
**NORTHERN BUFFER ZONE, ROUND 1 ADDENDUM
TO THE FINAL FSP FOR SOIL SAMPLING
SANTA SUSANA FIELD LABORATORY SITE
AREA IV RADIOLOGICAL STUDY**

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DATE: March 29, 2012
SUBJECT: FSP Addendum for the Northern Buffer Zone
CONTRACT NO: EP-S7-05-05
TASK ORDER NO: 0038

INTRODUCTION

HydroGeoLogic, Inc. (HGL) has been tasked by the U.S. Environmental Protection Agency (USEPA) to conduct a radiological characterization study of Area IV and the Northern Buffer Zone (NBZ) at the Santa Susana Field Laboratory (SSFL) site in Ventura County, California. This work is being executed under USEPA Region 7 Architect and Engineering Services Contract EP-S7-05-05, Task Order 0038, Amendment 3. The technical lead on the project is USEPA Region 9.

This document supports the field implementation of the overall soil sampling program and is an addendum to the Final Field Sampling Plan (FSP) for Soil Sampling (HGL, 2012). A description of the overall project goals; data quality objectives; sampling strategy; laboratory analytical suites; sample depth interval selection; data quality control; and data evaluation are described in the FSP.

PURPOSE

This addendum documents the rationale used to determine the location and depth of soil samples to be collected during Round 1 targeted and random soil sampling within the NBZ. Sample locations are summarized in Table 1 (Attachment 1) and illustrated on the figures provided in Attachment 2. This addendum also documents the laboratory analyses that will be performed for each soil sample, derived from the default suite from Table 2.3 of the FSP (HGL, 2012).

It should be noted that the specific sample locations presented herein were discussed during a technical review meeting held on February 22, 2012, with members of USEPA’s SSFL Technical Stakeholder group consisting of representatives of U.S. Department of Energy (DOE), the State of California Department of Toxic Substances Control (DTSC), The Boeing Company, USEPA, and the community. Recommendations and action items identified at the technical review meeting, including those on the topic of “likely chemical remediation” (LCR) zones. In the NBZ there are two LCR zones. USEPA understands that soil may be excavated and removed from areas identified as LCR zones. Therefore, USEPA placed a reduced number of surface/subsurface samples within the LCR zones to define potential contamination at depth and placed surface/subsurface samples around the zone's perimeter to better define the potential extent of contamination associated with such zones.

In accordance with the USEPA’s role under the Administrative Order on Consent for Remedial Action (DTSC, 2010) agreement between DTSC and DOE for the SSFL site, and subject to additional external funding, USEPA will conduct verification soil sampling post Decontamination and Decommissioning activities to verify that site remediation goals have been achieved at all such remediation zones.

All soil samples will be analyzed for the default suite analytes presented in Table 2.3 of the FSP (HGL, 2012). Table 1 provides the location for each targeted and random soil sample that will be collected in the NBZ during Round 1 of the soil sampling investigation as well as the technical justification and rationale for the selection of each sample location. Also summarized in this table is the suite of radiological analyses that will be performed on every sample, as well as other field-pertinent information including sample identification number, type, and general proximity to radiological facilities.

As a result of cost savings associated with Round 1 sampling, the USEPA has included random sampling, in addition to targeted sampling, in the NBZ Round 1 sampling program. Evaluation of the Round 1 sample analytical budget indicates an additional 100 random soil samples can be collected within the NBZ during Round 1 soil sampling activities. A total of 150 targeted and 100 random soil samples will be collected during Round 1 soil sampling in the NBZ. Twenty-five additional “Alternate” random sample locations were also identified in case an original random location is inaccessible.

The X and Y coordinates for each of these sample locations were created using the Create Random Point tool provided in ArcGIS software created by Environmental Systems Research Institute, Inc. (Environmental Systems Research Institute, Inc., 2012). In the event a random sample location is located on a rock outcropping the location will be moved to the nearest location a soil sample can be collected. If a sample location is inaccessible an Alternate random sampling location will be chosen.

Figure 1 provides an overview of the NBZ. Figures 2 through 5 show the location and type (e.g. surface, subsurface, drainage) of each proposed sample within the NBZ (Attachment 2). Table 2 provides a summary of sample numbers by sample type.

Table 2
Summary of Sample Numbers by Sample Type

Area	Drainage	Surface	Subsurface	Random Surface	Total
NBZ-West	11	17	31	50	109
NBZ-East	20	13	58	50	141
Total	31	30	89	100	250

Attachment 3 provides key technical information that led to the selection of sample locations, sample interval selection, and the laboratory analysis that will be performed for each sample collected. The key information includes results of geophysical surveys, gamma surface radiation surveys and the findings summarized in the Technical Memorandum Subarea HSA-7, Subarea HSA-3, Subarea Northern Buffer Zone Historical Site Assessment (HGL, 2011).

Historical data from the McLaren/Hart report entitled Multi-media Sampling Report for the Brandeis-Bardin Institute and the Santa Monica Mountains Conservancy (McLaren/Hart, 1993) was also used to place soil sampling locations within the NBZ as described in the report.

SCHEDULE

Round 1 soil sampling within the NBZ will commence in mid March 2012, and will be completed by late April 2012. USEPA will provide periodic updates to SSFL Stakeholders regarding the status of the soil sampling program as well as the laboratory analysis and data interpretation.

REFERENCES

- Environmental Systems Research Institute, Inc., 2012. ArcGIS, Create Random Points tool, Desktop 10, February 13. http://help.arcgis.com/en/arcgisdesktop/10.0/help/index.html#/How_Create_Random_Points_works/0017000000t4000000/
- HydroGeoLogic, Inc., 2011. Final, Technical Memorandum, Subarea HSA-7, Subarea HSA-3, Subarea Northern Buffer Zone, Historical Site Assessment, Santa Susana Field Laboratory Area IV Radiological Study, Ventura County, California. December.
- HydroGeoLogic, Inc., 2012. Field Sampling Plan for Soil Sampling, Area IV Radiological Study, Santa Susana Field Laboratory Ventura County, California. March.
- McLaren/Hart Environmental Engineering Corporation, 1993. Multi-media Sampling Report for the Brandeis-Bardin Institute and the Santa Monica Mountains Conservancy. March.

State of California, Environmental Protection Agency, Department of Toxic Substances Control, 2010. Administrative Order On Consent For Remedial Action, Santa Susana Field Laboratory, Simi Hills, Ventura County, California. December 6.

