Appendix 9-B
Phase IB Archaeological Investigation Investigation for the Hecate Energy Cider Solar Project

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PHASE IB ARCHAEOLOGICAL INVESTIGATION FOR THE HECATE ENERGY CIDER SOLAR PROJECT, TOWNS OF OAKFIELD AND ELBA, GENESEE COUNTY, NEW YORK

New York State Historic Preservation Office
 # 20PR03191

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April 2021

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Management Summary

SHPO Project Review Number (if available): 20PR03191

Involved State and Federal Agencies (NYSDEC, US Army Corps of Engineers, FHWA): Office of Renewable Energy Siting (ORES) (Lead agency)

Phase of Survey: Phase IB Archaeological Investigation

Location Information:
Location:
Minor Civil Division: Towns of Oakfield and Elba
County: Genesee

Survey Area (Metric & English): Hecate Energy Cider Solar LLC plans to develop an approximately 500-megawatt (MW) solar project on approximately 4,650 acres (1,882 hectares) of leased private land (i.e., the Project Site). The maximum total Area of Potential Effect (APE) of soil disturbance for the project includes approximately 124.5 acres (50.4 hectares).

USGS 7.5 Minute Quadrangle Map: Batavia North, NY 1950 (photo-revised 1978); Oakfield, NY 1950 (photo-revised 1978).

Archaeological Survey Overview
Number & Interval of Shovel Test Pits (STPs): 1,918 STPs excavated in total, consisting of: 1,675 STPs at a 15-m (50-ft) interval; 137 STPs at a 7.5-meter (24.6 ft) interval; 4 STPs at a 3-m (9.8 ft) interval; 1 STP at a 4-m (13.1 ft) distance; 1 STP at a 2-m distance; 100 STPs at a 1-m (3.28 ft) interval.

Surface Inspection Survey: Approximately 27.29 acres (11 hectares).
Surface Survey Transect Interval: 3-meter to 5-meter intervals between technicians.

Results of Archaeological Survey
Number & name of precontact sites identified: Two (2): PCI/Cider Solar-1; and PCI/Cider Solar-2:

PCI/Cider Solar-1. A total of 13 lithics were found during surface inspection within a 65-m^2 (213-ft^2) area cluster of three surface find locations approximately [redacted] portion of the Project Site. Lithic artifacts found are all debitage and include: 7 flake fragments, 4 pieces of shatter, 1 primary reduction flake, and 1 core. All of these artifacts are regionally available Onondaga chert. This site appears to be the remains of a small lithic workshop where the early stages of lithic tool-making occurred. No diagnostic artifacts were found that could be indicative of a particular time-frame for occupation. This small archaeological site is temporarily designated PCI/Cider Solar-1 until a Unique Site Number (USN) is assigned by the OPRHP.

PCI/Cider Solar-2. A total of 13 lithic artifacts were found during surface inspection within a 787-m^2 (2,582-ft^2) area cluster of at six surface find locations approximately [redacted] of the Project Site. Lithic artifacts found include two tools (projectile point fragment and a triangular knife or projectile point) and 11 pieces of debitage including: 6 flake fragments, two tertiary reduction flakes, 1 secondary reduction flake, 1 piece of shatter, and 1 core. All of these artifacts are regionally available Onondaga chert. The site appears to be the remains of a relatively, briefly occupied camp. No definitive diagnostic artifacts were found that could be indicative of a particular time-frame for occupation. Multiple scattered stray/isolated lithic artifacts were also found in the vicinity. This small archaeological site is temporarily designated PCI/Cider Solar-2 until a USN is assigned by the OPRHP.

Isolated Stay/Finds. A total of 22 additional lithic artifacts were found scattered across six of the investigated parcels (Parcels 25, 25, 29, 39, 65 and 70). Close-interval radial shovel testing and additional surface inspection did result in finding any of the locations of the initial artifact finds. Therefore, these are considered isolated/stray finds and are not considered indicative for the presence of archaeological sites.

Number & name of historic sites identified: Remnants of a historic farmstead (a well/pump, a sheet midden, and a surface garbage dump) were found [redacted]. Review of nineteenth and twentieth century maps depict an MDS associated with "A. Sleeper" (1854) and "John P. Sleeper" (1874); and an MDS with outbuildings associated with "Chas. Bloom" (1904) and unattributed (1950). No foundations or other evidence of the MDS buildings were found during surface inspection or shovel testing. Although evidence of this farmstead is present, the remains are not considered an intact archaeological site as this location is considered to have low research potential.

Recommendations

The following recommendations are made in consideration of the New York State Historic Preservation Office's *Guidelines for Solar Facility Development Cultural Resources Survey Work (Guidelines)* issued July 30, 2020 and again referred to by the SHPO in their *Phase IB Archaeological Survey Recommendations/Sensitivity Model Testing Protocol* issued on October 27, 2020. The *Guidelines* define potential substantial soil disturbances and impacts to archaeological cultural resources as "areas of grading and excavation more than six inches deep, grubbing, tree and stump removal, and trenches more than three feet wide, unless the archaeological sensitivity warrants greater effort. Construction of solar project components that are not considered to result in substantial soil disturbances and be a significant threat to archaeological cultural resources include: panel arrays and perimeter fencing and utility poles, so long as their associated posts are driven or drilled into the ground and no grubbing or grading is involved; and for excavations and grading less than six inches in depth. The Project Site is *not* considered highly sensitive for Native American burial sites or villages. Construction of project components such as panel arrays that are proposed at or near the locations of previously reported sites won't significantly disturb soils. With this in consideration, no additional investigation (i.e., Phase II) would be warranted or recommended for locations where archaeological sites were previously reported at the proposed locations of such low-impact solar project components.

Although there are no anticipated significant soil disturbances at the locations of previously reported sites, construction monitoring could be necessary to ensure construction activities remain limited to what has been stated.

The two Precontact Period archaeological sites (PCI/Cider Solar-1 and PCI/Cider Solar-2) found during this investigation will now be avoided through project redesign. No components which might result in significant soil disturbances are proposed at these site locations. The development of avoidance plans and or archaeological construction monitoring could be necessary to ensure construction activities remain limited to what has been stated.

No further investigation (i.e., Phase II) or avoidance is recommended where remnants of a historic farmstead (a well/pump, a sheet midden, and a surface garbage dump) were found on the north side of Lockport Road (east of Graham Road) during investigation of Parcel 31. Although evidence of a historic farmstead was found, the remains are not considered to be an intact archaeological site with research potential and potential significance to be eligible for NRHP-listing.

Report Author(s): R. Hanley, A. Brown; M. Steinback.

Date of Report: April 2021

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1.0 Introduction

1.1 PROJECT DESCRIPTION

Panamerican Consultants, Inc. (Panamerican) was contracted by Stantec, Rochester, New York, to conduct a Phase IB cultural resources investigation for the Hecate Energy Cider Solar Project (Cider Solar Project [CSP]) in the Towns of Oakfield and Elba in Genesee County, New York (Figure 1.1) Hecate Energy Cider Solar LLC plans to develop an approximately 500-megawatt (MW) solar project on approximately 3,500 acres (1,416 hectares) of leased private land. For the purposes of this investigation, the Project Site includes the parcels that comprise the approximately 3,500 acres (1,416 hectares). The maximum total construction Area of Potential Effect (APE) of soil disturbance for the project includes approximately 124.5 acres (50.4 hectares) and is further defined in Section 2. The Project Footprint, the limit of temporary disturbance within the Project Site caused by the construction and operation of all components, is much smaller (2,452 acres) and encompassed within the limits of the Project Site of the Phase IA investigation (Hanley and Steinback 2020). The project will involve the installation of photovoltaic panels arrayed primarily in fields on tracking structures and include buried electrical collection cables, inverters, access drives, and a point of interconnection station adjacent to a substation, fencing, and temporary laydown areas for equipment staging during construction.

The State Historic Preservation Office/Office of Parks, Recreation and Historic Preservation (SHPO/ OPRHP) had concurred with the recommendations of Panamerican's Phase IA archaeology investigation that a Phase IB archaeological survey is warranted due to the sensitivity of the project for archaeological cultural resources (letter to Jennifer Kelly [Stantec], dated September 24, 2020). The SHPO recommended that a Phase IB Scope-of-Work (SOW) be developed and submitted to OPRHP and the Indian Nations (October 27, 2020). The Phase IB investigation SOW was then developed following the Phase IB Archaeological Survey Recommendations/Sensitivity Model Testing Protocol issued for the CSP by Dr. Josalyn Ferguson of SHPO/OPRHP on October 27, 2020. The SOW was completed December 16, 2020 and submitted to the Office of Renewable Energy Siting (ORES) for their review and ultimate dispersal to the OPRHP and interested Indigenous Nations. Upon review of the SOW, Dr. Ferguson (SHPO/OPRHP) requested revisions and additions to the SOW (letter to Ms. Kelly [Stantec], January 11, 2021). The revised SOW was then completed January 29, 2021 and approved by OPRHP and involved Indigenous Nations (letter from OPRHP to Stantec, April 14, 2021). The approved SOW is incorporated into the discussion of methodology in Section 2 of this Phase IB investigation report.

The purpose of the Phase IB investigation is to identify potentially significant archaeological cultural resources that may be affected by the proposed project (New York Archaeological Council [NYAC] 1994). When present, the potential cultural significance of archaeological sites is assessed by applying the eligibility criteria established for listing in the National Register of Historic Places (NRHP) (see Section 1.3). The Phase IB cultural resource investigation was conducted in compliance with the National Historic Preservation Act (as amended) (54 U.S.C. 300101 et seq.) and its implementing regulations; the National Environmental Policy Act (42 U.S.C. 4321 et. seq.); the New York State Historic Preservation Act (Section 14.09); Article 10 of the New York Public Service Law; and the State Environmental Quality Review Act (SEQRA), as well as all relevant federal and state legislation. The investigation recommendations are in accordance with New York Archaeological Council investigation standards (NYAC 1994) and the SHPO guidance in its Phase 1 Report Standards (SHPO 2005). The investigation was also conducted according to the New York Archaeological Council's Standards for Archaeological Investigations and NYSHPO guidelines. The Phase IB field investigation was conducted between December 14, 2020 and March 22, 2021. Robert J. Hanley, RPA served as Principal Investigator. Senior Historian Mr. Mark A. Steinback, M.A., served as Panamerican Project Manager and Project Historian. Mr. Marty Boratin, B.A.. served as Field Director.

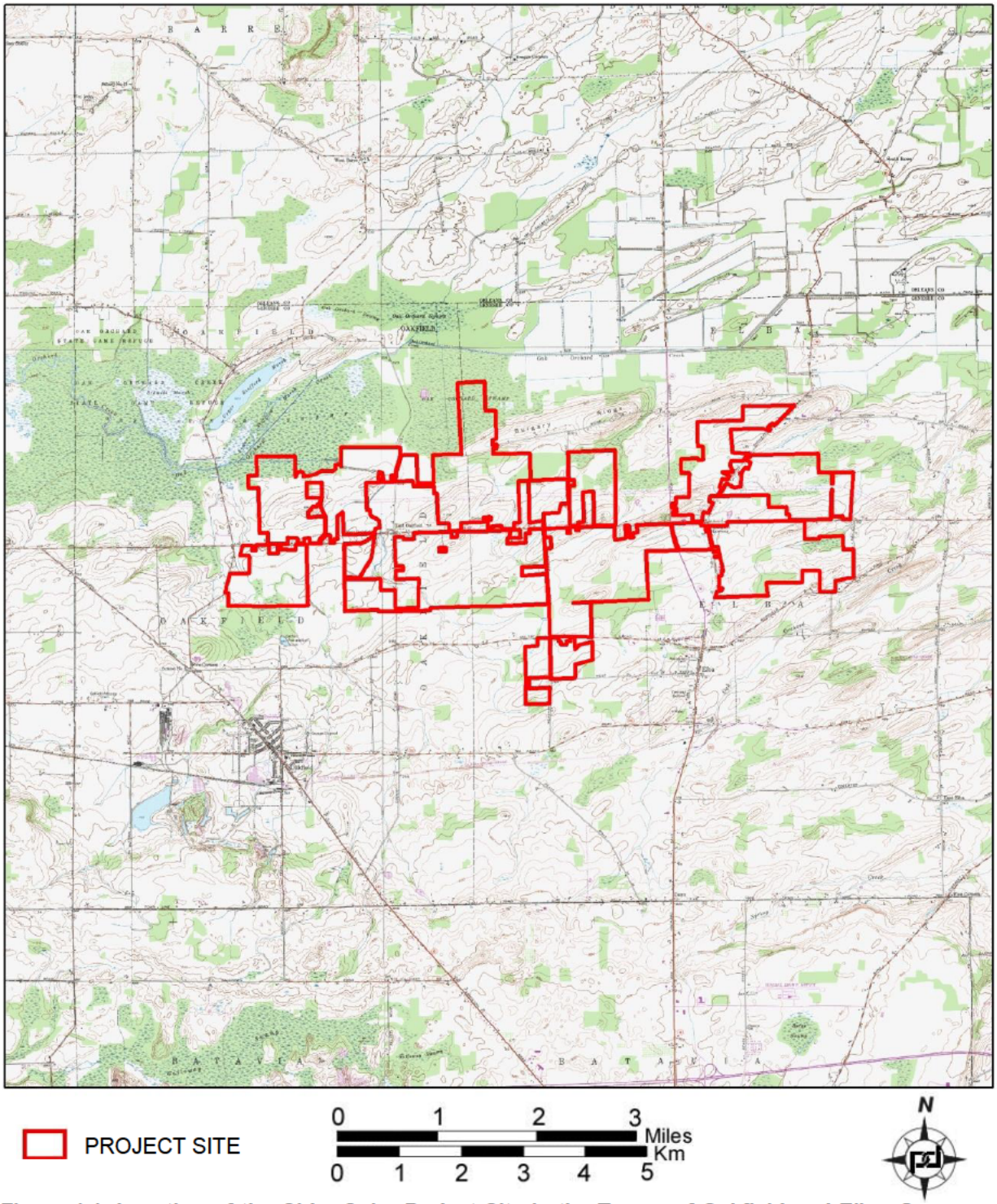


Figure 1.1. Location of the Cider Solar Project Site in the Towns of Oakfield and Elba, Genesee County, New York *(USGS Quadrangles: Batavia North, NY 1950 [1978]); Oakfield, NY 1950 [1978]; Albion, NY 1950; and Knowlesville, NY 1950*).

1.2 SUMMARY OF PREVIOUS RESEARCH AND ARCHAEOLOGICAL SENSTIVITY

As outlined in the Phase IA investigation (Hanley and Steinback 2020), the Project Site is considered sensitive for Precontact Native American and Historic archaeological sites. The setting of the Project Site—having well drained soils, a combination of relatively level terrain and hills, multiple small creeks, and the proximity of Oak Orchard Swamp/Oak Orchard Creek—was favorable for land-use and settlement. Eighteen (18) previously reported Precontact Native American archaeological sites are within or in proximity to the Project Site (Table 1.1). Seventeen (17) of these sites are clustered in the northwest portion of the Project Site, but portions of the remainder of the Project Site are also sensitive for similar sites.

Table 1.1. Archaeological Sites Reported in Proximity to the Project APE.

OPRHP USN#	Additional Site Name	Time Period	Site Type	Location (Figure)
03708.000007	ANR-47 Torrey Farm	Laurentian Archaic	Workshop	A ([redacted])
03710.000027	ANR-103 Falker no. 6	Late Archaic, Historic	Precontact Camp, Historic trash dump	B ([redacted])
03710.000033	ANR-109 Falker no.8	Unidentified precontact, Historic	Precontact Camp/workshop, Historic scatter	C ([redacted])
03710.000024	ANR-100 Heslor no. 3	Multi-Component (Possible Paleo, Early Woodland, Late Woodland	Workshop	D ([redacted])
03710.000023	ANR-99 Heslor no. 2	Transitional, Historic	Precontact Camp/workshop, Historic scatter	E ([redacted])
03710.000025	ANR-101 Falker no. 4	Unidentified Precontact, Historic	Precontact Camp, Historic scatter	F ([redacted])
03710.000026	ANR-102 Falker no. 5	Unidentified Precontact, Historic	Precontact Camp, Historic stray find	G ([redacted])
03710.000022	ANR-98 Heslor no. 1	Unidentified Precontact, Historic	Precontact Camp/workshop, Historic scatter	H ([redacted])
03710.000030	ANR-106 Heslor no. 4	Unidentified Precontact	Stray find	I ([redacted])
03710.000015	ANR-94 Falker no. 1	Middle Woodland, Historic	Precontact workshop/camp, Historic stray find	J ([redacted])
03710.000017	ANR-95 Falker no. 2	Unidentified Precontact	Stray find, workshop	K ([redacted])
03710.000038	ANR-166 Sharpknoll	Unidentified Precontact	no information	L ([redacted])
03710.000039	ANR-167 Falker no. 9	Early Woodland	Stray find	M ([redacted])
03710.000028	ANR-104 Sharp	Early Woodland	Stray find	N ([redacted])
03710.000019	ANR-96 Falker no. 3	Unidentified Precontact	Stray find	O ([redacted])
03710.000034	ANR-112 Heslor no.7	Unidentified Precontact, Historic	Workshop, Historic scatter	P ([redacted])
03710.000032	ANR-108 Heslor no. 6	Late Woodland, Historic	Precontact workshop, Historic trash scatter	Q ([redacted])
03710.000031	ANR-107 Heslor no. 5	Unidentified Precontact, Historic	Stray find, Historic scatter	R ([redacted])
03710.000029	ANR-105 Falker no. 7	Unidentified Precontact, Historic	Camp, Historic Stray Find	S ([redacted])

The Project Site is also considered to be sensitive for mid-to-late nineteenth century farmstead sites due to the presence of historic map-documented structures (MDS) and extant historic structures in the vicinity of the APE. Such locations are sensitive for cultural features associated with the historic farmsteads/ homesteads including middens, wells, privies, or foundations that could be present within the project's APE. However, the Hecate Cider Solar project is designed to avoid direct impacts to extant nineteenth and early twentieth century historic structures as the facility will largely consist of solar panel arrays placed in what are presently agricultural fields behind buildings primarily located along roads.

No New York State Museum (NYSM) archaeological sites or NYSM areas have been reported within the Project Site, although the Project Site does cross three SHPO-designated "Archaeologically Sensitive Areas" which encompass the cluster of previously reported archaeological sites within the Project Site as well as previously reported archaeological sites east and west of the Project Site. The southwest corner of the Project Site overlaps the former northeastern limits of the Tonawanda Indian Reservation of the Seneca Nation although no record of settlement structures or burials in this area was found (Figure 1.2; see Hanley and Steinback 2020: Section 3.2.2). Similarly, no State/NRHP-listed structures, sites, or districts are present within a half-mile radius of the Project Site as recorded in the files of the OPRHP as accessed through the NYS Cultural Resource Information System (CRIS). Though not in the construction APE of the project, there are two structures and two historic cemeteries with assigned USNs recorded on CRIS in the vicinity of the Project Site. The structures include USN 03708.000026, a circa 1830 Greek Revival dwelling located at 4048 Maltby Road, Oakfield (assessed as NRHP-eligible), and USN 03708.000016, a circa 1820-1840 vernacular dwelling at 6357 Oak Orchard Road, Elba (assessed as "not eligible" for NRHP-listing due to lack of integrity). The two historic cemeteries located in the general Project Site but not within or adjacent to the construction APE include USN 03708.000028 (Gardner Cemetery) at 3753 Lockport Road/County Route 12 in Oakfield (NRHP eligibility is not assessed) and USN Number 03710.000049 (East Oakfield Cemetery) at 3562 Lockport Road in Oakfield (assessed as "eligible" for NRHP-listing).

1.3 U.S. DEPARTMENT OF THE INTERIOR NRHP CRITERIA

During the investigation, archaeological deposits are judged against a standardized set of criteria (most applicably Criterion D) determined by the National Register guidelines. The NRHP is the official list of the country's significant cultural resources. The National Register provides a standard by which federal, state, and local agencies can rank historic resources. Potentially significant historic properties include districts, structures, objects, or sites which are at least 50 years old and which meet at a minimum one of the National Register Criteria. To be eligible for inclusion in the NRHP, a historic property must possess "the quality of significance in American History, architecture, archeology, engineering, and culture [that] is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

> A: That are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> B: That are associated with the lives of persons significant in our past; or
>
> C: That embody the distinctive characteristics of type, period, or method of construction, or that represent the work of a master, or possess high artistic value, or that represent a significant and distinguishable entity whose components lack individual distinction; or
>
> D: That have yielded, or may be likely to yield, information important in prehistory or history (U.S. Department of the Interior 1995:2).

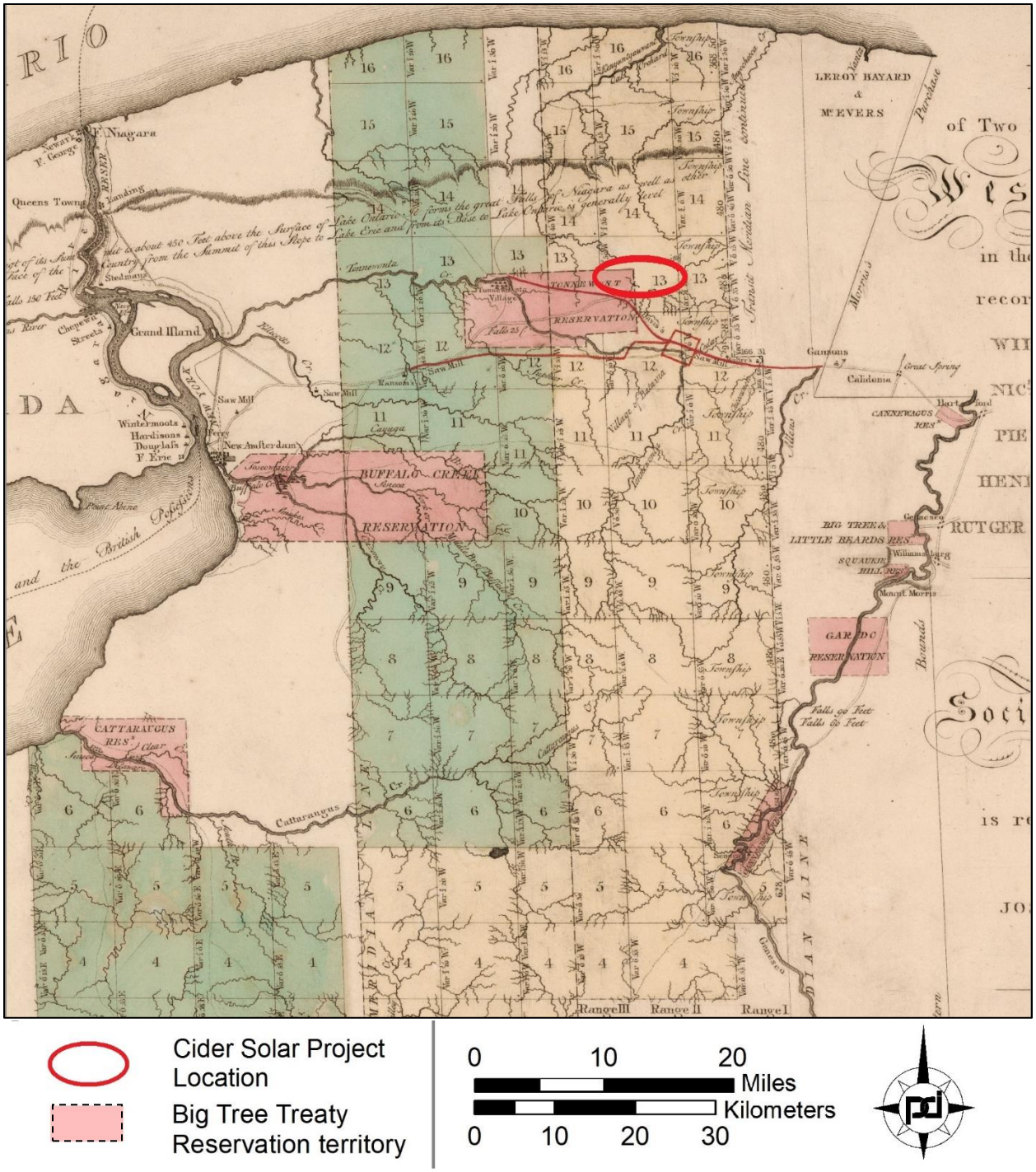


Figure 1.2. Location of the Cider Solar Project Site relative to Indian Nation Reservations and Territories established in the Treaty of Big Tree *(Ellicott 1800*).

