

June 28, 2024

Hayward Geologic Hazard Abatement District Board of Directors

- Chair Mark Salinas
- Boardmember Angela Andrews
- Boardmember Ray Bonilla Jr.
- Boardmember Dan Goldstein
- Boardmember Julia Roche
- Boardmember George Syrop
- Boardmember Francisco Zermeño

Hayward Geologic Hazard Abatement District  
777 B Street  
Hayward, CA 94541

Subject: The Reserve (La Vista) Development  
Hayward, California

**HAYWARD GEOLOGIC HAZARD ABATEMENT DISTRICT  
MONITORING – SPRING 2024**

Dear Chair Salinas and Boardmembers:

ENGEO is pleased to submit this monitoring report for the accepted parcels in The Reserve (La Vista) development within the Hayward Geologic Hazard Abatement District (GHAD). As described in the Plan of Control for La Vista Development (Reference 1), the purpose of this monitoring is to observe and report the conditions on the GHAD-accepted parcels (Reference 2) and associated improvements, as listed in Table 1 below, and shown in Figure 1, attached. The site-monitoring event was completed on May 15, 2024, for the following GHAD-accepted parcels (Accepted Parcels).

**TABLE 1: Accepted Parcels within the Hayward GHAD**

ASSESSOR'S PARCEL NUMBER (APN)	DESCRIPTION (Tract 7620)	GHAD OWNERSHIP
83-477-4	Parcel C	Yes
83-480-1	Parcel D	Yes
83-478-1	Parcel E	No
83-478-2	Parcel F	No
83-478-3	Parcel G	No
83-478-4	Parcel H	No
83-478-5	Parcel I	No
83-479-1	Parcel J	No
83-479-2	Parcel K	No
83-479-3	Parcel L	No
83-479-4	Parcel M	No
83-480-2	Parcel N	Yes
83-478-6	Parcel O	Yes
83-477-6	Parcel Q	No

ASSESSOR'S PARCEL NUMBER (APN)	DESCRIPTION (Tract 7620)	GHAD OWNERSHIP
83-477-7	Parcel R	No
83-478-7	Parcel S	No
83-477-8	Parcel T	No
83-480-3	Parcel U	Yes
83-480-4	Parcel V	Yes
83-75-2-15	Unsurveyed Remainder	Yes
83-75-2-9	La Vista LP 2006-301610	Yes
83-75-2-11	La Vista LP 2007-408664	Yes
83-75-2-13	La Vista LP 2007-408664	Yes
83-125-1-18	La Vista LP 2007-408664	Yes
83-125-1-21	La Vista LP 2007-408664	Yes
83-477-1	Public Roads	No
Various	Residential Lots 1 through 179	No

## SCOPE

The site monitoring included the following tasks on the Accepted Parcels.

- Geologic reconnaissance of the slopes and debris benches for indications of erosion or slope failure
- Inspection of concrete-lined drainage and riprap-lined ditches
- Inspection of Alquire water quality/detention basin
- Inspection of maintenance roads and trails
- Observation of storm drain facilities
- Observation of and measurement of flow from subsurface outlets
- Observation of site retaining wall
- Observation of property line/boundary fencing

## SITE SLOPES AND DEBRIS BENCHES

Slopes within the Accepted Parcels appeared to be performing well, with minor exceptions that do not present immediate issues needing address. We noted in our spring 2021 monitoring that a minor failure, measuring approximately 8 feet wide, occurred on the side slope, next to the maintenance road at the northernmost end of the site. During the last monitoring event, the slope failure was overgrown with vegetation but did not appear to be affecting the adjacent maintenance road. During this visit, we observed the same conditions. We will continue to monitor the condition of the slump on the slope and will remove sloughing soil from the road, as needed.

On the current visit, we observed a landslide adjacent to the northern portion of the access road of Parcel 083-75-2-16 (Figure 1, Site Condition A). The slide has a headscarp roughly 30 feet wide and ½ to 1 foot deep, with a toe extending approximately 50 feet down slope. The landslide area does not immediately threaten the stability of the access road nor threaten to mobilize downhill since the toe ends at a large flat embankment. On this monitoring trip, we did not observe any additional downslope mobilization. We will continue to monitor the landslide during our scheduled events and will address the condition if it threatens the development.

We noted a minor scarp developing along the fill slope adjacent to the water quality basin. The scarp was previously approximately 15 feet long and 1 foot deep, but on our last monitoring event we observed an increased length in the scarp to approximately 25 feet. The scarp does not present an immediate danger for the slope as a whole, but we will continue to monitor it for movement.

The debris benches on the slope are shown in Figure 1 and appeared to be performing well. We did not observe any significant accumulation of soil on the benches.

### **CONCRETE-LINED SURFACE DRAINAGE AND RIPRAP-LINED DITCHES**

The drainage ditches were checked for accumulation of debris/sediment and for obvious distress, such as cracking or shifting of the concrete. Vegetation adjacent to the ditches was cut and was well maintained for the majority of drainage ditches. Overgrowth and debris in ditches were not observed, and the ditches were properly cleaned.