LIST OF ATTACHMENTS

Attachment 1 Tables
Attachment 2 Figures
Attachment 3 Support Figures

ATTACHMENT 1

Table 1 Summary of Soil Sample Locations in the Northern Buffer Zone

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
1	Drainage	NBZ West - Northwestern portion of the NBZ. West of the Arness fire road.	Area may have been used as open storage in the past based on access via the Arness fire road.	Default
2	Surface	NBZ West - Northwestern portion of the NBZ. East of the Arness fire road.	Area may have been used as open storage in the past based on access via the Arness fire road.	Default
2	Subsurface	NBZ West - Northwestern portion of the NBZ. East of the Arness fire road.	Area may have been used as open storage in the past based on access via the Arness fire road.	Default
3	Surface	NBZ West - Northwest portion of the NBZ in flat area on the Arness fire road, along the northern boundary.	Area may have been used as open storage in the past based on access via the Arness fire road.	Default
3	Subsurface	NBZ West - Northwest portion of the NBZ in flat area on the Arness fire road, along the northern boundary.	Area may have been used as open storage in the past based on access via the Arness fire road.	Default
4	Drainage	NBZ West - Drainage leading to the northeast from the Arness fire road.	Drainage may have received surface water run-off from the Arness fire road and area of potential open storage activity.	Default
5	Subsurface	NBZ West - North side of dirt road leading to the northeast from the Arness fire road.	Area may have been used as open storage in the past based on access via dirt road.	Default
6	Subsurface	NBZ West - North side of dirt road leading to the northeast from the Arness fire road.	Area may have been used as open storage in the past based on access via dirt road.	Default
7	Subsurface	NBZ West - North side of dirt road leading to the northeast from the Arness fire road.	Area may have been used as open storage in the past based on access via dirt road.	Default
8	Subsurface	NBZ West - North of the FSDF, approximately 220 feet northwest of Outfall 5.	Area may have been used as open storage in the past based on access via dirt road and proximity to the FSDF.	Default
9	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
9	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
10	Subsurface	NBZ West - Approximately 250 feet north of Outfall 6, in the flat area at the end of the dirt road that leads northeast from the Arness fire road.	Area may have been used as open storage in the past based on access via dirt road.	Default
11	Drainage	NBZ West - In drainage that flows to the northeast from the flat area at the end of the dirt road that leads northeast from the Arness fire road.	Drainage may have received surface water flow from possible open storage activities based on access via dirt road.	Default
11	Subsurface	NBZ West - In drainage that flows to the northeast from the flat area at the end of the dirt road that leads northeast from the Arness fire road.	Drainage may have received surface water flow from possible open storage activities based on access via dirt road.	Default
12	Drainage	NBZ West - In drainage approximately 510 feet northeast of Outfall 6.	Potential radiological contamination from surface water flow from the FSDF and Outfall 6.	Default
12	Subsurface	NBZ West - In drainage approximately 510 feet northeast of Outfall 6.	Potential radiological contamination from surface water flow from the FSDF and Outfall 6.	Default
13	Drainage	NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
13	Subsurface	NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of the Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
14	Drainage	NBZ West - In drainage leading north from Outfall 7. Approximately 1,500 feet north of the Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
14	Subsurface	NBZ West - In drainage leading north from Outfall 7. Approximately 1,500 feet north of the Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
15	Surface	NBZ West - Approximately 510 feet northwest of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road. Debris noted during the gamma scanning survey.	Default
15	Subsurface	NBZ West - Approximately 510 feet northwest of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road. Debris noted during the gamma scanning survey.	Default
16	Drainage	NBZ West - Approximately 400 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
16	Subsurface	NBZ West - Approximately 400 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
17	Drainage	NBZ West - Approximately 500 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
17	Subsurface	NBZ West - Approximately 500 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
18	Drainage	NBZ West - Approximately 450 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
18	Subsurface	NBZ West - Approximately 450 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
19	Surface	NBZ West - Approximately 450 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
19	Subsurface	NBZ West - Approximately 450 feet north of the Building 4018.	Area may have been used as open storage in the past based on access via dirt road.	Default
20	Drainage	NBZ West - Approximately 700 feet down gradient of Outfall 3 and approximately 810 feet west-northwest of the RMHF Building 4076.	Potential radiological contamination from surface water run-off from the Outfall 3 and the RMHF.	Default
20	Subsurface	NBZ West - Approximately 700 feet down gradient of Outfall 3 and approximately 810 feet west-northwest of the RMHF Building 4076.	Potential radiological contamination from surface water run-off from the Outfall 3 and the RMHF.	Default
21	Surface	NBZ West - Approximately 270 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
21	Subsurface	NBZ West - Approximately 270 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
22	Surface	NBZ West - Approximately 290 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
22	Subsurface	NBZ West - Approximately 290 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
23	Surface	NBZ West - Approximately 230 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
23	Subsurface	NBZ West - Approximately 230 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
24	Surface	NBZ West - Approximately 275 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
24	Subsurface	NBZ West - Approximately 275 feet west of the RMHF Building 4076.	Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614).	Default
25	Surface	NBZ West - Approximately 200 feet north of the RMHF Building 4076.	PGRAY P1C-14 and vicinity to the RMHF	Default
25	Subsurface	NBZ West - Approximately 200 feet north of the RMHF Building 4076.	PGRAY P1C-14 and vicinity to the RMHF.	Default
26	Surface	NBZ West - Approximately 200 feet north of the RMHF Building 4076.	PGRAY P1C-15 and vicinity to the RMHF.	Default
26	Subsurface	NBZ West - Approximately 200 feet north of the RMHF Building 4076.	PGRAY P1C-15 and vicinity to the RMHF.	Default
27	Surface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
27	Subsurface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
28	Surface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
28	Subsurface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
29	Surface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
29	Subsurface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
30	Surface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
30	Subsurface	NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7.	Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6.	Default
31	Surface	NBZ West - Approximately 575 feet northwest of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
31	Subsurface	NBZ West - Approximately 575 feet northwest of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
32	Surface	NBZ West - Approximately 575 feet northwest of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
32	Subsurface	NBZ West - Approximately 575 feet northwest of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
33	Surface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
33	Subsurface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
34	Surface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
34	Subsurface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
35	Surface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
35	Subsurface	NBZ East - Approximately 575 feet north of the SRE Complex.	Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA.	Default
36	Subsurface	NBZ East - Approximately 925 feet West-northwest of the Electrical Substation.	Geophysical anomaly, "Conductivity".	Default
37	Subsurface	NBZ East - Approximately 925 feet West-northwest of the Electrical Substation.	Geophysical anomaly, "Conductivity".	Default
38	Drainage	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Potential radiological contamination from surface water run-off associated with debris pile noted during geophysical survey. Geophysical anomaly, "Magnetometer and Conductivity".	Default
38	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Potential radiological contamination from surface water run-off associated with debris pile noted during geophysical survey. Geophysical anomaly, "Magnetometer and Conductivity".	Default
39	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during gamma scanning survey.	Default
40	Surface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey.	Default
40	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey.	Default
41	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during geophysical survey.	Default
42	Surface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey.	Default
42	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey.	Default
43	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during gamma scanning survey.	Default
44	Surface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
44	Subsurface	NBZ East - Approximately 725 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
45	Surface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
45	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
46	Surface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
46	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
47	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey.	Default
48	Surface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey.	Default
48	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey.	Default
49	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
50	Surface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default
50	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey.	Default