2.0 Methodology

2.1 PHASE IB TESTING STRATEGY / SCOPE OF WORK

The Phase IB investigation implemented the testing strategy described in the SOW, which was developed using the results of the Phase IA investigation as well as a focus on areas of high archaeological sensitivity (i.e., where archaeological sites are most likely to be identified) which were determined using parameters stated by the SHPO in the *Phase IB Archaeological Survey Recommendations/Sensitivity Model Testing Protocol* (SHPO October 27, 2020). These areas include those that are:

- within 100 meters (328 feet) of permanent water—rivers, streams, wetlands, ponds and lakes, and hydric soils. (Hydric soils are included to account for areas that may not be currently near water but were in the past.) The 100-meter cut-off from water is based on data presented by Robert E. Funk in his 1993 *Archaeological Investigations in the Upper Susquehanna Valley, New York State*;
- on slopes equal to or less than 12 percent;
- within or near (i.e., less than 100 meters) known archaeological sites. The Project Site is *not considered* highly sensitive for Native American burial sites or villages as none have been previously reported in the vicinity (see the *Phase IA Cultural Resources Investigation for the Hecate Energy Cider Solar Project, Towns of Oakfield and Elba, Genesee County, New York* [Hanley and Steinback 2020]). No project components associated with potentially significant soil disturbances are proposed at the locations of previously reported archeological sites. Portions of the project APE where significant soil disturbances could occur and which are within 100 meters of previously reported sites will be investigated using higher intensity sampling (e.g., closer intervals, see methodology discussion below); and
- locations of standing or demolished historic structures.

All other portions of the Project Site are considered to have low sensitivity for the presence of archaeological sites, including areas of previous ground disturbance. The SHPO also stated they have no archaeological concerns with low sensitivity areas and did not recommend Phase IB testing in these locations (SHPO October 28, 2020). Figure 2.1 presents the locations assessed to have high archaeological sensitivity using the criteria presented above.

Archaeological Sensitivity for Deeply Buried Cultural Deposits. The setting of the project is *not* characteristically sensitive for deeply buried cultural deposits. A review of the USDA NRCS soil data finds few locations within the Project Site to have alluvium (sediment deposited by water) present and eolian sediment or colluvium (respectively wind and gravity deposited sediment) are absent. Only 2.3 percent of the project APE is within areas indicated to have alluvium. These locations are narrow bands of sediment along channels of relatively small unnamed tributary streams of Oak Orchard Creek (which is outside the APE) that have small or no formal flood plains (Figure 2.2).

Area of Potential Effect (APE) Relative to Archaeological Sensitivity

In the *Phase IB Archaeological Survey Recommendations/Sensitivity Model Testing Protocol* (October 27, 2020), the SHPO recommended developing an archaeological sensitivity model and testing protocols. The SHPO recommended that Phase IB archaeological testing is warranted for areas of substantial proposed ground disturbance that fall within areas of high archaeological sensitivity. The SHPO listed the following project components and construction activities to likely result in significant soil disturbances:

- Grading and excavation more than six inches deep
- Grubbing, tree and stump removal
- Trenches more than three feet wide.

Phase IB archaeological testing was not recommended for "panel arrays; perimeter fencing and utility poles, if their associated posts are driven or drilled into the ground and no grubbing or grading is involved, and for excavations and grading less than six inches in depth."

The Cider Solar project components that could result in significant soil disturbance include: subsurface collection lines, access roads, inverters, and a substation. The maximum total Area of Potential Effect (APE) of soil disturbance for the project includes approximately 124.5 acres (50.4 hectares).

- Linear Components. The APE for linear components including collection lines and access roads is 121.9 acres (49.3 hectares). The total length is 106,173 ft (32,361.5 m) with a maximum width of 50 ft (15 m).
- Substation. The APE of the proposed substation is 2.46 acres (1 hectare).

Inverter locations will be encompassed by the APE of adjacent collection lines and/or access roads. Therefore, their APE does not contribute to total APE.

Locations of these ground-disturbing components (i.e., the APE) are depicted relative to archaeologically sensitive areas in Figure 2.1.

2.2 FIELD METHODS

***Project Parcel Numbering*.** To facilitate the fieldwork and communication among the interested parties, Panamerican employed a parcel-based numbering system during the investigation. Eighty (80) parcels that encompass the Project Site were assigned arbitrary numeric designations (Parcels 1 to 80), which simplified identifying the locations of finds and the scheduling of fieldwork (Figure 2.3). The numbering system is also used in this report.

Pedestrian Survey and Photo-Documentation. All archaeologically-sensitive locations in proposed ground disturbance areas and identified in the SOW were subjected to pedestrian survey to identify cultural features, soil disturbances, and setting. These observations were used in conjunction with background research results to determine the appropriate field investigation strategy (i.e., surface inspection or shovel testing). Photographs were taken to document environmental conditions and pertinent site conditions (e.g., cultural features, disturbances).

Surface Inspection. Plowed fields with surface visibility greater than 70 percent will be surface inspected with a series of linear passes with field technicians spaced approximately 10 ft to 16.4 ft (3 m to 5 m) apart. A Trimble® global positioning system (GPS) unit will be used to record the Universal Transverse Mercator (UTM; North American Datum [NAD] 83) coordinates of artifacts found on the ground surface. Artifacts found within one meter of each other will be collected together and recorded as one set of coordinates as the small differences in location were considered less than that caused by previous movements due to agricultural plowing.

Shovel Testing. Shovel testing was utilized as a survey technique where surface inspection was not feasible due to poor ground surface visibility (e.g., covered by vegetation or snow). Shovel tests were excavated at a standard 15-m (50-ft) interval in single transects to investigate the 15-m (50-ft) wide maximum APE of linear components (e.g., collection lines and access roads) and at a distance of 15 m (50 ft) between parallel transects to survey the APE of the proposed substation. Portions of the project APE where significant soil disturbances could occur and are within 100 meters (328 ft) of previously reported sites will be shovel tested using a closer interval of 7.5 m (25 ft) between STPs.

Where single/isolated culturally positive STPs occur, eight additional STPs were excavated in cardinal directions around the initial positive STP at one and three meters to determine if the find is isolated/stray or if an archaeological site could be present. Where single artifacts were found during surface inspection, additional surface inspection of that location and four STPs were excavated in cardinal directions around

Figure 2.1. Archaeologically-sensitive areas within and surrounding the Project Site (*USGS Quadrangles: Batavia North, NY 1950 [1978]); Oakfield, NY 1950 [1978]; Albion, NY 1950; and Knowlesville, NY 1950*).

Figure 2.2. Alluvium present in the Project Site *(USGS Quadrangles: Batavia North, NY 1950 [1978]); Oakfield, NY 1950 [1978]; Albion, NY 1950; and Knowlesville, NY 1950).*

the find-spot at a distance of one meter to determine if the find is isolated/stray or if an archaeological site could be present. Additional close-interval distances (e.g., 2 m [6.6 ft] 4 m [13 ft] were applied in limited instances as deemed appropriate to setting. Shovel test designations listed in the STP Log (Appendix B) are ordered by Parcel number, Transect number, and STP number with a capital letter suffix denotes close-interval tests where applicable (e.g., 52-2.13A = Parcel 52, Transect 2, STP 13, and A indicating close interval).

STPs averaged 16 inches (40 centimeters [cm]) in diameter and were excavated at least four inches (10 cm) into culturally sterile soil unless an impasse such as bedrock was encountered or digging was precluded by water seepage. Soil colors were recorded using Munsell® color chart designations and soil descriptions followed pedological clay, silt, and sand categories (i.e., texture). Excavated soils were sieved through ¼-inch hardware screens. STPs were backfilled to original landscape contours upon completion. All information was recorded on shovel test forms, including provenience, stratigraphic context, natural or manmade disturbances, and the presence or absence of cultural materials.

Artifact Collection and Field Documentation. Artifacts found during the field investigation were collected and placed in plastic bags and labeled with pertinent provenience information. Modern materials, such as plastic and container glass, were noted on field forms but not collected. Materials, such as coal, red brick fragments, and miscellaneous nail fragments also were noted but not collected unless they could be clearly identified as over 50 years in age or were found with other artifacts.

All field information collected from shovel tests was recorded on shovel test forms, including the location, pertinent stratigraphic data, soil types, natural or manmade disturbances in the area, and the presence or absence of cultural materials. The field director maintained a daily log and photographed pertinent manmade disturbances and environmental conditions.

2.3 LABORATORY METHODS

Artifact bags were returned to the Buffalo Branch Office of Panamerican Consultants, Inc. for treatment and analysis. Procedures elaborated in 36 CFR Part 79 (Curation of Federally-Owned and Administered Archaeological Collections) and New York Archaeological Council (NYAC) Standards for Cultural Resources Investigations and the Curation of Archaeological Collections in New York State (1994) guided the processing of the materials. Non-metal items were washed in tap water, allowed to air dry, and separated by major material class (e.g., ceramics, glass, lithics) accompanied by provenience. Soil or other debris was removed from metal objects with brushes and picks. Upon drying, cleaned artifacts were placed in new plastic bags with provenience information recorded on the bag in waterproof ink.

2.4 LABORATORY ANALYSIS

Precontact Lithic Artifacts. Due to their durability and frequency of use, lithic (i.e., stone) artifacts are the most common types of artifacts typically found at Precontact archaeological sites. Lithic artifacts primarily belong to one of two categories, although there are exceptions (e.g., utilized debitage). These include tools and debitage (byproducts of lithic tool-making).

Lithic Tools. Lithic tools include artifacts modified through techniques such as bifacial and unifacial reduction and grinding, as well as altered lithics intended to achieve a goal (e.g., utilized flakes used for cutting or scraping; hammerstones). Projectile point morphological descriptions conformed to those outlined by Justice (1987) and Ritchie (1989). Bifacial tools are lithic artifacts modified (e.g., sharpened, thinned, shaped) on both surfaces of the artifact whereas unifacial tools are lithic artifacts that are only modified on one surface. The following lithic tool type descriptions were used for this investigation (see Appendix C):

Figure 2.3. Archaeological test areas, showing the parcel numbering employed for the investigation (USGS Quadrangles: Batavia North, NY 1950 [1978]); Oakfield, NY 1950 [1978]; Albion, NY 1950; and Knowlesville, NY 1950).

- **Biface.** This general term applies to bifacially made artifacts with multiple tool functions (e.g., scraper and knife) or are too fragmented to identify specific tool types and simply referred to as biface fragments.

- **Knife.** Knives are typically bifacially made lithic tools for the purpose of cutting. Usewear on knives is typically present on both surfaces of the biface.

- **Projectile Point.** This tool type is typically bifacially made to be hafted onto a spear or arrow shaft. As the name suggests, projectile points can be ranged/melee weapons for striking/ piercing prey. But they can be used as knives for cutting as well. Projectile points typically possess diagnostic traits that correspond with specific time periods. Unbroken projectile points were measured and described in Appendix C.

Lithic Debitage. Lithic debitage (debitage) are byproduct debris resulting from lithic tool manufacturing. The process of lithic tool-making is essentially the shaping and sharpening of raw lithic materials and this process generally results in larger quantities of debitage than finished tools. Because of this, debitage typically comprises a higher percentage of lithic artifacts found at sites than other materials in assemblages. For this investigation, debitage analysis was limited to identifying: the total quantity of items; if usewear was present (i.e., to determine if they were expedient tools); and to differentiate between the raw materials represented by cores (pieces of stone from which flakes were removed) and core fragments, and the lithic flakes and early reduction shatter. Although debitage was not analyzed to determine its source reduction stage, the following terminology could be used in specific artifact descriptions (Appendix C) or in the site discussion presented in Section 5. Pieces of debitage could be sub-classified into six categories, including primary reduction flakes and shatter, secondary reduction flakes, tertiary reduction flakes, and flake fragments; these are as follows:

- *Early stage reduction fragment:* Large, thick, irregular debitage removed during the preparation of a blank, perhaps for transport.

- *Shatter*: A fragment of debitage without a striking platform, bulb of percussion, or uniform flake scars. Shatter is typically created during early stages of reduction, such as removing blanks from a core. The force of percussion may separate these irregular fragments along cracks, imperfections, or other points of weakness in the material.

- *Primary reduction flake*: Debitage produced during the creation of a biface preform from a blank. A blank is a usable piece of lithic material selected for making a tool (Crabtree 1972:42). These flakes might also serve as blanks for less elaborate tools. They often have cortex or other impurities (e.g., crystalline inclusions, fossils) that were intentionally removed from the preform. Percussion is the principal method used for flake removal at this stage of tool manufacture.
- *Secondary reduction flake*: Debitage that results from thinning a preform. Pieces rarely have cortex, often exhibit broad dorsal scarring, and typically have well-defined striking platforms and bulbs of percussion.

- *Tertiary reduction flake*: Debitage produced during tool finishing. Examples are typically small and thin with small striking or pressure-flaking platforms.

- *Flake fragment and broken flake*. A flake fragment is a portion of a flake missing proximal features, such as the striking platform. A broken flake still has a striking platform but is otherwise incomplete (missing medial and distal or distal portions). The differentiation between flake fragments and broken flakes can be useful when considering assemblage size in relation to post-depositional damage (e.g., plow damage causing higher artifact counts).

These categories are broadly analogous to those outlined by Odell (2003:100), where primary reduction flakes, early-stage reduction fragments, and shatter are created during Stage 1, with Stages 2 and 3 respectively resulting in secondary reduction flakes and tertiary reduction flakes. It is also important to consider bifacial lithic tool manufacturing as a continuum that is divided into these somewhat arbitrary stages (Waldorf 1993:20). As a result, some artifacts exhibit characteristics of more than one stage. For example, the presence of cortex is a characteristic most often found on primary reduction flakes, but cortex can be found, although rarely, on finished tools (with exceptions such as Lamoka projectile points). Also, variables such as material quality (i.e., type, impurities) and size and shape of the parent material affect the choices available to the toolmaker. These factors, in addition to the ability of the toolmaker, affect the ultimate shape of the debitage and tools in an assemblage.

These classes are somewhat elementary in that they make the assumption that the goal of the knapper was bifacial tool production. In reality, debitage also results from other tool-manufacturing techniques, such as the bi-polar method of blade production (see Odell 2003:91-103) and bifacially reduced cores. Production of flakes themselves, for use as "blanks" to be further refined or as "expedient" tools, may have been the goal of a knapping event (e.g., Rinehart 2008:64-66).

Lithic Artifacts Altered by Heat Exposure. Fire-cracked rocks are stone fragments that have been fractured due to repeated thermal stresses. Native American groups throughout the Northeast employed stones in ways that produce FCR for cooking either in the construction of hearths ("dry roasting cooking") or by immersing heated stones into water-filled vessels for boiling ("stone boiling") (Driver and Massey 1957:229; Gubbels 2016:1-2). Variables recorded for FCR include stone type, color, stone parent context (i.e., well-rounded stones ['cobbles'], angular stones, etc. – e.g., Schoeneberger et al. 2012:2-49), and weight. When FCR is found, the amount (i.e., quantities, weight), the characteristics, and the distribution are considered relative to the site features and assemblage distribution.

Evidence of heat exposure can also be exhibited on lithic tools as heat spalls. When exposed to high temperature, lithics such as chert can break or have small pieces spall off their surface. Resulting larger scars on such artifacts are irregular surfaces simply called heat spalls and smaller "D"-shaped scars are referred to as potlid scars.

Analysis of Historical Artifacts. Historic artifact analysis entailed the categorization of artifacts by broad material class (e.g., ceramic, glass, metal), with further subdivision into artifact types based on manufacturing characteristics, form, and function. These identifications are based on the New York State Museum artifact catalog (NYSM 2004), published guides such as Miller (2000), Munsey (1970), Noël Hume (1969), and South (1977), and well established web sites (e.g., Stelle 2001). The data was recorded in an artifact catalog, which includes provenience, material class, artifact type, count, secondary type (e.g., color of decoration on ceramics), description (e.g., portion of vessel if a fragment, description of maker's mark), and the beginning and ending dates of manufacture. The initial purpose of the classification is to identify the general time period to which the assemblage dates. With larger assemblages, artifacts are also classified by functional category, which typically include household/ kitchen, structural/architectural, industrial, or personal. Functional categories enable archaeologists to characterize site use and the human activities which formed the archaeological assemblage at the site.

2.5 ARTIFACT STORAGE AND CURATION

Recovered cultural materials will be stored at Panamerican's Buffalo Office for processing and analysis. Processing of recovered artifacts follows guidelines elaborated in 36 CFR 79 (Curation of Federally-Owned and Administered Archaeological Collections) and in the New York Archaeological Council's Standards and Curation of Archaeological Collections document (NYAC 1994). Standard archaeological procedures of cleaning and storage will also be followed, with provenience information kept with artifacts at all times. Permanent curation of artifacts will be arranged in consultation with SHPO, involved Indian Nations, and in coordination with Stantec and Hecate upon landowner consent.

3.0 Archaeological Field Investigation Results

3.1 SURVEYED PARCEL FIELD INVESTIGATION RESULTS

The sensitivity model designed for the SOW identified testing locations within 58 of the 80 parcels where there is potential for significant soil disturbances associated with the project within archaeologically sensitive locations. These parcels include: Parcels 1-4, 7, 8, 10, 14, 15, 17, 19, 21-26, 29, 31-39, 41, 45, 45, 47-49, 51-54, 56, 57, 59, 60, 62-65, 67-73 and 75-80. The 22 remaining parcels will either not be significantly impacted by the project (i.e., result in little to no soil disturbance) or do not have locations with high sensitivity, or both.

As presented in Section 2.0, the total project APE is 124.5 acres (50.4 hectares) where construction of project components including subsurface collection lines, access roads, inverters, and a substation could result in significant soil disturbance. Ground surface visibility was sufficient (i.e., greater than 70 percent) to conduct surface inspection at 24 of the parcels for a total of 27.29 acres (11 hectares) of the APE. The remaining portions of the APE where surface inspection could not be conducted were shovel tested with a total of 1,918 STPs. 1,675 of the STPs were excavated using the standard 15-m (50-ft) interval. One hundred and thirty-seven (137) STPs were excavated using a 7.5-meter (25-ft) interval between tests in areas of higher sensitivity and around positive surface finds (see discussion below). The remaining 106 STPs were placed at closer intervals around artifact find-spots: 3-m (9.8-ft), 4-m (13.1-ft), 2-m (6.6-ft), and 1-m (3.3-ft) intervals (see Section 2.2 for additional description of interval rationale).

The field investigation results of the 58 surveyed parcels are presented below and summarized in Table 3.1 and all locations are presented in Section 3.2 as Figures 3.1 through 3.19.

Parcel 1. This parcel was primarily a mix of cut hay fields and wooded terrain but ground surface visibility was sufficient to surface inspect 1.13 acres (0.46 hectare) of the APE (Figures 3.2, 3.3 and 3.4). No cultural materials were found. The remainder of the APE required shovel testing, including 246 tests excavated at a 15-m (50-ft) interval (Appendix A: Photograph 1). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark to very dark grayish brown silty loam or sandy loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was recorded as yellowish brown sandy loam, and in lesser frequency mottled light yellowish brown and brownish yellow sandy clay loam or brownish sandy loam. The average terminal depth of the tests is 38 cm (15 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 2. This parcel was an agricultural field with cut corn but ground visibility was insufficient to surface inspect and 10 STPs were excavated at 15-m (50-ft) intervals (Figure 3.2). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log: Parcel 2/3 STP 1.1-1.10). Stratum 1 (A-horizon) was dark grayish brown sandy loam, averaging 27 cm (10.6 in) in depth. Stratum 2 (B-horizon) was recorded as brown clay loam, and in lesser frequency yellowish brown sand or sandy loam, or mottled light brownish gray and brown clay loam. The average terminal depth of the tests is 37 cm (14.6 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 3. This parcel was an agricultural field with cut corn but ground visibility was insufficient to surface inspect, therefore seven shovel tests were excavated at 15-m (50-ft) intervals (Figure 3.2). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log: Parcel 2/3 STP 1.11-1.20 and Parcel 3 1.1-1.7). Stratum 1 (A-horizon) was dark grayish brown sandy loam, averaging 33 cm (13 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy loam. The average terminal depth of the tests is 43 cm (16.9 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 4. This parcel was an agricultural field with alfalfa and poor ground visibility. Sixty-four (64) shovel tests were excavated at a 15-m (50-ft) interval (Figure 3.5). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was predominantly dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was brown silty loam or yellowish brown silty clay loam or silty loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Table 3.1. Summary of Field Investigation Results

Parcel Number (Figure #)	Survey Coverage		Previously reported sites within the parcel	Results
	Surface Inspection (acres)	Subsurface Shovel Tests 15-m (close Interval)		
1 (Figs. 3.2, 3.3 and 3.4)	1.13	246	---	No cultural materials
2 (Fig. 3.2)	---	10	---	No cultural materials
3 (Fig. 3.2)	---	16	---	No cultural materials
4 (Fig. 3.5)	---	64	---	No cultural materials
5 and 6 – No archaeologically sensitive areas are within the APE of these parcels				
7 (Fig. 3.6)	0.56	---	---	No cultural materials
8/9 (Fig. 3.6)	---	30	---	No cultural materials
10 (Fig. 3.6)	---	31	---	No cultural materials
11, 12 and 13 – No archaeologically sensitive areas are within the APE of these parcels				
14 (Figs. 3.6 and 3.7)	0.14	31	---	No cultural materials
15 (Fig. 3.7)	2.21	---	---	No cultural materials
16 – No archaeologically sensitive areas are within the APE of this parcel				
17 (Fig. 3.8)	0.34	6	---	No cultural materials
18 – No archaeologically sensitive areas are within the APE of this parcel				
19 (Fig. 3.7)	1.84	(12)	---	SF-10, SF-11, SF 19 and STP SF-10 1mW: 14 lithic artifacts (all debitage)
20 – No archaeologically sensitive areas are within the APE of this parcel				
21 (Fig. 3.9)	---	76	---	No cultural materials
22 (Fig. 3.10)	0.02	55	---	No cultural materials
23 (Fig. 3.10)	0.36	---	---	No cultural materials
24 (Fig. 3.10)	1.96	(8)	---	SF-2 and SF-3: 2 lithic artifacts (debitage)
25 (Fig. 3.10)	1.88	5 (56)	---	SF-3 through SF-10; SF-16, SF-17, SF-18, and SF-20 through SF-24: 27 lithic artifacts (25 lithic debitage, 2 lithic tools)
26 (Fig. 3.10)	1.69	---	---	No cultural materials
27 and 28 – No archaeologically sensitive areas are within the APE of these parcels				
29 (Fig. 3.8)	2.67	5 (4)	---	SF-12: 1 lithic artifact (debitage)
30 – No archaeologically sensitive areas are within the APE of this parcel				
31 (Figs. 3.3, 3.11)	---	22 (8)	---	Surface Scatter of 13 Historic and Modern artifacts, well with pump
32 (Fig. 3.11)	---	73	---	No cultural materials
33 (Fig. 3.11)	---	27	---	No cultural materials
34 (Fig. 3.3)		47 (56) Substation		No cultural materials
35 (Figs. 3.3 and 3.11)	0.03	28	---	No cultural materials
36 (Figs. 312 and 3.13)	---	11	---	No cultural materials
37 and 38 – No archaeologically sensitive areas are within the APE of these parcels				
39 (Fig. 3.13)	1.87	(4)	---	SF-13: 1 lithic artifact (debitage)
40 – No archaeologically sensitive areas are within the APE of this parcel				
41 (Figs. 3. 12 and 3.13)	2.06	33	---	No cultural materials
42 and 43 – No archaeologically sensitive areas are within the APE of these parcels				

Table 3.1 continued.

