

**TABLE 4-1**

Observations Made During Surface Soil Sampling at Site LF01  
*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

| Location ID | Sample ID   | Depth<br>(feet-bgs) | Soil Description  | Comments  |
|-------------|-------------|---------------------|---|---|
| LF01-001    | LF01-SL001A | 0 - 2               | SILT with TRACE SAND: Medium dark brown silt with trace sand; coral fragments to 8"   | Root debris in upper 8"   |
| LF01-002    | LF01-SL002A | 0 - 2               | SAND with SILT and GRAVEL: weathered, calcareous sandstone rubble; buff to white, slightly moist, angular clasts, poorly-graded sand; trace clay (slightly cohesive). | Outside of landfill; upper 4" is organic-rich topsoil   |
| LF01-003    | LF01-SL003A | 0 - 0.5             | SANDY SILT with GRAVEL: dark brown sandy silt with gravel; loose, slightly moist  | Roots and organic debris; underlain by hard, well consolidated calcareous sandstone; backhoe can not penetrate.   |
| LF01-006    | LF01-SL006A | 0 - 2               | SILTY SAND with GRAVEL: buff to white weathered calcareous sandstone, moderately consolidated (crumbly, breaks to rubble and fine matrix)                             | Outside of landfill (north of toe)  |
| LF01-007    | LF01-SL007A | 0 - 1               | SILTY SAND with GRAVEL: medium brown weathered calcareous sandstone rubble, moist, loose.   | Toe of landfill (native materials)  |
|             |             | 1 - 2               | SILTY LEAN CLAY with SAND: medium dark brown, moist, moderately cohesive.   |   |
| LF01-008    | LF01-SL008A | 0 - 2               | SILT with SAND and GRAVEL: medium brown silt with sand and gravel; abundant charred wood (green waste); slightly moist, loose with gravel to 10"                      | At the edge of the toe; burn area; abundant ashes; metal debris partially burned, sticking out of the ground; minor medical waste (syringe, cap, and bottle). |
| LF01-009    | LF01-SL009A | 0 - 0.25            | Organic-rich topsoil  | Sample collected with hand trowel (located adjacent to cliff, north of landfill toe)  |
| LF01-010    | LF01-SL010A | 0 - 0.5             | SANDY SILT: dark brown sandy silt; organic debris; slightly cohesive in some places; overlaying bedded calcareous sandstone   | North of landfill toe; against cross-bedded cliff; sample collected using shovel.   |
| LF01-012    | LF01-SL012A | 0 - 2               | SILTY SAND with GRAVEL: medium brown silty, fine sand, well-graded, dry, loose; cobbles to 6"   | Minor glass, green waste located approximately 6 feet in from landfill toe; immediately south of one piece of large concrete block structure with rebar.      |
| LF01-013    | LF01-SL013A | 0 - 2               | SILTY SAND with GRAVEL: medium brown silty sand and gravel; well graded   | Concrete block, pieces of corrugated roof, timbers, fiberglass, electrical wire, cans, minor glass  |
| LF01-014    | LF01-SL014A | 0 - 2               | SILTY SAND with GRAVEL: medium brown silty sand with gravel (well graded), coralline, sandstone rubble to 16"   | Concrete, wood debris (telephone pole sized) (burned); barbed wire; iron pipe   |