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Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
51	Subsurface	NBZ East - Approximately 550 feet west-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey.	Default
52	Subsurface	NBZ East - Approximately 360 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. Disturbed ground noted during geophysical survey.	Default
53	Surface	NBZ East - Approximately 360 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
53	Subsurface	NBZ East - Approximately 360 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
54	Surface	NBZ East - Approximately 360 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
54	Subsurface	NBZ East - Approximately 360 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
55	Surface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of debris pile noted during geophysical survey.	Default
55	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of debris pile noted during geophysical survey.	Default
56	Surface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
56	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey.	Default
57	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
58	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
59	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Down gradient of metal and concrete debris noted during geophysical survey.	Default
60	Subsurface	NBZ East - Approximately 380 feet north-northwest of the Electrical Substation.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
61	Subsurface	NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
62	Subsurface	NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
63	Subsurface	NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
64	Subsurface	NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road.	Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey.	Default
65	Subsurface	NBZ East - Approximately 485 feet north of the Electrical Substation, north side of the dirt road.	Area may have been used as open storage in the past based on access via dirt road.	Default
66	Subsurface	NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211.	Area may have been used as open storage in the past based on access via dirt road.	Default
67	Subsurface	NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211.	Area may have been used as open storage in the past based on access via dirt road.	Default
68	Subsurface	NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211.	Area may have been used as open storage in the past based on access via dirt road.	Default
69	Subsurface	NBZ East - Approximately 30 feet north of Area II Building 2211.	Potential contamination from possible open storage or other historic activities associated with building 2202.	Default
70	Subsurface	NBZ East - Approximately 30 feet north of the Area II Building 2202.	Potential contamination from possible open storage or other historic activities associated with building 2202 activities.	Default
71	Subsurface	NBZ East - Approximately 30 feet north of the Area II Building 2203.	Potential contamination from possible open storage or other historic activities associated with building 2203 activities.	Default
72	Subsurface	NBZ East - Approximately 120 feet north of the Area II Building 2211.	Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206.	Default
73	Subsurface	NBZ East - Approximately 960 feet north of the Area II Building 2203.	Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206.	Default
74	Subsurface	NBZ East - Approximately 890 feet north-northeast of the Area II Building 2203.	Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206.	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
75	Drainage	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
75	Subsurface	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
76	Drainage	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
76	Subsurface	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
77	Drainage	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
77	Subsurface	NBZ East - Approximately 1,400 feet north-northeast of the Area II Building 2203.	Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation.	Default
78	Drainage	NBZ East - Approximately 1,300 feet north of the Area II Building 2211.	Potential contamination from Area IV historic activities in sediment along drainage.	Default
79	Drainage	NBZ East - Approximately 1,000 feet down gradient of the Outfall 10.	Potential radiological contamination from surface water flow associated with Outfall 10.	Default
79	Subsurface	NBZ East - Approximately 1,000 feet down gradient of the Outfall 10.	Potential radiological contamination from surface water flow associated with Outfall 10.	Default
80	Drainage	NBZ East - Approximately 1,000 feet northwest of the electrical substation.	Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey.	Default
80	Subsurface	NBZ East - Approximately 1,000 feet northwest of the electrical substation.	Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey.	Default
81	Drainage	NBZ West - Drainage leading to the northeast from the side road off of the Arness fire road.	Potential radiological contamination from surface water flow associated with possible open storage in the past based on access via dirt road.	Default
82	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
82	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
83	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
83	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
84	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
84	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5.	Drainage may have received surface water flow from the FSDF and Outfall 5.	Default
85	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6.	Drainage may have received surface water flow from the FSDF and Outfall 6.	Default
85	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6.	NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6.	Default
86	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	Default
86	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	Default
87	Drainage	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	Default
87	Subsurface	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6.	Default
88	Drainage	NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of the Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
88	Subsurface	NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of the Building 4100.	Potential radiological contamination from surface water flow from activities associated with Building 4100.	Default
89	Drainage	NBZ West - Approximately 400 feet north of the Building 4018.	Down gradient of area that may have been used as open storage in the past based on access via dirt road.	Default
89	Subsurface	NBZ West - Approximately 400 feet north of the Building 4018.	Down gradient of area that may have been used as open storage in the past based on access via dirt road.	Default
90	Drainage	NBZ West - Approximately 400 feet north of the Building 4018.	Down gradient of area that may have been used as open storage in the past based on access via dirt road.	Default
90	Subsurface	NBZ West - Approximately 400 feet north of the Building 4018.	Down gradient of area that may have been used as open storage in the past based on access via dirt road.	Default
91	Drainage	Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ.	Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL (0.207 pCi/g).	Default
91	Subsurface	Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ.	Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL (0.207 pCi/g).	Default
92	Drainage	Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ.	Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL (0.207 pCi/g).	Default
92	Subsurface	Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ.	Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL (0.207 pCi/g).	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
93	Drainage	NBZ East - Approximately 1,000 feet northwest of the electrical substation.	Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey.	Default
93	Subsurface	NBZ East - Approximately 1,000 feet northwest of the electrical substation.	Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey.	Default
94	Surface	NBZ West	Random Sample	Default
95	Surface	NBZ West	Random Sample	Default
96	Surface	NBZ West	Random Sample	Default
97	Surface	NBZ West	Random Sample	Default
98	Surface	NBZ West	Random Sample	Default
99	Surface	NBZ West	Random Sample	Default
100	Surface	NBZ West	Random Sample	Default
101	Surface	NBZ West	Random Sample	Default
102	Surface	NBZ West	Random Sample	Default
103	Surface	NBZ West	Random Sample	Default
104	Surface	NBZ West	Random Sample	Default
105	Surface	NBZ West	Random Sample	Default
106	Surface	NBZ West	Random Sample	Default
107	Surface	NBZ West	Random Sample	Default
108	Surface	NBZ West	Random Sample	Default
109	Surface	NBZ West	Random Sample	Default
110	Surface	NBZ West	Random Sample	Default
111	Surface	NBZ West	Random Sample	Default
112	Surface	NBZ West	Random Sample	Default
113	Surface	NBZ West	Random Sample	Default
114	Surface	NBZ West	Random Sample	Default
115	Surface	NBZ West	Random Sample	Default
116	Surface	NBZ West	Random Sample	Default
117	Surface	NBZ West	Random Sample	Default
118	Surface	NBZ West	Random Sample	Default
119	Surface	NBZ West	Random Sample	Default
120	Surface	NBZ West	Random Sample	Default
121	Surface	NBZ West	Random Sample	Default
122	Surface	NBZ West	Random Sample	Default
123	Surface	NBZ West	Random Sample	Default
124	Surface	NBZ West	Random Sample	Default
125	Surface	NBZ West	Random Sample	Default
126	Surface	NBZ West	Random Sample	Default
127	Surface	NBZ West	Random Sample	Default
128	Surface	NBZ West	Random Sample	Default
129	Surface	NBZ West	Random Sample	Default
130	Surface	NBZ West	Random Sample	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
131	Surface	NBZ West	Random Sample	Default
132	Surface	NBZ West	Random Sample	Default
133	Surface	NBZ West	Random Sample	Default
134	Surface	NBZ West	Random Sample	Default
135	Surface	NBZ West	Random Sample	Default
136	Surface	NBZ West	Random Sample	Default
137	Surface	NBZ West	Random Sample	Default
138	Surface	NBZ West	Random Sample	Default
139	Surface	NBZ West	Random Sample	Default
140	Surface	NBZ West	Random Sample	Default
141	Surface	NBZ West	Random Sample	Default
142	Surface	NBZ West	Random Sample	Default
143	Surface	NBZ West	Random Sample	Default
144	Surface	NBZ East	Random Sample	Default
145	Surface	NBZ East	Random Sample	Default
146	Surface	NBZ East	Random Sample	Default
147	Surface	NBZ East	Random Sample	Default
148	Surface	NBZ East	Random Sample	Default
149	Surface	NBZ East	Random Sample	Default
150	Surface	NBZ East	Random Sample	Default
151	Surface	NBZ East	Random Sample	Default
152	Surface	NBZ East	Random Sample	Default
153	Surface	NBZ East	Random Sample	Default
154	Surface	NBZ East	Random Sample	Default
155	Surface	NBZ East	Random Sample	Default
156	Surface	NBZ East	Random Sample	Default
157	Surface	NBZ East	Random Sample	Default
158	Surface	NBZ East	Random Sample	Default
159	Surface	NBZ East	Random Sample	Default
160	Surface	NBZ East	Random Sample	Default
161	Surface	NBZ East	Random Sample	Default
162	Surface	NBZ East	Random Sample	Default
163	Surface	NBZ East	Random Sample	Default
164	Surface	NBZ East	Random Sample	Default
165	Surface	NBZ East	Random Sample	Default
166	Surface	NBZ East	Random Sample	Default
167	Surface	NBZ East	Random Sample	Default
168	Surface	NBZ East	Random Sample	Default
169	Surface	NBZ East	Random Sample	Default
170	Surface	NBZ East	Random Sample	Default