Parcel Number (Figure #)	Survey Coverage		Previously Reported Sites within the parcel	Results
	Surface Inspection (acres)	Subsurface Shovel Tests 15-m (Close Interval)		
44 (Figs. 3.12 and 3.13)	0.68	16	---	No cultural materials
45 (Figs. 3.12 and 3.13)	1.12	24	---	No cultural materials
46 – No archaeologically sensitive areas are within the APE of this parcel				
47 (Fig. 3.13)	---	18	---	No cultural materials
48 (Fig. 3.13)	---	2	---	No cultural materials
49 (Fig. 3.13)	---	47	---	No cultural materials
50 – No archaeologically sensitive areas are within the APE of this parcel				
51 (Figs. 3.13 and 3.14)	---	24	---	No cultural materials
52 (Figs. 3.14 and 3.15)	---	22 (45)	9 previously reported sites	No cultural materials
53 (Figs. 3.14 and 3.15)	---	45 (96)	8 previously reported sites	No cultural materials
54 (Figs. 3.14 and 3.15)	---	5	---	No cultural materials
55 – No archaeologically sensitive areas are within the APE of this parcel				
56 (Figs. 3.14 and 3.15)	---	16	---	No cultural materials
57 (Figs. 3.14 and 3.15)	---	61	---	No cultural materials
58 – No archaeologically sensitive areas are within the APE of this parcel				
59 (Fig. 3.16)	---	66	---	No cultural materials
60 (Fig. 3.15)	---	53	---	No cultural materials
61 – No archaeologically sensitive areas are within the APE of this parcel				
62 (Fig. 3.16)	---	11	---	No cultural materials
63 (Fig. 3.16)	1.07	5	---	No cultural materials
64 (Figs. 3.3, 3.17, 3.18)	2.16	7	---	No cultural materials
65 (Fig. 3.4)	1.33	(8)	---	SF-1 and SF-14: 2 lithic artifacts (tools)
66 – No archaeologically sensitive areas are within the APE of this parcel				
67 (Figs. 3.17 and 3.18)	0.01	64	---	No cultural materials
68 (Figs. 3.17 and 3.18)	1.33	35	---	No cultural materials
69 (Figs. 3.17 and 3.18)	0.80	29	---	No cultural materials
70 (Figs. 3.17, 3.18, 3.19)	0.03	120 (4)	---	SF-15: 1 lithic artifact (debitage)
71 (Figs. 3.17, 3.18, 3.19)	---	11	---	No cultural materials
72 (Fig. 3.19)	---	5	---	No cultural materials
73 (Fig. 3.19)	---	8	---	No cultural materials
74 – No archaeologically sensitive areas are within the APE of this parcel				
75 (Fig. 3.19)	---	3	---	No cultural materials
76 (Fig. 3.19)	---	7	---	No cultural materials
77 (Fig. 3.19)	---	11	---	No cultural materials
78 (Fig. 3.19)	---	11	---	No cultural materials
79 (Fig. 3.19)	---	65	---	No cultural materials
80 (Fig. 3.19)	---	19	---	No cultural materials

Parcel 5. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 6. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 7. This parcel was an agricultural field with cut corn and sufficient surface visibility for surface inspection of 0.56-acre (0.23 hectare), but no cultural materials were found (Figure 3.6) (Appendix A: Photograph 2).

Parcels 8 and 9. These parcels were an agricultural field with cut soy beans and poor ground visibility. The survey included 30 shovel tests excavated at a 15-m (50-ft) interval (Figure 3.6). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was recorded as yellowish brown silty loam or sandy clay loam and, in lesser frequency, light brown sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 10. This parcel was an agricultural field with cut hay and poor ground visibility. The survey of Parcel 10 included 31 shovel tests excavated at 15-m (50-ft) intervals (Figure 3.6). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) varied, recorded as brown silty loam; brownish yellow sandy clay loam; yellowish brown silty loam; or mottled light yellowish brown and brownish yellow sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 11. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 12. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 13. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 14. This parcel was an agricultural field with cut corn and sufficient surface visibility for surface inspection of only 0.14-acre (0.06-hectare) with negative results (Figure 3.7). The remainder of the APE was shovel tested with 31 STPs excavated with a 15-m (50-ft) interval between tests. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mottled pale brown and brownish yellow sandy loam and, in lesser frequency, mottled light brownish gray and brownish yellow sandy loam. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 15. This parcel was an agricultural field with cut corn and sufficient surface visibility for surface inspection of all 2.21 acres (0.89-hectare) of the APE (Figure 3.7) (Appendix A: Photograph 3). No archaeological materials/features were found.

Parcel 16. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 17. This parcel was an agricultural field with cut corn and sufficient surface visibility for surface inspection of 0.34 acre (0.14 hectare) with negative results (Figure 3.8). The remainder of the APE was shovel tested with six shovel tests excavated at 15-m (50-ft) intervals. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown sandy loam or sand, averaging 25 cm (9.8 in) in depth. Stratum 2 (B-horizon) was recorded as yellowish brown sandy loam or sand. The average terminal depth of the tests is 35 cm (13.8 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 18. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 19. The 1.84-acre (0.74-hectare) APE in this parcel had sufficient ground surface visibility to warrant surface inspection (Appendix A: Photograph 4). Thirteen (13) Precontact Native American lithic artifacts (all debitage) were found initially in a cluster of three surface find spots (see Appendix C: SF-10, SF-11 and SF-19) (Figure 3.7). Twelve (12) close-interval shovel tests were excavated at a 1-m (3.3-ft) interval in cardinal directions centered on surface finds with one positive STP at SF-10 1mW with one piece of debitage. Two additional STPs were then excavated at 2-m and 4-m (6.6-ft and 13-ft) intervals west of the positive test but they were negative. The APE was then moved 15 m (50 ft) west of the finds and survey of that location was negative. Further discussion of these finds is presented in Section 3.3.

Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was recorded as brown sandy loam and, in lesser frequency, light yellowish brown silty loam. The average terminal depth of the tests is 38 cm (15 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 20. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 21. This parcel was an agricultural field with soy and hay but ground visibility was insufficient to surface inspect. Therefore 76 shovel tests were excavated at a 15-m (50-ft) interval to survey the APE (Figure 3.9). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was yellowish brown silty clay loam or sandy clay loam (in lesser frequency silty loam), or light brown to brown sandy loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 22. This parcel was an agricultural field with winter wheat and sufficient surface visibility for surface inspection of only 0.02-acre (0.01-hectare) with negative results (Figures 3.8 and 3.10). The remainder of the APE was shovel tested with 55 shovel tests excavated at a 15-m (50-ft) interval. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was brown sandy or silty loam and, in lesser frequency, dark grayish brown silty loam, averaging 32 cm (12.6 in) in depth. Stratum 2 (B-horizon) was light yellowish brown sand or silty loam, in lesser frequency mottled light brownish gray and brownish yellow sandy clay loam. The average terminal depth of the tests is 42 cm (16.5 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 23. This parcel was a plowed and disked agricultural field with sufficient surface visibility for surface inspection of the relatively small 0.36-acre (0.15-hectare) APE. No archaeological materials or features were found (Figure 3.10) (Appendix A: Photograph 5).

Parcel 24. The 1.96-acre (0.79-hectare) APE in this parcel had sufficient ground surface visibility to surface inspect and two Precontact Native American lithic artifacts (both debitage) were found (see Appendix C: SF-2 and SF-3) (Figure 3.10) (Appendix A: Photograph 6). Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on each surface find with negative results. Further discussion of these finds is presented in Section 3.3.

Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty or sandy loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was recorded as mottled light yellowish brown and yellowish brown sandy loam or brown silty clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 25. The survey of the 1.88-acre (0.76-hectare) APE in this parcel primarily involved surface inspection due to sufficient surface visibility and resulted in finding 27 Precontact Native American lithic artifacts (24 pieces of debitage and 3 lithic tools) (Figure 3.10) (Appendix A: Photograph 7). Five STPs were excavated at 15-m (50-ft) intervals where surface visibility was insufficient. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was very dark grayish brown silty loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy

loam. The average terminal depth of the tests is 38 cm (15 in). Fifty-six close-interval STPs were excavated around the locations of surface finds but all were negative (see Appendix C: SF-4 through SF-9, SF-16, SF-18, and SF-20 through SF-24). Further discussion of these finds is presented in Section 3.3.

Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was brown loamy sand and, in lesser frequency, dark grayish brown sandy loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was recorded as yellowish brown sand and, in lesser frequency, mottled light yellowish brown and yellowish brown loamy sand or sand. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 26. This parcel was an agricultural field with cut corn and winter wheat and sufficient surface visibility for surface inspection of 1.69 acres (0.68-hectare), but no cultural materials were found (Figure 3.10).

Parcel 27. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 28. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 29. This parcel was primarily cut corn with ground surface visibility sufficient to surface inspect 2.67 acres (1.08 hectares) of the APE (Figure 3.8) (Appendix A: Photograph 8). One piece of Precontact Native American lithic debitage was found (see Appendix C; SF-12), but all four close-interval radial STPs excavated around the findspot were negative. Further discussion of these finds is presented in Section 3.3. The remainder of the APE with poor surface visibility which required shovel testing included five shovel tests excavated at a 15-m (50-ft) interval. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam or silty clay, averaging 23 cm (9 in) in depth. Stratum 2 (B-horizon) was light yellowish brown sandy clay and, in lesser frequency, yellowish brown sandy loam. The average terminal depth of the tests is 33 cm (13 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 30. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 31. This parcel was wooded terrain and a hay field with poor ground visibility. Therefore, 22 STPs were excavated at 15-m (50-ft) intervals to test the APE (Figures 3.3 and 3.11). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was predominantly dark grayish brown silty loam, averaging 26 cm (10.2 in) in depth. Stratum 2 (B-horizon) was mostly yellowish brown silty or sandy loam or brown silty loam. The average terminal depth of the tests is 36 cm (14.2 in). STP 3.10 was positive with three historic ceramic sherds (two ironstone and one lead-glazed redware) and a piece of window glass. Seven of eight tests excavated at 1-m (3.3-ft) and 3-m (9.8-ft) intervals in cardinal directions centered on positive STP 3.10 were also positive, with a mix of modern and historic artifacts including window glass, whiteware, redware, flowerpot fragments, brick fragments, rubber washer, metal, a cut nail, bottle glass and 11 cat bone fragments (see Appendix B). The artifacts of this mixed sheet midden were noted but not collected. Mixed modern and historic artifacts were also on the surface including mid to late twentieth century soft drink bottles, cut/butchered bone, ironstone, window glass, and stoneware crock fragments (see Appendix C) (Appendix A: Photograph 9). A well with a pump is located at the top of the hill approximately 75 m (246 ft) north of this mixed sheet midden (Appendix A: Photograph 10). Further discussion of these finds is presented in Section 3.3.

Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was recorded as dark gray to dark grayish brown silty loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was dark yellowish brown sandy loam and, in lesser frequency, dark brown sand. The average terminal depth of the tests is 38 cm (15 in).

Parcel 32. This parcel was an agricultural field with cut corn but ground visibility was insufficient to surface inspect and 73 STPs were excavated at 15-m (50-ft) intervals (Figure 3.11). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown

silty loam and, in lesser frequency, very dark grayish sandy loam, averaging 27 cm (10.6 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy clay loam or sandy clay and, in lesser frequency, light yellowish brown silty or sandy clay. The average terminal depth of the tests is 37 cm (14.6 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 33. This parcel was an agricultural field with cut corn but ground visibility was insufficient to surface inspect and 27 STPs were excavated using a 15-m (50-ft) interval between tests (Figures 3.3 and 3.11). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 34. This parcel was an agricultural field with cut corn but ground visibility was insufficient to surface inspect. A total of 47 STPs were excavated using 15-m (50-ft) intervals between tests to survey the APE of linear components (Figure 3.3 and 3.11) (Appendix A: Photograph 11). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was predominantly dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was yellowish brown or brown sandy clay loam. The average terminal depth of the tests is 42 cm (16.5 in). No artifacts or buried cultural features were identified within the shovel tests.

Substation. Parcel 34 is also the proposed location of the Substation. Ground visibility was insufficient to surface inspect this APE, therefore 56 shovel tests were excavated at 15-m (50-ft) intervals to insure survey coverage. Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy clay loam and, in lesser frequency, sandy clay or sandy loam. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 35. This parcel was an agricultural field with cut corn and sufficient surface visibility for surface inspection of only 0.03 acre (0.01 hectare) with negative results. The remainder of the APE was shovel tested with 28 shovel tests excavated at 15-m (50-ft) intervals (Figures 3.3, 3.11 and 3.12). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) was predominantly yellowish brown sandy loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 36. This parcel was an agricultural field with poor ground visibility (Appendix A: Photograph 12). Eleven (11) shovel tests were excavated at a 15-m (50-ft) interval (Figures 3.11, 3.12 and 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown sandy loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 37. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 38. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 39. The 1.87-acre (0.76-hectare) APE in this parcel had sufficient ground surface visibility to warrant surface inspection (Appendix A: Photograph 13). One Precontact Native American lithic artifact (debitage) was found during surface inspection (see Appendix C: SF-13) (Figure 3.13). Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on the surface find were all negative. Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 27 cm (10.6 in) in depth. Stratum 2 (B-horizon) was recorded as light yellowish brown sandy loam. The average terminal depth of the tests is 37 cm (14.6 in). No artifacts or buried cultural features were identified within the shovel tests. Further discussion of this find is presented in Section 3.3.

Parcel 40. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 41. This parcel was an agricultural field with cut corn and ground surface visibility sufficient to warrant surface inspection of 2.06 acres (0.83 hectare) of the APE. No cultural materials were found. The remainder of the APE required excavation of 33 shovel tests at a 15-m (50-ft) interval (Figures 3.12 and 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark to very dark grayish brown silty loam, averaging 33 cm (13 in) in depth. Stratum 2 (B-horizon) was mostly yellowish brown sandy loam and, in lesser frequency, brown sandy loam or mottled light brownish gray and brownish yellow sandy clay loam. The average terminal depth of the tests is 43 cm (16.9 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 42. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 43. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 44. This parcel was a cut hay field but ground surface visibility was only sufficient to surface inspect an area of 0.68 acre (0.23 hectare) in the APE. No cultural materials were found. The remainder of the APE required shovel testing, including 16 shovel tests excavated at a 15-m (50-ft) interval (Figures 3.12 and 3.13) (Appendix A: Photograph 14). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy loam. The average terminal depth of the tests is 41 cm (16 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 45. This parcel was a cut corn and hay field and ground surface visibility was sufficient to surface inspect an area of 1.12 acres (0.45 hectare) in the APE. No cultural materials were found. The remainder of the APE required shovel testing including 24 shovel tests excavated at a 15-m (50-ft) interval (Figures 3.12 and 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown or grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy clay loam and, in lesser frequency, mottled light brownish gray and brownish yellow silty clay. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 46. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 47. This parcel was an agricultural field with hay and poor ground visibility. Therefore, survey of Parcel 47 included 18 shovel tests excavated at a 15-m (50-ft) interval (Figure 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was very dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mottled pale brown and brownish yellow silty clay. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 48. This parcel was primarily covered with brush and had poor ground visibility. Therefore, survey of Parcel 48 included two shovel tests excavated 15 m (50 ft) apart (Figure 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was very dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mottled light yellowish brown and brownish yellow silty clay. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 49. This parcel was an agricultural field with soy and poor ground visibility during the field investigation. Therefore, survey of this parcel included 47 STPs excavated using a 15-m (50-ft) interval (Figure 3.13). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was predominantly very dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mostly yellowish brown silty clay and, in lesser frequency, mottled light brownish gray and yellowish brown silty clay. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 50. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 51. This parcel was an agricultural field with cut corn and there was poor ground visibility. Survey of this parcel included excavating 24 shovel tests at a 15-m (50-ft) interval (Figures 3.13 and 3.14). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was very dark grayish brown silty loam, averaging 36 cm (14.2 in) in depth. Stratum 2 (B-horizon) was mottled brown and light brownish gray sandy clay. The average terminal depth of the tests is 46 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 52. This parcel was an agricultural field with cut corn but ground visibility was poor during the field investigation and survey of this parcel required shovel testing (Appendix A: Photograph 15). A total of 67 STPs were excavated including 22 STPs using a 15-m (50-ft) interval between tests and 45 STPs using a 7.5-m interval in proximity (within 100 m) of nine archaeological sites reported to be in this parcel (Figures 3.14 and 3.15). Stratum 1 (A-horizon) was dark grayish brown silty loam and, in lesser frequency, silty clay loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) varied, recorded as yellowish brown sandy clay loam, light yellowish brown sandy clay loam, or mottled pale brown and brownish yellow sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in) (see Appendix B: Shovel Test Log). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 53. This parcel was an agricultural field with cut corn but ground visibility was poor during the field investigation and survey of this parcel required shovel testing (Appendix A: Photograph 16). A total of 141 STPs were excavated including 45 STPs at a 15-m (50-ft) interval between tests and 96 STPs at a 7.5-m interval in proximity (within 100 m) of archaeological sites reported to be in this parcel (Figures 3.14 and 3.15). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was recorded as dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mostly light yellowish brown to yellowish brown sandy clay loam and, in lesser frequency, mottled pale brown and brownish yellow sandy clay loam. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 54. This parcel was an agricultural field with cut corn and poor ground visibility during the field investigation. Therefore, survey of this small parcel included 5 STPs excavated using a 15-m (50-ft) interval between tests (Figures 3.14 and 3.15). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown sandy loam, averaging 34 cm (13.4 in) in depth. Stratum 2 (B-horizon) was brown sandy loam and, in lesser frequency, mottled pale brown and brownish yellow sandy clay loam. The average terminal depth of the tests is 44 cm (17.3 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 55. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 56. This parcel was an agricultural field with hay and poor ground visibility during the field investigation. Therefore, survey of this parcel included 16 STPs excavated at a 15-m (50-ft) interval between tests (Figures 3.14 and 3.15). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark gray silty loam and, in lesser frequency, dark grayish brown silty loam, averaging 31 cm (12.2 in) in depth. Stratum 2 (B-horizon) was mostly mottled pale brown and brownish yellow silty clay. The average terminal depth of the tests is 41 cm (16.1 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 57. This parcel was an agricultural field with hay and poor ground visibility during field investigation. Therefore, survey of this parcel included 61 STPs excavated using a 15-m (50-ft) interval between tests (Figures 3.14 and 3.15). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam and, in lesser frequency, very dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) varied, recorded as light yellowish brown silty clay loam, yellowish brown sandy loam, or mottled pale brown and brownish yellow sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 58. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 59. This parcel was an agricultural field with corn and winter wheat and had poor ground visibility during the field investigation. Survey of this parcel included 66 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.16). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was brown silty loam and, in lesser frequency, dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was recorded as mottled light brownish gray and brownish yellow sandy clay loam or pale brown and brownish yellow sandy clay loam and, in lesser frequency, yellowish brown clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 60. The survey of Parcel 60 included 53 shovel tests excavated at a 15-m (50-ft) interval (Figure 3.15). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was mostly grayish brown to very dark grayish brown silty loam and, in lesser frequency, brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) was recorded as mottled light brownish gray and brownish yellow silty clay loam or pale brown and brownish yellow sandy clay and, in lesser frequency, yellowish brown sandy loam or silty clay loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 61. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 62. This parcel was an agricultural field with soy obscuring ground visibility during the field investigation. Survey of this parcel included 11 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.16). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was brown silt and, in lesser frequency, dark grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) was brown sandy clay loam and, in lesser frequency, yellowish brown sandy loam or mottled very pale brown and yellowish brown sandy loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 63. This small parcel had sufficient ground visibility to allow surface inspection of all 1.07 acres (0.43 hectare) of the APE. No cultural materials were found. The remainder (approximately 76 m [250 ft]) of the APE required shovel testing including 5 shovel tests excavated at a 15-m (50-ft) interval between tests (Figure 3.16). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark gray silty loam, averaging 35 cm (13.8 in) in depth. Stratum 2 (B-horizon) was mostly yellowish brown sandy clay loam. The average terminal depth of the tests is 45 cm (17.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 64. This parcel was an agricultural field with cut corn with ground surface visibility sufficient to surface inspect 2.16 acres (0.87 hectare) of the APE. No cultural materials were found. The remainder of the APE required shovel testing including 7 shovel tests excavated using a 15-m (50-ft) interval between tests (Figures 3.17 and 3.18) (Appendix A: Photograph 17). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 34 cm (13.4 in) in depth. Stratum 2 (B-horizon) was yellowish brown silty loam and, in lesser frequency, dark yellowish brown sandy clay loam. The average terminal depth of the tests is 44 cm (17.3 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 65. The 1.33-acre (0.54-hectare) APE in this parcel had sufficient ground surface visibility to warrant surface inspection and two Precontact Native American lithic artifacts (both tools) were found (Appendix A: Photograph 18; see Appendix C: SF-1 and SF-14) (Figures 3.7 and 3.18). Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on each surface find's negative results. Further discussion of these finds is presented in Section 3.3. Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was recorded as yellowish brown silty loam or light yellowish brown sandy loam. The average terminal depth of the tests is 38 cm (15 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 66. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 67. This parcel included an agricultural field with radishes as well as wooded terrain. Surface visibility was only sufficient for 0.01 acre (0.004 hectare) with negative results. The remainder of the APE was shovel tested with 67 STPs excavated with a 15-m (50-ft) interval between tests (Figures 3.17 and 3.18). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was predominantly dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was mostly light brown sandy clay loam and, in lesser frequency, yellowish brown silty loam or sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 68. This parcel was an agricultural field with radishes and surface visibility was sufficient for 1.33-acre (0.54-hectare) with negative results. The remainder of the APE was shovel tested with 35 STPs excavated with a 15-m (50-ft) interval between tests (Figures 3.17 and 3.18). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 32 cm (12.6 in) in depth. Stratum 2 (B-horizon) was recorded as mottled light gray and brownish yellow sandy loam and, in lesser frequency, yellowish brown or light brown sandy loam. The average terminal depth of the tests is 42 cm (16.5 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 69. This parcel was an agricultural field with radishes and surface visibility was sufficient for only 0.8 acre (0.3 hectare) with negative results. The remainder of the APE was shovel tested with 29 STPs excavated with a 15-m (50-ft) interval between tests (see Appendix B: Shovel Test Log) (Figures 3.17 and 3.18). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) varied, recorded as mottled light yellowish brown and brownish yellow sandy loam; mottled light gray and brownish yellow silty loam, or yellowish brown sandy loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 70. This parcel was an agricultural field with winter wheat and cabbage and surface visibility was only sufficient for 0.03 acre (0.01 hectare) with negative results. The remainder of the APE was shovel tested with 120 STPs excavated with a 15-m (50-ft) interval between tests (Appendix A: Photograph 19) (Figures 3.17, 3.18 and 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was mostly dark grayish brown silty loam or brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) varied, recorded as yellowish brown sandy loam or sandy clay loam and, in lesser frequency, light brown, yellow brown or yellow brown sandy loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

One Precontact Native American lithic artifact (debitage) was found during surface inspection (see Appendix C: SF-15). Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on surface finds were all negative. Further discussion of this find is presented in Section 3.3. Two soil strata were recorded in the close-interval tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 71. This parcel was an agricultural field with winter wheat growing and poor ground visibility during field investigation. Therefore, survey included 11 STPs excavated using a 15-m (50-ft) interval between tests (Figures 3.17, 3.18 and 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was yellowish brown sandy clay. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 72. This parcel was an agricultural field with winter wheat growing and poor ground visibility during field investigation. Therefore, survey included 5 STPs excavated using a 15-m (50-ft) interval between

tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was mostly dark grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) was recorded as brown silty loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 73. This parcel is wooded and had poor ground visibility during field investigation (Appendix A: Photograph 20). Therefore, survey was limited to shovel testing and included 8 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was brown silty loam or grayish brown to dark grayish brown silty loam, averaging 29 cm (11.4 in) in depth. Stratum 2 (B-horizon) varied, recorded as mottled pale brown and yellowish brown sandy loam, brownish yellow sandy loam, or brown sandy clay loam. The average terminal depth of the tests is 39 cm (15.4 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 74. No archaeologically sensitive areas are within the APE of this parcel.

