

My name is Crispin B. Hollinshead. I am a neighborhood representative on the Western Hills FireSafe Council, and the proposed Western Hills annexation was a topic of discussion at our recent meeting.

California is now headed into another drought, and the fire seasons over the last few years keep exceeding previous records. The proposed annexation includes 7 parcels for residential development, allowing up to 14 new homes. Emerging fire safe understanding suggests this kind of Wildland Urban Interface development is bad public policy, very risky for the potential home owners, and expensive for the community trying to protect that property.

Historic fires in the area burned down to the valley floor as far a Todd Grove Park in the 1950's. There is no reason to believe that the projected development wouldn't be completely destroyed by such fires happening in the future. The projected development is to the west of the recently completed Shaded Fuel Break, putting it in the expected sacrifice zone. The single road access will be a problem in a fire emergency, and will likely violate emerging CalFire regulations.

I urge you to take a serious look at the fire hazard being created, and revise the plans.

Sincerely,

Crispin B. Hollinshead 960m Dominican Way Ukiah, CA 95482

Gratitude, Love, and Global Awakening May All Beings Awaken From The Illusion Of Separation May You Awaken With This Breath



Members of the Planning Commission,

My name is Ulla Brunnberg Rand. I am a neighborhood representative on the Western Hills Fire Safe Council, and the proposed Western Hills annexation was a topic of discussion at our recent meeting.

California is now headed into another drought, and the fire seasons over the last few years keep exceeding previous records. The proposed annexation includes 7 parcels for residential development, allowing up to 14 new homes. Emerging fire safe understanding suggests this kind of Wildland Urban Interface development is bad public policy, very risky for the potential homeowners, and expensive for the community trying to protect that property.

Historic fires in the area, one of them started by boys playing with matches, burned down to the valley floor as far as Todd Grove Park in the 1950's. There is no reason to believe that the projected development would not be completely destroyed by such fires happening in the future. The projected development is to the west of the recently completed Shaded Fuel Break, putting it in the expected sacrifice zone. The single road access will be a problem in a fire emergency. It will likely violate emerging CalFire regulations.

I urge you to take a serious look at the fire hazard being created. Please revise the plans to only allow one dwelling per parcel and possibly less parcels.

In addition, please consider, allowing this Western Hill Development can become a precedent for future developments in the WUI area. I do not want to see any more developments in the hills. I am concerned that having more people living in high fire prone zones creates more possibilities for accidental fires and could potentially endanger the entire Ukiah Valley.

Sincerely,

Ulla Brunnberg Rand

109 Giorno Ave.

Ukiah, CA 95482

### **Michelle Irace**

From:	Allie Duggan <allie@studio4forty.com></allie@studio4forty.com>
Sent:	Thursday, May 13, 2021 9:52 AM
То:	Michelle Irace
Subject:	Ukiah Western Hills Open Land Acquisition

#### [EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

I am writing to express my strong opposition to the development of homes on the Ukiah Western Hills Open Land Acquisition. This development would be detrimental to the area, nearly all residents in on Redwood Avenue are completely opposed to the development of homes that will cause traffic on a road not equipped for any more than it already sees, safety problems, and destroy local wildlife habitat. Additionally, I was under the impression that this land was originally donated for fire mitigation and recreation, not development.

Traffic and safety of children on the street are major areas of concern. We don't need any more cars and trucks going up and down this tiny street and we did not sign up for months of construction equipment going up and down the street on a daily basis. Most of the time with cars parked on the street it is a one lane road and not equipped to handle the high traffic this will cause.

Wildlife has been observed in the area, and any development will destroy their habitat. Any planned development of the property should consider the continuing impact to local wildlife habitat which should be investigated by the appropriate agency prior to approving development.

Among the impacts stated on the notice we got, wildfire is my, and should be the cities main concern. We do not need any more catalysts that could potentially cause a wildfire in this are, especially a high risk zone like the proposed land. This land was originally acquired for fire mitigation so this is completely going against what the land was originally donated for. Quoted from a news article from January 15, 2021 "the local government hopes to use the land to create and maintain fuel breaks to protect the city from fire, for conservation, and for recreation." Link Absolutely no mention of development, so it is extremely discouraging to know that has been added to the plan now.

I was disappointed that this project started on April 16, 2021 and the homeowners on Redwood Avenue, who would be majorly impacted, were given printed notice of it on May 13, 2021, nearly a month after this process has started. That is completely inconsiderate to all of us on this street who will have to deal with the issues that development will cause.

I urge you to disapprove the proposed development, and from recent meetings and discussions with my neighbors, I know my opinions are shared by many who have not managed to write letters and emails.

Thank you for your continued service and support of our communities.

Best regards,

#### ALLIE DUGGAN | CREATIVE DIRECTOR

916.539.9395 allie@studio4forty.com studio4forty.com

STUDIO VENTFUL women&shoes Farm to table (aux)

To the Ukiah Planning Commission and City Council Members:

The Western Hills Fire Safe Council (WHFSC) is a FSC project under The Mendocino County Fire Safe Council (MCFSC), a 501.C3 organization. WHFSC has eighteen neighborhood sub-groups in and along the Western Hills that actively work on fire preparedness, prevention, emergency measures, and environmental protections.

The ISMND states that Mr. Hull generously donated 188.57 acres (ISMND, Figure 2, parcel 10) to the City in December 2020. On December 11, 2020, there was an article in the Ukiah Daily Journal by Justine Frederiksen praising the gift from Mr. Hull. There was no mention of the annexation and acquisition of 693 acres (ISMND, p.2) or 740 acres (ISMND, p.4, para 2) or 640 acres (ISMND, p.4, para 6) ("Hull Properties") when she interviewed City Manager Sangiacomo. On April 16, 2021, Notice of Intent was sent to a few Redwood Avenue and San Jacinta Drive property owners, and the scope of the project goes well beyond a land donation.

The improvements Mr. Hull has made to his property go back at least to 2015 (ISMND, page 3, #3-Background – road improvements were made throughout 2015-2017 and the road extended further west in 2018). Changes included widening, improving, and extending the westward access road, vegetation management on proposed construction sites, and preparation of the water tank site. These improvements were followed by the December 2020, 188.57 acre land donation, followed by the current proposed annexation and acquisition agreement.

The majority of the property is zoned PF, public facilities. It possible to change this zoning designation in the future to R1-H zoning (single family residential), should there be interest in further development. Clearly, the property was being prepared years ahead for development, as documented in the ISMND. Is it possible to change the zoning on the inside conservation PF zoned parcels (ISMND map p.13) to a Conservation Easement in perpetuity along with the outside conservation parcels for a Ukiah Wildlife Sanctuary?