Table 1
Summary of Soil Sampling Locations in the Northern Buffer Zone

Location ID	Sample Type	Location Description	Technical Justification	Analytical Suite ¹
171	Surface	NBZ East	Random Sample	Default
172	Surface	NBZ East	Random Sample	Default
173	Surface	NBZ East	Random Sample	Default
174	Surface	NBZ East	Random Sample	Default
175	Surface	NBZ East	Random Sample	Default
176	Surface	NBZ East	Random Sample	Default
177	Surface	NBZ East	Random Sample	Default
178	Surface	NBZ East	Random Sample	Default
179	Surface	NBZ East	Random Sample	Default
180	Surface	NBZ East	Random Sample	Default
181	Surface	NBZ East	Random Sample	Default
182	Surface	NBZ East	Random Sample	Default
183	Surface	NBZ East	Random Sample	Default
184	Surface	NBZ East	Random Sample	Default
185	Surface	NBZ East	Random Sample	Default
186	Surface	NBZ East	Random Sample	Default
187	Surface	NBZ East	Random Sample	Default
188	Surface	NBZ East	Random Sample	Default
189	Surface	NBZ East	Random Sample	Default
190	Surface	NBZ East	Random Sample	Default
191	Surface	NBZ East	Random Sample	Default
192	Surface	NBZ East	Random Sample	Default
193	Surface	NBZ East	Random Sample	Default

Notes:

¹Default suite includes the radionuclide analysis shown in Table 2.3 of the Field Sampling Plan for Soil Sampling (HGL, 2012).

Cs - cesium

FSDF - Former Sodium Disposal Facility

HSA - Historical Site Assessment

ID - identification

NBZ - Northern Buffer Zone

PGRAY - potential gamma radiation anomaly

pCi/g - picocuries per gram

Pu - plutonium

RMHF - Radioactive Materials Handling Facility

RTL - Radiological Trigger Level

SRE - Sodium Reactor Experiment

ATTACHMENT 2

Figure 1	NBZ Overview
Figure 2	NBZ West Proposed Soil Samples
Figure 3	NBZ West Proposed Soil Samples
Figure 4	NBZ East Proposed Soil Samples
Figure 5	NBZ East Proposed Soil Samples