Parcel 75. The APE in this parcel followed the edge of a field and had poor ground visibility during the field investigation. Therefore, survey was limited to shovel testing and included 3 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 33 cm (13 in) in depth. Stratum 2 (B-horizon) was brown sandy clay loam. The average terminal depth of the tests is 43 cm (16.9 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 76. The APE in this parcel followed the edge of a field and had poor ground visibility during the field investigation. Therefore, survey was limited to shovel testing and included 7 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 30 cm (11.8 in) in depth. Stratum 2 (B-horizon) was brown sandy clay loam. The average terminal depth of the tests is 40 cm (15.7 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 77. The APE in this parcel followed the edge of a field and had poor ground visibility during the field investigation. Therefore, survey was limited to shovel testing and included 11 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was dark grayish brown silty loam, averaging 27 cm (10.6 in) in depth. Stratum 2 (B-horizon) was recorded as light yellowish brown sandy clay loam. The average terminal depth of the tests is 37 cm (14.6 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 78. The APE in this parcel was a field of cut corn with poor ground visibility during the field investigation. Survey was limited to shovel testing and included 11 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was recorded as dark grayish brown silty loam, averaging 27 cm (10.6 in) in depth. Stratum 2 (B-horizon) was brown sandy clay loam and, in lesser frequency, mottled light brownish gray and brownish yellow sandy clay loam. The average terminal depth of the tests is 37 cm (14.6 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 79. The APE in this parcel was a fallow field with poor ground visibility during the field investigation (Appendix A: Photograph 21). Survey was limited to shovel testing and included 65 STPs excavated at a 15-m (50-ft) interval between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was recorded as dark grayish brown silty loam and, in lesser frequency, grayish brown silty loam, averaging 28 cm (11 in) in depth. Stratum 2 (B-horizon) was mottled pale brown and brownish yellow sandy clay loam and, in lesser frequency, brown sandy clay loam. The average terminal depth of the tests is 38 cm (15 in). No artifacts or buried cultural features were identified within the shovel tests.

Parcel 80. The APE in this parcel was a fallow field and wooded terrain with poor ground visibility during the field investigation. The survey of Parcel 80 included 19 shovel tests excavated at 15-m (50-ft) intervals between tests (Figure 3.19). Two soil strata were recorded in the tests (see Appendix B: Shovel Test Log). Stratum 1 (A-horizon) was recorded as dark gray silty loam or pale brown clay loam, averaging 33 cm (13 in) in depth. Stratum 2 (B-horizon) was mottled pale brown and brownish yellow silty clay loam and, in lesser frequency, brown silty loam. Three strata were present in STP 80-1.10, with Stratum 3 (potential C horizon) recorded as a brown sandy loam extending 70 cm to 100 cm (27.6 in and 39.4 in), where the test was terminated. The average terminal depth of the tests is 48 cm (19.9 in). No artifacts or buried cultural features were identified within the shovel tests.

3.2 SURVEYED PARCEL FIELD INVESTIGATION MAPS

Landscape Figures 3.1 to 3.19 on pp. 3-14 to 3-32.

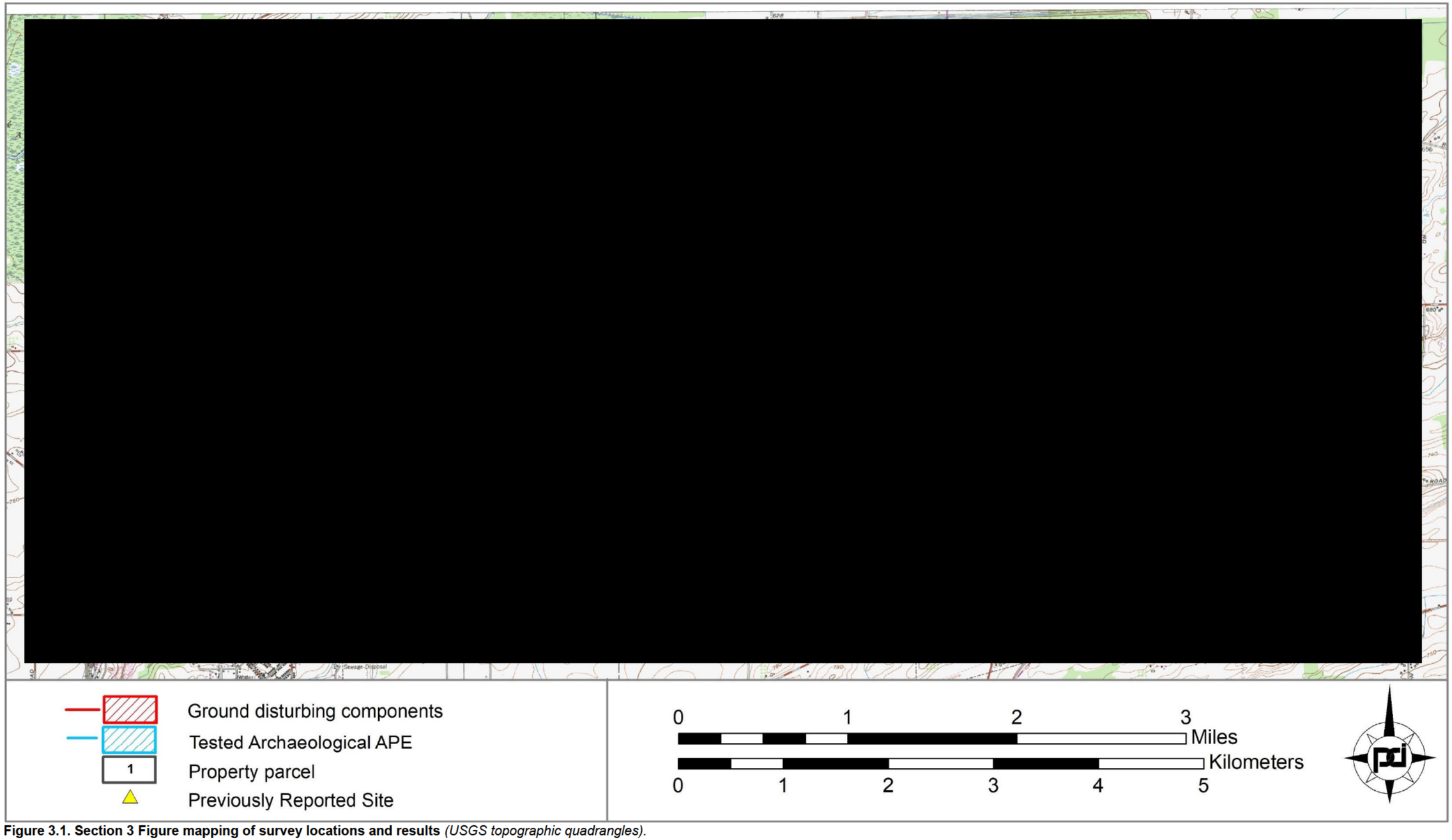


Figure 3.1. Section 3 Figure mapping of survey locations and results *(USGS topographic quadrangles).*

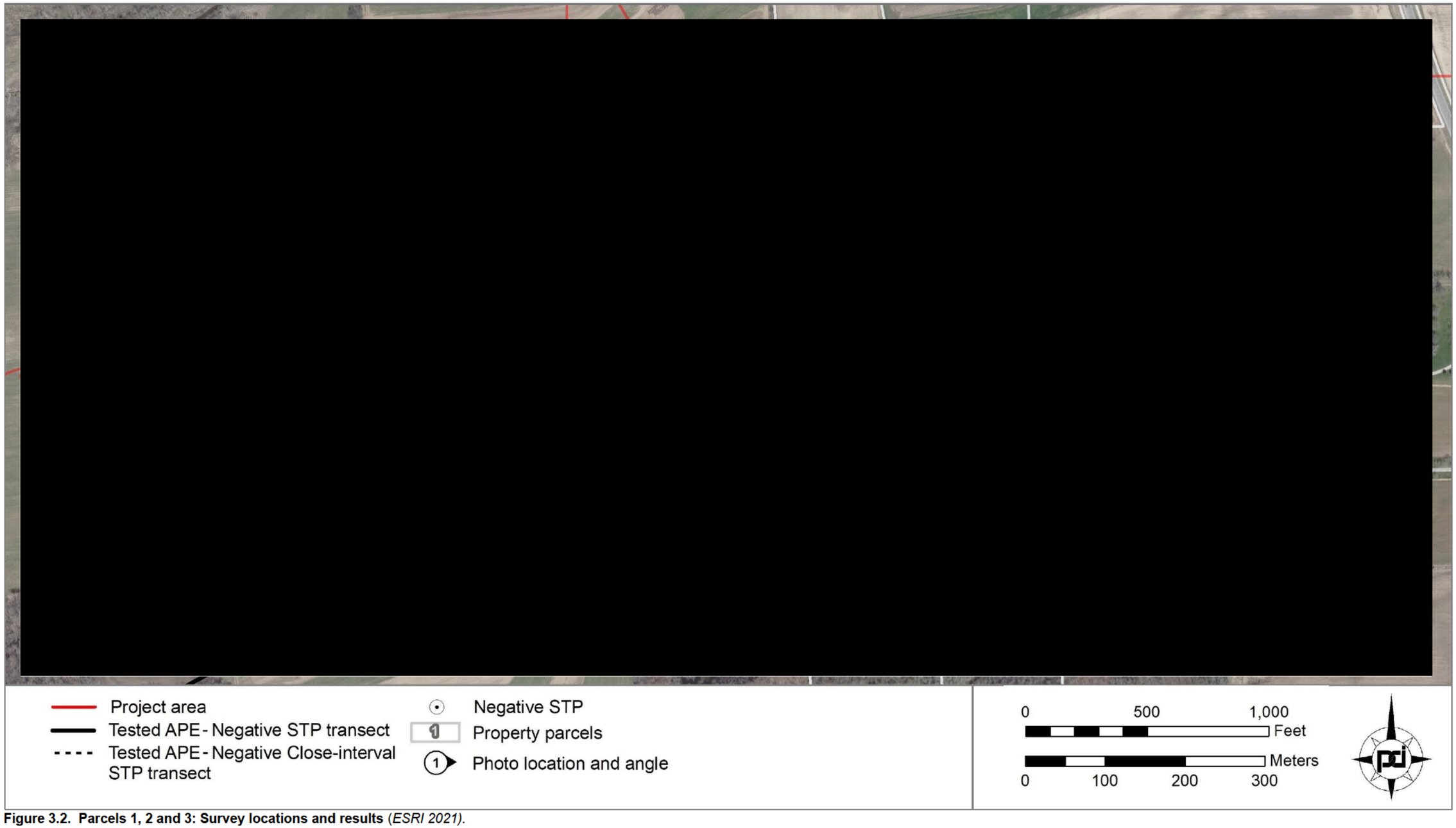


Figure 3.2. Parcels 1, 2 and 3: Survey locations and results (*ESRI 2021*).

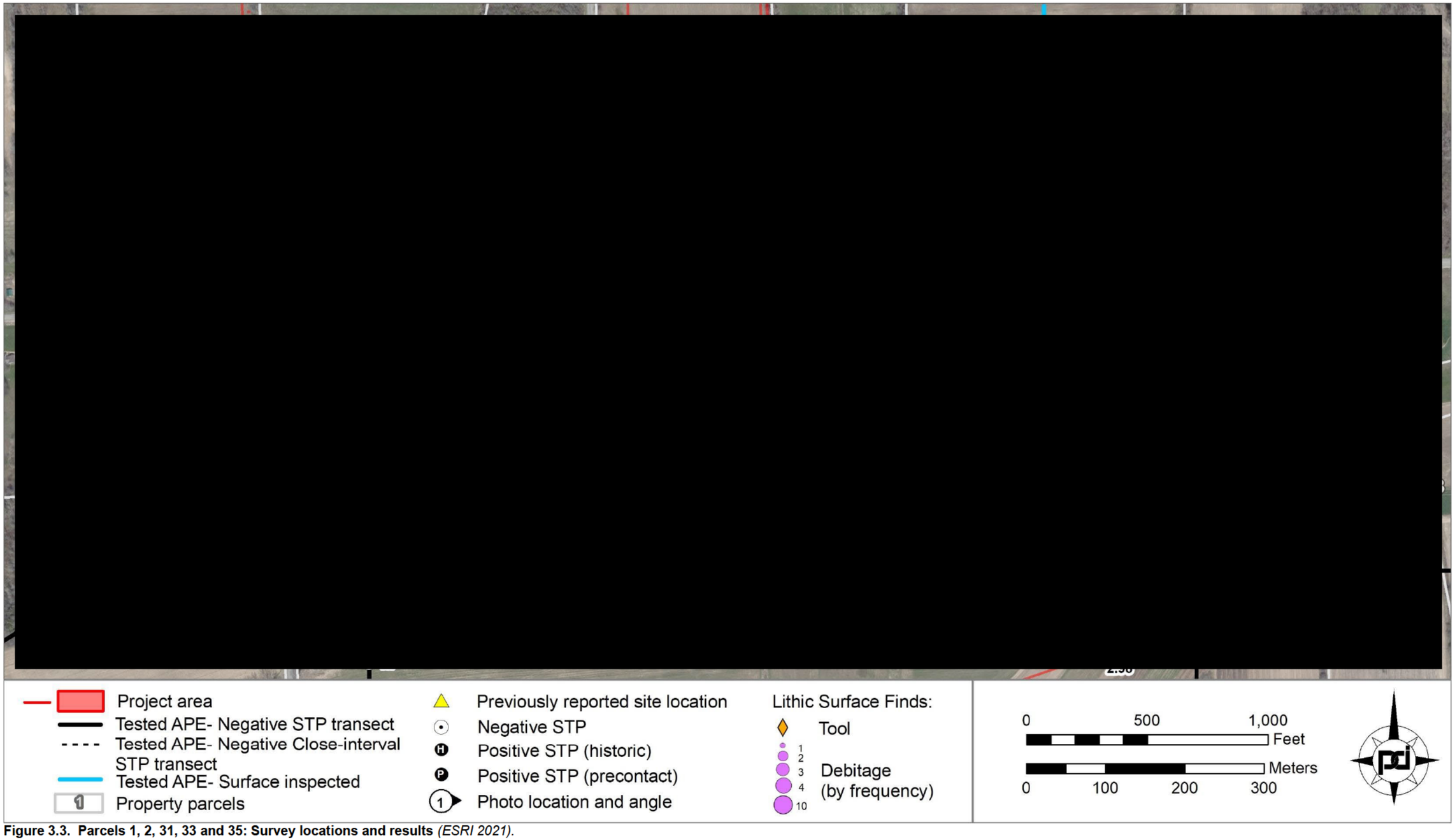


Figure 3.3. Parcels 1, 2, 31, 33 and 35: Survey locations and results *(ESRI 2021).*

Figure 3.4. Parcels 1, 64 and 65: Survey locations and results (*ESRI 2021*).

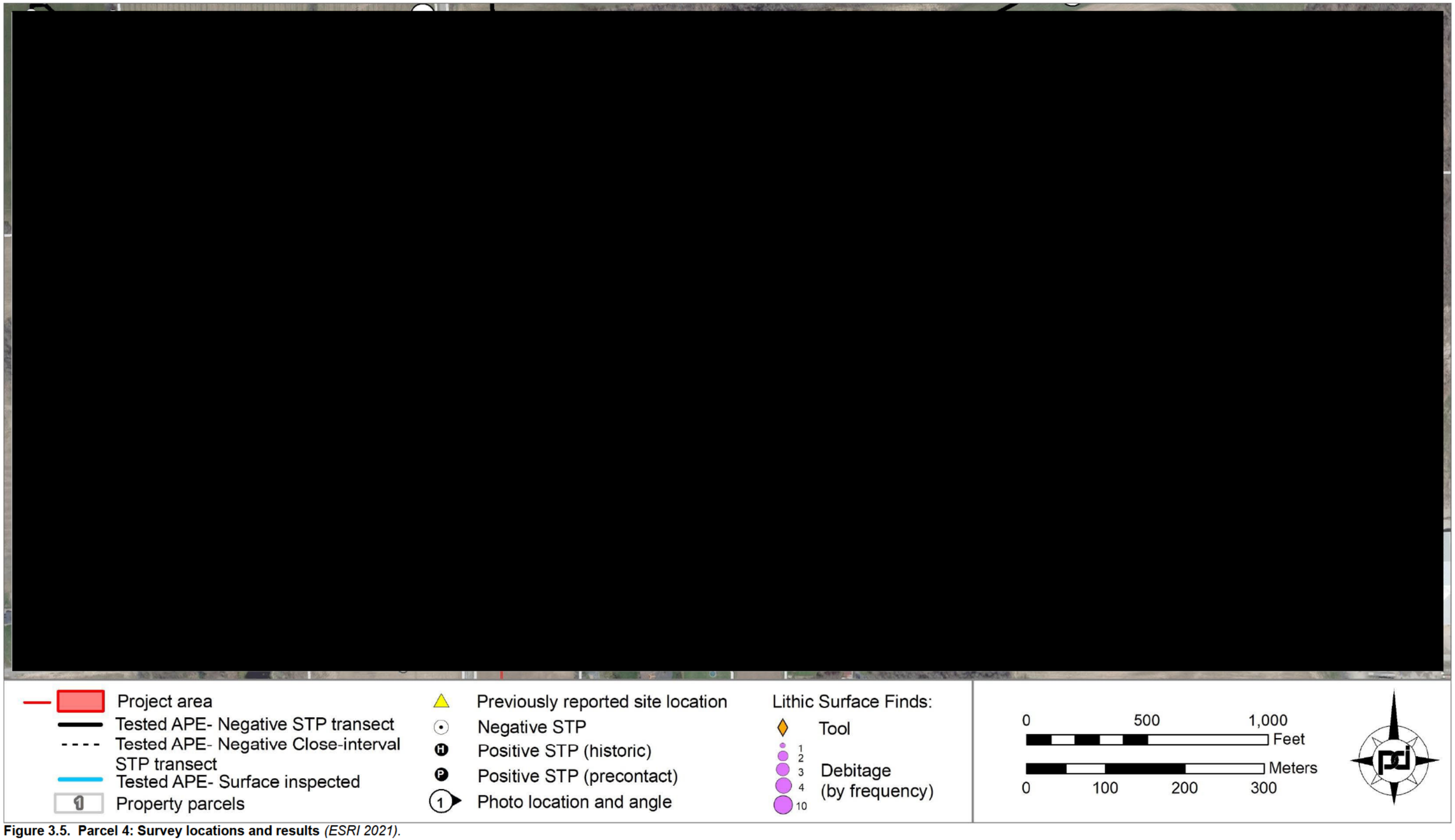


Figure 3.5. Parcel 4: Survey locations and results *(ESRI 2021).*

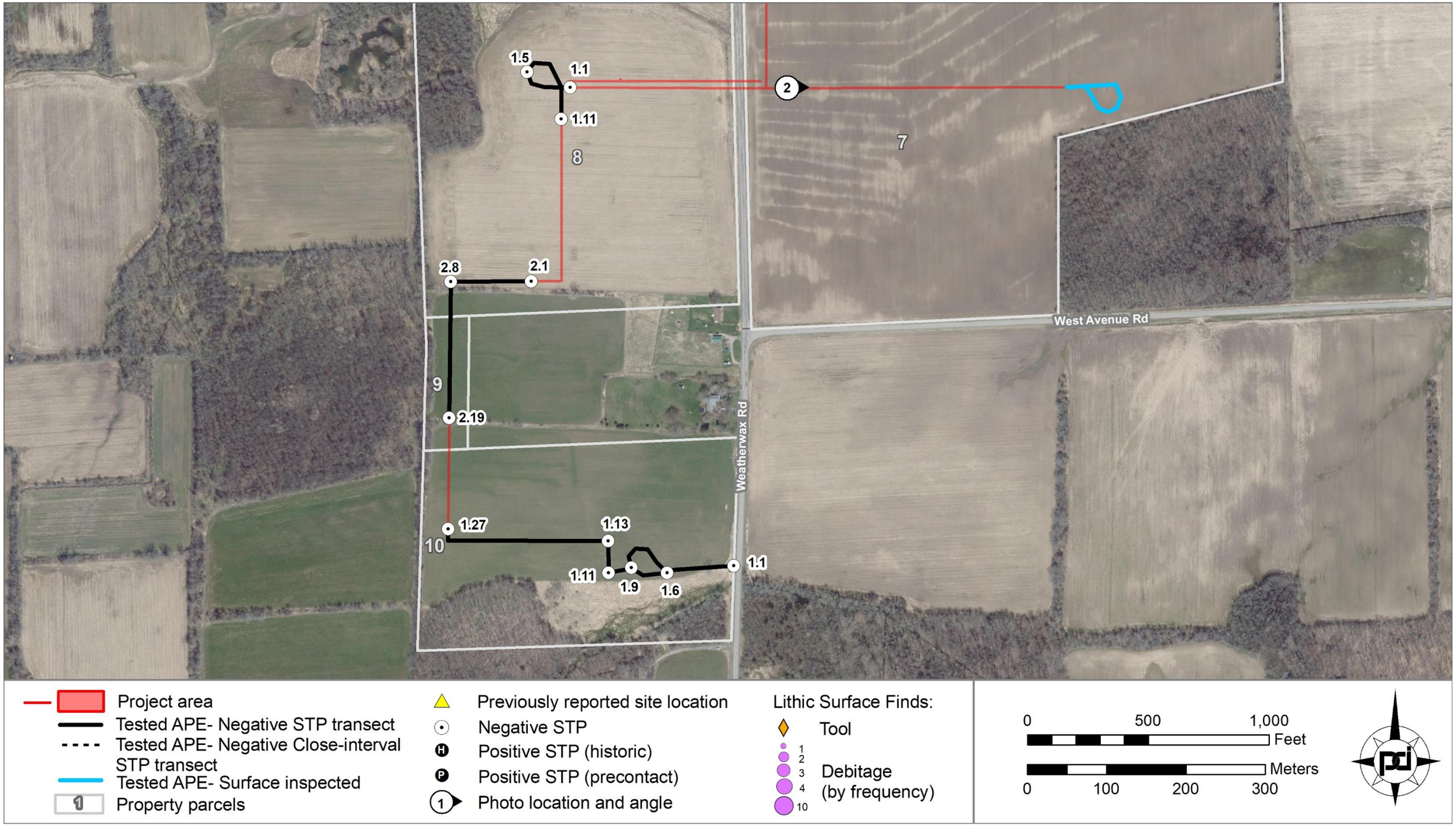


Figure 3.6. Parcels 7 through 10: Survey locations and results (*ESRI 2021).*

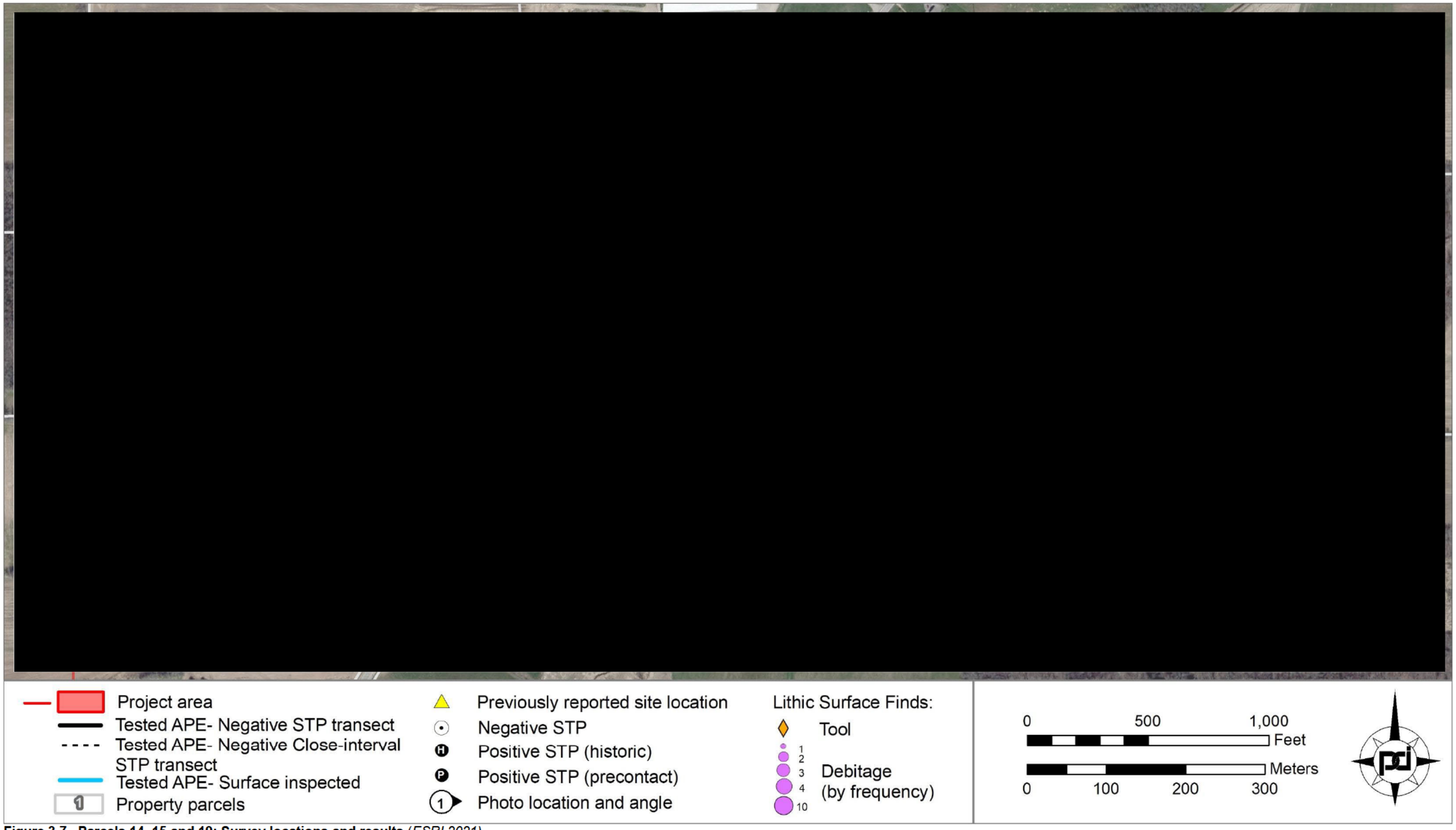


Figure 3.7. Parcels 14, 15 and 19: Survey locations and results (*ESRI 2021*).