Regarding the proposed water tank, in the ISMND, page 8, it is stated, "...the City desires to add new water storage <u>and</u> fire protection facilities in the Western Hills." What are the plans for the new water storage tank besides fire protection measures? Who will be responsible for maintaining the 150,000 gallon tank, pump, and well that supports the water tank? Is the water in this tank dedicated for fire department use or also for use of potential domestic purposes for the buildout? Will there be hydrants on the city water main extending up from Redwood Avenue? Neil Davis' responses to WHFSC questions to Mr. Sangiacomo regarding the Hull Properties Limited Development Agreement included a question on water resources. Mr. Davis stated, "...this project provides sourcewater protection and will benefit the entire Ukiah Valley by protecting the sourcewater and ensuring that it reaches its maximum potential." How does Mr. Davis define "sourcewater protection?"

Historical wildland fires in the Western Hills includes the substantial 1945 Hayworth Fire that took out all the vegetation. The Fire Department came to the edge of development and set backfires that halted the fires. The Strong Mountain Fire occurred in 1950, and another scare

about a decade ago was from 150 lightening fires to the west that didn't result in fire in the Western Hills. The proposed buildout area is in the CalFIRE designated Highest Fire Severity Zone, as well as in a Wildland-Urban-Interface (WUI) area. It would be prudent to keep this landscape free of human habitation for the safety of citizens and to not further overburden our fire resources. "One of the first and most important considerations is how the location itself influences exposure to wildfire and potential for future losses of life and property." (Moritz, Max, Butsic, Van, <u>Building to Coexist with Fire: Community Risk Reduction Measures for New Development in California</u>. UC ANR Publication 8680, April 2020, page 8)

The potential development parcels buildout of 14 units (ISMND, p.7, para 3) are west of the fire break thus defeating the purpose of the Shaded Fuel Break for wildfire protection measures. Can the residential development of the 54 easternmost acres be taken out of the Development Agreement, or are they inextricably linked to acquiring the conservation lands? Will the lower elevation properties also west of the shaded fuel break that remain in Mr. Hull's possession be considered for future buildout?

Thank you for your attention to these matters. We look forward to your responses.

The Western Hills Fire Safe Council Chair, Jeanne Wetzel Chinn, M.S. 395 San Jacinta Drive, Ukiah JeanneChinn@gmail.com

From:	Christopher Watt
To:	Michelle Irace
Subject:	Ukiah Western Hills Open Land Acquisition and Limited Development Agreement
Date:	Tuesday, May 18, 2021 11:25:40 AM

Hi Michelle - here are my comments/questions on the IS/MND. Please include in the record and provide responses.

- 1. Does the annexation require a tax-sharing agreement with the County of Mendocino? If so, what actions have been taken by the City to secure an access agreement?
- 2. Have the parcels proposed for development to be pre-zoned as Residential with Hillside Overlay been sized consistently with the Hillside Development Standards? If not, the parcels should be sized in accordance with the Hillside Development Standards and Subject to the Use Permitting Process and the Hillside Development Standards.
- 3. In 1991, the California Geological Survey prepared a report titled Landslide and Engineering Geology of the Western Ukiah Area, Central Mendocino County, California, Landslide Hazard Identification Map No. 24. Was this map consulted to determine the potential presence of landslide hazards with the parcels proposed for development and the access roads to the development? This report should be consulted and included as a reference in the IS/MND.
- 4. The California Building Code requires a Preliminary Soils Report for any subdivision of land. This project seeks to create parcels for development by lot line adjustment thus avoiding the requirements for subdivisions; however, given the known landslide hazards within the Western Hills as documented in the 1991 CGS Report, it seems imprudent to not perform a preliminary soils report to determine if the parcels proposed for development have soils or landslide hazards which would preclude development or at a minimum severely limit the development potential.
- 5. The Geology and Soils section of the IS/MND should also reference the requirement in the California Building Code to submit a Geotechnical Report for each lot.
- 6. The Wildfire section of the IS/MND indicates that fuel breaks are developed in the project area. However, fuel breaks requirement ongoing maintenance. The IS/MND does not describe how the fuel breaks will be maintained. Also does, the Ukiah Valley Fire District have capacity to defend the proposed development areas against wildfire given the Extremely High Fire Risk for the lands adjacent to the proposed development area? Why not subject these parcels to Wildland Urban Interface requirements? Perhaps include a benefit zone to pay for vegetation management and fire protection which is quite different from the urban parcels of the City.

Sincerely, Chris Watt 690 Mendocino Drive, Ukiah

From:	Jeanne Chinn
То:	Michelle Irace
Subject:	Comments on proposed Western Hills Annexation
Date:	Wednesday, May 19, 2021 1:36:38 PM

To Ukiah's Planning Commission:

I applaud David Hull for donating 188 acres of wildlands to the City of Ukiah.

I don't take issue with transferring several of his individual parcels to be annexed to the City of Ukiah. However, there are concerns regarding how the additional acreage is planning to be utilized: 296ac for Conservation Lands on the most western area, 343ac for Recreational (zoned PF-Public Facilities) Lands in an odd shaped "C" pattern, and 54ac as Development Parcels (zoned R1-H) on the northeastern corner, as shown and stated in the ISMND map legend on p.13. Who owns the 5 parcels between the "C" Recreational Lands, and what are the plans for these parcels?

The role of land use planning in communities with very high and high fire severity zones is to create wildfire resilience for protection of the community. CalFIRE has already supported this in calling out Ukiah's Western Hills as one of their 35 top projects in 2017. That alone tells us these Western Hills are fragile and at risk. CalFIRE's follow-through was exemplary in dozering the ridge tops and working with the County/City to re-establish and extend the Shaded Fuel Break from Low Gap Road to Robinson Creek Road.

The Western Hills is in a Wildland-Urban-Interface (WUI) area. Given the recent uptick in wildfires and drought years, to be further exacerbated by climate change into the future, it is counter-intuitive to plan a buildout of [up to 14] any more homes in the WUI/highest fire severity zone. Further, this buildout would be west of the Shaded Fuel Break, creating additional risk and expense to fire fighting resources and potentially life-threatening to the residents. These homes would be exclusive and a gated community. I'm not opposed to gated communities, and the City is also working on additional low and moderate income housing. However, in this case it is the Ukiah community whose tax dollars would pay for undergrounding plumbing and utility lines up to this area for the benefit of a few in a higher income category. And, who would pay for the maintenance of the 150,000 gal. water storage and fire facilities tank, pump, and well? It would be more appropriate to plan this gated community in a non-WUI area with a lower fire hazard zone rating where wild lands are not being developed.