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|-------------|----------------|------------------|--|---|
| LF01-015    | LF01-SL015A    | 0 - 2            | SILTY SAND with GRAVEL: medium light brown silty sand with gravel, blocks of coral   | Barbed wire, other guide wire material; 6"-diameter Y-shaped piping; wood debris; burned area   |
| LF01-016    | none collected |                  |  | Outside of landfill   |
| LF01-017    | LF01-SL017A    | 0 - 1            | MASSIVE CALCAREOUS SANDSTONE: buff to white; moderately weathered (weathers to poorly graded sand and rubble).   | Organic rich topsoil in upper 4"; excavated to 1 foot bgs   |
| LF01-018    | LF01-SL018A    | 0 - 2            | SILTY SAND and GRAVEL: medium brown silty sand with well-graded gravel; slightly moist, loose; larger rubble to 20"                                    | Twisted sheet metal; other metal wire debris (iron pipes, cables, minor glass).   |
| LF01-019    | LF01-SL019A    | 0 - 2            | SILTY SAND with GRAVEL: medium dark brown silty sand; well graded; somewhat moist, some slightly cohesive clasts; coralline cobbles to 8"; some shells | Trace of waste debris in bucket spoils; minor glass and plastic   |
| LF01-020    | LF01-SL020A    | 0 - 2            | SILTY SAND with GRAVEL: medium brown silty sand with well-graded gravel; dry; cobbles to 6"  | Glass, green waste (some burned, some not); fabric, less abundant waste (along landfill margin)   |
| LF01-022    | LF01-SL022A    | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE: buff to white, weathers to fine silty sand and rubble.   | Organic-rich topsoil in upper 4"; outside of landfill   |
| LF01-023    | LF01-SL023A    | 0 - 2            | SILTY SAND with GRAVEL: medium light brown silty sand with gravel; slightly moist, loose.  | Large blocks of sandstone debris at surface; green waste, pipe, cable, screening material, timbers (burned), glass  |
| LF01-024    | LF01-SL024A    | 0 - 2            | SILT with FINE SAND and GRAVEL: medium reddish brown silt (ash) with fine sand; some fine gravel to coralline cobbles.                                 | Abundant debris including broken glass, metal (heat deformed); green waste; appears burned at 18" bgs   |
| LF01-025    | LF01-SL025A    | 0 - 2            | SILTY SAND with GRAVEL: medium reddish brown silty (ash) sand, well-graded with gravel, sandstone (some coral) cobbles.                                | Rusted drum, abundant glass and green waste, some metal debris; burned area (heat deformed glass, ash); piece of iron tub(?)                                      |
| LF01-027    | LF01-SL027A    | 0 - 2            | SILTY SAND with GRAVEL: tan to buff-colored, weathered massive calcareous sandstone; well graded; moderately consolidated.                             | Outside of landfill   |
| LF01-028    | LF01-SL028A    | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE: with fine silty sand matrix  | Outside of landfill; topsoil to 3"  |
| LF01-029    | LF01-SL029A    | 0 - 2            | SILT (ASH) with SAND and GRAVEL: reddish brown, dry silt (ash) with fine sand, trace of gravel   | Burned area; abundant glass and metal debris ("King Kist" pop bottle dated 1965, baby food jars, stout amber (beer) bottles; metal debris (water tank) at surface |

