Creating a CNDDB Record Search A Step-by-Step Guide



Off-Highway Motor Vehicle Recreation Division

Grants and Cooperative Agreements Program

2024



Purpose of this Guide

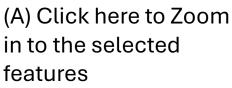
 To provide Off-Highway Motor Vehicle Recreation (OHMVR) Division Grant Applicants with step-by-step instructions on how to use the California Department of Fish and Wildlife's (CDFW) Biogeographic Information & Observation System (BIOS) 6 Public Viewer to conduct a California Natural Diversity Database (CNDDB) Record Search.

Why do a CNDDB search?

- Is one of the <u>standardized methods recommended by CDFW</u> for searching proposed project areas for listed and/or sensitive species
 - Allows for <u>assessment of any potential risk factors</u> to special status species or sensitive habitats from proposed project activities.
- Provides valuable information for answering questions within a OHMVR Division Grant Application:
 - Habitat Management Plans (HMP)
 - HMP Part 1
 - Question #2
 - ITEM #2 Justifications
 - Environmental Review Data Sheets (ERDS)
- Helps identify which sensitive resources (Wildlife, Plants, Habitats, etc.) have been documented and confirmed in or near a proposed project area.

Before You Start

- CNDDB's BIOS 6 Public Viewer is <u>completely free</u> to use and <u>does not</u> require a CNDDB Subscription or a CDFW Login.
- Is a great resources management tool for understanding what sensitive species and/or resources have been known to occur within or near a proposed project area.
- Google Chrome and Mozilla Firefox are the preferred web browsers for using BIOS 6 for CNDDB searches.
- This guide will use colored boxes, arrows, and lettered steps to help direct you to where on the screen a specific step applies and in what order.
 (B) Click here
 - For Example:





to download your species table

Step 1 (A,B): Access the BIOS 6 Public Viewer

(A) You can access CDFW's BIOS Web Page by either clicking on this link or typing in your web browser's address bar:

https://wildlife.ca.gov/data/BIOS

You can also type "*BIOS* 6" into your internet search browser and it should be the first link that pops up in your search results.

(B) Once there, click on the blue "*BIOS 6 Viewer* (*Public & Secure*)" button located here on the page.

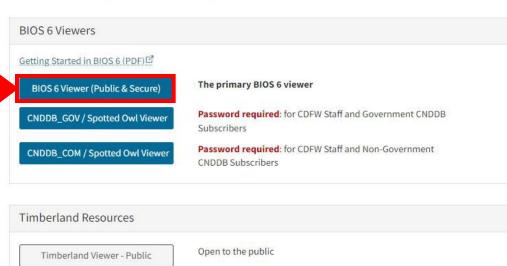
<i>Cl</i> eov				Login About CDFW	Contact INHUNCED BY C	ioogle Q 🕀	
California Department of Fish and Wildlife	Ame Home	Fishing	Hunting	Licensing	S Conservation	Learning	



Biogeographic Information and Observation System (BIOS)

BIOS is a system designed to enable the management, visualization, and analysis of biogeographic data collected by the California Department of Fish and Wildlife and its Partner Organizations. In addition, BIOS facilitates the sharing of those data within the BIOS community. BIOS integrates GIS, relational database management, and ESRI's ArcGIS Server technology to create a statewide, integrated information management tool that can be used on any computer with access to the Internet. For additional information about the CNDDB and Spotted Owl Observations Database, visit their web pages. A full BIOS 6 User Guide (PDF)^[2] is available for use, as well as a condensed version of basic functions to get started (PDF)^[2]. If you have questions about BIOS 6, you can submit them to BIOS@wildlife.ca.gov.

BIOS Viewers - Use Edge[□] or Chrome[□] for best performance.