In 2005, the Mendocino County Fire Safe Council (MCFSC) co-sponsored a report, the Mendocino County Wildfire Protection Plan. On page 86 in reference to the western hills of Ukiah, the report states the following:

"These hills have experienced large-scale fires since the turn of the century, with major fires occurring in 1950 and 1959. The City of Ukiah's encroachment into these hills since then has created the significant probability of a very destructive wildland interface fire." (https://firesafemendocino.org/wp-content/uploads/2015/02/CWPP-FINAL.pdf) At the most recent Paths, Open Space, and Creeks Commission (POSC) meeting, we were told there will be no infrastructure on the recreation lands, including no public bathroom facilities or parking areas for potential hikers & bikers. Who would be responsible for patrolling those areas to pick up cigarette butts and other trash, and keep transients from establishing camps?

As a Commissioner for POSC, I support protection of open space for wildlife. There is documented wildlife in the Western Hills that City Manager Sangiacomo mentioned at a POSC meeting over a year ago from footage taken on wildlife cameras. These wildlife include a mountain lion and her cub, bobcat, bear, fox, occasional coyote, many deer, and smaller mammals. In addition, Doolan Creek is a Class I watercourse that has steelhead trout and frogs, and there are Class II and Class III watercourses that likely have other aquatic species. These different wildlife species have overlapping territories and need landscape level space for their survival. I would like to see the Conservation and Recreational Lands be annexed together and retained as "Ukiah's Wildlife Sanctuary" and conserved in perpetuity. That would be a feather in the cap for Ukiah and our wildlife! Rather than further fragmenting the lands with hiking trails and e-bike paths, the accompanying noise, and recreation lands that can in the future be rezoned for housing, let's protect this area for nesting, denning, fawning, and a place for wildlife.

Sincerely,

Jeanne Wetzel Chinn, M.S. Commissioner, POSC May 19, 2021

TO: Michelle Irace, Planning Manager, City of Ukiah Community Development Department and Ukiah City Council Members

RE: UKIAH WESTERN HILLS OPEN LAND ACQUISITION AND LIMITED DEVELOPMENT AGREEMENT PROJECT

Here are comments and questions regarding the Draft Initial Study and Mitigated Negative Declaration (ISMND).

Traffic on Redwood Avenue This is a quiet cul-de-sac of approx. 20 properties.

• Additional traffic from fourteen (14) more residences would significantly negatively affect the quality of life of existing residents.

• Additional volume of traffic due to a 300+ acre Public Facility (park) accessible to the public according to Division 1, Chapter 12 of Ukiah City Code (see ISMND p. 42) would **severely** impact existing residents' quality of life. https://www.codepublishing.com/CA/Ukiah01/Ukiah0112.html

• In what circumstances are secondary access roads required by the Fire Code? Is a secondary access road available or planned for the proposed housing development?

#### Parking

If a Public Facility is established on the 343-acre Inside Conservation Parcels, where are its users expected to park their motor vehicles?

#### **Utilities**

Numerous statements in the ISMND suggest uncertainty that housing will be developed on the 54 acres (examples below). In view of this uncertainty, why is the City proposing to pay for extension of utilities to the site? And should this not be the future developer's responsibility?

"The Project does not propose any residential development at this time..." (p7)

"...sites would not be developed until an applicant submits a project site plan..." (p7)

"However, no purchasers have been identified, and the timing of the sale and development of the properties is unknown." (p7) "It is unknown whether all of the single family homes, and ADUs in particular, would be developed..." (p12)

#### Protected Open Space

If the City is going to preserve the Outside Parcels via a Council resolution (ISMND pp 5, 42-43), why not include the Inside Parcels also? This would effectively create valuable local wildlife habitat, and perhaps allow limited public access seasonally or by permit. (As an avid hiker and mountain bicyclist, I welcome new opportunities for recreation, but do not think this project is an appropriate location for a large public park.)

#### **Wildfire Risk**

Section V 11 of the ISMND (particularly p 43) discusses how the 14 housing units would constitute a portion of the City's Regional Housing Needs Allocation (RHNA). It is my understanding that the development site lies to the west (i.e., the "wrong side") of the shaded fuel break, as well as being in a zone of highest fire risk. How can this be considered a wise location for new housing?

Thank you for your attention.

Sincerely,

Andrea Vachon 537 Redwood Ave. Ukiah, CA 95482 avachon1@mindspring.com

### **Ukiah City Planning Commission**

300 Seminary Drive Ukiah CA 95482

5/18/2021

**Subject**: Ukiah Western Hills Open Land Acquisition and Limited Development Agreement

Honorable Members,

From November 2010 to December 2020, I was the CAL FIRE Battalion Chief for the Ukiah Valley area. During this period, I was responsible for the fuel reduction efforts in State Responsibility Area of the Ukiah Valley and surrounding areas.

I write to support the Ukiah Western Hills Open Land Acquisition and Limited Development Agreement and hope to provide some history and context to the fuel reduction efforts in the western hills of Ukiah and how it relates to this project.

Beginning in 2012 I began working with representatives from the City of Ukiah and private owners to discuss, plan and reduce the fire hazard and improve public safety in the Ukiah Valley. The westside was chosen for several reasons. There was no recent fire history, and little had been done to address the fuel loading. Access was limited with more residents in the wildland-urban-interface at risk. The western hills were nearly inaccessible to firefighting resources.

In the subsequent eight years we planned, funded and completed multiple projects that were too big for any one individual to complete on their own and met the standard of 'good for the community'. Through these projects multiple access routes have been developed for firefighting vehicles to use during a fire, landing zones constructed for helicopters to land, 435 acres of prescribed burn were completed, twelve miles of fire breaks constructed in 2015 and again in 2018. Nine miles of shaded fuel breaks were cut from Low Gap to Highway 253 continuing the work completed in 2002 and 2004.

These accomplishments were the result of three levels of government; City, County and State, dropping boundaries and jurisdictions, working in concert on a singular goal to reduce the risk of a catastrophic fire that have become all too frequent in the State. The fourth critical component that made it all possible was the property owners that allowed the work to be completed for the good of the community. The common denominator was the conclusion that vegetation fires were now a Ukiah community problem, not an individual problem, that put the entire community at risk.

Among the nearly one hundred properties that participated, one of the most critical properties is the "Hull Properties". From a firefighter perspective, they are kind of a key in middle that holds the three elements of the prevention work together- fire breaks, fuel breaks and prescribed burning. The Hull Properties provide access to the top of the western hill of Ukiah for fire resources that did not exist prior to 2018. This property is one of the few bisecting fire breaks, natural or man-made, on the western side of Ukiah. The roads and fire breaks are the foundation for future prescribed burns that reduce the fuel loading on the hills that have not burned since the late sixties.

All the work done since 2002 needs to be maintained and the work continue. I believe that the best way to maintain the roads, continue fuel reduction projects and reduce the risk of a catastrophic fire in Ukiah Valley, to have the City of Ukiah acquire the Hull Properties. The consolidation of the parcels under City guidance will allow for a single entity to manage the fuel reduction work, manage the watershed and reduce risk to the community.