Figure 1 NBZ Overview Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

□ Subareas

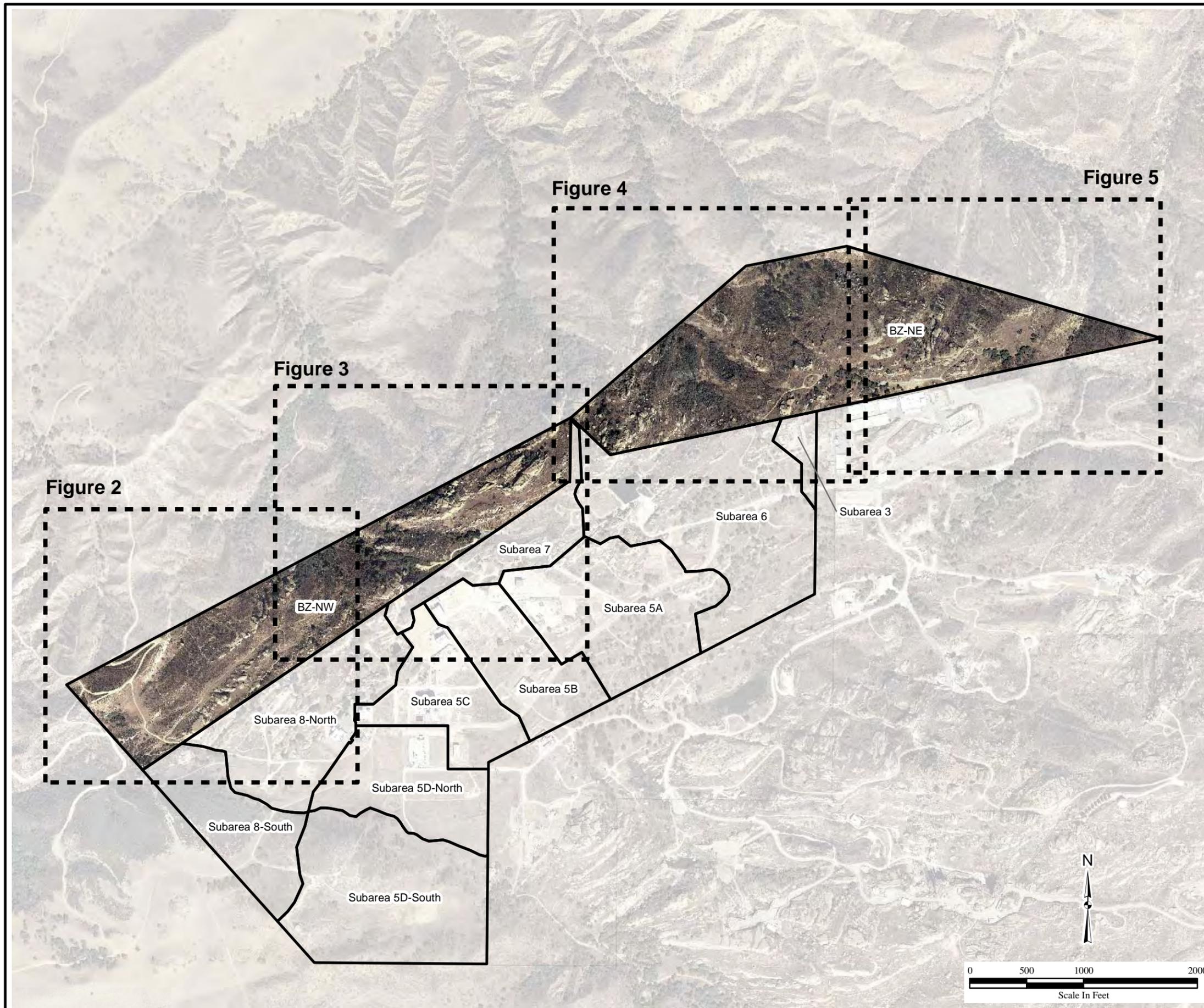


Figure 2
NBZ West Proposed Soil Samples
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Proposed NBZ Sample Locations

SampleType

- Surface (Random)
- Drainage
- Drainage Subsurface
- Subsurface
- Surface Subsurface
- Sediment Sample Locations
- PGRAY Locations
- Magnetometer Anomaly
- Magnetometer Anomaly
- Terrain Conductivity Anomaly
- Outfall Locations
- Subareas

Proposed Soil Sample Location ID

Proposed Sediment Sample Location ID

PGRAY ID

Outfall ID

NOTES:

- NBZ - Northern Buffer Zone
- PGRAY - Potential Gamma Radiation Anomaly
- ID - Identifier

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Fig2_NBZ_SampleLocationsWest.mxd
3/21/2012_pbillock

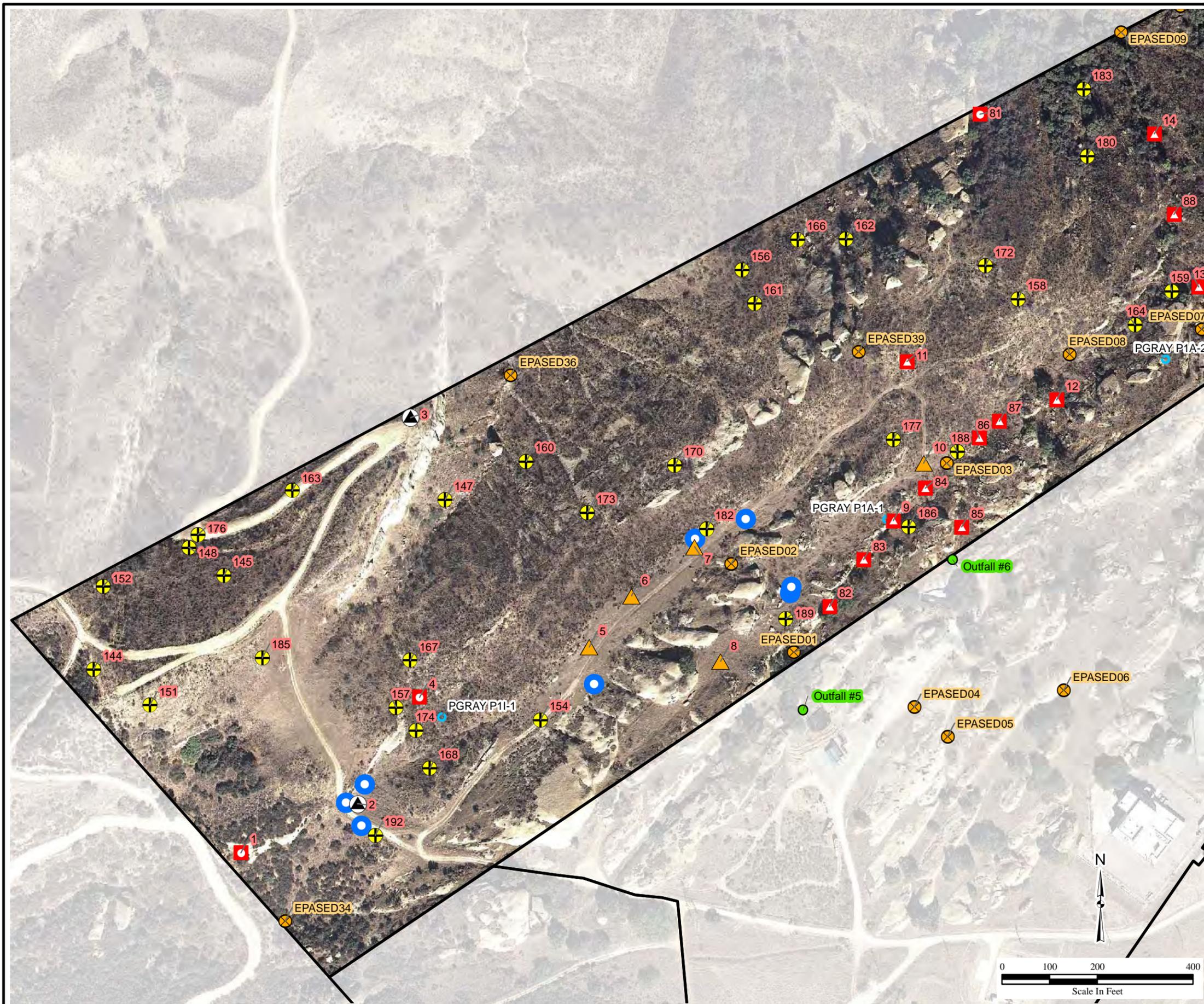


Figure 3
NBZ West Proposed Soil Samples
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Proposed NBZ Sample Locations

