

Legend

Top 20 Ranked Discontinued Stormwater Monitoring Location

Top 20 Ranked Active Stormwater Monitoring Location

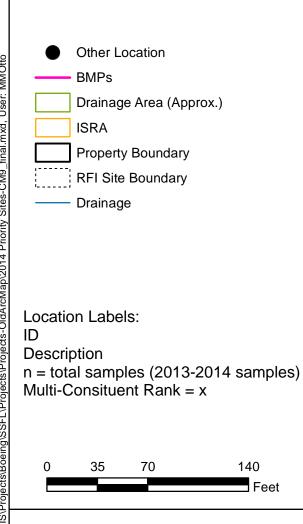


Figure ES-3: CM-9 Area

Santa Susana Site Ventura County, CA

August 2014

In March of 2013, improvements were made at CM-9 area including:

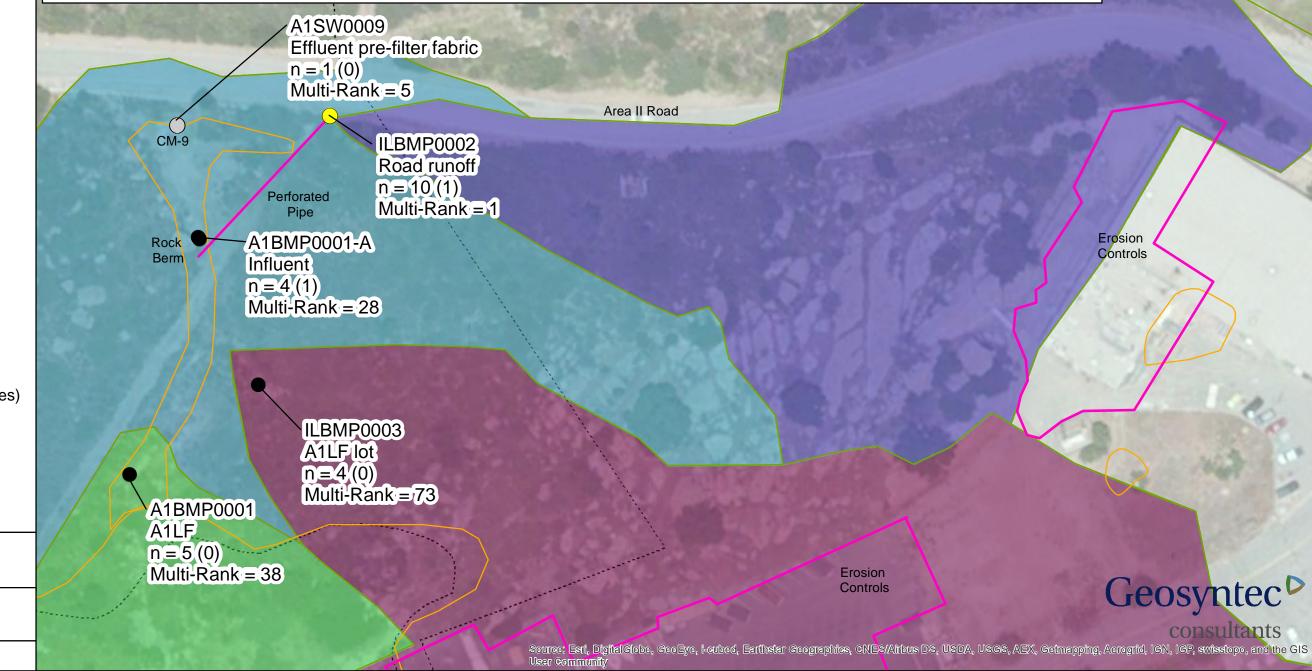
- Erosion control blanket and straw wattles were installed along the slopes adjacent to the Area II Road
- A low flow diversion inlet structure and a diversion pipe with perforations were installed to spread road runoff along the slope
- A rock berm was installed for ponding as pre-treatment to CM-9

In September of 2013, improvements included:

- Sediment removal at CM-9
- Mesh screen placed over culvert inlet to perforated pipe to prevent clogging.

