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20170406-DC-NNIP-3-3

Non-Native Invasive Data Collection Form

NNIP
040617 USFS 1

Date	Surveyors (circle recorder)	Client	Project	Site	iPad/GPS/Camera ID
040617	Shelly Austin, Aaron Newton	DWR	Devil Canyon	Hydropower Plant	iPad

Site Notes

Disturbed soil stockpile/turnout area adjacent dirt access rd. near pipes (penstock) that run down mountain to hydropower plant facility.

Species Code	DIW *	CID **	Feature Type	Percent Cover (Absolute)	Percent Phenology: Vegetative	Percent Phenology: Flower	Percent Phenology: Fruiting	Total Photos	Approx. Area (sq.ft.)	Acre Class	NNIP Information (overall site description, population quality/viability, immediate & surrounding land use), visable disturbance, threats, resource concerns, comments)
MEL IND	D	D	Poly	5	0	85	15		0.02 ac	1	NNG area dominated
AVE BAR	D	D		10	0	5	95		0.03 ac	1	by non-natives due
BRO DIA	D	D		5	0	20	80		0.02 ac	1	to soil stockpiling/
BRA NIG	D	C		65	10	90	0		0.2 ac	2	disturbance.
ERO CIC	D	C		15	0	80	20		0.04 ac	1	Some natives present
CEN MEL	D	C		20	85	15	0		0.06 ac	1	as seedlings & small
HYP GLA	D	D		2	80	20	0		260 s.f.	1	plants - Sal. col.,
											Pha. cic., Sal. mel.,
											Cryp. int., Eri. fas.,
											Adm. gla.
											Tot. area = 0.3ac
											NOTE: Separate USFS
											Data Form filled
											out

Quantitative Data Collection: **(A)** If a plant population is estimated to cover > 0.1acre or if >100 feet (linear) - map to the boundary. **(B)** If a plant population is <0.1 acre or if <100 feet (linear) then a map single central point and an estimate of acre class will be recorded. **(C)** Acre Classes: **1**- up to 0.1 acre; **2**- 0.1 to 0.25 acre ; **3**- 0.26 to 4.0 acres; **4**- > 4.0 acres

Qualitative Data Collection: **(A)** For widespread occurrences of NNIP, or for those which detailed mapping is unlikely to remain accurate (e.g.,annual grasses, which change distributions yearly), describe general distribution and extent within the study area and estimate acre class. **(B)** If a population is identified on the perimeter of the FERC Project Boundary the extent of the population extending beyond the boundary will be estimated.

* **D** -discrete, or **W**- widespread | ** **C**- concentrated, or **D**- diffuse

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040617 USFS 1
20170406-DC-NNIP-3-3

Survey Field Form

(® = Required Fields)

Survey Focus: ® NNIP		**Status:** ®	Source of Work:
Survey ID: ®		Survey Name: Devil Canyon	
Visit Date(s)® (MMDDYYYY)	**Examiners®**		
04062017	Shelly Austin, Aaron Newton		
Estimate of Area Surveyed ®	Acres®	0.3ac	
Survey Type®		**Survey Focus®**	
Botanical		NNIP	
Number of Traverses: 100% coverage of area			
Elevation			
Min:	Max:	Avg:	UOM: Feet

Survey Parameters: Surveying w/in study area boundary

Comments:

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2011040 DC NNIP-5?

Target Species List

In the following Table list all the plant species that are the focus of the survey. The National Standard requires a minimum of one (1) target species be entered.

Target Species NNIP		
Plant Code®	**Common Name**	**Plant Found®**
AVE BAR	Wild oat	Y
BRO DIA	ripgut brome	Y
BRA NIG	black mustard	Y
ERO CIC	red-stemmed filaree	Y
CEN MEL	Malta star thistle	Y

See Species List of Surveyed Area for % Cover

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040617 [illegible]

Comprehensive 2017040617-DC-NNIP-3-3

Invasive (Y/N)

Species List of Surveyed Area NN, N

List other species found during the survey. Indicate habitat (locally defined), lifeform and cover abundance.

