

Project No.  
**3586.002.023**

October 12, 2023

Wiedemann Ranch GHAD Board of Directors  
 Chair Candace Andersen  
 Vice Chair Federal D. Glover  
 Board Member John M. Gioia  
 Board Member Diane Burgis  
 Board Member Ken Carlson

Wiedemann Ranch Geologic Hazard Abatement District  
 651 Pine Street, Room 107  
 Martinez, CA 94553-1229

Subject: Red Hawk Development  
 Danville, California

**GEOLOGIC HAZARD ABATEMENT DISTRICT  
 MONITORING – FALL 2023**

Dear Chair Andersen and Boardmembers:

ENGEO is pleased to submit this monitoring report for the Red Hawk development, formerly the Podva Property, in Danville, California. The site-monitoring event occurred on September 28, 2023. As described in the Podva Property Plan of Control (Reference 1), the purpose of this monitoring is to observe and report on the open space and associated improvements within the Red Hawk development. The Wiedemann Ranch Geologic Hazard Abatement District (GHAD) has acquired monitoring and maintenance responsibilities for all the parcels within the Red Hawk development (Reference 2). These parcels are listed in Table 1.

**TABLE 1: Wiedemann Ranch GHAD Accepted Parcels – Red Hawk Development**

ASSESSOR'S PARCEL NUMBER (APN)	PARCEL LABEL	ADDRESS/DESCRIPTION
208-810-001	Lot 1	302 Wingfield Court
208-810-002	Lot 2	306 Wingfield Court
208-810-003	Lot 3	310 Wingfield Court
208-810-004	Lot 4	316 Wingfield Court
208-810-005	Lot 5	320 Wingfield Court
208-810-006	Lot 6	327 Wingfield Court
208-810-007	Lot 7	323 Wingfield Court
208-810-008	Lot 8	319 Wingfield Court
208-810-009	Lot 9	315 Wingfield Court
208-810-010	Lot 10	309 Wingfield Court
208-810-011	Lot 11	305 Wingfield Court
208-810-012	Lot 12	301 Wingfield Court
208-810-013	Lot 13	11 Red Tail Court
208-810-014	Lot 14	17 Red Tail Court
208-810-015	Lot 15	21 Red Tail Court

ASSESSOR'S PARCEL NUMBER (APN)	PARCEL LABEL	ADDRESS/DESCRIPTION
208-810-016	Lot 16	20 Red Tail Court
208-810-017	Lot 17	18 Red Tail Court
208-810-018	Lot 18	16 Red Tail Court
208-810-019	Lot 19	12 Red Tail Court
208-810-020	Lot 20	10 Red Tail Court
208-810-021	Parcel A	Bioretention
208-810-022	Parcel B	Open Space with Scenic Easement
		Red Tail Court
		Wingfield Court

## SCOPE

Site monitoring included observation of the following features.

- Common area and open-space slopes located adjacent to improvements
- Access roadways
- Concrete-lined surface drainage ditches
- Mechanically stabilized earth (MSE) retaining walls
- Maintenance roadways
- Storm drain inlets and trash rack
- Subdrain outlets
- Detention basin
- Bioretention areas
- Fencing, locks, and signage

## COMMON AREA, OPEN-SPACE SLOPES, AND SWALES

The common area and open-space slopes were observed for evidence of slope instability, including landslides, mudflows, erosion, diverted drainage, or standing water. In general, we observed the open space and slopes to be in satisfactory condition. During this monitoring event, we observed that the site slopes in some locations were disturbed from animal burrowing activity (Figure 1). This activity has resulted in bare soil and surface voids. We will continue to monitor these disturbed areas for instability in the future.

## CONCRETE-LINED SURFACE DRAINAGE DITCHES

The concrete-lined drainage ditches were checked for accumulation of debris/sediment and for obvious distress such as cracking or shifting of the concrete. During this monitoring event, we observed minor soil and vegetation within the drainage ditches. Soil and vegetation will be cleaned as part of the routine GHAD maintenance. We also observed minor cracks and voids in the concrete-lined drainage ditches; however, the minor cracks do not appear to compromise the integrity of the ditches. As part of the routine maintenance, the minor cracks and voids will be resealed, as needed, to maintain ditch integrity.

## MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS

Retaining walls were inspected for significant cracking and damage. At the time of our monitoring, the MSE walls were in satisfactory condition and no visible distress was observed.

## MAINTENANCE ROADWAYS

We observed the condition of the gravel-surfaced maintenance roads west of Red Tail Court and south of Wingfield Court, and in general, the roads appeared to be in good condition at the time of our monitoring. Vegetation removal is completed during scheduled routine GHAD maintenance.

The asphaltic concrete-surface roadway connecting Wingfield Court to the East Bay Regional Park District trailhead west of the development appeared to be in good condition at the time of our monitoring.

## STORM DRAIN INLETS AND TRASH RACK

Storm drain inlets within the open space area of the GHAD appear to be in relatively good condition. Some storm drain inlets have accumulated sediment and have overgrown vegetation in and around the inlets. As part of routine GHAD maintenance, the storm drain inlets will be cleared of vegetation.

A trash rack is located on the southeastern edge of Parcel B, adjacent to 1065 Westridge Avenue. As summarized in Reference 3, on December 23, 2021, the creek overflowed the trash rack and the GHAD conducted cleanup operations on Parcel B and 1065 Westridge Avenue. The creek also overflowed the trash rack on December 31, 2022, and the GHAD conducted a subsequent cleanup operation in January and February 2023. Cleanup operations only consisted of sediment and debris removal from Parcel B and 1065 Westridge Avenue. At the time of our monitoring, the trash rack was in satisfactory condition and appeared to have adequate capacity.

## SUBDRAINS

The following subdrain outlets were observed and monitored during the site visit. Discharge levels flowing from the subdrain outlets are summarized in Table 2.

**TABLE 2: Subdrains**

LABEL	FLOW (gallons/day)	COMMENTS
S-4	22.8	EST, pipe invert at bottom of storm drain inlet box, visible flow
S-5	570.6	EST, UTM, outlet not visible in storm drain inlet, audible flow
S-6	0	Dry
RW-1	0	Dry

### LEGEND

EST - Estimate  
UTM – Unable to monitor  
UTA – Unable to access

## DETENTION BASIN

A detention basin (Figure 1) is located at the end of Red Tail Court. Monitoring of the detention basin was conducted as part of the open-space monitoring. The observed conditions for the detention basin are described in the attached Red Hawk Development Detention Basin Site Monitoring and Maintenance Form. Contracted ongoing routine maintenance within the detention basin currently includes roadway maintenance, weed abatement, and woody vegetation removal. At the time of our visit, the detention basin appeared to be functioning properly and was in good condition. We observe significant accumulation of sediment adjacent to the basin outlet structure (Site Condition A, Appendix A, Figure 1). The excess sediment will be removed by the GHAD during routine maintenance.

## BIORETENTION FACILITIES

We observed the condition of three bioretention areas adjacent to Midland Way (Figure 1). During our monitoring, the bioretention areas appeared to be free of accumulated standing water or debris and were functioning properly.

## FENCING, LOCKS AND SIGNAGE

The perimeter of the GHAD was checked for proper fencing, signage, and locks. At the time of our monitoring, the fencing, signage, and locks were in satisfactory condition.

We look forward to continuing our services on this monitoring program. If you have any questions concerning the observations made during this reconnaissance, please do not hesitate to contact us.

Sincerely,

ENGEO Incorporated

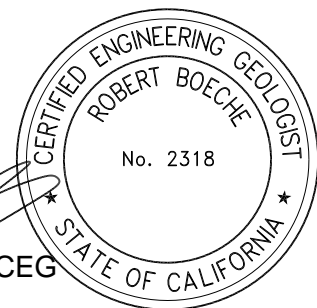


Greg Hudson

gh/rhb/cjn



Robert H. Boeche, CEG



Attachments: Selected References  
Figure 1 – Site Plan  
Appendix A – Site Condition Summary with Photographs  
Monitoring Report

## SELECTED REFERENCES

1. ENGEO. 2016. Plan of Control, Podva Property, Danville, California. June 18, 2015, Revised January 7, 2016. Project No. 9160.000.001.
2. ENGEO. 2021. Wiedemann Ranch Geologic Hazard Abatement District Plan of Control Acceptance, Red Hawk (Podva), Subdivision 9309, Danville, California. May 3, 2021. Project No. 9160.000.001.
3. ENGEO. 2022. Observation Services During Creek Debris Emergency Cleanup, Red Hawk Development Parcel "B" and 1065 Westridge Avenue, Danville, California. April 26, 2022. Project No. 3586.002.021.