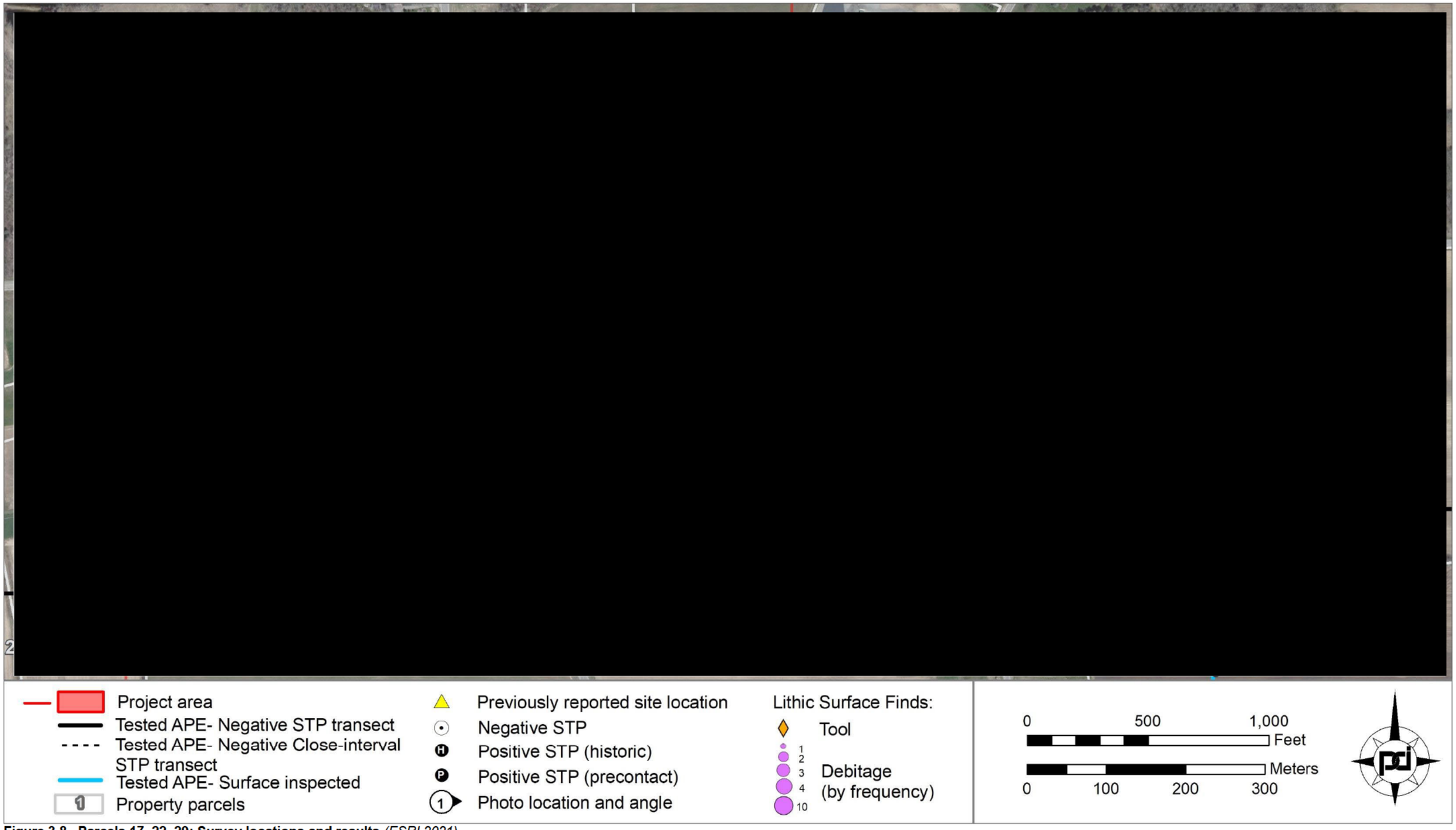


Figure 3.8. Parcels 17, 22, 29: Survey locations and results *(ESRI 2021).*

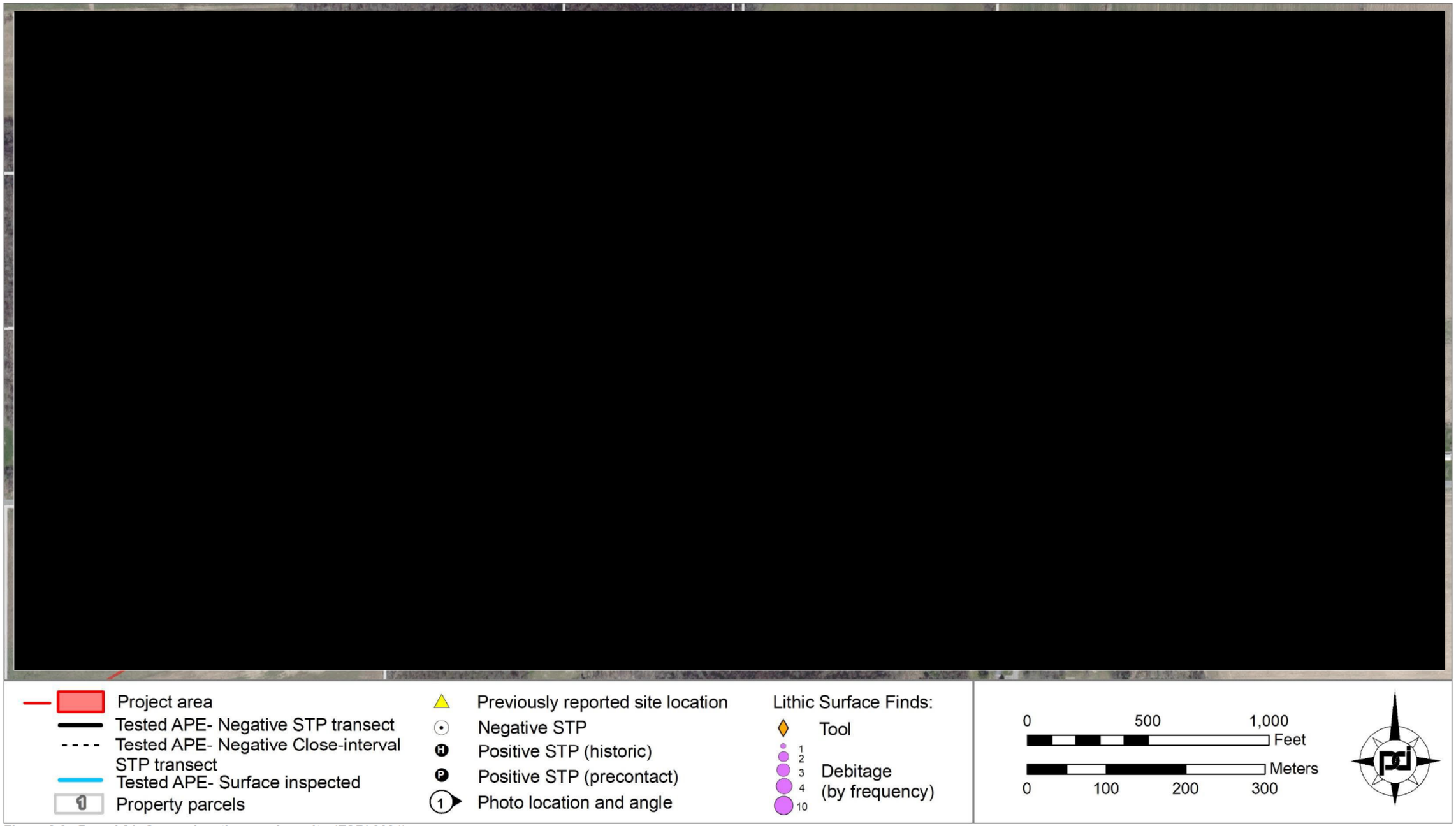


Figure 3.9. Parcel 21: Survey locations and results *(ESRI 2021).*

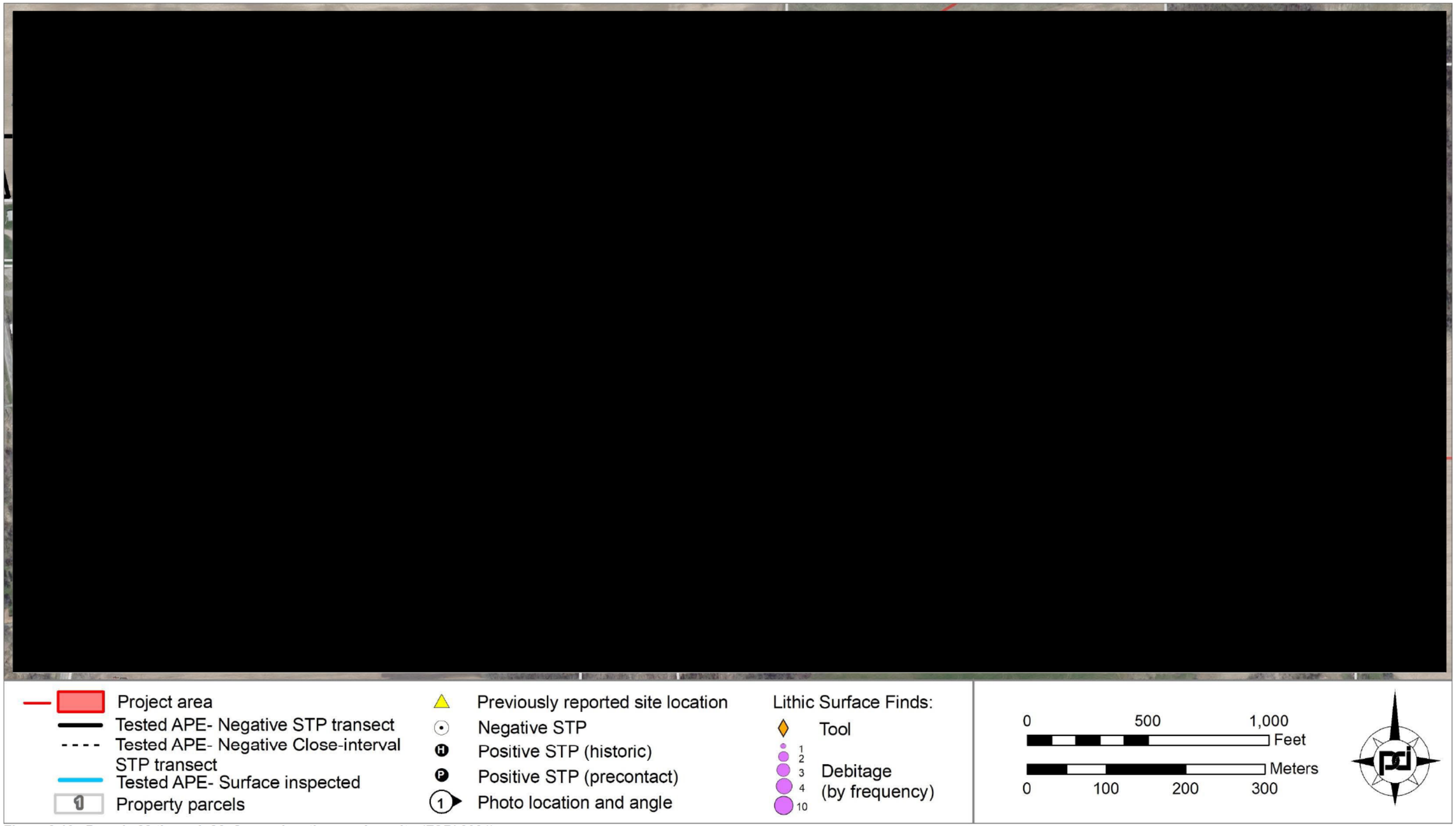


Figure 3.10. Parcels 22 through 26: Survey locations and results *(ESRI 2021).*

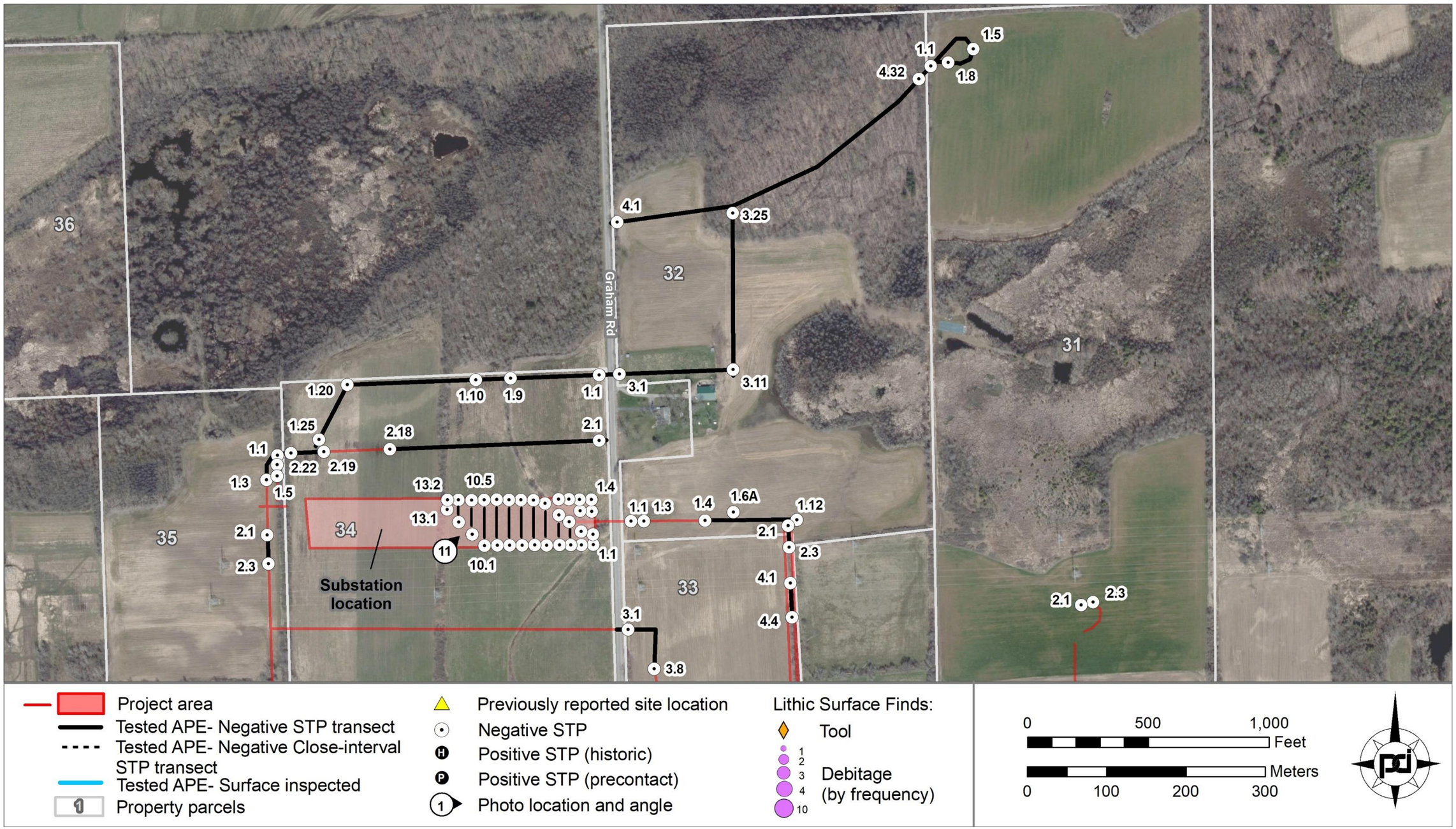


Figure 3.11. Parcels 31 through 35: Survey locations and results *(ESRI 2021).*

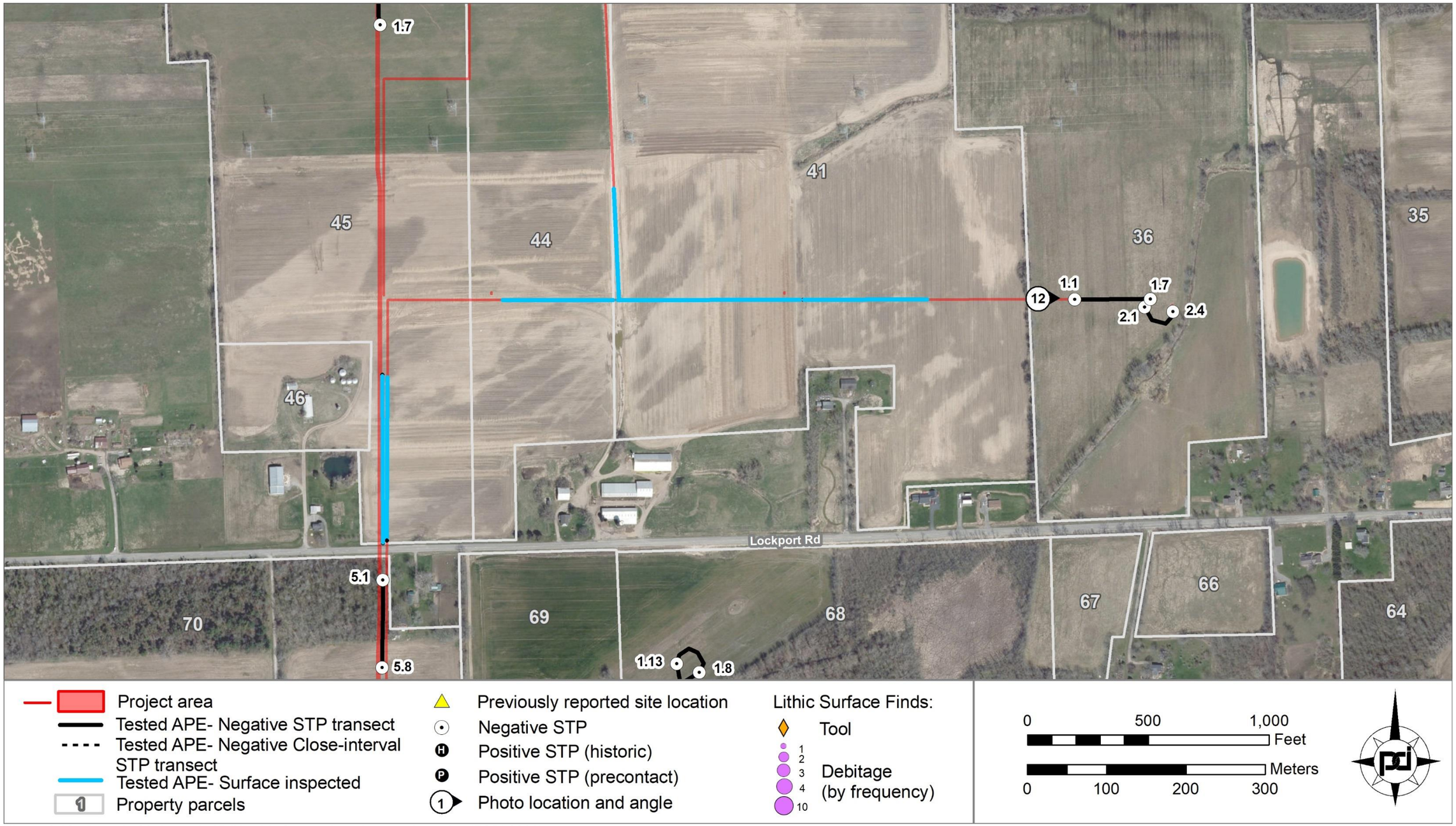


Figure 3.12. Parcels 36 through 45 (North): Survey locations and results *(ESRI 2021).*