It is my opinion that the proposed mid-slope development of the parcels would not add any additional risk to the community and may even reduce risk. There are many narrow, steep streets on the west side of Ukiah that present far greater risk due to development without wildland fires in mind. This development would benefit from the knowledge and experience in the current fire environment. Developed parcels are more likely to be maintained versus being converted to open space and dependent on the CAL FIRE funding and time to maintain.

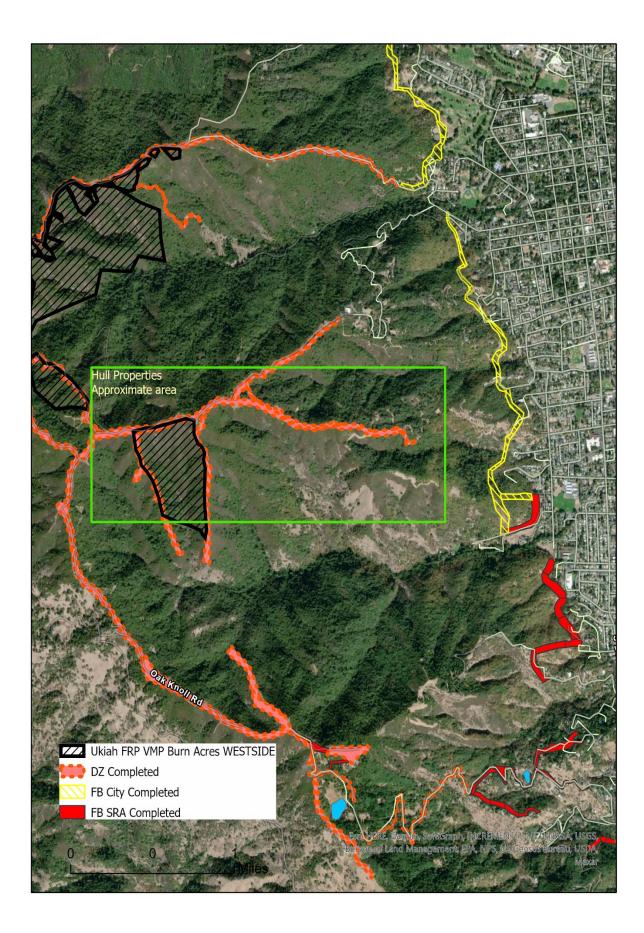
A homeowner would have a vested interest to maintain the property to a defensible space standard. Any improved road surfaces in the development would provide a permanent fire break and development of a water system could be critical to fire extinguishment on the west side of Ukiah. This development could be a model for the future that combines modern pre-fire planning with rural development at the landscape level expanding the current shaded fuel break.

There will be challenges and new responsibilities with annexation and I would hope the City would adopt road and clearance standards like PRC 4290 and 4291 for any development off the valley floor. The City would become the stewards for a large portion of the western hills and would be challenged to manage it appropriately. Based on my interaction with the City of Ukiah over the years and the community attention and concern, I believe the City is up to the task and I appreciate a new, local approach. We must think outside the box find new ways to engage at all levels to change the trend of the fires.

It is critical that the work to reduce the risk of a catastrophic fire continue to be a top community priority and worked on at the community level, not at the individual parcel or owner level. It is not realistic to expect individual owners to maintain what has been done. The City acquiring the Hull Properties will keep the western hills fuel reduction a viable community level project and will provide the best chance of continued success.

Thank you for your time and please do not hesitate if you have any question.

Michael Maynard



## Subject: comments of proposed Western Hills annexation

Date: May 19, 2021

**TO:** Members of the Planning Commission & City Council Members

My name is Sharron Thomas. I am a neighborhood representative on the Western Hills FireSafe Council, and the proposed Western Hills annexation was a topic of discussion at our recent meeting.

California is now headed into another drought, and the fire seasons over the last few years keep exceeding previous records. The proposed annexation includes 7 parcels for residential development, allowing up to 14 new homes. Emerging fire safe understanding suggests this kind of Wildland Urban Interface development is bad public policy, very risky for the potential home owners, and expensive for the community trying to protect that property.

Historic fires in the area burned down to the valley floor as far as Todd Grove Park in the 1950's. There is no reason to believe that the projected development wouldn't be completely destroyed by such fires happening in the future. The projected development is to the west of the recently completed Shaded Fuel Break, putting it in the expected sacrifice zone. The single road access will be a problem in a fire emergency, and will likely violate emerging CalFire regulations. Turnouts are unlikely to mitigate congestion for fleeing residents in such an emergency.

I urge you to take a serious look at the fire hazard being created, and revise the plans.

Sincerely,

Sharron Thomas

May 20, 2021

Dear Ms. Irace and members of the City of Ukiah Planning and Building Department,

I am writing to express my concerns and questions regarding the Ukiah Western Hills Open Land Acquisition and Limited Development Agreement Project. I have been a resident of Redwood Avenue for 11 years. During the last 4 years, I have seen many changes to our neighborhood.

The road that extends from the end of Redwood Avenue (first graded in 1960 per the draft study) should never have been constructed. It is overly steep, approaching slopes of 30% for much of its length. I realize that much of what has occurred up to this point in time was under Mendocino County's jurisdiction and we are now stuck with their poor planning. When I first saw this road, it was overgrown with vegetation, much of it native grasses, shrubs and forbs. The road bed was stable due to the vegetation that prevented erosion. When the new property owners started grading the road, there was significant erosion, sometimes resulting in mud running down Redwood Avenue and often resulting in significant mud on the road tracked by vehicle tires. The topography in this area prevents road widening or contouring to decrease the steepness of the road bed. It also prevents best practices in disconnecting the hydrology from road to creeks.

Redwood Avenue is in a small canyon that traps dust and smoke. There have been several times that I've looked outside, or have been returning home, and thought that the canyon was on fire only to realize that dust was thick in the air from travel on the dirt road. Burning in the lower canyon likewise results in smoke trapped between the ridges and there have been winter days when I'm sure our air quality and the ash floating in the air was as bad as some of our worst summer wildfire days. Any plans should acknowledge this aspect of the topography. What will be the regulations for burning on the lower elevations of annexed properties? What will be done to enforce speed limits to decrease dust? The study indicates that with development, the first ½ mile of the road would be paved, but I'm not sure how much activity will continue on the road before that would happen.

Steep topography increases the noise from vehicles traveling up the road. Noise is likely amplified by the encompassing ridges, but I think it is mostly the result of the low gearing needed to go up the steep hill. Trucks are often loud enough to wake us up at night. I am not sure how this can be mitigated. Traffic on narrow, short Redwood Avenue is already surprisingly heavy. I am disappointed to see plans that will cause an increase. When I first moved here, children commonly played on the street and it felt safe for them to do so.

The CEQA study indicates that the increased costs of providing fire and police coverage will be covered by development fees. I wonder about the logistics of the coverage when this will essentially be a locked gate community located on a very steep, very narrow road? I don't think we have a precedent for this in Ukiah?