BIOS 🥖

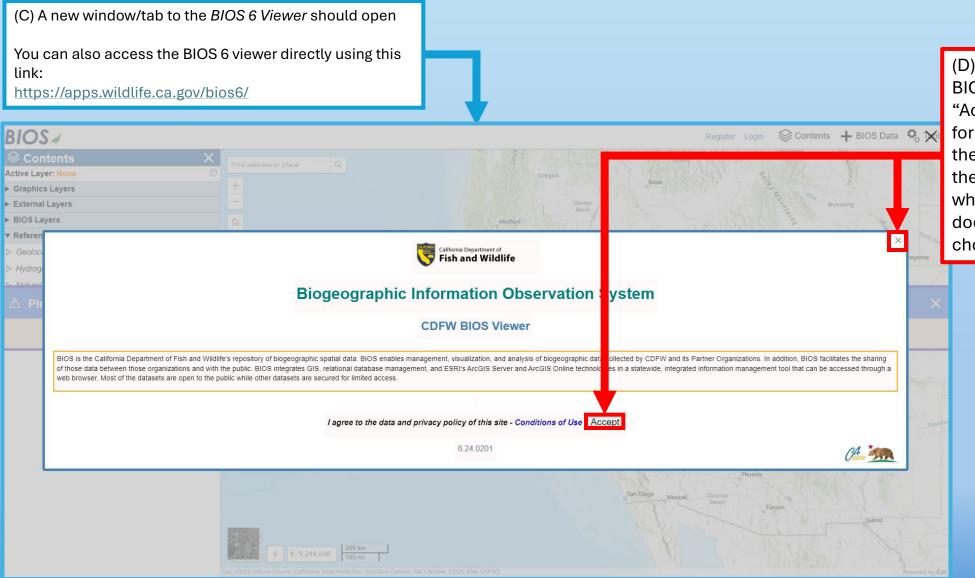
BIOS

About BIOS

- BIOS / CNDDB Training and Tutorials
- Data
 - Public Datasets
 - Contract Language
 - Submitting Data to BIOS
 - How are CNDDB and BIOS related?
 - Field Survey Protocols
 - Citing BIOS Layers
- Partners