SampleType

- Surface (Random)
- Drainage
- Drainage Subsurface
- Subsurface
- Surface Subsurface
- Sediment Sample Locations
- PGRAY Locations
- Magnetometer Anomaly
- Magnetometer Anomaly
- Terrain Conductivity Anomaly
- Outfall Locations
- Subareas
- 102 Proposed Soil Sample Location ID
- EPASED27 Proposed Sediment Sample Location ID
- PGRAY P1D-1 PGRAY ID
- Outfall #4 Outfall ID

NOTES:
NBZ - Northern Buffer Zone
PGRAY - Potential Gamma Radiation Anomaly
ID - Identifier

Y:\Santa_Susana\EP9038\Soil_Sampling\SubareaNBZ\
Fig3_NBZ_SampleLocationsWest.mxd
3/21/2012_pbillock

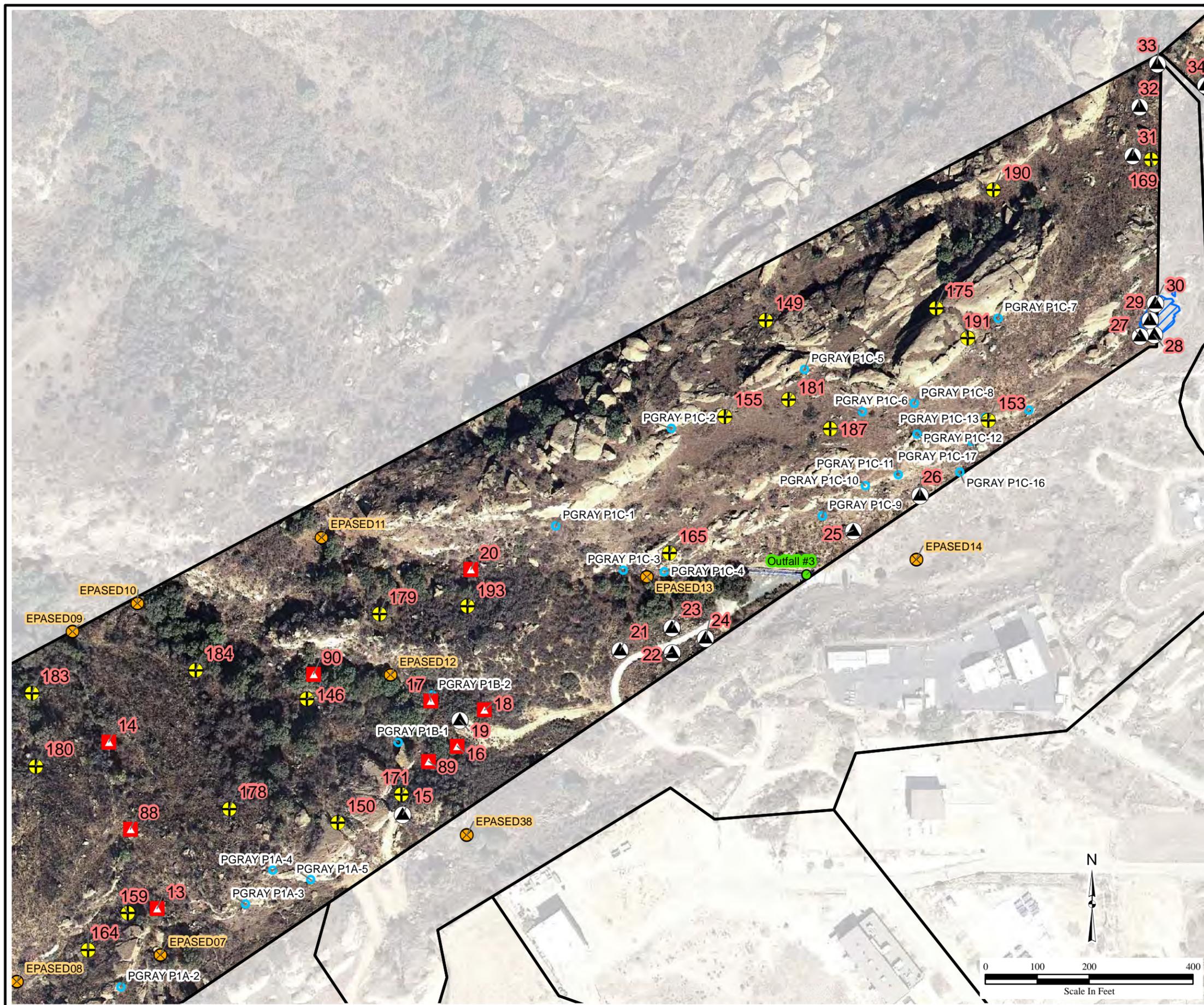


Figure 4
NBZ East Proposed Soil Samples
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Proposed NBZ Sample Locations

SampleType

- Surface (Random)
- Drainage
- Drainage Subsurface
- Subsurface
- Surface Subsurface
- Sediment Sample Locations
- PGRAY Locations
- Magnetometer Anomaly
- Magnetometer Anomaly
- Terrain Conductivity Anomaly
- Subareas
- Proposed Soil Sample Location ID
- Proposed Sediment Sample Location ID
- PGRAY ID

NOTES:
NBZ - Northern Buffer Zone
PGRAY - Potential Gamma Radiation Anomaly
ID - Identifier

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Fig4_NBZ_SampleLocationsEast.mxd
3/21/2012 pbillock