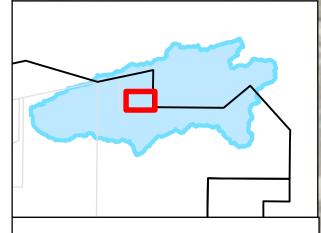
Recommendations:

- Replace filter fabric on the CM-9 weir boards when the fabric becomes clogged or damaged
- Remove sediment accumulation at the inlet of the culvert modification and at the pretreatement rock berm
- Note any water ponded upstream of the weir board for greater than 72 hours as it may suggest that media or underdrain maintenance is needed
- Continue inspection and maintenance of BMPs



Erosion Controls





Top 20 Ranked Discontinued Stormwater Monitoring Location

Top 20 Ranked Active Stormwater Monitoring Location

Other Location

BMPs

ISRA Areas

Drainage

Background Location

Drainage Area (Approx.)

Property Boundary RFI Site Boundary

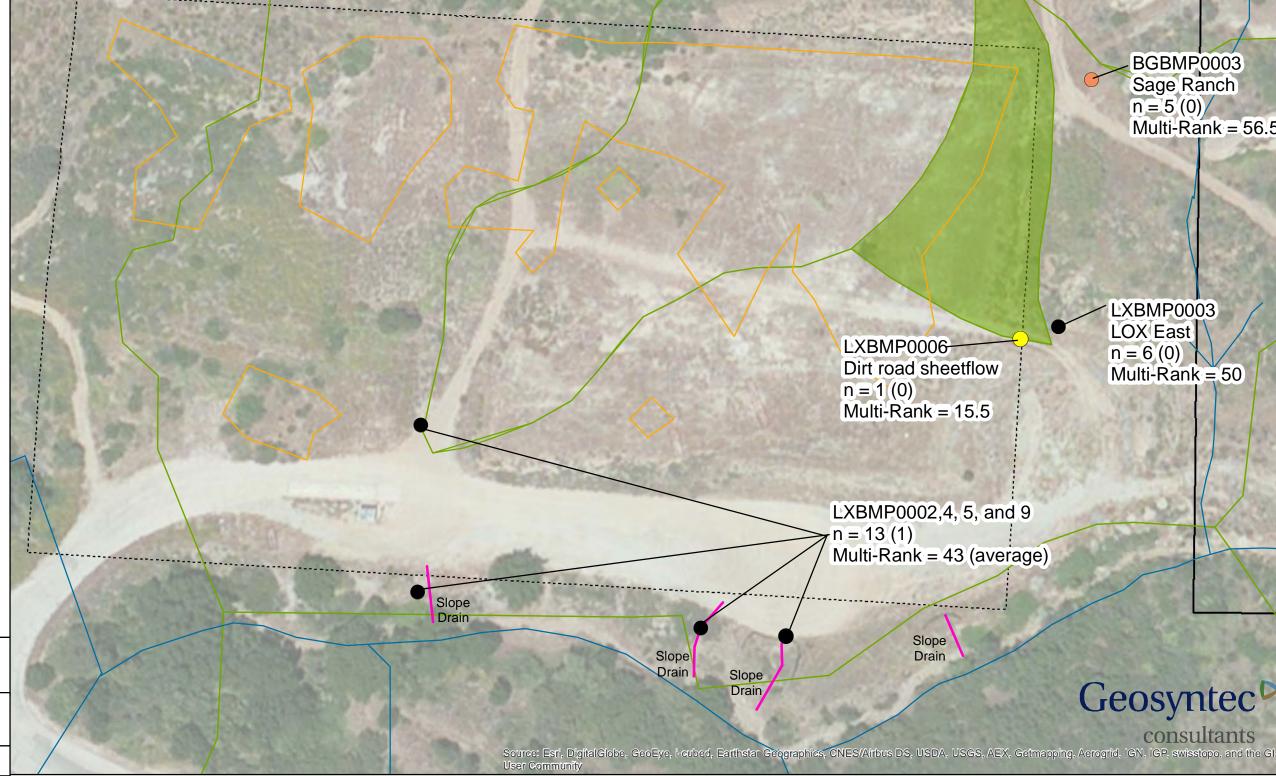
BMP Actvities:

- Placement of jute matting on the south slope of the dirt road
- Installation of fiber rolls along the dirt road and slope to the south
- Fresh gravel applied along the dirt road
- Repairs to grade control structure on northern drainage channel at base of LOX
- Hydroseed applied to the slope

Recommendations:

- Continued inspection and maintenance of the LOX BMPs





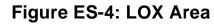
Legend

Location Labels:

ID Description

n = total samples (2013-2014 samples) Multi-Consituent Rank = x





Santa Susana Site Ventura County, CA

August 2014

BGBMP0003 Sage Ranch n = 5(0)Multi-Rank = 56.5

Dirt road sheetflow Multi-Rank = 15.5

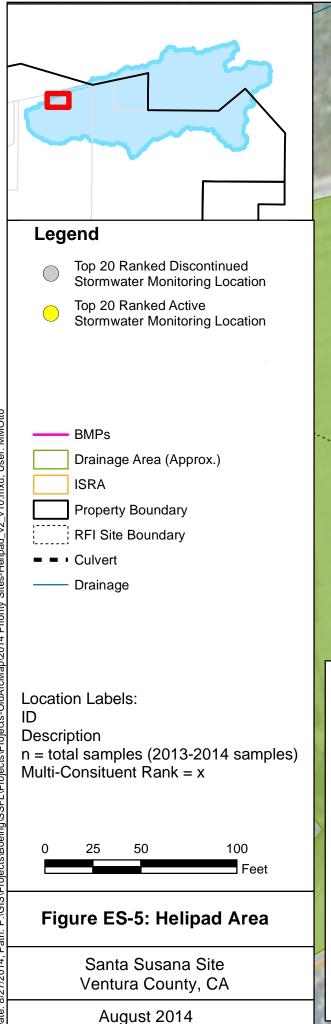
LXBMP0002,4, 5, and 9 Multi-Rank = 43 (average)

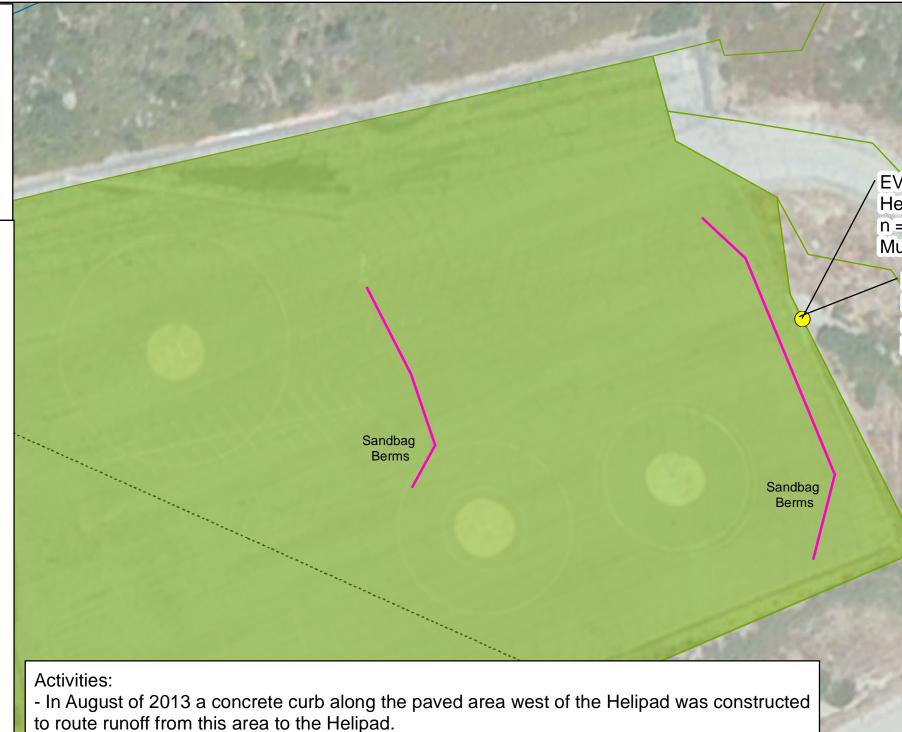
> Slope Drain

LXBMP0003 LOX East n = 6(0)Multi-Rank = 50

Geosyntec[▶]

consultants





- Drainage from the west was modified by the installation of a lowered conrete slab, increasing flows from previous maonitoring seasons.

- The sandbag berms and pumps were kept in operation during the 2013/2014 season.

Recommendations:

- Continued operation of temporary capture system or equivalent runoff capture and treatment as a temporary control strategy until NASA is able to remove asphalt from the Helipad area during the planned demolition.

- Ponded water should be pumped out fo the sump area and the storm drain inlet "plug" under Helipad Road be removed when either 1) Outfall 009 is flowing or 2) the sump is overflowing onto Helipad Road.

- Continued inspection and maintenance of the Helipad sandbag berms and any future BMPs.