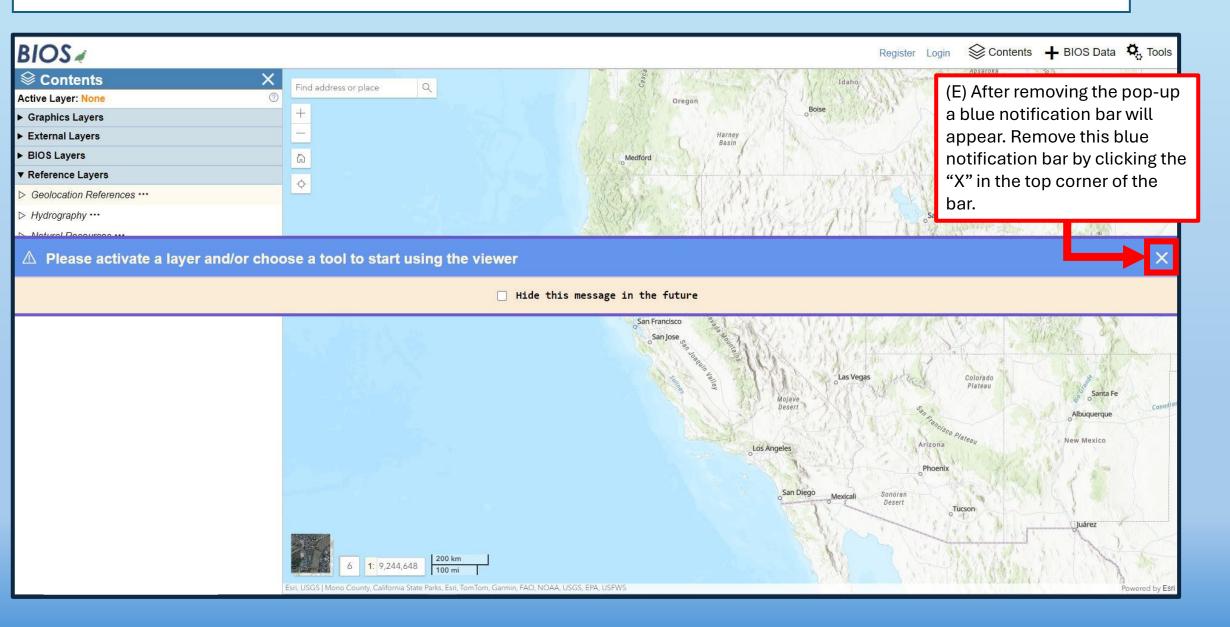
Contact BIOS Staff

Step 1 (C,D): Access the BIOS 6 Public Viewer

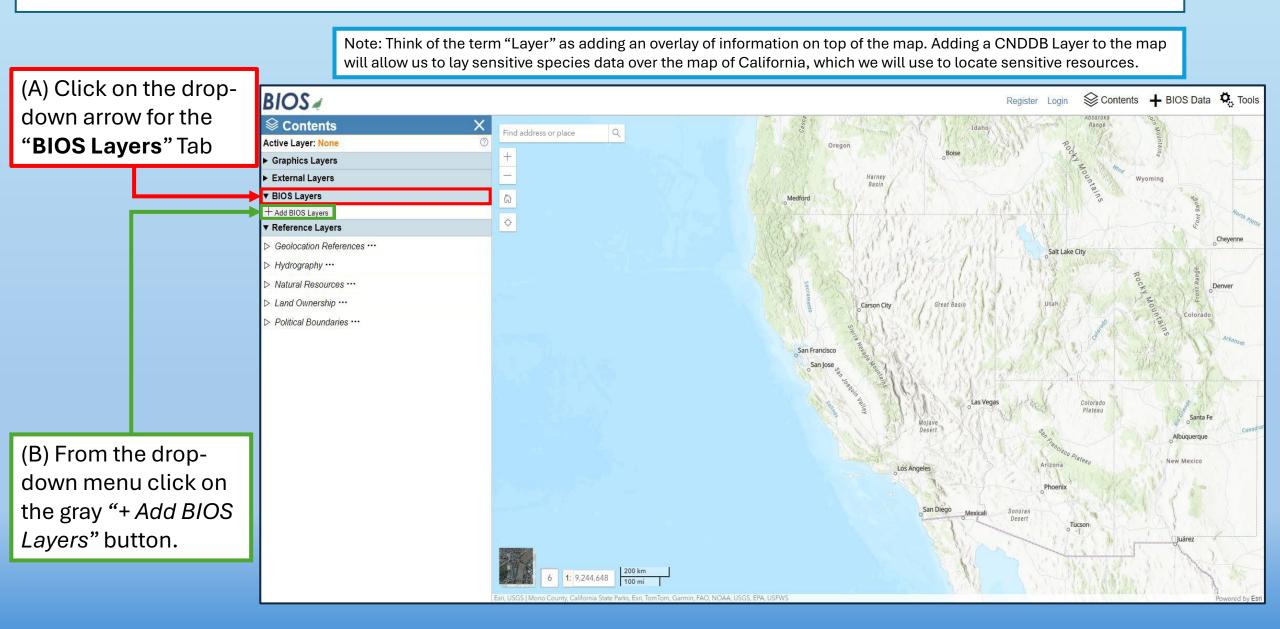


(D) Once the window is opened a BIOS pop-up will appear. Either "Accept" the *Conditions of Use* for the *BIOS 6 Viewer* or close out the pop-up by clicking the "X" in the top right corner. Click whichever one you want as it does not matter which one you choose.

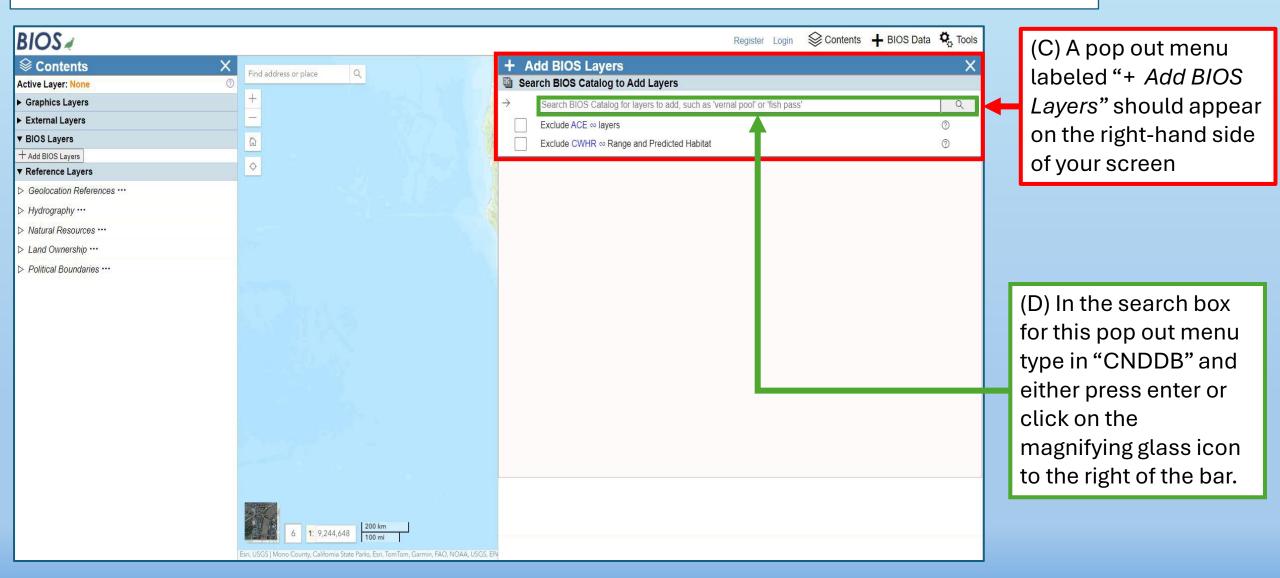
Step 1 (E): Access the BIOS 6 Public Viewer