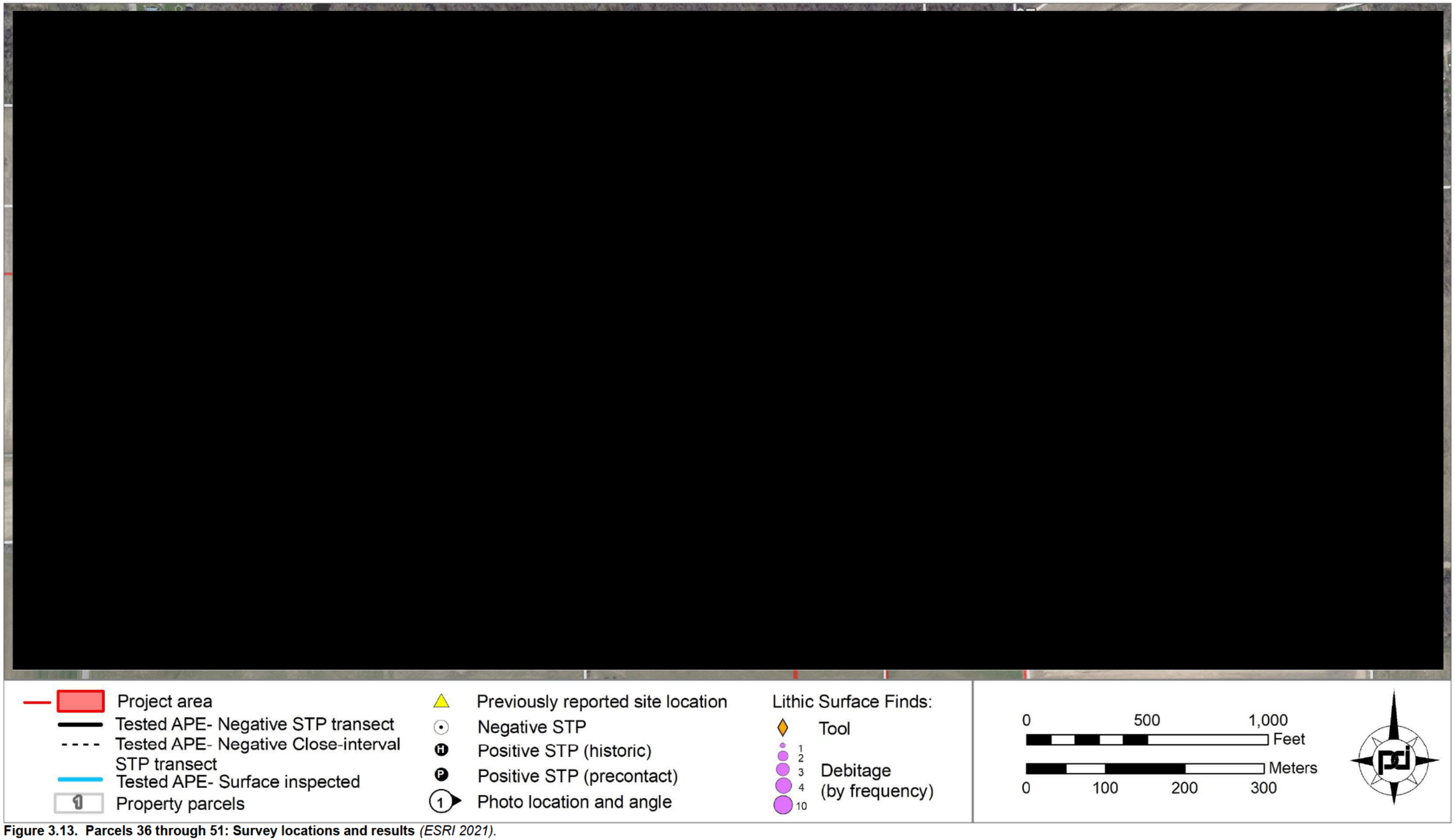


Figure 3.13. Parcels 36 through 51: Survey locations and results *(ESRI 2021).*

[redacted]

Project area
Tested APE- Negative STP transect
Tested APE- Negative Close-interval STP transect
Tested APE- Surface inspected
Property parcels
Previously reported site location
Negative STP
Positive STP (historic)
Positive STP (precontact)
Photo location and angle
Lithic Surface Finds:
Tool
Debitage (by frequency)
1
2
3
4
10
0 500 1,000 Feet
0 100 200 300 Meters

Figure 3.14. Parcels 51 through 57: Survey locations and results *(ESRI 2021).*

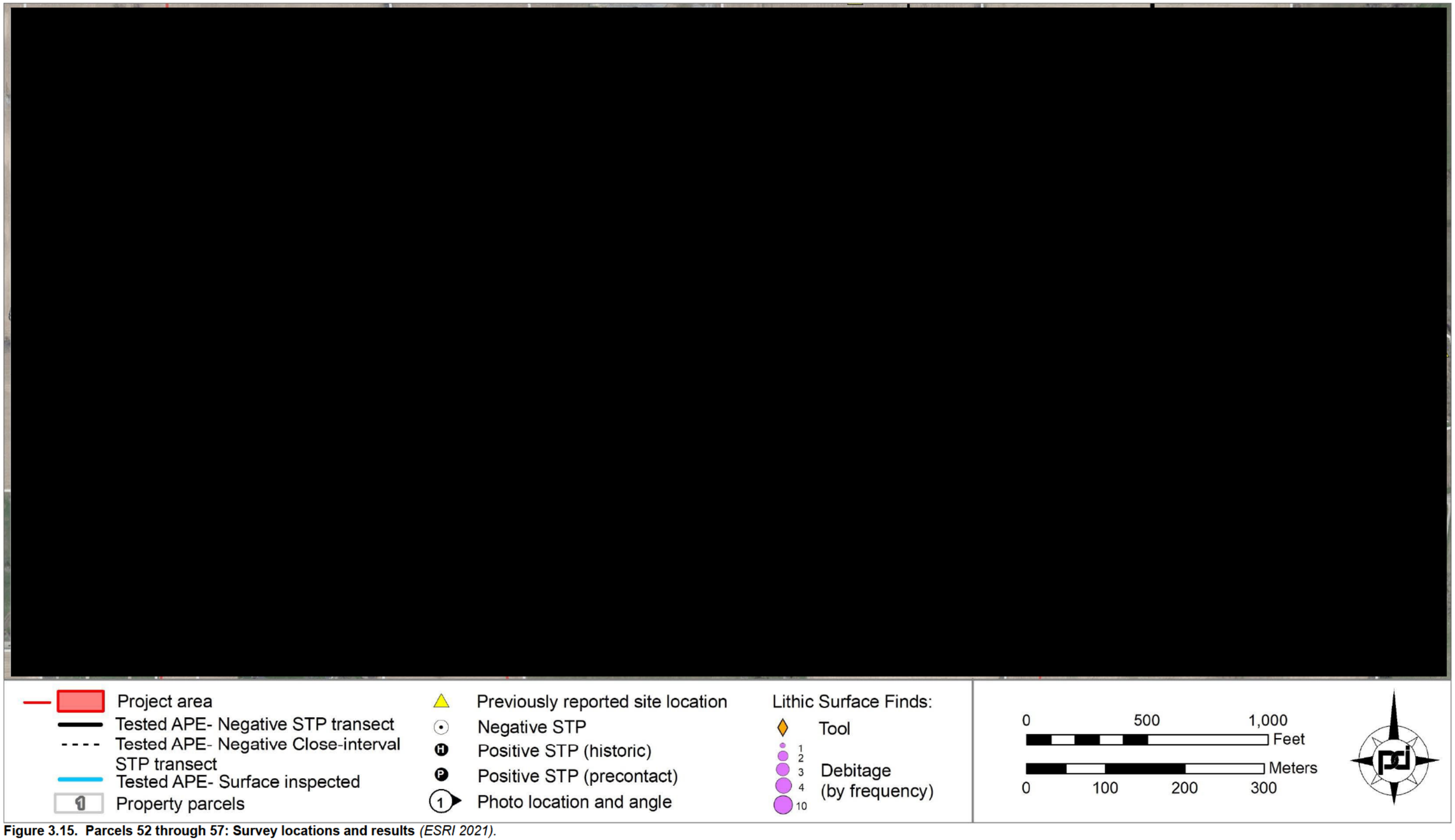


Figure 3.15. Parcels 52 through 57: Survey locations and results *(ESRI 2021).*

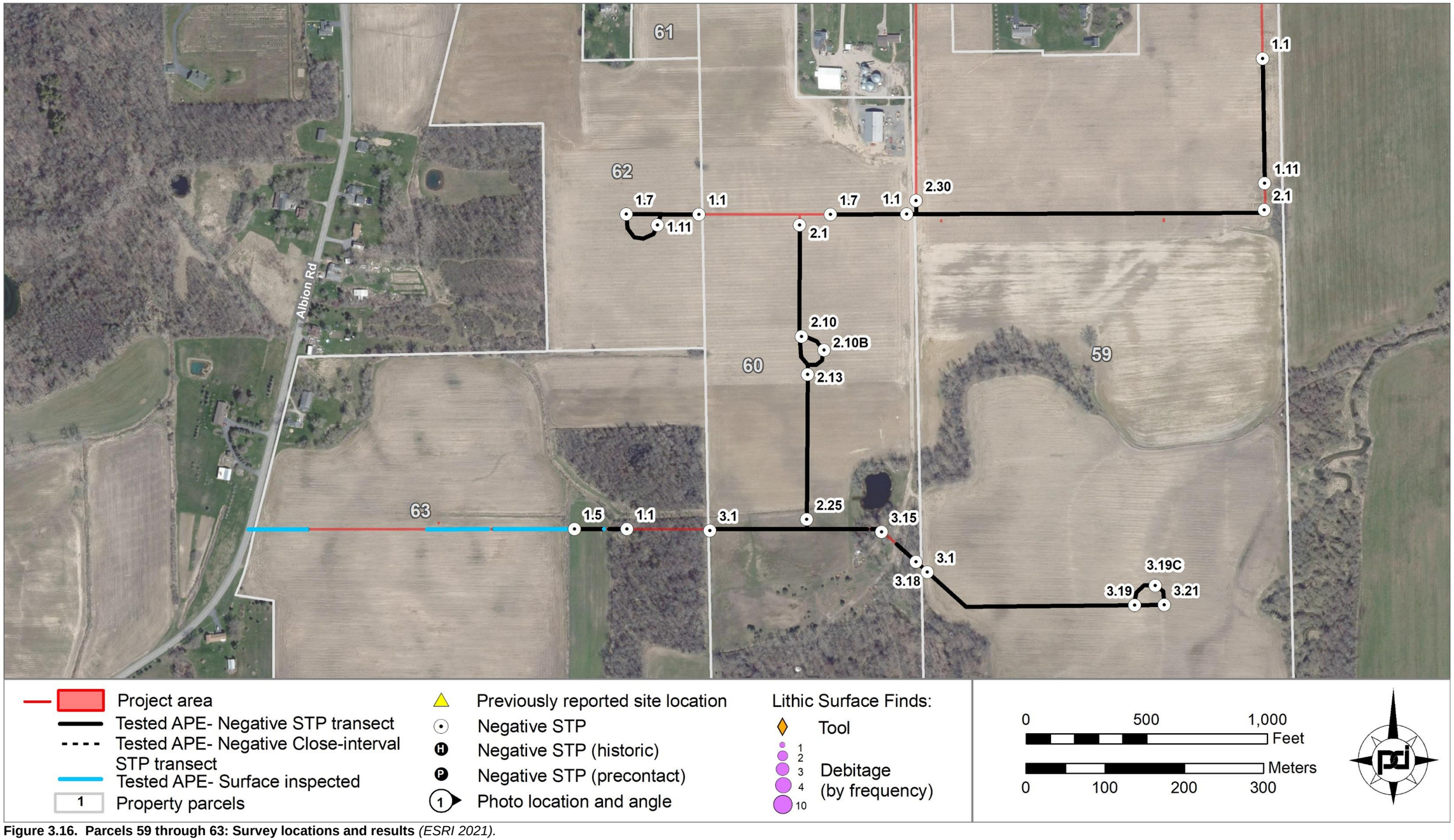


Figure 3.16. Parcels 59 through 63: Survey locations and results *(ESRI 2021).*

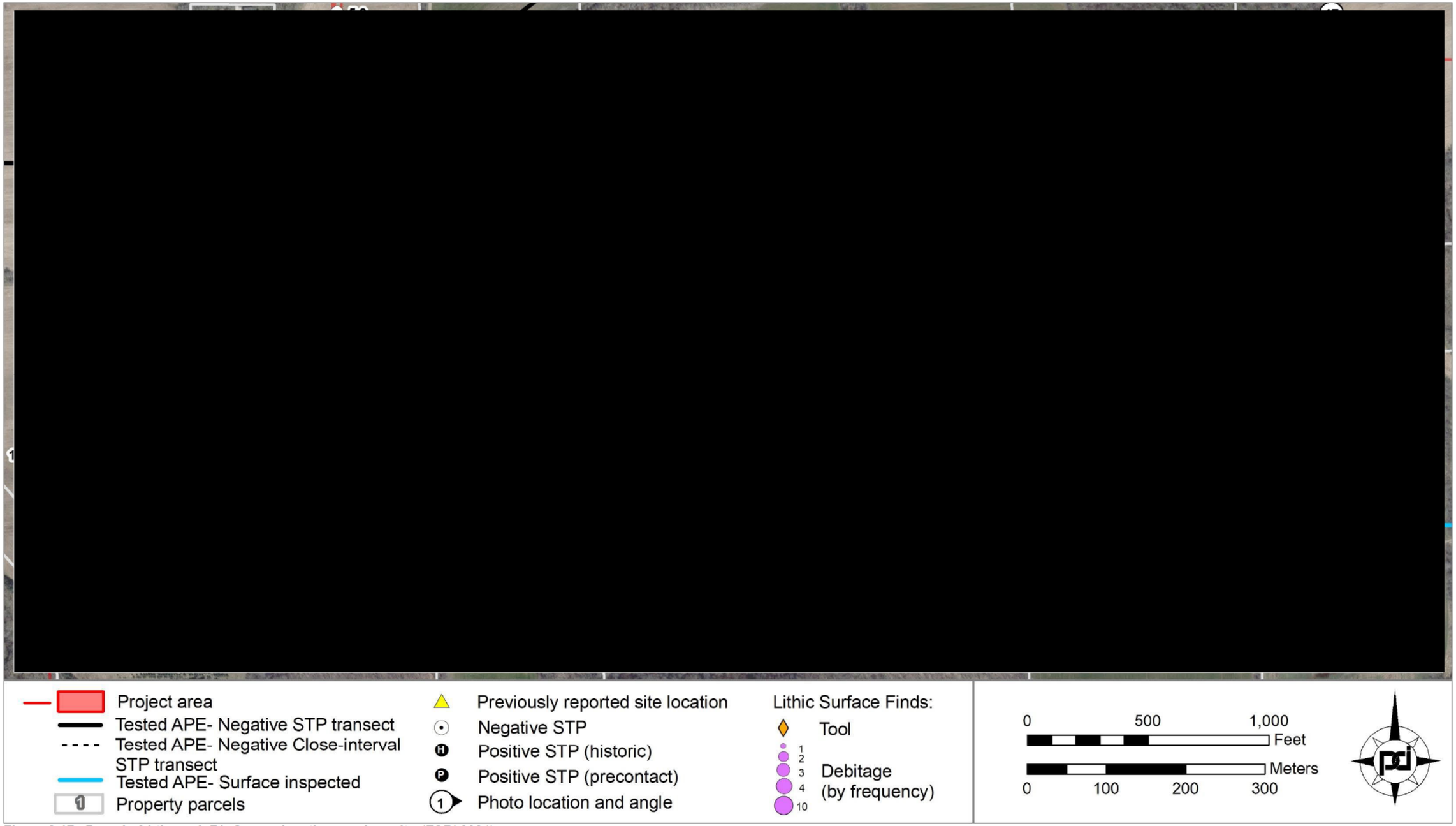


Figure 3.17. Parcels 64 through 71: Survey locations and results *(ESRI 2021).*

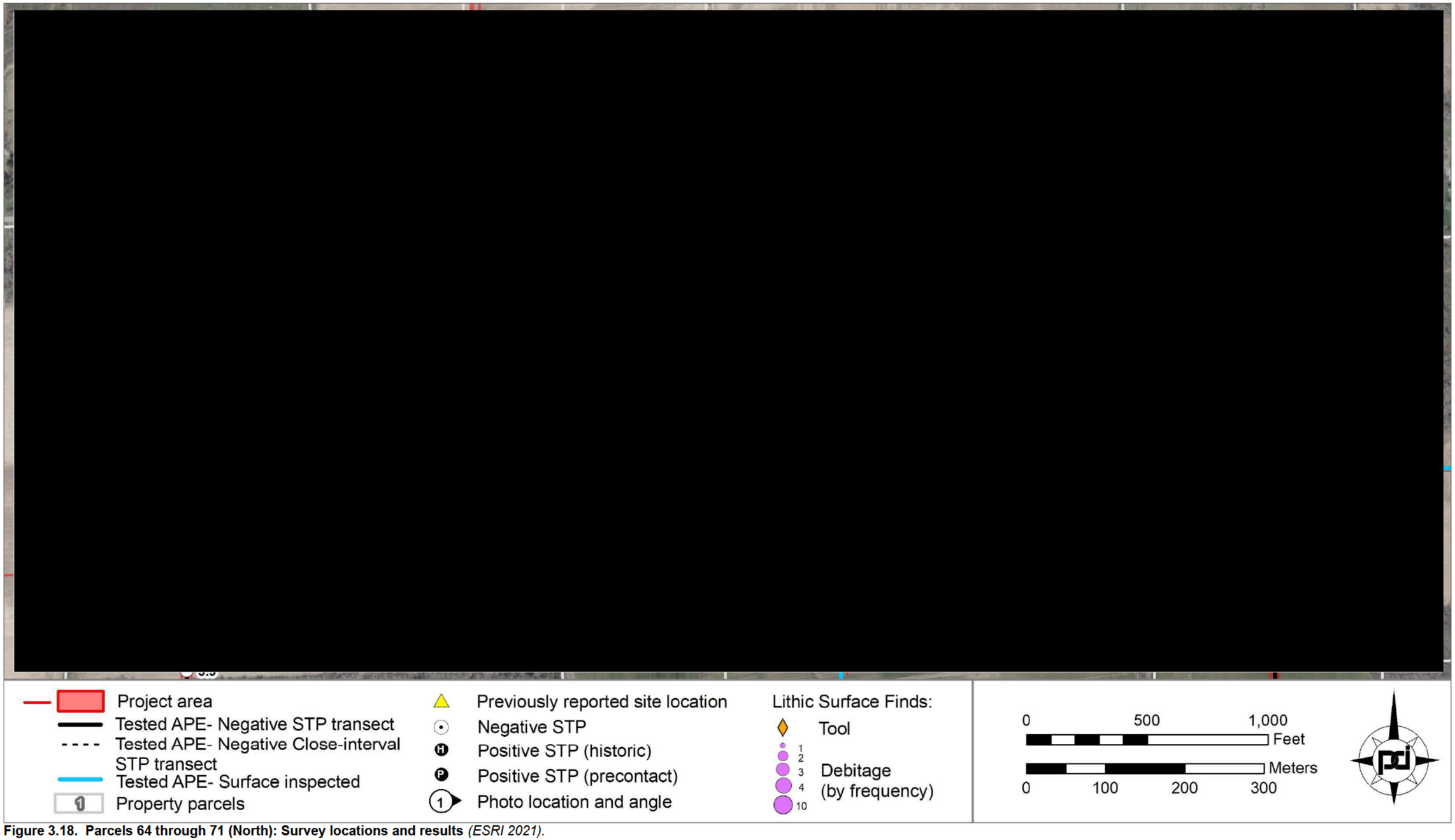


Figure 3.18. Parcels 64 through 71 (North): Survey locations and results *(ESRI 2021).*

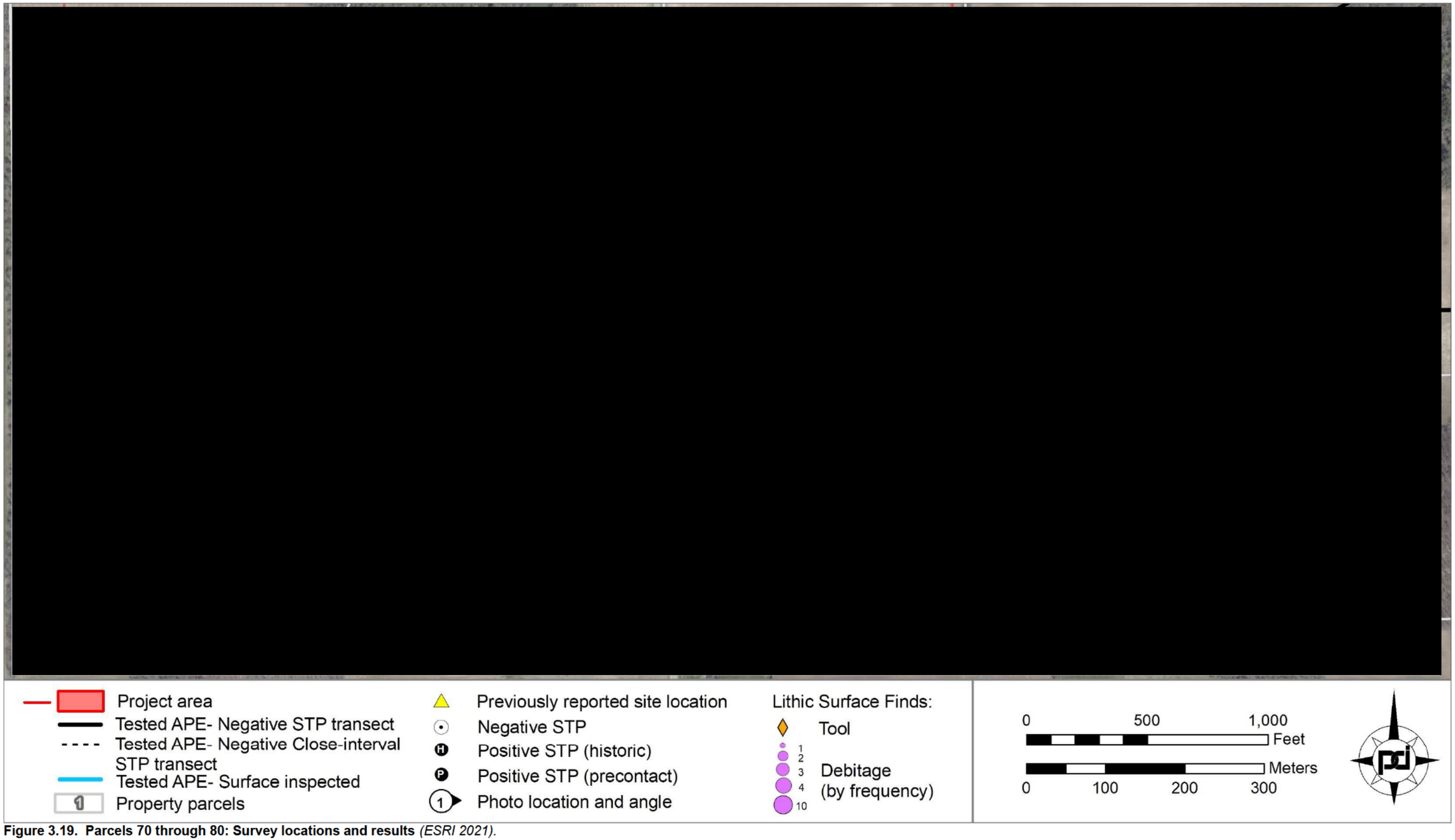


Figure 3.19. Parcels 70 through 80: Survey locations and results *(ESRI 2021).*

3.3 ARCHAEOLOGICAL FINDS

Archaeological artifacts were found within eight parcels during the field investigation including Parcels 19, 24, 25, 29, 31, 39, 65 and 70. Precontact Native American lithic artifacts were found at seven of the parcels including: 19, 24, 25, 29, 39, 65 and 70, whereas historic and modern artifacts and a pump/well were found within Parcel 31. Close-interval radial shovel testing around artifact surface find locations and positive STPs involved a radial pattern in cardinal directions with four STPs surrounding surface find locations at a distance of 1 m (3.3 ft) and eight STPs surrounding initial positive STPs at 1-m (n=4) and 3-m (n=4) intervals (Figure 3.20).

- **Parcel 19.** As presented in Section 3.1, 13 Precontact Native American lithic artifacts were found during surface inspection (Figure 3.21; also see Figure 3.7). The 13 lithics were found in a 65-m^2 (213-ft^2) area cluster of three surface find locations including SF-10, SF-11 and SF-19. Four radial STPs were excavated around each of the three find-spots at a distance of 1 meter (3.3 ft) in cardinal directions. Eleven (11) of the 12 close-interval STPs were negative. STP SF-10 (1mW) was positive.