Included in the Energy and Green House Gas Emission discussions in the study should be the consideration that the development will encourage vehicle fuel consumption due to the location of the housing. I disagree with the statement in the study that "The assumed low-density development pattern is consistent and contributes to the rural 'small town' character of the Ukiah Valley."

I encourage the City to complete the botanical studies as planned. The study states that at least one more site visit was recommended. I recommend that this be completed before CEQA is finalized. That may mean waiting another year as many plants bloomed early this year and have already withered.

There are year-round springs adjacent to the road and I have heard that there are others in the area. We have found giant pacific salamanders on our property that must be residents of the springs. I don't think the salamanders are a protected species but they are very unusual in the Ukiah Valley. I have found native snails that I think are also unusual, if not protected, and I wonder what other species might be residents of these springs? I hope the biological surveys included the areas around the creek drainage.

I worry about enforcement of some of the practices recommended in the report. In the last few years, I have seen trees removed during nesting periods without nesting surveys and wildlife corridors fenced; 2 practices that the study states will be prohibited.

The unnamed creek drainage that runs along Redwood Avenue should be treated as a wildlife corridor and a seasonal creek. The springs along the creek are an important water source for wildlife. I have this drainage affected by sediment flows from improper grading, poor culvert placement, bright lights, tree removal in the creek corridor, and recently, fencing of the creek, prohibiting wildlife passage. I am concerned that these trends will continue if there is not educated oversight. Some of this has been on county land and some within the city limits.

I believe this project has many desirable aspects if implemented as planned, primarily in protecting the views of western hills as well as protecting open space and watersheds. I recommend that information about the project be presented in a form that will be easier for the public to understand, with pros and cons transparently written out. I sincerely believe that if development is inevitable, it will be better managed by the City of Ukiah than the County of Mendocino while at the same time believing that the area is unsuitable for road building and development and that the county should never have allowed it to proceed.

Thank you for your consideration,

Andrea Davis 607 Redwood Ave Ukiah, CA 95482

From:	Kristine Lawler
То:	Michelle Irace; Maya Simerson
Cc:	Craig Schlatter
Subject:	FW: Western Hill Development
Date:	Thursday, May 20, 2021 11:22:14 AM

From: Margo Frank <margo@margofrank.com> Sent: Thursday, May 20, 2021 11:04 AM To: Kristine Lawler <klawler@cityofukiah.com> Subject: Fwd: Western Hill Development

Begin forwarded message:

From: Margo Frank <<u>margo@margofrank.com</u>> Subject: Western Hill Development Date: May 20, 2021 at 8:48:36 AM PDT To: <u>lauraem@sbcglobal.net</u> Cc: <u>mshilliker@comcast.net</u>, <u>roody@pacific.net</u>

Dear Ukiah Planning Commission Members,

I am at a loss to understand how the Ukiah Planning Department could even consider building homes with only one egress/access route in the Western Hills at this time. We know that this area is at high risk of fire devastation. Having homes in a gated community in heavily wooded hill land seems incredibly short-sighted.

As the planet warms and droughts in the West become the norm, we will all be at risk. When the City builds housing in vulnerable areas with only one way out, we mislead home purchasers, implying they will be safe. I also do not understand why this development would be a gated community, one that shouts "We are special, we need protection from the rest of Ukiah".

Please do not approve this development. If I am correct that the current landowner is demanding this development in order to create/donate the nature conservancy. parkland in the Western Hills then we are all being held hostage by him.

I urge you to look at the bigger picture, to consult with local fire chiefs before seriously considering approval of this project.

Thank you for serving on the Planning Commission.

Margo Frank 180 Gardens Ave. Ukiah, CA. 463-1834

From:	Kristine Lawler
To:	Michelle Irace
Subject:	FW: cc-ing you my note to the planning commission
Date:	Thursday, May 20, 2021 11:46:30 AM

From: Heather Seggel <heatherlseggel@gmail.com>
Sent: Thursday, May 20, 2021 11:26 AM
To: Kristine Lawler <klawler@cityofukiah.com>
Subject: cc-ing you my note to the planning commission

Ms. Lawler,

I should have copied you on this at the time, but here it is, for inclusion in the public record of comments. Thanks very much,

Sincerely, Heather Seggel

From: Heather Seggel <<u>heatherlseggel@gmail.com</u>> Date: 5/20/21 6:36 AM (GMT-08:00) To: <u>lauraem@sbcglobal.net</u>, <u>mshilliker@comcast.net</u>, <u>roody@pacific.net</u> Subject: western hills development

Dear members of the planning commission,

I'm writing to voice my concern about a planned development in the western hills of Ukiah. While I know the need for housing is dire, I have also lived through more stress and peril than I ever thought possible due to the wildfires that have ravaged our county. The location of this development seems like a double-whammy of negatives--it's beyond the reach of our fire breaks and in the path of potential fires, which means resources that can be used to save more populated areas will have to choose what to prioritize in the very literal heat of the moment. Let's create housing in areas that are easier to protect, and let the land rest where and whenever we can.

Thanks for your consideration, Heather Seggel 306A W. Church St Ukiah CA 95482 707-467-9067 **[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Michelle - see below. Another comment for you. -Chris

Sent from my iPhone. Forgive the brevity, typos and lack of nuance.

Begin forwarded message:

From: Thomas Hunt <thomashuntpe@gmail.com> Date: May 19, 2021 at 9:11:50 AM PDT To: mirace@cityofukiah.org Subject: Western Hills Open Space / Land Development Agreement

Michelle- Here are some additional comments prepared as a local resident in the vicinity of this project:

- 1. The proposed IS/MND appear to not comply with the criteria for lot line adjustments is that each qualifying parcel of a lot line adjustment must have a recorded certificate of compliance that the lot is a viable conforming lot, and was created prior to the Subdivision Map Act of in compliance with the Subdivision Map Act. To qualify for a Certificate of Compliance the existing parcel has to comply with Map Act and local development ordinances. The reconfiguration of parcels using the lot line adjustment method becomes a violation of the Subdivision Map Act if greater than Four parcel reconfigurations (LLA) are performed. A development of this nature should be required to prepare a tentative subdivision map, preliminary engineering of the access road, lot layout in conformance with the Hillside ordinance using accurate topographic mapping. If the proposed project is to be approved a final subdivision map would be in conformance with subdivision standards.
- 2. The proposed IS/MND appears to lack an analysis of the geologic slope stability

effects of a new road that meets Fire Safety Road Standards for width and turning radius, turnouts, and turnarounds on the existing hillside slopes. If the Road is to be private how is it to be maintained, or would the City except the roadway for public use and maintenance.