Step 2 (A,B): Adding a CNDDB Layer to the Map



Step 2 (C,D): Adding a CNDDB Layer to the Map



Step 2 (E,F,G): Adding a CNDDB Layer to the Map

BIOS Contents Active Layer: None Graphics Layers External Layers HOS Layers Add BIOS Layers	Find address or place + - •	Register Login Search Bios Catalog to Add Layers → CNDDB	BIOS Data 🎝 Tools	(E) Once you type in "CNDDB" and click on the magnifying glass. A list of results should pop up
Reference Layers Geolocation References ····		Add DSID Dataset Name	Pub Feature Type 🔺	below.
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Natural Resources ····		2 2853_CNDDB-tracked Elements by Quad Ids28531	A polygon M	
Land Ownership ····		3 40 1023 Acorn Woodpecker Habitat Model for NSNF Connectivity CDFW [ds1023]		
▷ Political Boundaries ····		4 1231 Amargosa River Pupfish Range - FSSC [ds1231] 5 1024 Arboreal Salamander Habitat Model for NSNF Connectivity - CDFW [ds1024] 6 2937 Bald Eagle Observations Generalized [ds2937] 7 1008 Black Bear Habitat Model for NSNF Connectivity - CDFW [ds1008] 8 1031 Black-tailed Jackrabbit Habitat Model for NSNF Connectivity - CDFW [ds1031] 9 3079 Bumble Bee Watch Observations - California - CABBA [ds3079] 10 1036 California Kangaroo Rat Habitat Model for NSNF Connectivity - CDFW [ds1036] 10 1032 California Quail Habitat Model for NSNF Connectivity - CDFW [ds1032]	Image: Constraint of the second s	(F) From the list find the one labeled "CNDDB-tracked Elements by Quad". It is usually 2 nd on the list.
N. t. D. c	6 1: 9,244,648 200 km 100 mi Esri, USGS I Mono County, California State Parks, Esri, TomTom, Garmin, FAO, NOAA, US	12 13 + 1035 Coast Horned Lizard Habitat Model for NSNF Connectivity - CDFW [ds1035]	Image: Contract of the second sec	(G) Click on the " + " button to the left of it to add it to the map.

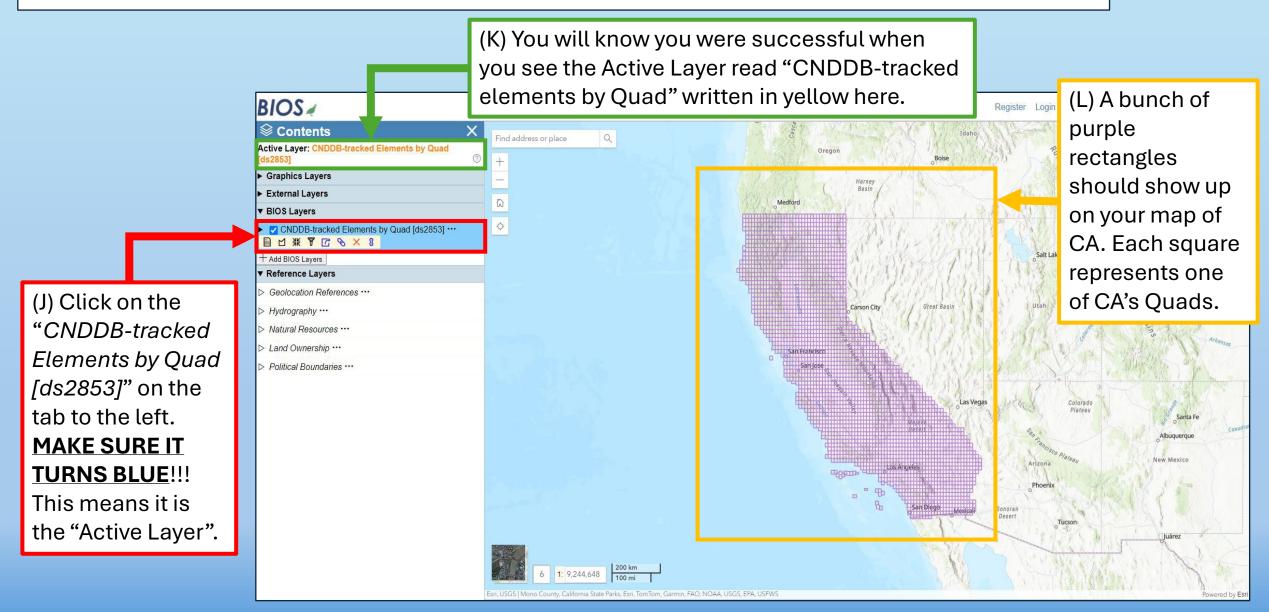
Note: Be sure to select the **<u>BY QUAD</u>** option as this is the most accurate way to map find resources within or adjacent to your project area. The other option "By County" will give you every sensitive resource found within the county where your project occurs and possibly some adjacent counties depending on your search/project area.

Step 2 (H,I): Adding a CNDDB Layer to the Map

(H) A new tab should have appeared under the dropdown menu on the left-hand side of the screen labeled *"CNDDB-tracked Elements by Quad [ds2853]"*.