  Lithic artifacts found in Parcel 19 are all debitage and include 7 flake fragments, 4 pieces of shatter, 1 primary reduction flake, and 1 core. All of these artifacts are regionally available Onondaga chert. This site appears to be the remains of a small lithic workshop where the early stages of lithic tool-making occurred. No diagnostic artifacts were found that could be indicative of a particular time-frame for occupation. This small archaeological site is temporarily designated PCI/Cider Solar-1 until a Unique Site Number (USN) is assigned by the OPRHP.

- **Parcel 24.** Two pieces of lithic debitage were found 388 m (1,109 ft) apart during surface inspection in Parcel 24. These artifacts include one secondary reduction flake and one tertiary reduction flake (see Figure 3.10 and Appendix C: SF-2 and SF-3). All of these artifacts are regionally available Onondaga chert. Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on each surface find location were all negative. These artifacts are considered isolated/stray finds and are not considered indicative for the presence of an archaeological site in the APE of this parcel.

- **Parcel 25.** As presented in Section 3.1, surface inspection resulted in finding 27 lithic artifacts (24 pieces of debitage and 3 lithic tools) at 14 locations (see Figure 3.10; see Appendix C: Artifact Catalog). Three lithic tools were found including 1 triangular/knife or projectile point. 1 projectile point midsection. and 1 biface fragment). The 24 pieces of debitage include: 11 flake fragments, 6 tertiary reduction flakes, 4 pieces of shatter, 2 cores, and 1 primary reduction flake. All of these artifacts are regionally available Onondaga chert.

  Twenty-two (22) of the artifacts were initially found at ten locations (SF-4 through SF-9, SF-16, SF-17, SF18 and SF-21) along a 360-m (1,180-ft) length of linear APE (Figure 3.21). Twelve of these artifacts were found in a cluster of seven surface find locations (SF-7, SF-8, SF-16, SF-17, SF-18 and SF-21), whereas the remainder of the finds were scattered further apart (see Figure 3.21). The project design was then revised to avoid location of the clustered artifacts. The APE of the new linear route was surface inspected and this resulted in finding five (5) additional lithic artifacts scattered at four locations along the re-route (see Figure 3.21: SF-20, SF-22, SF-23 and SF-24).

  A total of 56 close-interval (1-m [3.3-ft]) STPs were excavated around the 14 locations of surface finds but all were negative, as was additional surface inspection (see Appendix C: Shovel Test Log: SF-4 through SF9, SF-16, SF-18, and SF-20 through SF-24). These negative results suggest that scattered locations are isolated/stray finds. The cluster of 13 artifacts found at six surface find locations (SF-7, SF-8, SF-16, SF-17, SF-18 and SF-21) appears to indicate the presence of an archaeological site in this area, although close-interval shovel testing (n=24 STPs) was negative, suggesting the site was a relatively, briefly occupied camp. This small archaeological site [787-m^2 (2,582-ft^2) in area] is temporarily designated PCI/Cider Solar-2 until a

USN is assigned by the OPRHP. As mentioned, the project design was revised to avoid this location.

- **Parcel 29.** One piece of lithic debitage (a tertiary reduction flake of Onondaga chert) was found during surface inspection of this parcel (see Figure 3.8; Appendix C; SF-12). All four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on the surface find location were all negative. This artifact is considered an isolated/stray find and is not considered indicative for the presence of an archaeological site in the APE of this parcel.

- **Parcel 31.** Remnants of a historic farmstead were found during investigation of this parcel [redacted] These include: a well/pump, a sheet midden, and a surface garbage dump. Review of nineteenth and twentieth century maps (Figures 3.23, 3.24, 3.25 and 3.26) depict an MDS associated with "A. Sleeper" (1854) and "John P. Sleeper" (1874); and an MDS with outbuildings associated with "Chas. Bloom" (1904) and unattributed (1950). No foundations or other evidence of the MDSs were found during surface inspection or shovel testing.

  Well/pump location. The well/pump was found at the top of the hill where the MDS outbuildings are depicted (see Figures 3.25 and 3.26), but no other features or artifacts were found near the well/pump.

  Sheet Midden. What appears to be a sheet midden was found approximately 46 m (150 ft) south of the well in proximity to the MDS as it is depicted in 1950 (see Figure 3.26). STP 3.10 and seven of eight radials were positive with a mix of historic ceramic sherds (ironstone, whiteware, redware, and lead-glazed redware), a cut nail, window glass, and small brick fragments mixed with modern materials including flowerpot fragments, a rubber washer, and modern bottle glass, as well as 11 cat bone fragments. All artifacts/materials were found mixed in Stratum 1 topsoil. The artifacts of this mixed sheet midden were noted and a sample was collected. No foundations or other evidence of the MDSs were found during survey of this location.

  Garbage dump. Garbage and tree debris were found at the bottom of the hill approximately 100 m (330 ft) south of the well/pump and 54 m (177 ft) south of the sheet midden. A mix of modern and historic artifacts was also on the surface including middle to late twentieth century soft drink bottles, cut/butchered bone, ironstone, window glass, and stoneware crock fragments.

- **Parcel 39.** One piece of lithic debitage (a primary reduction flake of Onondaga chert) was found during surface inspection of this parcel (see Appendix C: SF-13; Figure 3.13). All four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on the surface find location were negative. This artifact is considered an isolated/stray find and is not considered indicative for the presence of an archaeological site in the APE of this parcel.

- **Parcel 65.** Surface inspection of the APE in Parcel 65 resulted in finding two lithic artifacts approximately 215 m (706 ft) apart (see Appendix C: SF-1 and SF-14) (see Figure 3.4). Both artifacts were approximately 30 m (100 ft) outside the linear APE. Four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on each surface find's negative results. These artifacts are considered isolated/stray finds and are not considered indicative for the presence of an archaeological site in the APE of this parcel.

- **Parcel 70.** One piece of lithic debitage (a flake fragment of Onondaga chert) was found during surface inspection of this parcel (see Figure 3.19; Appendix C: SF-15). All four close-interval shovel tests excavated at a 1-m (3.3-ft) interval in cardinal directions centered on the surface find location were negative. This artifact is considered an isolated/stray find and is not considered indicative for the presence of an archaeological site in the APE of this parcel.

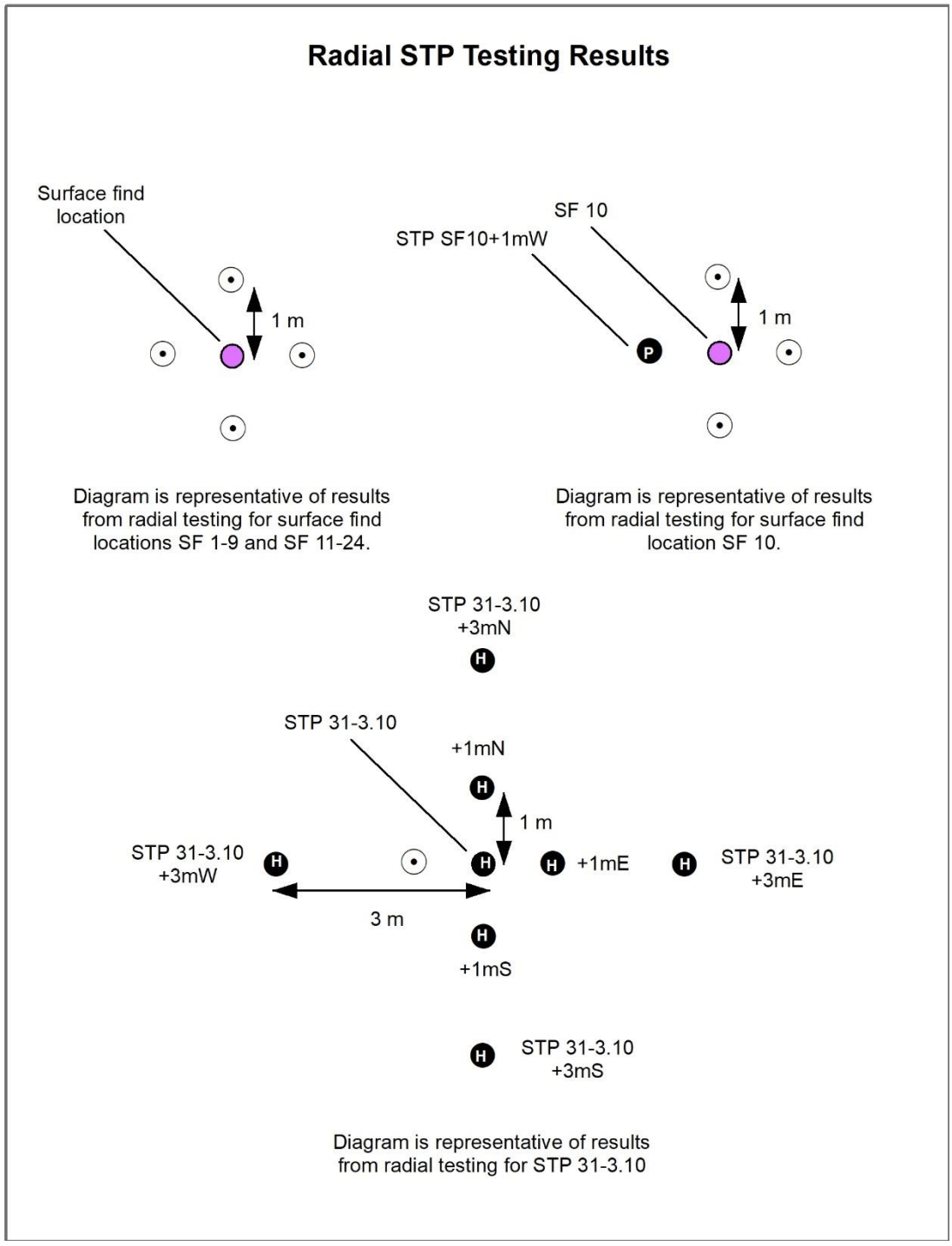


Figure 3.20. Close-interval radial shovel testing patterns and results.

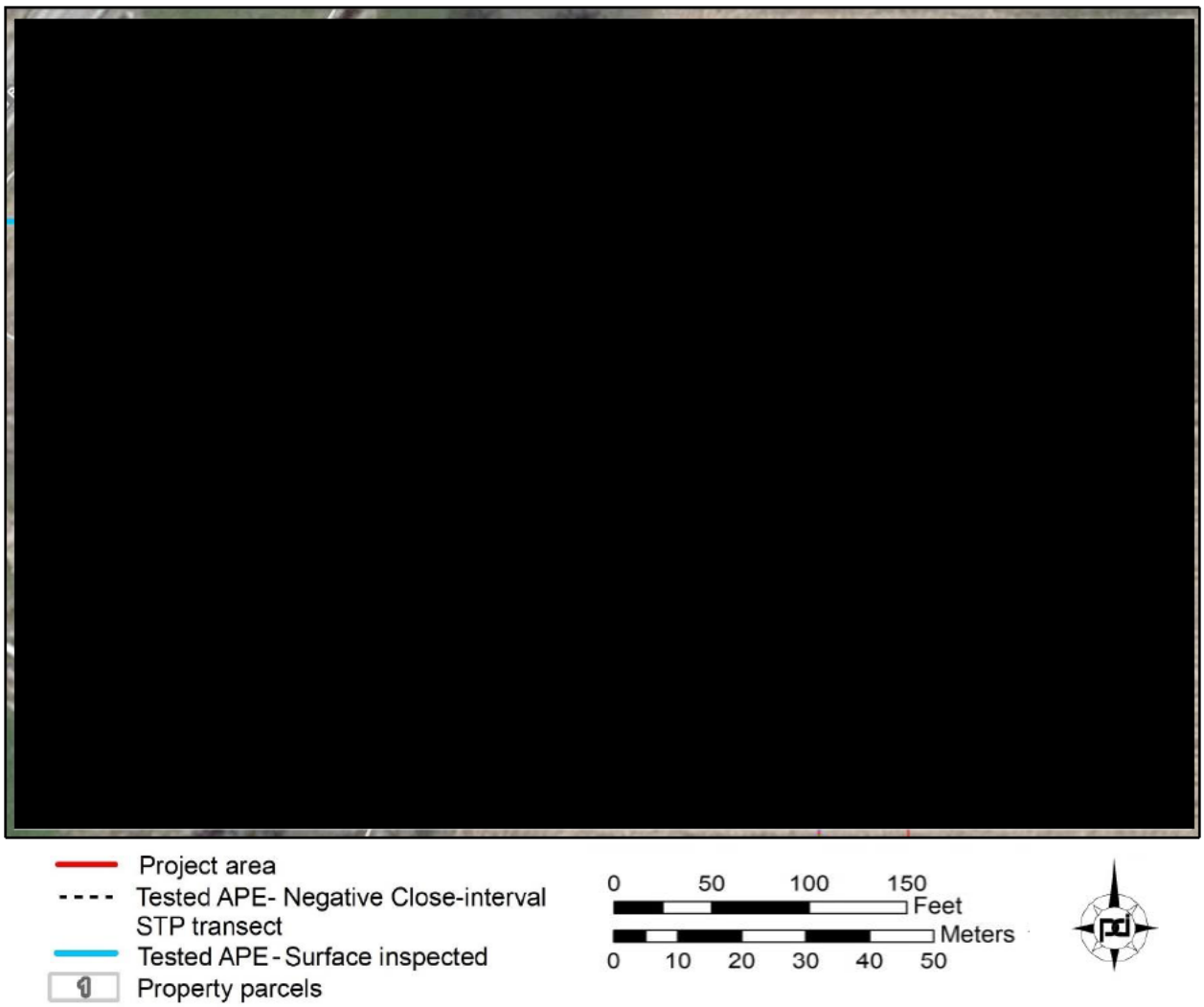


Figure 3.21. Parcel 19: Lithic artifact locations.

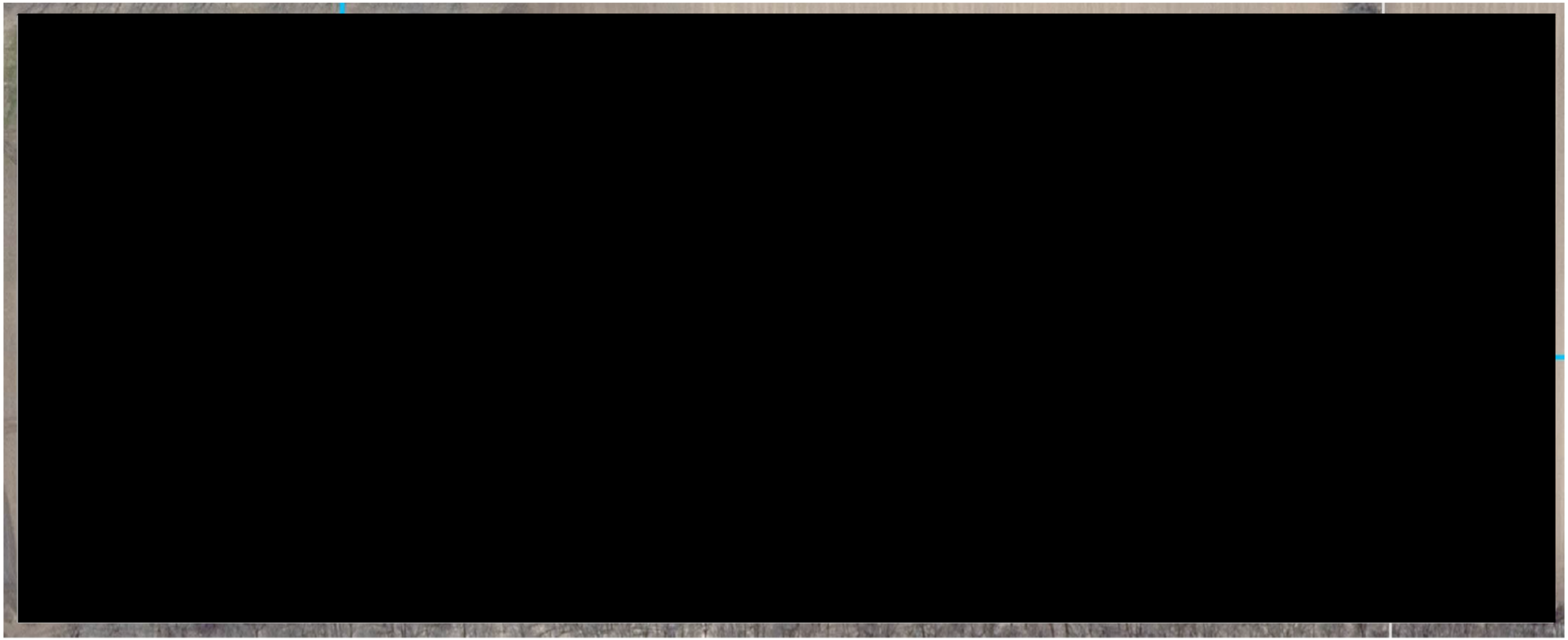


Figure 3.22. Parcel 25: Lithic artifact locations.

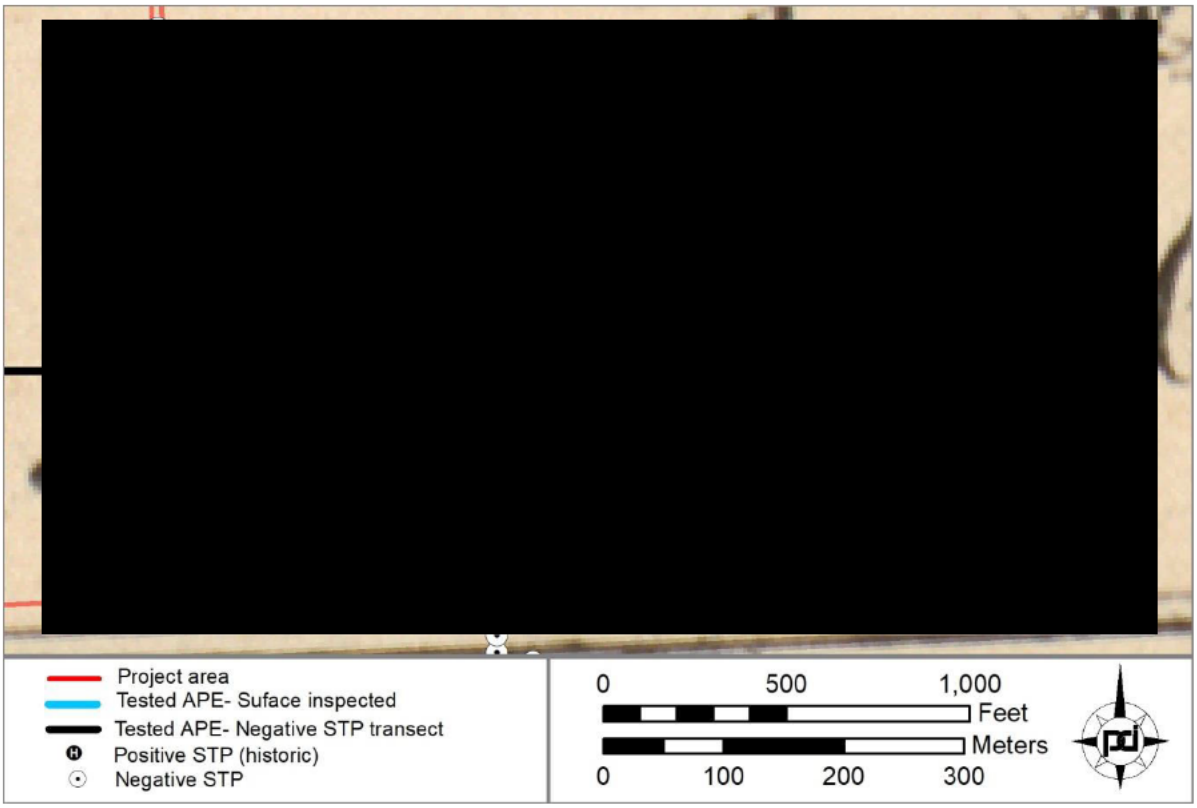


Figure 3.23. Approximate location of the APE and survey results in Parcel 31 depicted in 1854 *(base map: Gillett 1854).*

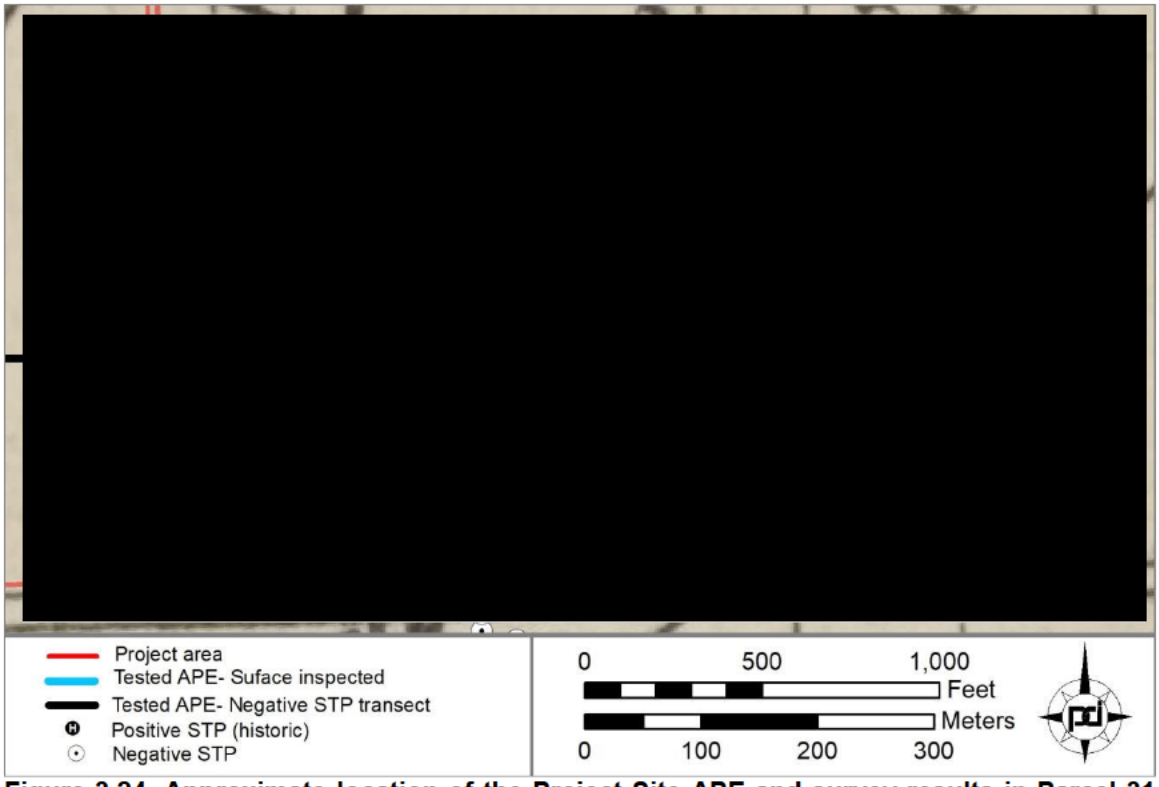


Figure 3.24. Approximate location of the Project Site APE and survey results in Parcel 31 depicted in 1876 *(base map: Everts 1876).*