- 3. The proposed IS/MND does not address whether the existing City Utilities provide adequate sewer and water capacity for the proposed homes. The IS does not identify "Who" would own and maintain the water storage tank and booster pump(s) stations to serve the development, or what fire agency will protect these homes.
- 4. The proposed IS/MND does not address the following issues: The clearing limits of the Fire Safety zone around the homes, it is typically recommended by CalFire to clear a 100 foot radius, that is approximately a minimum of 1.2 acre per home. The proposed homes sites, plus roads, would clear over 10 acres of the last remaining unimprovement scenic hillside area left surrounding the Ukiah valley, and convert the scenic view of the native trees into homes and roads. This same area burned approximately 60 years ago in a wildfire and will continue to be a hazardous area even if developed. Allowing this development regardless of the fire safe clearing requirements around these proposed buildings would be unsafe for future residences, including the existing residences at the toe of the hillside, and irresponsible of a public agency to allow. Once you build homes in this area it will become increasing more difficult to control fuel loads because of the potential danger to the homes. The potential increase in the drainage runoff and erosion impacts of converting 10 plus acres of vegetated watershed into roof tops, driveways, roads and areas of cleared vegetation is not considered in the IS as any increase in runoff will end up in Mendocino creek drainage and the Redwood Avenue. The impact on these drainages may be significant to require the repair of failing culverts particular on Mendocino Creek at Mendocino Drive, the capacity of the Redwood Creek downstream drainage structures should analyzed as most of this drainage has be placed in culverts east of Helen Avenue.

Thank you for considering these issues.

Sincerely,

Thomas Hunt 420 Cochrane Ave Ukiah Ca 95482 Email: <u>thomashuntpe@gmail.com</u> Cell: 707-499-0152

From:	Steve & Jean Lincoln
To:	Michelle Irace
Subject:	opposition to more residences high in Ukiah"s western hills
Date:	Thursday, May 20, 2021 2:10:23 PM

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

### To: Ukiah City Planning Commission

We wish to express our strong oppostion to the proposed residential property parcels on the Hull property in the western foothills. It is our very great concern that it is simply too dangerous to build more residences in this area which is ripe for burning - especially as we experience an increase in the length of wildfire season with increased temperatures and reduced soil and vegetation moisture. We live at the base of these hills and, every day, see the tremedous fuel load that has accumulated on them since the last wildfires there in the 1950's. Not only would these new homes be in a very vunerable position with the shaded fuel break downhill from them, but, during a wildfire, they will take a large amount of firefighing efforts at a time when the higher density of homes downhill will probably also need much firefighting effort.

We trust you to make the wisest decision for Ukiah.

Thank you for your consideration,

Steve and Jean Lincoln 104 North Highland Ave, Ukiah

From:	Lantosca, Catherine M.@Waterboards
To:	Michelle Irace
Cc:	Filak, Jordan@Waterboards
Subject:	Regional Water Board Comments: City of Ukiah Western Hills Open Land Acquisition & Limited Development Agreement
Date:	Thursday, May 20, 2021 2:53:38 PM

## **[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Dear Michelle Irace,

Thank you for providing staff of the North Coast Regional Water Quality Control Board (Regional Water Board) the opportunity to comment on the Draft Initial Study/Mitigated Negative Declaration (IS/MND) for the Ukiah Western Hills Open Land Acquisition & Limited Development Agreement Project, SCH #2021040428. We offer the following comments based on our review of the IS/MND.

Our comments are focused on the planned infrastructure improvements and construction components of the proposed project, including plans to pave/improve existing roadways, construct new roads for access to the development parcels, extend underground utilities, and construct a City water tank, and how these activities might impact waters of the state.

California Water Code defines waters of the state as "any surface water or groundwater, including saline waters, within the boundaries of the state" (Water Code §13050 (e)). Projects that adversely impact waters of the state require permits from the Regional Water Board in the form of 401 Water Quality Certifications or Waste Discharge Requirements.

Regarding waters of the state in the IS/MND study area, the IS/MND's Biological Resources section contains information that conflicts with Attachment B, the Biological Assessment Report. IS/MND Biological Resources Discussion Section b-c (IS/MND page 25) says "no sensitive biological communities, including riparian habitat or wetlands, were observed within or immediately adjacent to the study area." However, the Biological Assessment Report (Assessment) identified six watercourses in the study area and did not definitively determine the presence or absence of wetlands in the study area.

With regard to wetlands, Assessment Section 3.4.2 Sensitive Biological Communities – Aquatic Resources states that a wetland delineation has not been performed in the study area (Assessment page 8). Instead, the Assessment referenced the United States Fish and Wildlife Service National Wetlands Inventory (NWI), which does not provide sufficient detail to determine the presence or absence of wetlands on at a property-specific level. The Assessment states that any wet areas onsite (which the Assessment defines as areas with hydrophytic vegetation and/or other hydrologic indicators) should be given the same protections as wetlands "until a wetland delineation is conducted to confirm the presence and extent of wetlands" (Assessment page 8). Please note that these hydrologic indicators are often difficult to identify during the summer and fall, particularly during a drought year. If the City of Ukiah determines that wetlands are present in the study area and that wetlands will be impacted by the project, a permit from the Regional Water Board will be required.

With regard to streams and riparian habitat, Assessment Section 5.1.2 Sensitive Biological Communities – Sensitive Aquatic Resources states that six watercourses were observed and mapped in the study area (Assessment page 16). These watercourses are depicted in the Assessment on a map titled "MCV2 Classification Map." These watercourses are considered waters of the state. The MCV2 Classification Map shows existing roads crossing several of the watercourses. The IS/MND states that the existing gravel access road will be paved to serve the future development sites, and new access roads may be constructed. Work within watercourses or in their riparian areas, e.g. installation of new culverts or replacement of existing culverts during road improvement/construction, requires permits from the Regional Water Board. If other construction activities, such as utility installation or water tank construction, will impact waters of the state, those activities will require permits too. If you determine that the proposed project will impact waters of the state, please contact the Regional Water Board prior to starting work to obtain the required permits. Impacts to waters of the state should be avoided or minimized as much as possible, and any unavoidable impacts will require compensatory mitigation. More information about the Regional Water Board's permitting can be found on our website:

https://www.waterboards.ca.gov/northcoast/water\_issues/programs/water\_quality\_certification/.

Thank you. Please contact me if you have any questions.

### **Catherine lantosca**

Environmental Scientist Southern 401 Water Quality Certification Unit North Coast Regional Water Quality Control Board 5550 Skylane Blvd, Ste. A Santa Rosa, CA 95403 P: (707) 576-2501 E: catherine.iantosca@waterboards.ca.gov City of Ukiah Community Development Department ATTN: Michelle Irace 300 Seminary Avenue Ukiah, CA 95482 May 20, 2021

Subject: Initial Study and Mitigated Negative Declaration for Western Hills Open Land Acquisition and Limited Development Agreement Project

Dear Ms. Irace,

We are very concerned about potential fire impacts from the proposed land development project in the western hills of Ukiah. The City of Ukiah would annex and acquire land for open space preservation in exchange for allowing the developer to develop seven residential parcels with the potential for two houses per parcel or 14 total houses. While the project has fire protection benefits (open space preservation), the potential for residential development raises serious fire safety concerns in the western hills of Ukiah.