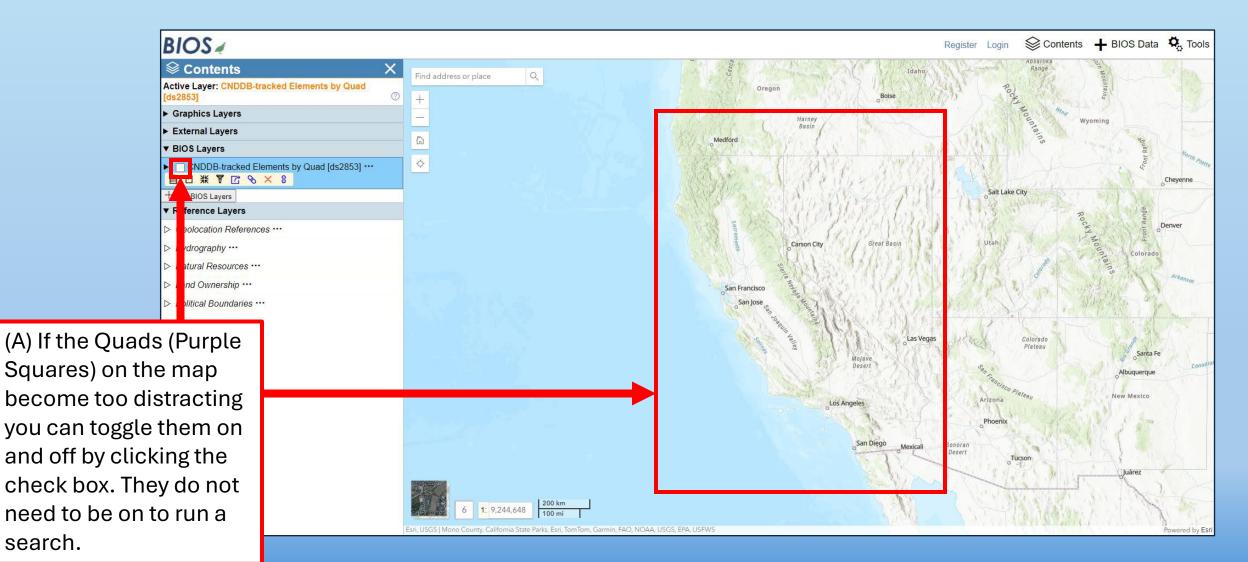
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			9	+	3079 Bumble Bee Watch Observations - California - CABBA [ds3079]		d Bios La		•
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			13	+	1035 Coast Horned Lizard Habitat Model for NSNF Connectivity - CDFW [ds1035	mer	iu		
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Step 2 (J,K,L): Adding a CNDDB Layer to the Map



Step 3 (A): Mapping the Project Area

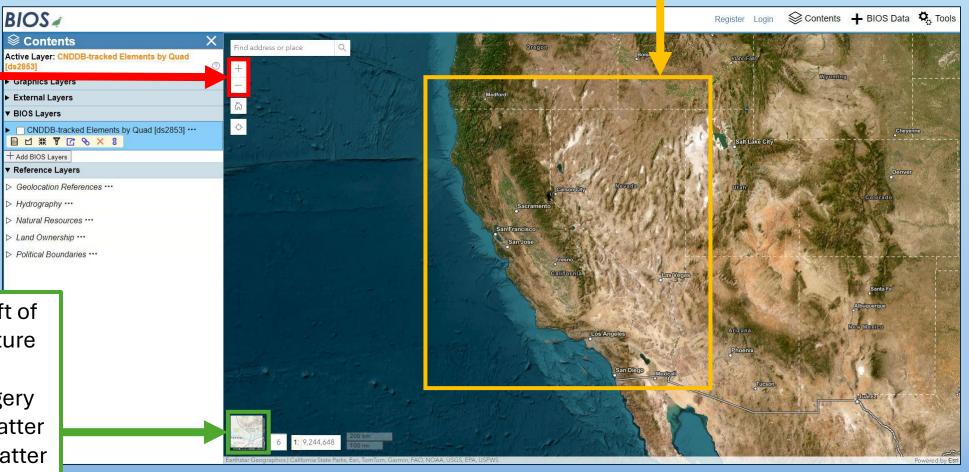
search.



Step 3 (B,C,D): Mapping the Project Area

(D) You can grab the map and move it by clicking and dragging using your mouse cursor.

(B) Zoom in and out using either your mouse wheel or the plus and minus buttons in the top left corner of the map.



(C) Click the bottom left of the map where the picture is to switch between a topographic or an imagery basemap. It doesn't matter which is used, just a matter of preference.

Step 3 (E,F): Mapping the Project Area

(F) Once fully zoomed inselect the "Tools" tab in thetop right corner of the screen.