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|-------------|-------------|------------------|--|---|
| LF01-030    | LF01-SL030A | 0 - 2            | SILTY SAND with GRAVEL: well-graded silty sand; coralline gravel cobbles                                     | Construction and household-type debris including a range of wire (telephone); possibly rusted brake shoes; pop bottles; concrete block and brick, wire screen; minor wood debris  |
| LF01-032    | LF01-SL032A | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE: buff to white, broken to rubble  | Outside of landfill   |
| LF01-033    | LF01-SL033A | 0 - 2            | SILT with SAND and GRAVEL: medium brown silt with fine sand (well-graded); gravel fine to massive 14" blocks | Beer bottles, cans, plastic fork, burned, plastic sheeting, rusted barbecues at surface (fill)  |
| LF01-034    | LF01-SL034A | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE RUBBLE: buff to white; weathered; moderately consolidated                       | Rebar, some wood debris in upper 4" (medium dark brown topsoil with organic debris).  |
| LF01-035    | LF01-SL035  | 0 - 2            | CROSS-BEDDED CALCAREOUS SANDSTONE: light buff colored; broken to large blocks                                | Topsoil/fill to 6" (dark brown, somewhat moist; root debris); glass debris at surface (probably due to land clearing activities at landfill); no visible glass or other debris in shallow fill                                |
| LF01-037    | LF01-SL037A | 0 - 0.5          | SILT with SAND and GRAVEL: medium brown silt with sand (well-graded); gravel clasts to 2"                    | Outside of landfill   |
|             |             | 0.5 - 1          | MASSIVE CALCAREOUS SANDSTONE: buff to white, breaks to rubble  | Native material   |
| LF01-038    | LF01-SL038A | 0 - 0.67         | SILT with FINE SAND: medium dark brown, slightly moist; loosely consolidated.                                | Plant debris, glass and cans, tree limbs (could be from pre-survey clearing); needle cap (fill)   |
|             |             | 0.67 - 2         | CALCAREOUS SANDSTONE: medium buff colored; weathered and loose   | Native material   |
| LF01-039    | LF01-SL039A | 0 - 0.67         | SILT(ASH) with FINE SAND: medium dark brown, slightly moist; loosely consolidated.                           | Glass, ashes, burned wood debris; at surface, rubber-backed, black & white-striped carpet runner; abundant coral and sandstone fragments  |
|             |             | 0.67 - 2         | CALCAREOUS SANDSTONE: medium buff colored; weathered and loose   | Native material   |
| LF01-040    | LF01-SL040A | 0 - 2            | SILT (ASH) with SAND: medium dark brown, sand (well-graded); moist; loosely consolidated.                    | Located approximately 25 E of sandstone cliff; abundant glass, metal cable at surface; fill included metal, glass, fiberglass fragments, checkered red-plastic tablecloth (mixture of household- and construction-type waste) |

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|-------------|-------------|------------------|--|--|
| LF01-041    | LF01-SL041A | 0 - 0.25         | SILTY SAND with GRAVEL: medium brown silty sand (well-graded) with fine gravel; loose                              | Minor debris at surface (possibly from land clearing)  |
|             |             | 0.25 - 2         | MASSIVE CALCAREOUS SANDSTONE: buff to white, breaks to rubble  | Native material  |
| LF01-042    | LF01-SL042A | 0 - 2            | SILT (ASH) with FINE SAND: medium brown, sand (well-graded); coral/sandstone fragments; dry; loosely consolidated. | Broken, heat-deformed glass; metal debris; ammo box; 4"-diameter pipe.   |
| LF01-043    | LF01-SL043A | 0 - 2            | SAND with SILT and GRAVEL: medium brown, well-graded sand; gravel fragments to 8"                                  | Assumed to be the edge of the excavated rock   |
| LF01-045    | LF01-SL045  | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE: buff to white, weathered, breaks to rubble   | Outside of landfill; silty sand and gravel topsoil with plant debris in upper 4"   |
| LF01-048    | LF01-SL048A | 0 - 0.25         | SILTY SAND with GRAVEL: weathered calcareous sandstone; buff to tan colored; loose; dry                            | Upper 1" topsoil; beyond 4", rock consolidated.  |
| LF01-049    | LF01-SL049A | 0 - 2            | MASSIVE CALCAREOUS SANDSTONE: buff to white, weathered, breaks to rubble   | Some wood debris to 6"   |
| LF01-051    | LF01-SL051A | 0 - 0.25         | Organic-rich topsoil   | Sample was taken from soil beneath an abandoned transformer casing. Sample collected with hand trowel (located adjacent to cliff, north of landfill toe. |
| LF01-052    | LF01-SL052A | 0 - 0.25         | Organic-rich topsoil   | Sample was taken from soil beneath an abandoned transformer casing. Sample collected with hand trowel (located adjacent to cliff, north of landfill toe. |
| LF01-053    | LF01-SL053A | 0 - 0.25         | Organic-rich topsoil   | Sample was taken from soil beneath an abandoned transformer casing. Sample collected with hand trowel (located adjacent to cliff, north of landfill toe  |
| LF01-054    | LF01-SL054A | 0 - 2            | SILTY SAND with GRAVEL: medium brown silty sand (well-graded) with gravel; upper 6" organic rich; loose            | Water tank at surface (half-buried); abundant wire cable; some bottles, other metal debris   |

**Notes:**

bgs = below ground surface