The project area is in a very high fire hazard severity zone. With an increased frequency of drought conditions and impacts from climate change, the probability of a major wildland fire increases in the western hills of Ukiah. In 2005, the Mendocino County Fire Chiefs' Association, including the California Department of Forestry and Fire Protection (now Cal Fire) published a report, the Mendocino County Wildfire Protection Plan. On page 86 in reference to the western hills of Ukiah, the report states the following:

"These hills have experienced large-scale fires since the turn of the century, with major fires occurring in 1950 and 1959. The City of Ukiah's encroachment into these hills since then has created the significant probability of a very destructive wildland interface fire."

The parcels currently lie outside the city limits and city utilities are not available – power, sewer, water. Once annexed, the parcels will have access to city utilities with the ability for new development to connect to those utilities, increasing the likelihood for future residential development in the western hills.

We live at the end of San Jacinta Drive and adjoin one of the parcels in the project. We are in close proximity to the project and with the increased number of wildland fires in northern California over the last several years, we are very concerned about the increased potential of a wildland fire in our area. We urge you to take a serious look at the potential fire hazard created by the proposed project and the potential for future development beyond the current project.

Sincerely,

John and Delynne Rogers,

Members of the Western Hills Fire Safe Council

### Comments on the ISMND May 20, 2021

Submitted by Pinky Kushner 504 N. Oak St., Apt #1 Ukiah, CA

I thank you for allowing me to comment on the environmental assessment document for the Western Hills project.

1. For the portion of the Conservation Parcels located outside of the SOI ("Outside Conservation Parcels," consisting of approximately 296 acres), the City will ensure that they remain preserved as open space through City Council resolution or other means, rather than prezoning them PF. Proposed Parcels 8 and 10 would effectively be "split zoned"; the portion within theSOI would be prezoned PF, while the remaining portion outside of the SOI would not be prezoned, but subject to a conservation easement, or other City Council action prohibiting development and preserving it as open space.

The language in the underlined section is weak and/or unclear. The land "<u>will be subject</u> to ...easement or other City Council action." The document should specify that this land will be dedicated open space in perpetuity by the City. By saying it 'could be' put into a conservation easement implies that the ownership of the property will not be the City and could be a private party. Thus the city might not be gaining the proposed proposed promise of open space with approx. 640 acres, only approx 340 acres.

2. "City-owned parcels proposed for annexation are not required to be located within the City's SOI. City-owned parcels can be located anywhere in the County as long as they are less than 300 acres, owned by the City, and used for municipal purposes at the time of the annexation application."

It is not clear how this project satisfies any of those limitations. In fact it seems clear that none of the provisions are satisfied. The property that is proposed to be designated PF, will not be for municipal purposes in the ordinary legal meaning of the word "municipal." In order to be designated as 'municipal', the City should assign the area, the entire 640 acres, as a protected natural area in perpetuity. The proposed designation of PF could be changed by the current or any future City Council.

3. Leapfrog development: The City should demand a codicil to the private road access that will require that a keyed entrance gate be built on the road at the entry to the developed (housing) area and also at the distal end of the developed (housing) area. Furthermore, no third party, other than the owners of the developed housing and the City, can be given rights to trespass those two gates.

Without such a codicil, it is obvious that this proposed development will be able to leapfrog further development into the County property that lies further to the west along the roadway. These further lying parcels are designated County lands, and any development/construction will not be subject to City of Ukiah's reviews and will be without City limitations (as mentioned in the neg dec in the argument for the present annexation). It is egregious that the potential for leapfrogged development is not even mentioned in the 'neg dec.'

4. Aesthetics: The view shed of the City of Ukiah is unique and beautiful. Ukiah, derived from native language meaning 'deep valley,' indeeds lies in a narrow deep trough, approximately 2 miles wide and 20 miles long. Standing in the flat mid-point, one sees these 20 miles of wooded hillsides on either side. This project will affect this view in a deleterious manner, removing native vegetation, adding roads, lights and paved areas, in the south-western hills, in addition to a large 30' high water tank. This project for up to 14 dwellings, presumably large imposing houses with large, turn-around driveways, and lights, will be a significant blow to Ukiah's unique view shed. The potential damage is not "less than significant." Moreover, painting a house 'earth-tones' is not adequate mitigation for forest removal.

5. Forestry Resources: According to the ISMND the project should evaluate "forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board." No data have been provided. CO2 levels continue to increase in the Ukiah Valley. The removal of forests will add to the carbon increases. This effect cannot be said to be less than significant unless carbon measurements are established. In order to 'neg dec' the project, current, pre-project baseline data must be measured. The heat effect of forest removal must be evaluated.

6. Air Quality: The removal of forest and the on-going and continuing increase in carbon may contribute significantly to the atmospheric inversions that occur routinely in the Ukiah Valley. This issue cannot be said to be less than significant unless data about the Valley's atmospheric inversions are calculated. No data are found in the 'neg dec.'

7. Biological Assessment: This report is inadequate and cannot be said to evaluate the biological features of the project. At the beginning of the document prepared for the assessment, Jacoobzooms and Associates state, "A site visit was conducted on February 5, 2021. A botanical survey was conducted on March 30, 2021. Additional botanical survey results will be amended in once completed." This statement is clear—the biological assessment at the present is inadequate to support the neg. dec. Interspersed in the document, the authors admit that they did not evaluate the plants and animals sufficiently. For example, birds of interest may be nesting, but not during February; plants of interest may appear but not be observable on March 30. And so on. The neg dec is incomplete since the biological assessment has not been completed.

I believe the assessment only reviewed the 55 acres for housing development. Am I wrong? What about the rest of the acreage in the annexation project? The large acreage, described as 640 acres at one point but not consistently, has not been

surveyed. Yet the project will *allow* (some might say promote) the roadway to access not only the area proposed for development, but also the further Western Hills. This is not a mere city lot with only traffic and noise to worry about on a small acreage. The acreage of the project is almost as large as Golden Gate Park in San Francisco and deserves a thorough biological assessment done in various seasons of the year for the entire project area.

8. Fire: It appears that a portion of the area proposed for housing lies beyond a firebreak. How is it justified to propose development beyond the fire-break?

Relative to this project are the following questions for a neg dec analysis:

What is the potential for a firestorm in the Western Hills? What is the history of firestorms in the Western Hills?

What is the state of drought in the Ukiah Valley? Has this drought increased the fire potential in the Western Hills?