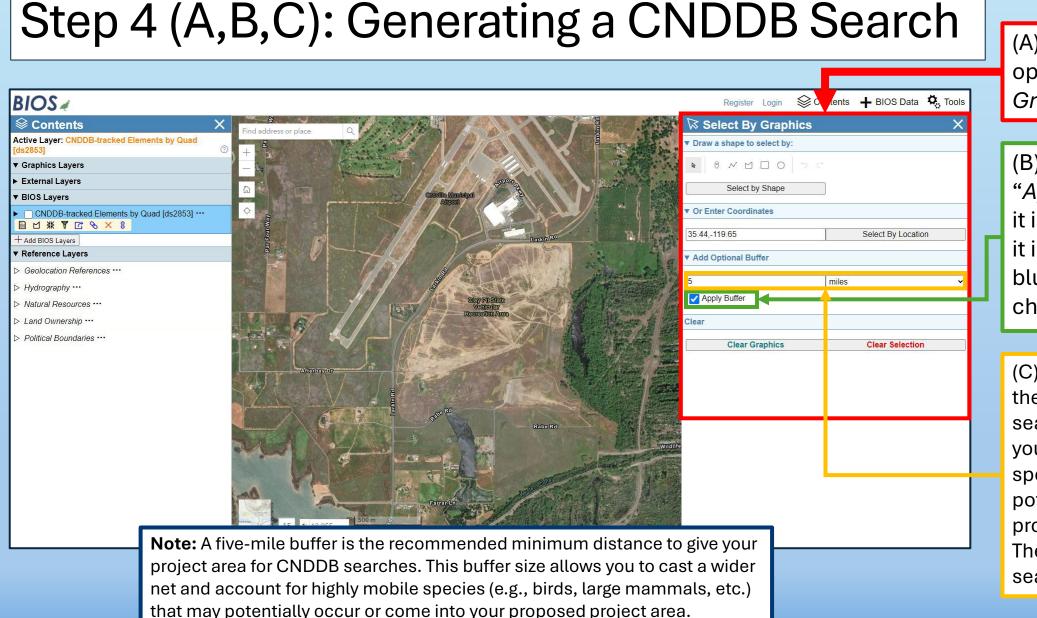
(E) Zoom in to your proposed Project Area using the tools in the top left corner and/or your computer mouse.



Step 3 (G,H): Mapping the Project Area

(G) This will open up the "Tool List" Menu.



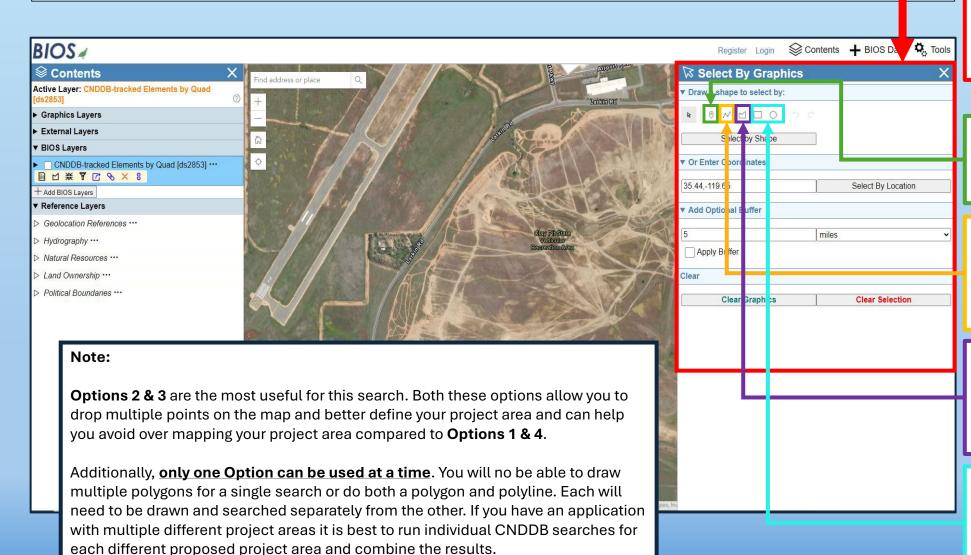


(A) Clicking this will open the "Select By Graphics" menu.

(B) First toggle the *"Apply Buffer"* so that it is on. You will know it is on when the box is blue with a white checkmark.

(C) Next select the size of the buffer area for your search. A buffer allows you to account for any species that can potentially enter your proposed Project area. The standard for CNDDB searches is 5 miles.