Completeness of species list: | Cover Method *(if cover recorded)*:

Plant Code	Scientific Name	Life Form	Habitat [1]	% Cover or Class	INV
MEL IND	Melilotus indicus	H	NNG ~~DIST~~	5	
AVE BAR	Avena barbata	G	NNG ~~DIST~~	10	Y
BRO DIA	Bromus diandrus	G	NNG ~~DIST~~	5	Y
BRA NIG	Brassica nigra	H	NNG ~~DIST~~	65	Y
ERO CIC	Erodium cicutarium	H	NNG	15	Y
CEN MEL	Centaurea melitensis	H	↓	20	Y
TRI SP	Trifolium sp.	H	↓	2	N
HOR MUR	Hordeum murinum	G	↓	20	
HOR MAR	Hordeum marinum	G	↓		
HYP GLA	Hypochaeris glabra	H		2	Y
unk. grass		G		10	
?, LUP HIR	Lupinus hirsutissimus ?,	H		2	N
SAL COL	Salvia columbariae	H		1	N
PHA CIC	Phacelia cicutaria	H		5	N
SAL MEL	Salvia mellifera	S		5	N
CRA CON	Crassula connata	H		15	N
CRY. INT.	Cryptantha intermedia	H		2	N
ID TET	Tetradymia sp.	H		1	N
?, P unk. Onagraceae		H		<1	N
ERI FAS	Eriogonum fasciculatum	S		5	N
* Acm	Acmispon	H		1	N
LUP BIC	Lupinus bicolor	H		1	N
ACM GLA	Acmispon glaber	H		10	N
SCH ARA	Schismus arabicus	G		5	

Comments:

* ID – SM, annual lotus
lg. Quercus agr? adjacent
P TET – Tetradymia? Asteraceae (cotton thorn)
P LUP HIR – verify ID

Disturbed / soil stockpile area

[1] Habitat – Area classified as NNG based on cover

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20110400 - DC-NNIP- 3-3

Roads and Trails Surveyed: ~~N/A~~

Road Number	Road Name	Trail Number	Trail Name
	Devils Canyon Rd		

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04061 USFS (3)
20170406-DC-NNIP-3-3

See Comprehensive Species List

INVASIVE SPECIES INFESTATION RECORD FIELD FORM

Data Elements

INFESTATION ID: 1		**DATE:** 04/06/17	
Project Name: Devil Cyn		**Ownership:** USFS	
Proclaimed Forest: SBDO Nat'l Forest			
EXAMINER: Shelly Austin			
Target Species Code: BRA NIG		**Life Form:** herb	
Scientific Name: Brassica nigra		**Common Name** black mustard	
% Infested: 65%		**Infested Area:** 0.2 ac	
Density:	**UOM:**	**Count:**	**UOM: Plants or Stems or Individuals**
Lifestage:	**Distribution:**	**Phenology:** Flowering	**Treat Priority:**

Canopy Cover

Describe canopy cover by either entering the actual percent,(*Canopy Cover Percent*) or by using canopy cover classes (*Canopy Cover Set* and *Cover Code*).

Canopy Cover Set:	**Cover Code:**	**Canopy Cover Percent** %

Distance to Water

Horizontal Distance to Water:	**Vertical Distance to Water:**

Associated Species

Target Species Code:	Scientific Name:
AVE BAR	Avena barbata
MEL IND	Melilotus indicus
BRO DIA	Bromus diandrus
HYP GLA	Hypochaeris glabra

Site Information

Elevation Av:	**Min Elevation:**	**Max Elevation:**	**UOM**
Aspect-Azimuth:		**Aspect-Cardinal Direction:**	
Percent Slope:		**Slope Position:**	
Soil Texture:			

Existing Vegetation Information

Plant Community Non-native grassland		
Class Set Name	**Class Code:**	**Class Name**
SAF Cover Type:	**SRM Cover Type:**	

Dominant Codominant Species

Plant Code	Scientific Name	Ranking
BRA NIG	Brassica nigra	1
CEN MEL	Centaurea melitensis	2
ERO CIC	Erodium cicutarium	3

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20110400-DC-NNIP-3-

Geopolitical Location

Region: SBNF	**National Forest/Grassland:** NF	**District:** SBNF
State: CA	**County:** SBDO	

Location Information

USGS Quad Number:			***USGS Quad Name:***	
Forest Quad Number:			**Forest Quad Name:**	
Legal Description:				
Meridian:	**Township/ Range:**			
SEC:	**Q SEC:**	**QQ SEC:**	**QQQ SEC:**	**QQQQ SEC:**
GPS Datum:				
Latitude DDegrees: 34.22387047			**Longitude DDegrees:** -117.33159405	

Narrative (detailed description of location, direction to site and map location if applicable. Include information in locating the starting point for the traverse leg and other important description information.

Traverse information for start point to sample point.

Azimuth (degrees):	**Distance:**
Distance UOM:	

Comments