**FIGURE 1 – SITE PLAN**



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**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

- |   |                               |
|---|-------------------------------|
| GHAD Boundary                             | Bioretention Basin            |
| Parcel Line (2022)                        | Animal Burrow                 |
| Emergency Vehicle Access/Maintenance Road | Trash Rack                    |
| Paved Surface                             | Retaining Wall                |
| Gravel Surface                            | Concrete-Lined Drainage Ditch |
| Vegetation Management Zone                | Site Condition (Fall 2023)    |
| Grasses and Basin Maintenance             | Basin Inlet/Outlet            |
| Grasses, Shrubs, and Trees                | Subdrain Outlet               |



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2022



**SITE PLAN**  
**WIEDEMANN RANCH GHAD RED HAWK**  
**DANVILLE, CALIFORNIA**

PROJECT NO. : 003586.002.023	FIGURE NO. : 1
SCALE: AS SHOWN	
DRAWN BY: CMG	CHECKED BY: JA

**APPENDIX A**

**Site Condition Summary with Photographs**



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Site Condition: A  
Observation Date: 09/28/2023  
Description: Sediment accumulation adjacent to basin outlet structure.  
Recommendation: Sediment should be removed during routine maintenance.  
Field Representative: GH



## MONITORING REPORT

Red Hawk Development  
Danville, CA

### DETENTION BASIN OPERATIONS AND MAINTENANCE SITE MONITORING AND MAINTENANCE REPORT FORM

Inspector: Greg Hudson

Date: September 28, 2023

Weather Conditions: Sunny

Days since last rainfall: 145

Dry season?  X

Wet season?

Basin Water Level: 0 inches

Noteworthy Sediment Accumulated since Last Monitoring Event: No

MONITORED CONTROL	YES	NO	N/A	COMMENTS/ SUGGESTED MAINTENANCE
1. Are inlet and outlet structures functioning properly, allowing the basin to drain and are they in satisfactory condition?	X			
2. Are access roads in satisfactory condition?	X			
3. Is all perimeter fencing in good condition without breaks, gaps, or damage?			X	

MONITORED CONTROL	YES	NO	N/A	COMMENTS/ SUGGESTED MAINTENANCE
4. Is the emergency outlet grate free of debris and is it in good condition?	X			
5. Is the embankment surrounding the basin in good condition without rills or failures?	X			
6. Is emerging woody vegetation less than 5 feet in height?	X			
7. Are embankment slopes protected with mulch or vegetation?	X			
8. Has water removal been undertaken in the last 3 months? If so, describe procedure.		X		

MONITORED CONTROL	YES	NO	N/A	COMMENTS/ SUGGESTED MAINTENANCE
9. Has sediment removal been undertaken in the last 3 months?		X		
10. If so, has it been tested as required in the Maintenance Manual?			X	
11. Is there evidence of chemical sheen or odor, contaminated runoff, litter or blowing debris in or near the basin?		X		
12. Do any pond devices require maintenance to provide more effective function?		X		
13. Are there signs of leaking irrigation systems?			X	

MONITORED CONTROL	YES	NO	N/A	COMMENTS/ SUGGESTED MAINTENANCE
14. Are there any signs of vandalism?		X		
15. Are mosquitoes evident?		X		
16. Has mosquito abatement been undertaken since the last monitoring event?		X		
17. Are there other remedial/repair tasks that should be undertaken in the near future?	X			Sediment accumulation adjacent to basin outlet structure should be removed.
18. Is there any evidence or information received in the last 3 months to indicate a lengthy drain time?		X		

“No” answers to Items 1-7 or “Yes” answers to Items 8-18 may require a corrective action.