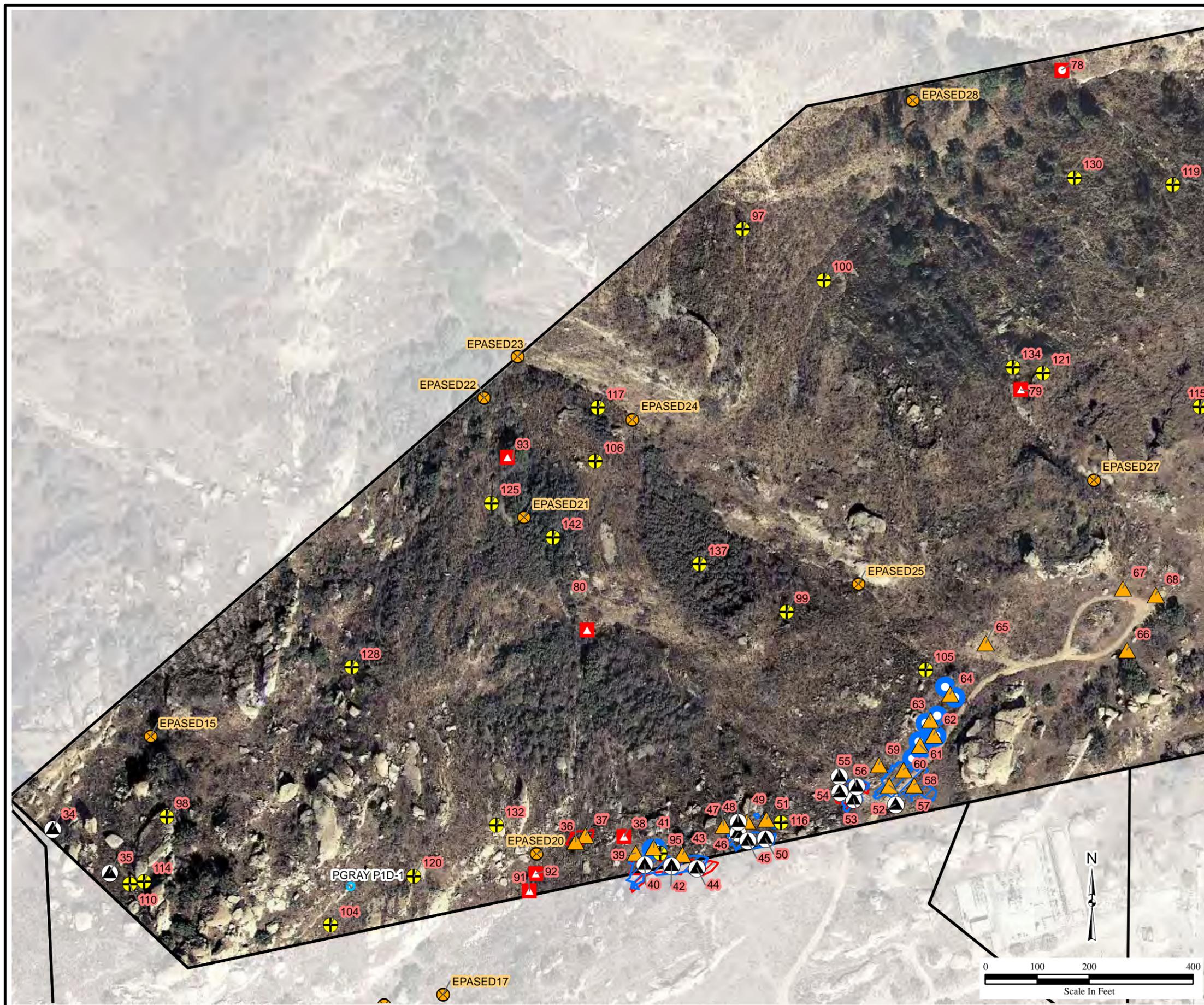


Figure 5
NBZ East Proposed Soil Samples
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

Proposed NBZ Sample Locations

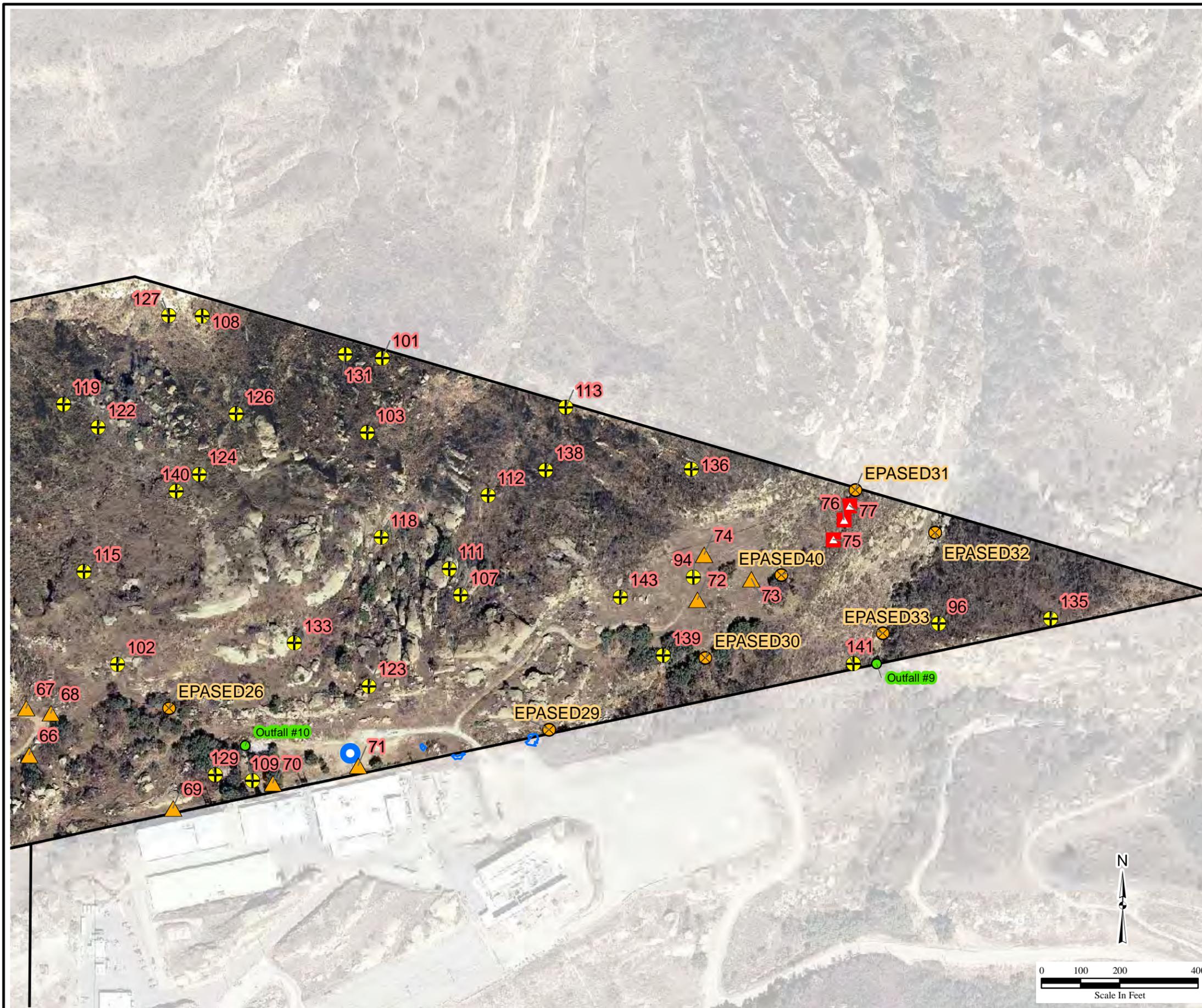
Sample Type

- Surface (Random)
- Drainage
- Drainage Subsurface
- Subsurface
- Surface Subsurface
- Sediment Sample Locations
- PGRAY Locations
- Magnetometer Anomaly
- Magnetometer Anomaly
- Terrain Conductivity Anomaly
- Outfall Locations
- Subareas
- 102 Proposed Soil Sample Location ID
- EPASED27 Proposed Sediment Sample Location ID
- Outfall #4 Outfall ID