Step 4 (D): Generating a CNDDB Search



(D) There are a number of options for mapping your proposed Project Area. Select whichever one you think would be best suited to map your proposed project area. The options are as follows:

Option 1: Point – Drops a single point at a single location. (Not recommended)

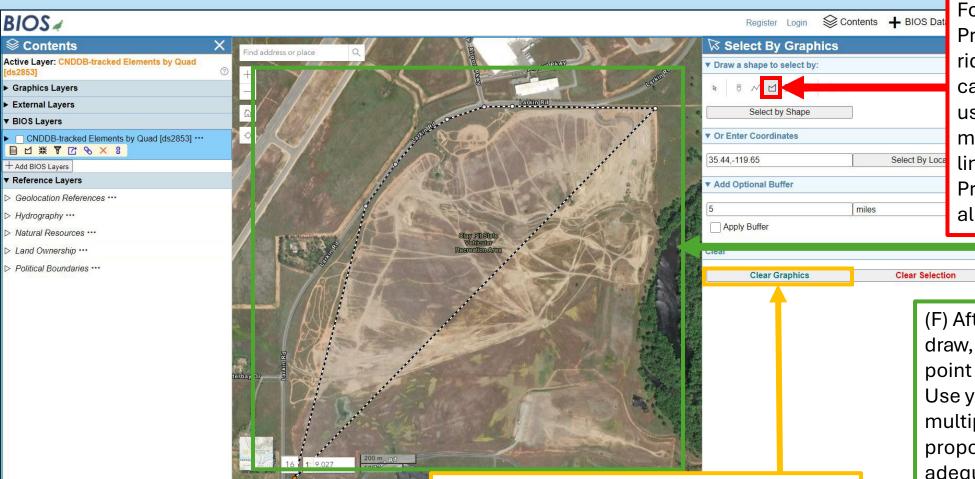
Option 2: Polyline – allows you to draw a single line with multiple points. (Recommended for trails)

Option 3: Polygon – allows you draw any shape (Recommended for large nonlinear project areas).

Option 4: Square and Circle – Allows you to drop a large square or circle on the map (Not recommended).

Step 4 (E,F,G): Generating a CNDDB Search

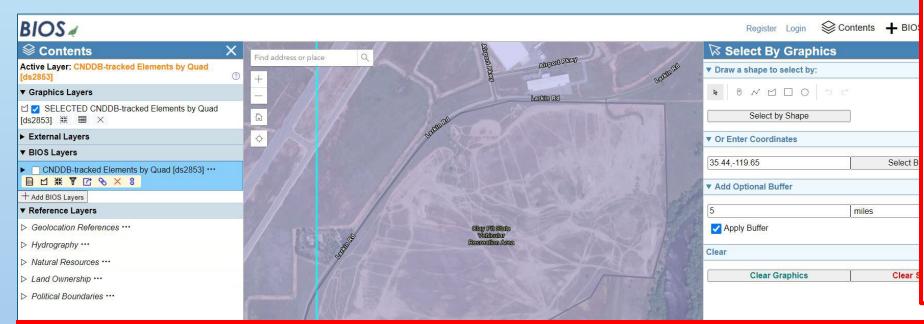
(E) Draw or trace your project area.



For this guide, our Proposed Project Area is a 220-acre open ride OHV park in Oroville, CA called Clay Pit SVRA. We will use the "*Polygon*" option to map this area as it is nonlinear, and the Proposed Project will occur in or around all 220-acres.

(G) If for any reason you accidently double click or want to remap the area you can click on the "*Clear Graphics*" button to start over. (F) After you select your shape to draw, click on the map to drop a point for the polyline or polygon. Use your mouse to click and drop multiple points until you feel your proposed Project has been adequately mapped. When you're done double-click your mouse to drop the last point.

Step 4 (H): Generating a CNDDB Search



(H) Once you drop your last point BIOS 6 will then automatically run a CNDDB Search based on your project area and buffer region.

A table will pop-up at the bottom of your screen. This table includes all of the recorded occurrences of sensitive resources within your proposed project area and buffer region.

	-tracked Ele	ments by Q	uad [ds2853]	(4 features) (148 related	records) 柴 日 🗘									^ X
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1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC		39 <mark>1</mark> 2145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondii
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	2	(a)	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	1000 C	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	2	(a)	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	5		3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
6 7 4 5	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	39 <mark>1</mark> 2145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
7 745	3912145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	8.701	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
8 745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
9 745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis	California black rail	ABNME03041	None	Threatened	FP	325	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus

Step 4 (I,J): Generating a CNDDB Search

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1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC	а.	3912145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spe hammondii	a
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010		None	-		3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias	-1
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	4	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba	
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	~	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula	
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	23	52	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax	
6 745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	đ	3912145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus	
7 745	39 <mark>1</mark> 2145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus	
8 745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	4	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainson	ni
9 745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis	California black rail	ABNME03041	None	Threatened	FP	87	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus	-

(J) You can also view the total number of reported occurrence records from your search here. "*Features*" is the number of quads that were searched, and "*related records*" is the number of occurrences that have been reported in those areas.

(I) Be sure to zoom your map out to view your search area and make sure it matches your proposed Project Area.

Blue/Teal Lines = Quads that were searched for sensitive species.

Purple Area = Project Area and Buffer region.

Gray Lines = Drawn Polygon or Polyline.