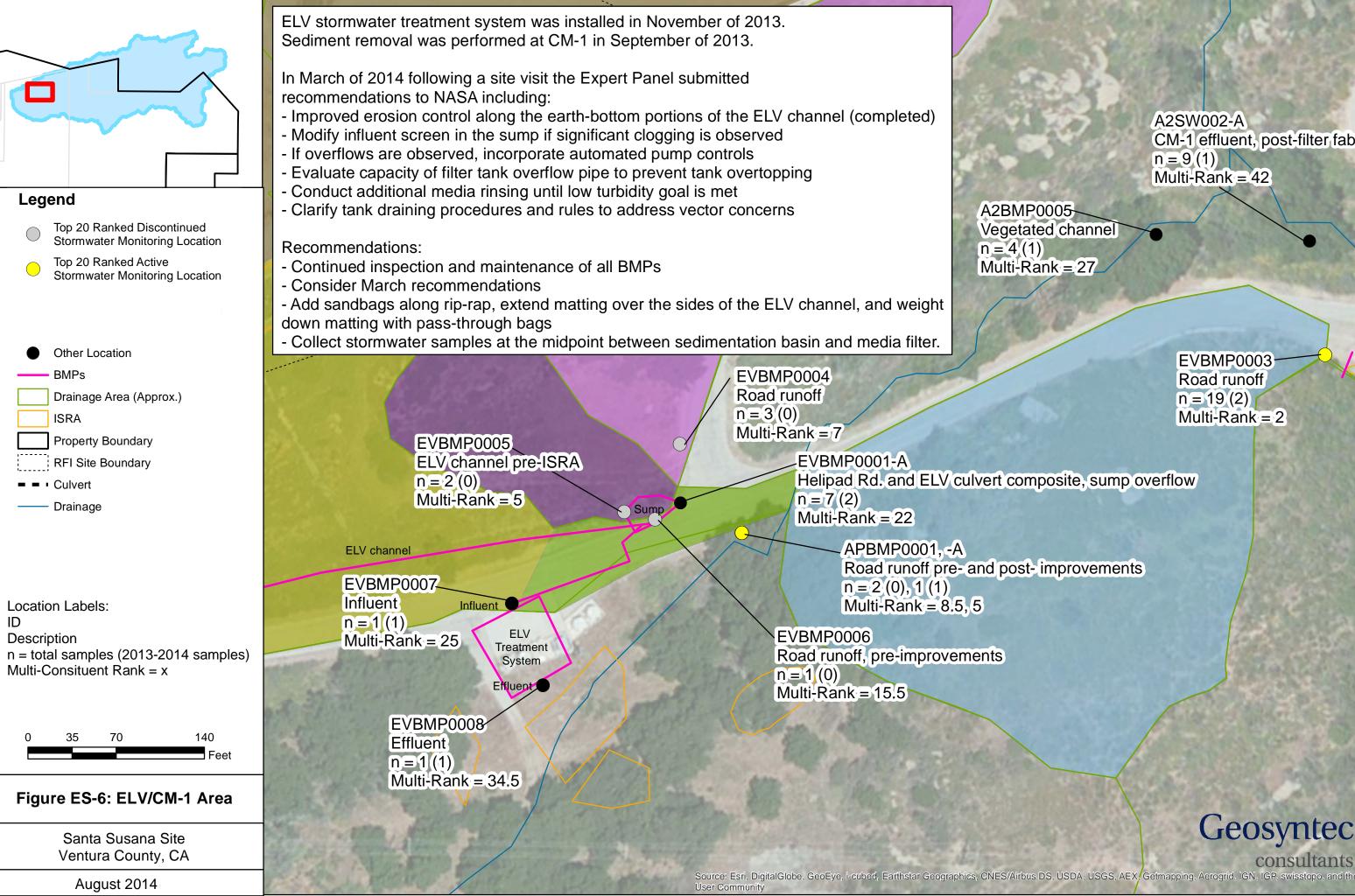
EVBMP0002 Helipad runoff (OLD) n = 6 (0) Multi-Rank = 3

> EVBMP0002-B Helipad runoff, post improvements n = 5 (1) Multi-Rank = 39

> > Helipad Road



. CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS



A2SW002-A CM-1 effluent, post-filter fabric n = 9(1)Multi-Rank = 42

> EVBMP0003 Road runoff n = 19(2)Multi-Rank = 2

CM-1