NOTES:

NBZ - Northern Buffer Zone
ID - Identifier

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Fig5_NBZ_SampleLocationsEast.mxd
3/21/2012_pbillock



ATTACHMENT 3

Gamma Anomalies Northern Buffer Zone West
Gamma Anomalies Northern Buffer Zone East
Northern Buffer Zone Geophysical Anomalies

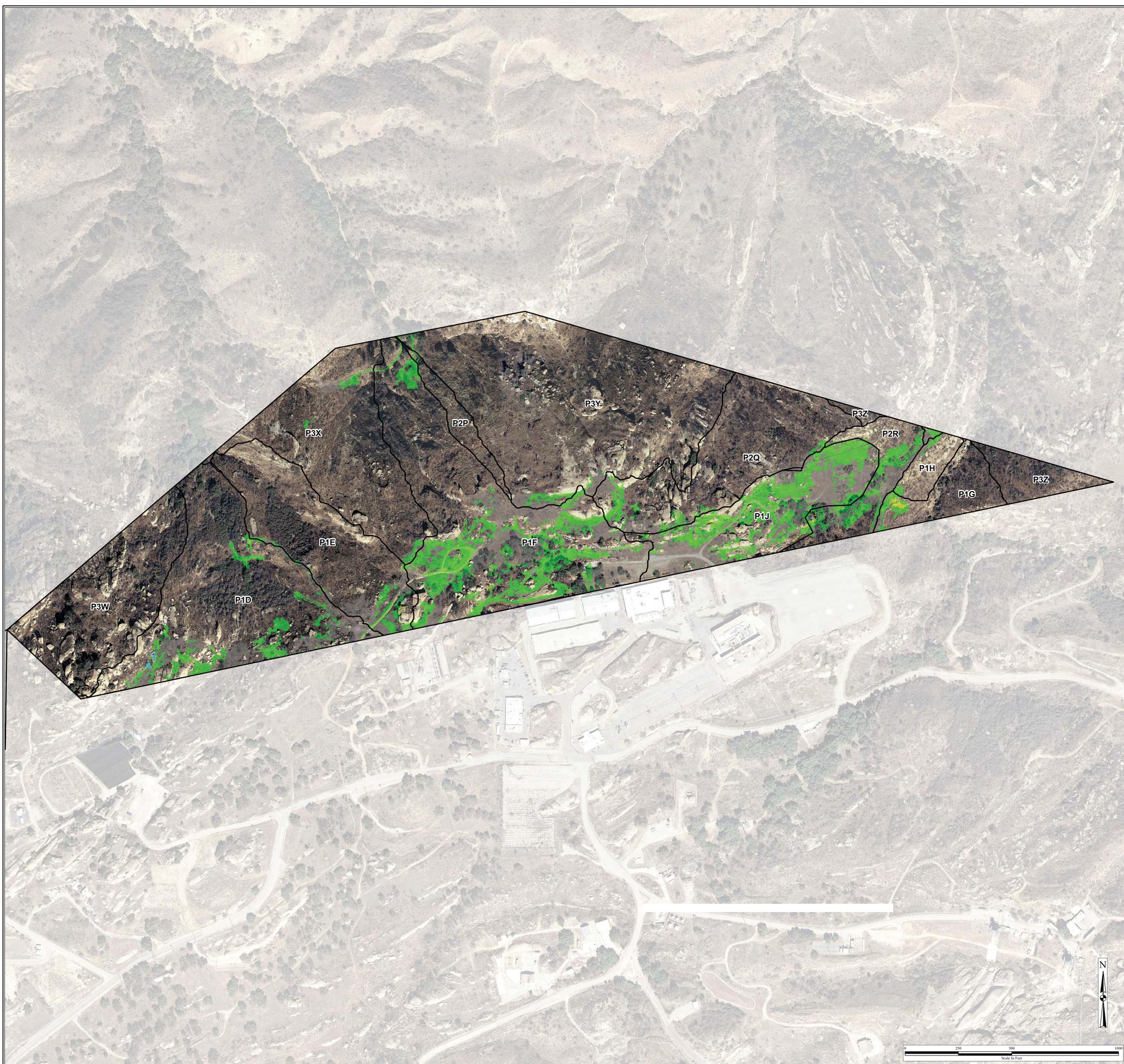
Figure 9.11
Gamma Anomalies
Northern Buffer Zone East
Former Santa Susana
Field Laboratory

U.S. EPA Region 9



Legend

-  PGRAY Location
-  PGRAY Boundary
-  Priority Area Boundary





Legend				HGL—Geophysical Investigation Report, SSFL—Ventura County, California	
<p>Centerline Roads</p> <ul style="list-style-type: none"> — Primary Roads — Secondary Roads — Tertiary Roads <p>Buildings</p> <ul style="list-style-type: none"> □ Demolished ■ Existing 	<p>Geophysical Anomalies</p> <ul style="list-style-type: none"> ▨ Terrain Conductivity ▨ Magnetometer ▨ Ground Penetrating Radar ▨ Cut and Fill Boundaries — Magnetometer Anomaly Linear — Terrain Conductivity Anomaly Linear — Ground Penetrating Radar — Interpreted Drain Remnant ● Point Source Magnetometer Anomaly ● Point Source Terrain Conductivity Anomaly 	<p>Surface Water</p> <ul style="list-style-type: none"> — Intermittent Stream — Permanent Stream — Surface Water — Lined Channel <p>Surface Water Flow</p> <ul style="list-style-type: none"> → Surface Water Flow (From Boeing Database, 2008) ● Drains ● Wells 	<p>Surface Features</p> <ul style="list-style-type: none"> — Channel — Drain — Drainage Divide — Gutter — Tank — Vault — Well 	<p>Utilities</p> <ul style="list-style-type: none"> — Gas — Storm Drain — Sanitary Sewer — Water — Water (Removed) — Water (Removed) — Pipes (Unknown Type) — Pipes (Unknown Type) 	<p>Northern Buffer Zone Anomalies Santa Susana Field Laboratory</p> <p>U.S. EPA Region 9</p>  <p style="font-size: small;">Y:\Santa_Susana\EP9038\Geophysical_Maps\StakeholderMeeting_NBZ\Geophysical_Anomalies.mxd 2/21/2012 jpbillock Source: HGL 2010, CIRGIS 2007 Coordinate System: NAD83 CA State Plane V</p> 