We observed no significant cracking or offsets in the concrete-lined drainage ditches; all appear in good condition and repairs made previously are holding up. We will continue to monitor for additional cracking.

### **ALQUIRE WATER QUALITY/DETENTION BASIN**

The Alquire water quality/detention basin is located on the southern end of the GHAD boundary on Parcel V (APN 083-480-004), as shown in Figure 1. This basin was inspected for overgrown vegetation, erosion, and proper functioning of inlet and outlet structures. At the time of our monitoring, the basin appeared to be somewhat overgrown, requiring some vegetation cutback.

### **MAINTENANCE ROADWAYS AND TRAILS**

The maintenance roadway (Figure 1) was checked for erosion and signs of distress. During our last monitoring, we noted that erosion gullies had formed along the entire stretch of the road, in some cases up to 1 foot deep. Since then, the road has undergone repairs and the rills have been infilled. At the time of our recent visit, the road and adjacent drainage ditches appeared in good condition.

During a previous monitoring event, longitudinal cracks were observed along the paved maintenance roadway located near the cul-de-sac of Cantera Drive and in Parcel N (APN 083-480-002). The paved roadway is situated above a slope, which appeared to be in stable condition. The GHAD will continue to monitor the roadway and slope condition.

### **STORM DRAIN FACILITIES**

The storm drain inlets (Figure 1) were checked for debris accumulation, distress, and proper functioning. At the time of our monitoring, storm drain facilities appeared to be in good condition.

### **SUBDRAIN OUTLETS**

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

**TABLE 2: Subdrain Outlets**

SUBDRAIN OUTLET LABEL	ESTIMATED FLOW RATE* (gallons/day)	COMMENTS
SD-01	0	No flow, dry
SD-02	0	No flow, dry
SD-03	n/a	Unable to Locate
SD-04	n/a	Unable to Locate
SD-05	0	No flow, dry
SD-06	0	Outfalls in concrete-lined ditch, wet, some moss growth
SD-07	1,200	Extensive moss growth in ditch
SD-18	0	No flow, dry
SD-19	0	No flow, dry
SD-20	0	No flow, dry
SD-22	n/a	Unable to Monitor
SD-23	n/a	Unable to Monitor
SD-24	0	No flow, wet
SD-25	0	No flow, dry
SD-26	0	No flow, dry

n/a – not available

In our fall 2020 monitoring, a seep was observed on the slope adjacent to the maintenance road on the northernmost end of the site, above Subdrain SD-06 outfall. The growth of pampas grasses continued in the seep area. No indications of slope instability were associated with the seep; however, saturated soil can increase the potential of slope instability, reduce slope performance over time, and lead to slope failures. The GHAD will continue to monitor the seep for indications of slope instability and provide additional subsurface drainage recommendations, as necessary.

Standing water and extensive moss growth near Subdrain SD-07 outfall appears to be creating issues with the concrete-lined drainage ditch (Figure 1, Site Condition B, Photograph 2). The overgrowth around the subdrain outfall also effects flow. This should be addressed by maintenance to, at a minimum, clean out the concrete-lined ditch and subdrain outlet.

Some subdrain outlets were unable to be located or monitored, as noted in Table 1.

### **MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL**

A MSE retaining wall is located on Parcel D (APN 083-480-001) at the southern portion of the site and continuing along Alquire Parkway, as shown in Figure 1. The wall was inspected for any signs of distress. At the time of our recent monitoring, the MSE retaining wall appeared to be performing well.

### **PROPERTY LINE/BOUNDARY FENCING**

The property line fences on the GHAD-owned parcels of the GHAD were checked for damage. At the time of this monitoring, the fences appeared to be in good condition.

If you have any questions concerning the observations made during this reconnaissance, please do not hesitate to contact us.

Sincerely,



ENGEO Incorporated



Nick Inserra

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Attachments: List of Selected References  
Site Photographs 1 through 4  
Figure 1 – Site Plan

Julia A. Moriarty, PE, GE

### LIST OF SELECTED REFERENCES

1. ENGEO. 2016. Plan of Control for La Vista Development, Hayward Geologic Hazard Abatement District (GHAD), Hayward, California. Project No. 6671.105.001. October 17, 2016.
2. ENGEO. 2020. Hayward Geologic Hazard Abatement District, Plan of Control Transfer Acceptance of Selected Parcels, The Reserve, Hayward, California. Project No. 6671.002.019. February 13, 2020.
3. Ruggeri-Jensen-Azar. 2020. Grading Plan, La Vista – Tract 7620, Hayward, California, Sheet 10 of 23, Delta 7. February 14, 2020. Project No. 053019.