Step 5 (A,B): Downloading the Species Table

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1 745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefor		AAABF02020	Proposed Threatened	None	SSC	(#2)	3912145	PALERMO	Mapped	Animals - Ampl hammondii	hibians - Scaphiopod	lidae - Spea
2 745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron		ABNGA04010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds	s - Ardeidae - Ardea h	nerodias
3 745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret		ABNGA04040	None	None	2		3912145	PALERMO	Unprocessed	Animals - Birds	a - Ardeidae - Ardea a	alba
4 745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret		ABNGA06030	None	None	-	-	3912145		Unprocessed		a - Ardeidae - Egretta	
5 745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned ni	ht heron	ABNGA11010	None	None	2	271	3912145	PALERMO	Unprocessed	Animals - Birds	s - Ardeidae - Nyctico	rax
6 745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey		ABNKC01010	None	None	WL	-	39 <mark>1</mark> 2145	PALERMO	Unprocessed	and the second s	a - Pandionidae - Pan	ndion
7 745	3912145		Ifvor			iorea					20	39 <mark>1</mark> 2145	PALERMO	Unprocessed		- Accipitridae - Halia	aeetus
8 745	3912145	(B)	ii you	do not l	nave M	10108	SOLEX	ceroi	[-	3912145	PALERMO	Manned		- Accinitridae - Bute	o swainsoni

another similar program able to access the

data your other option is to print the table.

icon located at the top center of the table.

You can do this by clicking on the "*Print Table*"

9 745

3912145

(A) To download your **Occurrences** Table click on the "Download Table" button located at the top center of the table. It looks like a cloud with an arrow pointing down out of it. This will download the table to your computer in an Excel (.csv) format.

Note: My preference is to use Microsoft Excel, or a similar app, as then you can better organize and more easily comb through and sort the data; especially for larger project areas with many occurrences.

Animals - Birds - Rallidae - Laterallu

3912145 PALERMO Mapped

Step 5: Downloading the Species Table

- Once you download or print your file you should be able to view all the sensitive resources (wildlife, plants, habitats) located in and around your proposed project area.
- These tables will include the following pertinent information:
 - Species Names (Scientific & Common)
 - Listing Status (Federal, State, & CDFW)
 - Rare Plant Rank (If Applicable)
 - General Location (Quad)
 - Taxonomic Group (e.g., Birds, Plants, Fish, etc.)
- Tables will often contain multiple records of the same species as well. The number of these detections can give you an idea of species that are more common detected within or near the project area.
- This CNDDB search, combined with other search engines (USFWS's IPaC & Calflora's What Grows Here?) make for great tools to build out an HMP and account for any potential sensitive resources within a project area.
- These tables, whenever generated, may be submitted as an Attachment with your Grants Application as part of HMP Part 1 ITEM #2 if you certify that there are no potential risk factors to special status species or sensitive habitats from proposed project activities. Otherwise, these lists may be used to help build out your HMP and identify the resources you should consider within it.

Step 5 (C): Downloading the Species Table

(C) If you choose to download your table and open it in Excel it will look something like this.

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Step 5 (D): Downloading the Species Table

(D) If you instead choose to print it out, your table will look something like this.

OBJECTID	QUADCODE	QUADNAME	ElmType	SciName	CommonName	ElmCode	FedStatus	CalStatus	CDFWStatus	RPlantRank	QuadCode	QuadName	DataStatus	TaxonSort
745	3912145	PALERMO	Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	Proposed Threatened	None	SSC	-	3912145	PALERMO	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondii
745	3912145	PALERMO	Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
745	3912145	PALERMO	Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
745	3912145	PALERMO	Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
745	3912145	PALERMO	Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3912145	PALERMO	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
745	3912145	PALERMO	Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3912145	PALERMO	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
745	3912145	PALERMO	Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912145	PALERMO	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
745	3912145	PALERMO	Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3912145	PALERMO	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
745	3912145	PALERMO	Animals - Birds	Laterallus jamaicensis coturniculus	California black rail	ABNME03041	None	Threatened	FP	-	3912145	PALERMO	Mapped	Animals - Birds - Rallidae - Laterallus jamaicensis coturniculus
745	3912145	PALERMO	Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Riparia riparia
745	3912145	PALERMO	Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
745	3912145	PALERMO	Animals - Fish	Acipenser medirostris pop. 1	green sturgeon - southern DPS	AFCAA01031	Threatened	None	SSC	-	3912145	PALERMO	Mapped and Unprocessed	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 1
745	3912145	PALERMO	Animals -	Oncorhynchus	chinook salmon -	AFCHA0205L	Threatened	Threatened	-	-	3912145	PALERMO	Mapped and	Animals - Fish -

Contact Information

For any questions regarding using CDFW's BIOS 6 search engine to run CNDDB searches for OHMVR Division Grants Applications please feel free to reach out via the email address provided below:

Shane.Emerson@parks.ca.gov