Does the proposed development, occurring in a naturally wooded area increase, decrease or have no effect on the potential for fires? On the potential for a fire storm?

What is the moisture content of the soil annually in the summer and fall months? Will the roadway increase or decrease the moisture content of the surrounds?

What will be the speed of the fire's path were there to be a Western Hills fire originating in the project area?

9. Feasibility: What is the likelihood of any home development in a fire-prone acreage in the Western Hills? Will there be fire insurance for the developers/new home-owners? How will this development project be different from the homes in Deerwood that cannot get fire insurance?

10. Location and site plan: The maps are inadequate and not well integrated into the context of the document. There are no topographical maps. This is in spite of the fact that the site has very steep slopes. The slopes should be described precisely with the various grades of the roadway and possible driveways included. For fire management and the water tank accessibility these data are very important in an environmental assessment. The maps should have better satellite over-lays, with more indications of where the roadway and driveways will be located, complete with fire vehicle turn-arounds, etc. The photos included in the biological assessments are described only as "to the south" or "to the west", with no indication as to geographical or topographical whereabouts.

11. Land Use Planning: The goal of the City of Ukiah is densification, not suburban sprawl. This project is suburban sprawl. What is the mitigation? What is the justification?

12. Alternatives: an EIR is required to have alternatives, including a no project alternative and other alternatives that achieve the same or equal provisions.

a. Housing: Recently, the Ukiah Planning Department sponsored a public review of housing possibilities within the current boundaries of the City of Ukiah.

Where are the results of that review in this environmental evaluation and why don't the areas identified satisfy the needs for housing/development, even at all ends of the housing market? The Western Hills proposed project is clearly for the high end market. What is the need for high end housing in a fire prone area when those needs can be met within the existing boundaries of the City where the infrastructure improvements exist with good roads, good sidewalks, bike paths, trees, and parks?

b. Water: The water tank is said to help with supplying water to the southwestern portion of the City.

Alternative sites for the water tank must be identified, sites that are more accessible to more developed areas of south Ukiah and to a larger population of residents. The proposed site must be evaluated for efficiency and sufficiency in providing water to the urban population and for its use should a fire in south Ukiah occur, relative to other sites closer to the already built-out urban area.

# MENDOCINO

### **Local Agency Formation Commission**

Ukiah Valley Conference Center | 200 South School Street | Ukiah, California 95482 Telephone: (707) 463-4470 | E-mail: eo@mendolafco.org | Web: http://mendolafco.org

May 20, 2021

Michelle Irace Planning Manager, City of Ukiah 300 Seminary Avenue Ukiah, CA 95482

RE: Responsible Agency Comments regarding the City of Ukiah Draft Initial Study and Mitigated Negative Declaration for Ukiah Western Hills Open Land Acquisition and Limited Development Agreement Project

Dear Ms. Irace,

We have reviewed the Draft Initial Study and Mitigated Negative Declaration for the Ukiah Western Hills Open Land Acquisition and Limited Development Agreement Project and identified the following items as a Responsible Agency related to the annexation component of the proposed project.

### Further Growth Inducing Analysis for Annexation Component

In order to fully address the annexation component of the proposed project, the Initial Study needs to further analyze the change in development potential of the annexation area from current conditions.

This involves identifying and comparing the maximum development potential under current conditions (County General Plan/Zoning and Ukiah Valley Sanitation District service) and the proposed project development potential (Boundary Line Adjustment, City General Plan/Prezoning, and City services).

The proposed project development potential of 7 Single-Family Dwelling Units and 7 Accessory Dwelling Units identified for the Development Parcels appears appropriate based on the Development Agreement, and may result in an overall reduction of environmental impacts or environmental benefits from the clustered development design, when compared with the current conditions.

Since there is no development anticipated for the Noguera properties, the development potential of these parcels would be the maximum development potential under both current conditions (County General Plan/Zoning and Ukiah Valley Sanitation District service) and the proposed project (City General Plan/Prezoning and City services).

The comparison of current and proposed development potential for the Conservation Parcels may result in an overall reduction of environmental impacts or environmental benefits from long-term conservation and associated natural resource and land management activities.

#### Further Municipal Service Analysis for Annexation Component

In order to fully address the annexation component of the proposed project, the Initial Study needs to further analyze the provision of municipal services.

This involves a comparison of current system capacity, anticipated service demand of the proposed project based on development potential, and the City's ability to serve the proposed project based on

available capacity and project demand. While not necessarily applicable to the proposed project, in situations where service expansions or improvements are needed to address the proposed project, the potential environmental impacts of such expansion and/or improvements should also be analyzed.

### Prezoning

The Outside Conservation Parcels are subject to Prezoning pursuant to GOV §56375(a)(7) and should be addressed in the Initial Study.

### **Concurrent Detachment**

Please modify the proposed project to include detachment of the annexation area from the Ukiah Valley Sanitation District, to address jurisdictional overlap and duplication of municipal service issues, and potentially County Service Area 3 if duplication of municipal services is applicable.

Based on interest expressed from City of Ukiah staff in support of a proposed Ukiah Valley Fire District annexation of City Limits, per LAFCo Pre-application No. P-2020-03, concurrent detachment from the Ukiah Valley Fire District does not appear appropriate at this time.

By addressing the above items in the Initial Study, the Mendocino Local Agency Formation Commission will be able to rely on the City's CEQA Determination in consideration of the annexation proposal. Please note that we are available to assist in modifying the Initial Study to address these items.

Please feel free to contact me if you need additional information or have any questions.

Sincerely,

Amathin

Uma Hinman Executive Officer

Cc:

Craig Schlatter, City of Ukiah Community Development Director

From:	Kristine Lawler
To:	Michelle Irace; Maya Simerson
Subject:	FW: ISMND and proposed project
Date:	Friday, May 21, 2021 7:44:27 AM

**From:** Helen Sizemore <helensize@gmail.com>

Sent: Thursday, May 20, 2021 9:55 PM

To: Kristine Lawler <klawler@cityofukiah.com>

**Cc:** Laura Christensen <lauraem@sbcglobal.net>; Mark Hilliker <mshilliker@comcast.net>;

roody@pacific.net

**Subject:** ISMND and proposed project

**[EXTERNAL EMAIL]** DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Kristine - please forward to City Council Members. TY

To the Planning Commission and the City Council:

I am very concerned to hear about the development of a small gated development in the western hills, at Redwood Avenue.

There is a housing shortage in California and in Ukiah. It would be so much more appropriate to construct condominium

housing. Your future vision must consider our climate changing, drought emergency prone times. Continuing the economic and

cultural division in our town is not vision it is backward thinking.

A gift of land to the city does not have to be given back to the wealthy. The clustering of a condo project would be more easily defended from fire threat and be less damaging to the hillside when putting in utilities.

Ukiah can be the change we need. Single family housing is so last century.

Thank you, Helen Sizemore