**SITE PHOTOGRAPHS**

**PHOTO 1: Site Condition A – Scarp Development adjacent to the Access Road**



**SITE PHOTOGRAPHS (Continued)**

**PHOTO 2: Site Condition B – Alquire Water Retention/Detention Facility with Overgrown Vegetation**





**SITE PHOTOGRAPHS (Continued)**

**PHOTO 3: Site Condition B – Alquire Water Retention/Detention Facility with Overgrown Vegetation**



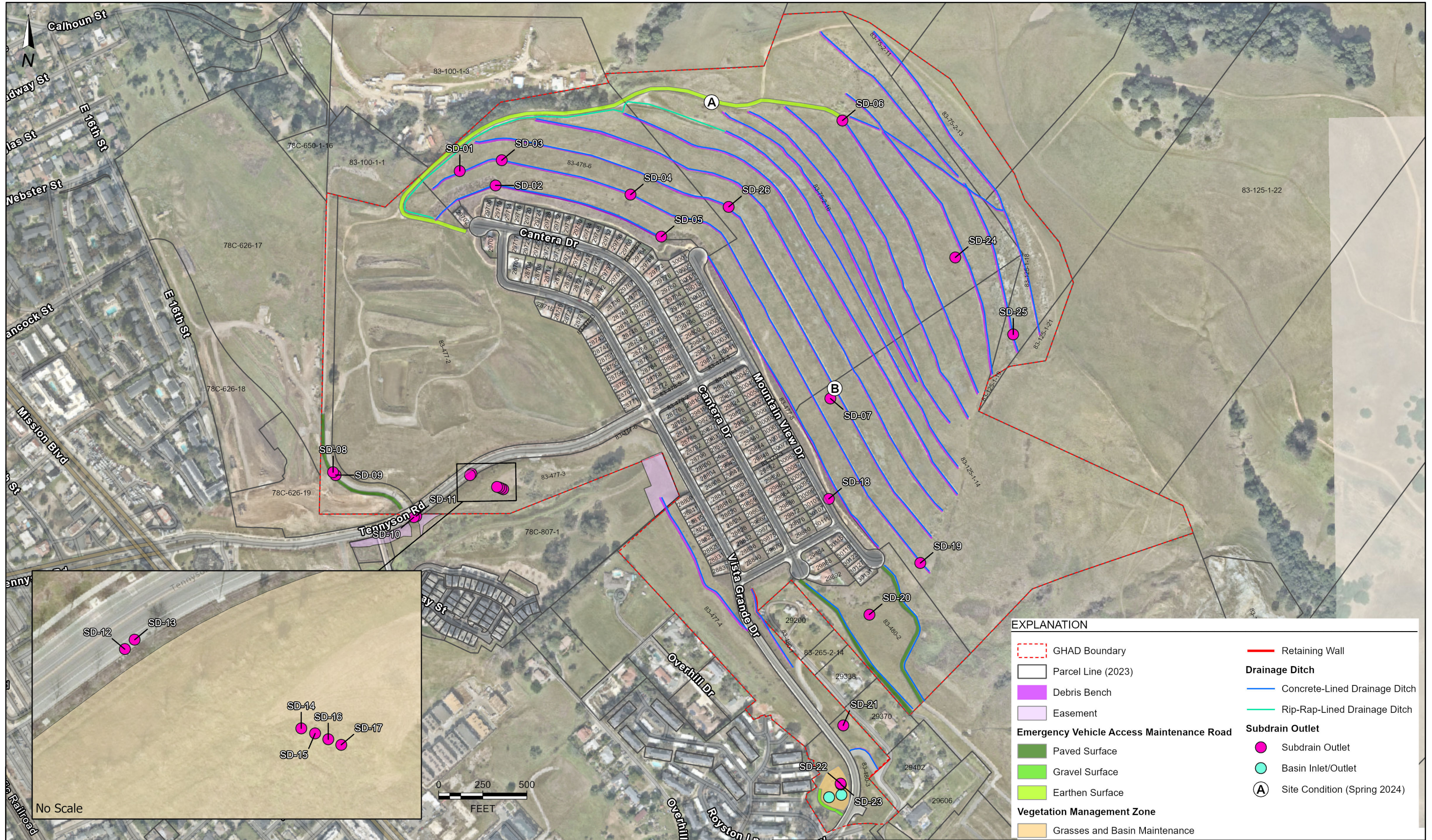
**SITE PHOTOGRAPHS (Continued)**

**PHOTO 4: Site Condition C – Standing Water and Overgrowth around Subdrain SD-07 Outlet.**



**FIGURE 1**

**Site Plan**



EXPLANATION	
	GHAD Boundary
	Parcel Line (2023)
	Debris Bench
	Easement
<b>Emergency Vehicle Access Maintenance Road</b>	
	Paved Surface
	Gravel Surface
	Earthen Surface
<b>Vegetation Management Zone</b>	
	Grasses and Basin Maintenance
	Retaining Wall
<b>Drainage Ditch</b>	
	Concrete-Lined Drainage Ditch
	Rip-Rap-Lined Drainage Ditch
<b>Subdrain Outlet</b>	
	Subdrain Outlet
	Basin Inlet/Outlet
	Site Condition (Spring 2024)



**SITE PLAN**  
 HAYWARD GHAD  
 HAYWARD, CALIFORNIA

PROJECT NO. : 6671.002.023	FIGURE NO.
SCALE: AS SHOWN	<b>1</b>
DRAWN BY: NWC	CHECKED BY: JAM