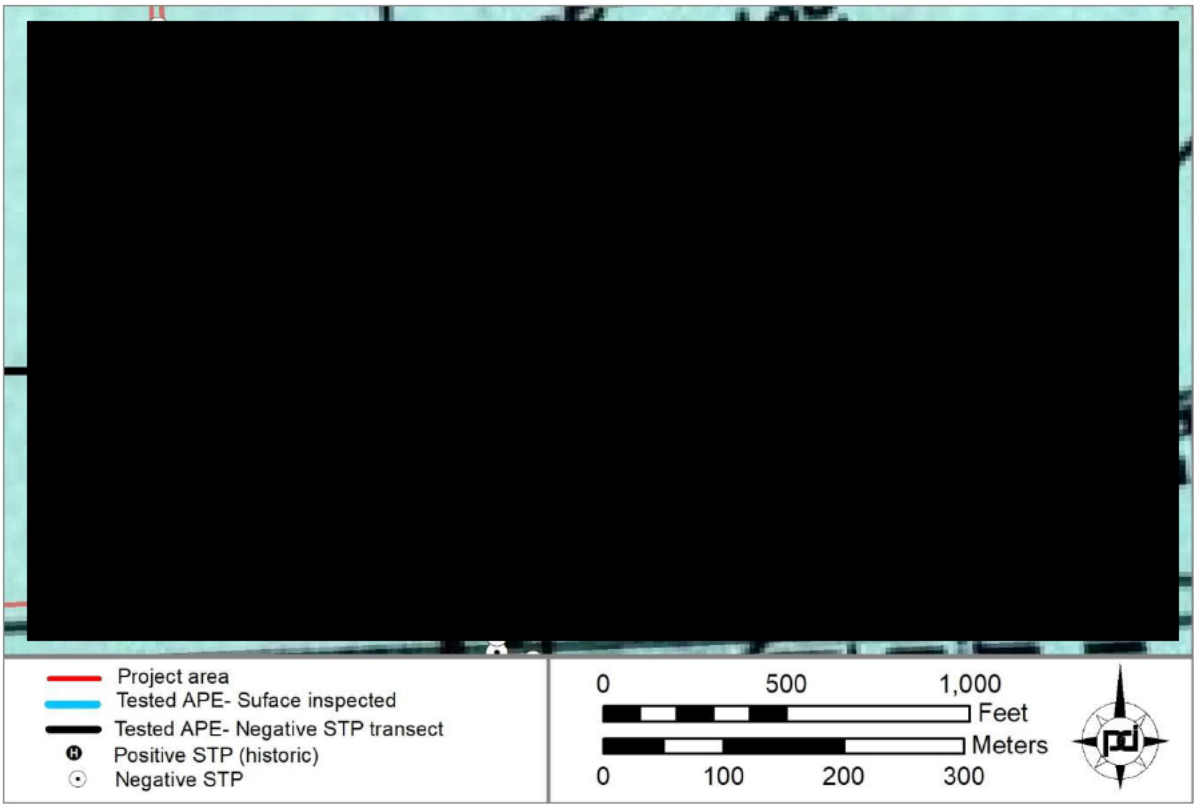


Figure 3.25. Approximate location of the Project Site APE and survey results in Parcel 31 depicted in 1904 *(base map: Century 1904).*

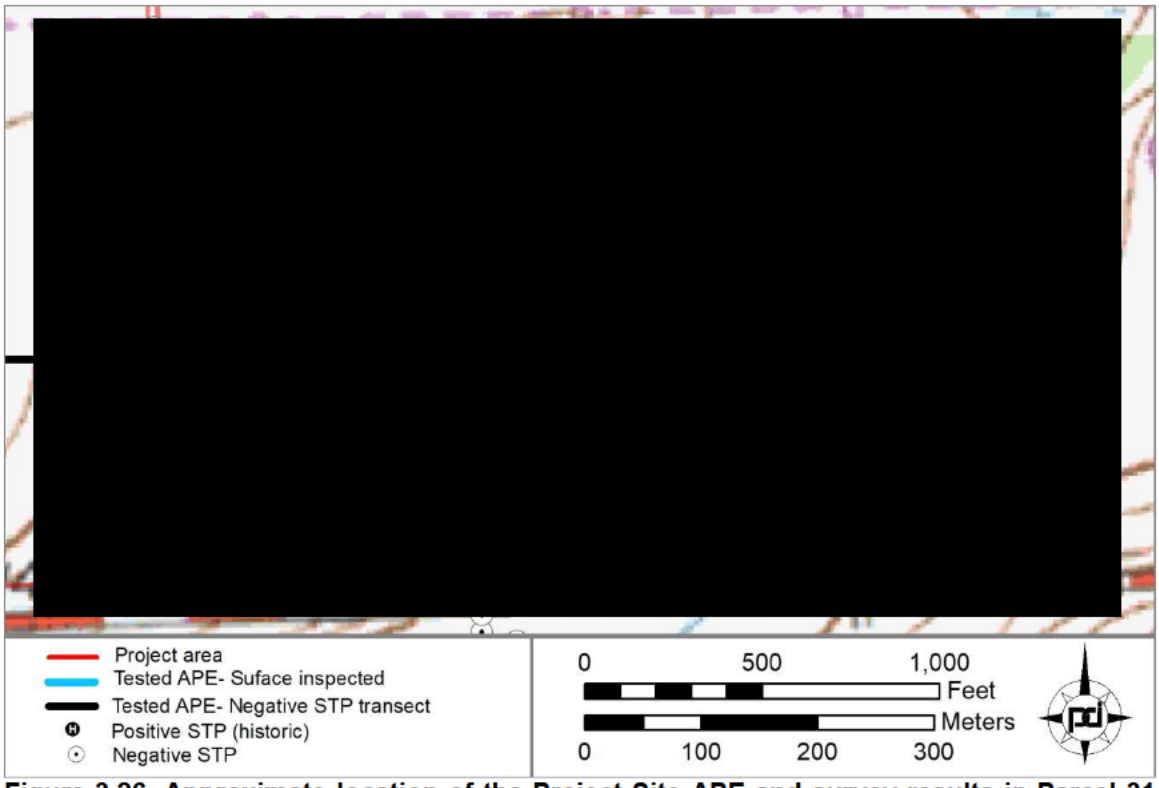


Figure 3.26. Approximate location of the Project Site APE and survey results in Parcel 31 depicted in 1950 *(base map: USGS 1950).*

4.0 Summary, Conclusions, and Recommendations

4.1 SUMMARY AND CONCLUSIONS

As presented in Sections 2 and 3, the total project APE where construction of project components including subsurface collection lines, access roads, inverters, and a substation could result in significant soil disturbance includes 124.5 acres (50.4 hectares). Ground surface visibility was sufficient to surface inspect a total of 27.29 acres (11 hectares) of the APE and the remaining portions of the APE were shovel tested with a total of 1,918 STPs. None of the shovel tests excavated during the initial subsurface testing were positive with Precontact Period artifacts (n=1,812: 1,675 initial STPs at a 15-m (50-ft) interval and 137 STPs using a 7.5-meter (25-ft) interval between tests in areas of higher sensitivity). Surface inspection resulted in finding 46 Precontact Period Native American artifacts within seven of the investigated Parcels including: Parcel 19 (n=12), Parcel 24 (n=2), Parcel 25 (n=27), Parcel 29 (n=1), Parcel 39 (n=1), Parcel 65 (n=2), and Parcel 70 (n=1). Two additional Precontact Period lithic artifacts were found during close-interval shovel testing. Historic and modern artifacts/features were found at one of the investigated parcels.

Precontact Period Archaeological Finds: Two (2) Precontact Native American archaeological sites (PCI/Cider Solar-1 and PCI/Cider Solar-2) and 22 isolated/stray artifacts were found during this investigation:

- **PCI/Cider Solar-1.** A total of 13 lithics were found during surface inspection within a 65-m^2 (213-ft^2) area cluster of three surface find locations approximately [redacted] of the Project Site. Lithic artifacts found are all debitage and include 7 flake fragments, 4 pieces of shatter, 1 primary reduction flake, and 1 core. All of these artifacts are regionally available Onondaga chert. This site appears to be the remains of a small lithic workshop where the early stages of lithic tool-making occurred. No diagnostic artifacts were found that could be indicative of a particular time-frame for occupation. This small archaeological site is temporarily designated PCI/Cider Solar-1 until a Unique Site Number (USN) is assigned by the OPRHP. An OPRHP Site Form is included in Appendix D.

- **PCI/Cider Solar-2.** A total of 13 lithic artifacts were found during surface inspection within a 787-m^2 (2,582-ft^2) area cluster of at six surface find locations approximately [redacted] of the Project Site. Lithic artifacts found include two tools (projectile point fragment and a triangular knife or projectile point) and 11 pieces of debitage including: 6 flake fragments, two tertiary reduction flakes, 1 secondary reduction flake, 1 piece of shatter, and 1 core. All of these artifacts are regionally available Onondaga chert. The site appears to be the remains of a briefly occupied camp. No definitive diagnostic artifacts were found that could be indicative of a particular time-frame for occupation. Multiple scattered stray/isolated lithic artifacts were also found in the vicinity. This small archaeological site is temporarily designated PCI/Cider Solar-2 until a USN is assigned by the OPRHP. An OPRHP Site Form is included in Appendix D.

- **Isolated Stay/Finds.** A total of 22 additional lithic artifacts were found scattered across six of the investigated parcels (Parcels 25, 25, 29, 39, 65 and 70). Close-interval radial shovel testing and additional surface inspection did not result in further locating any of the initial artifact finds. Therefore, these are considered isolated/stray finds and are not considered indicative for the presence of archaeological sites.

Historic Period and Modern Archaeological Finds:

- Historic Archaeological Finds. Remnants of a historic farmstead (a well/pump, a sheet midden, and a surface garbage dump) were found on the [redacted]) during investigation of Parcel 31. Review of nineteenth and twentieth century maps depict an MDS associated with “A. Sleeper” (1854) and “John P. Sleeper” (1874), and an MDS with

outbuildings associated with “Chas. Bloom” (1904) and unattributed (1950). No foundations or other evidence of the MDS buildings were found during surface inspection or shovel testing. Although evidence of this farmstead is present, the remains are not considered an intact archaeological site as this location is considered to have low research potential.

4.2 RECOMMENDATIONS

The following recommendations are made in consideration of the New York State Historic Preservation Office’s *Guidelines for Solar Facility Development Cultural Resources Survey Work (Guidelines)* issued July 30, 2020 and again referred to by the SHPO in their *Phase IB Archaeological Survey Recommendations/Sensitivity Model Testing Protocol* issued on October 27, 2020.

The *Guidelines* define potential substantial soil disturbances and impacts to archaeological cultural resources as “areas of grading and excavation more than six inches deep, grubbing, tree and stump removal, and trenches more than three feet wide, unless the archaeological sensitivity warrants greater effort.” Construction of solar project components that are not considered to result in substantial soil disturbances and be a significant threat to archaeological cultural resources include: panel arrays and perimeter fencing and utility poles, so long as their associated posts are driven or drilled into the ground and no grubbing or grading is involved; and for excavations and grading less than six inches in depth. The Project Site is *not* considered highly sensitive for Native American burial sites or villages. Construction of project components such as panel arrays that are proposed at or near the locations of previously reported sites will not significantly disturb soils. With this in consideration, no additional investigation (i.e., Phase II) would be warranted or recommended for locations where archaeological sites were previously reported at the proposed locations of such low-impact solar project components.

Although there are no anticipated significant soil disturbances at the locations of previously reported sites (see Table 1.1 and Figures 3.9, 3.14 and 3.15), construction monitoring could be necessary to ensure construction activities remain limited to what has been stated.

The two Precontact Period archaeological sites (PCI/Cider Solar-1 and PCI/Cider Solar-2) found during this investigation will now be avoided through project redesign. No components which might result in significant soil disturbances are proposed at these site locations. The development of avoidance plans or archaeological construction monitoring could be necessary to ensure construction activities remain limited to what has been stated.

No further investigation (i.e., Phase II) or avoidance is recommended where remnants of a historic farmstead (a well/pump, a sheet midden, and a surface garbage dump) were found on the north side of Lockport Road (east of Graham Road) during investigation of Parcel 31. Although evidence of a historic farmstead was found, the remains are not considered to be an intact archaeological site with research potential and potential significance to be eligible for NRHP-listing.

Appendix A. Photographs

Photograph 1. Shovel-tested wooded terrain in Parcel 1, facing northeast *(Panamerican 2021).*

Photograph 2. Surface-inspected agricultural field in Parcel 7, facing east *(Panamerican 2021).*

Photograph 3. Agricultural field in Parcel 15, facing west *(Panamerican 2021).*

Photograph 4. Surface-inspected agricultural field in Parcel 19, facing south *(Panamerican 2021).*

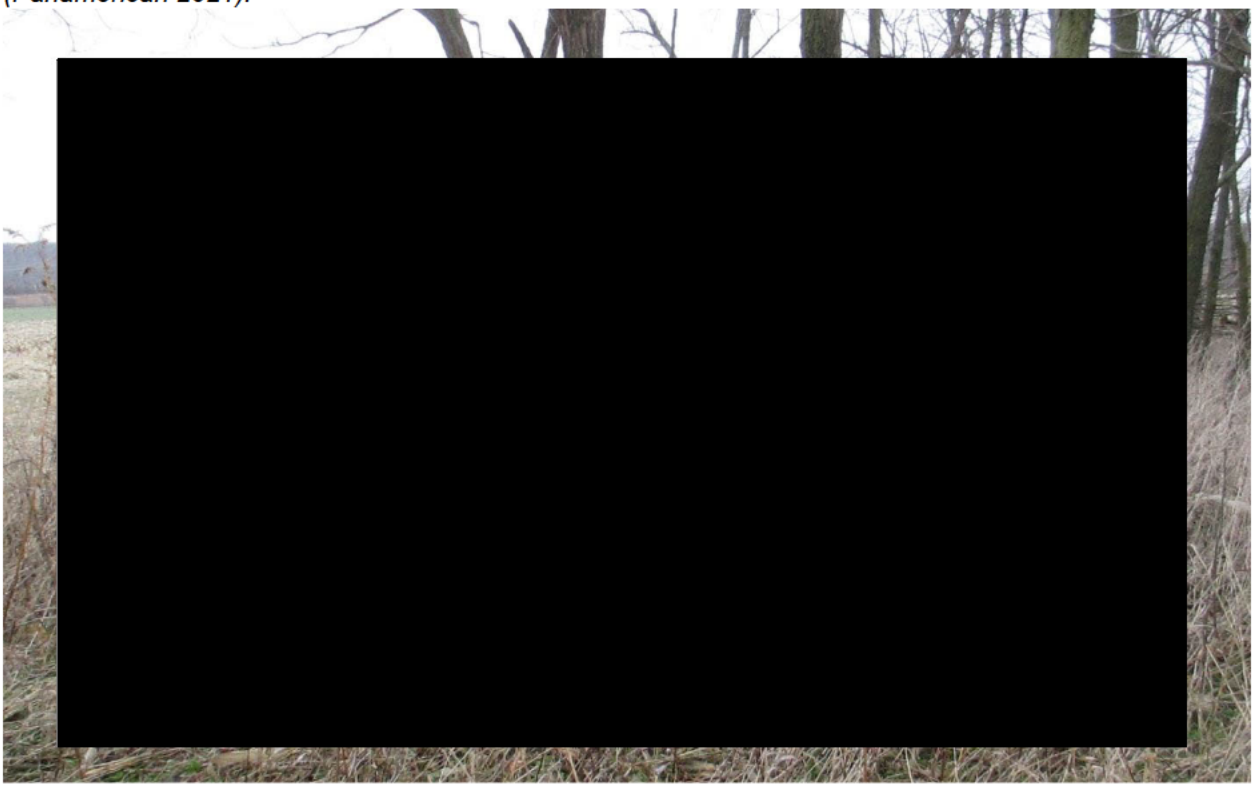
Photograph 5. Agricultural field in Parcel 23, facing northeast *(Panamerican 2021).*

Photograph 6. Surface-inspected agricultural field in Parcel 24, facing south *(Panamerican 2021).*

Photograph 7. Surface-inspected agricultural field in Parcel 25, facing east *(Panamerican 2021).*

Photograph 8. Surface-inspected agricultural field in Parcel 29, facing east *(Panamerican 2021).*

Photograph 9. Trash and debris dumped in wooded terrain in Parcel 31, facing northwest *(Panamerican 2021).*



Photograph 10. Water pump at a well located at the top of a hill in Parcel 31, facing northeast *(Panamerican 2021).*

Photograph 11. Shovel-tested open field at the proposed location of the Parcel 34 Substation, facing northeast *(Panamerican 2021).*

Photograph 12. Shovel-tested agricultural field in Parcel 36, facing east *(Panamerican 2021).*

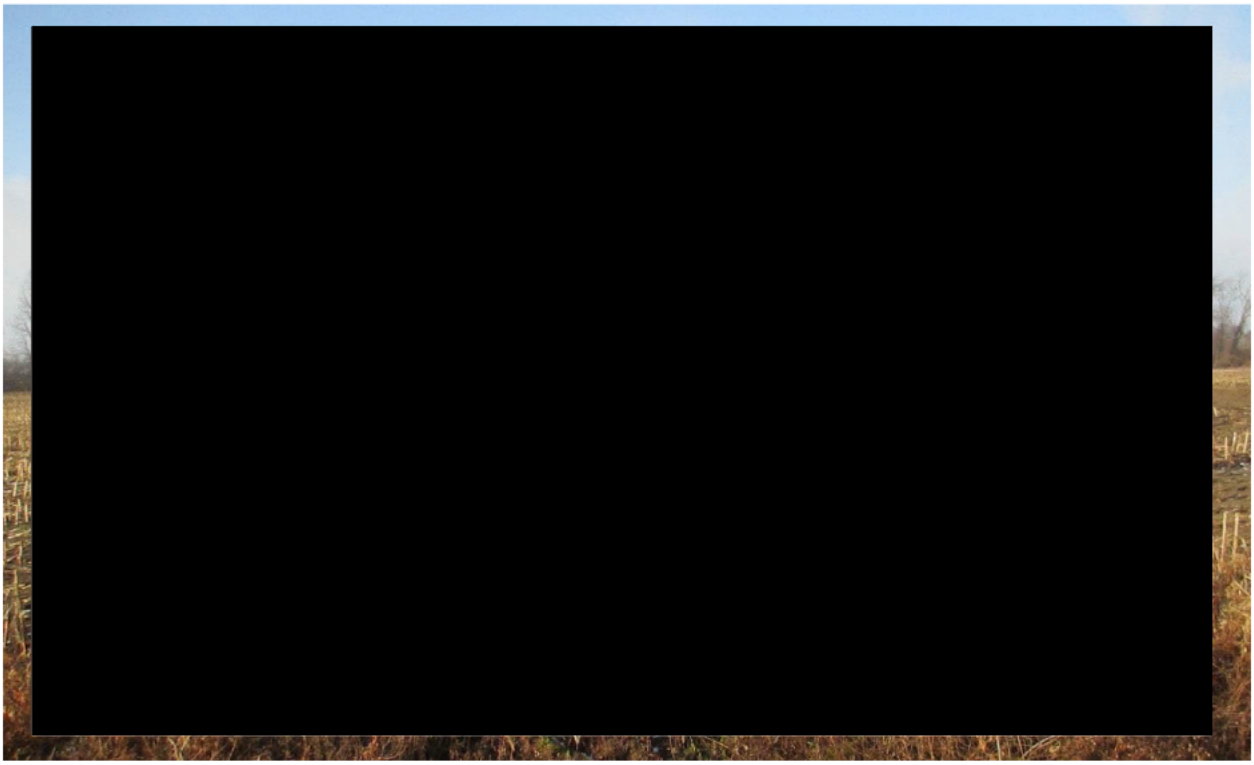
Photograph 13. Surface-inspected agricultural field in Parcel 39, facing west-southwest *(Panamerican 2021).*

Photograph 14. Shovel testing agricultural fields in Parcel 44, facing west *(Panamerican 2021).*

Photograph 15. Shovel-tested agricultural fields in the vicinity of previously reported archaeological sites in Parcel 52, facing north *(Panamerican 2021).*

Photograph 16. Shovel-tested agricultural fields in the vicinity of previously reported archaeological sites in Parcel 53, facing north *(Panamerican 2021).*

Photograph 17. Shovel-tested wooded terrain in Parcel 64, facing southwest *(Panamerican 2021).*



Photograph 18. Agricultural fields in Parcel 65 where surface finds SF-1 and SF-14 were found, facing west *(Panamerican 2021).*

Photograph 19. Shovel-tested agricultural fields in Parcel 70 with poor surface visibility, facing north *(Panamerican 2021).*

Photograph 20. Shovel-tested wooded terrain in Parcel 73, facing south *(Panamerican 2021).*

Photograph 21. Shovel tested open field in Parcel 79, facing west *(Panamerican 2021).*

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-1.1	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-1.1	2	31-41	5YR 5/3	RD BR	CL LO	NCM
1-1.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-1.2	2	28-38	5YR 5/3	RD BR	CL LO	NCM
1-1.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-1.3	2	32-42	5YR 5/3	RD BR	CL LO	NCM
1-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-1.4	2	32-42	5YR 5/3	RD BR	SI LO	NCM
1-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-1.5	2	32-42	5YR 5/3	RD BR	SI LO	NCM
1-1.6	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-1.6	2	33-43	5YR 5/3	RD BR	SI LO	NCM
1-1.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-1.7	2	30-40	5YR 5/3	RD BR	SI LO	NCM
1-1.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-1.8	2	30-40	10YR 6/4	LT YL BR	SI LO	NCM
1-1.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-1.9	2	32-42	10YR 6/4	LT YL BR	SI LO	NCM
1-1.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-1.10	2	28-38	10YR 6/4	LT YL BR	SI LO	NCM
1-1.11	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-1.11	2	29-39	5YR 5/3	RD BR	CL LO	NCM
1-1.12	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-1.12	2	30-40	5YR 5/3	RD BR	CL LO	NCM
1-1.13	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-1.13	2	30-40	5YR 5/3	RD BR	CL LO	NCM
1-1.14	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-1.14	2	29-39	5YR 5/3	RD BR	CL LO	NCM
1-1.15	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
1-1.15	2	38-48	5YR 5/3	RD BR	CL LO	NCM
1-1.16	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-1.16	2	25-35	5YR 5/3	RD BR	CL LO	NCM
1-1.17	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-1.17	2	29-39	5YR 5/3 10YR 6/4	RD BR LT YL BR	CL LO	NCM
1-1.18	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-1.18	2	34-44	5YR 5/3 10YR 6/4	RD BR LT YL BR	CL LO	NCM
1-1.19	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-1.19	2	33-43	5YR 5/3 10YR 6/4	RD BR LT YL BR	CL LO	NCM
1-1.20	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-1.20	2	26-36	10YR 6/8	BR YL	SA LO	NCM
1-1.21	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-1.21	2	28-38	5YR 5/3 10YR 6/4	RD BR LT YL BR	SA LO	NCM
1-1.22	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-1.22	2	33-43	10YR 6/4 5YR 5/3	LT YL BR RD BR	SA LO	NCM
1-1.23	1	0-29	10YR 3/2	V DK GR BR	SA LO	NCM
1-1.23	2	29-39	10YR 6/4 5YR 5/3	LT YL BR RD BR	SA LO	NCM
1-1.24	1	0-28	10YR 3/1	V DK GR	SA LO	NCM
1-1.24	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
1-1.25	1	0-29	10YR 3/1	V DK GR	SA LO	NCM
Key	**Soil Color:** BR = brown, DK = dark, GR = gray, LT = light, RD = red, V = very, YL = yellow					
	Soil Description: CL = clay, LO = loam, SA = sand, SI = silt					
	Comments: NCM = no cultural material					

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-1.25	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
1-1.26	1	0-25	10YR 3/1	V DK GR	SA LO	NCM
1-1.26	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
1-1.27	1	0-32	10YR 3/1	V DK GR	SA LO	NCM
1-1.27	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
1-1.28	1	0-34	10YR 3/1	V DK GR	SA LO	NCM
1-1.28	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
1-1.29	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-1.29	2	32-42	10YR 6/4 10YR 6/8	LT YL BR BR YL	SI LO	NCM
1-1.30	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-1.30	2	33-43	10YR 6/4 10YR 6/8	LT YL BR BR YL	SI LO	NCM
1-2.1	1	0-16	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1	2	16-26	10YR 5/6	YL BR	SA LO	NCM
1-2.1A	1	0-24	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1A	2	24-34	10YR 5/6	YL BR	SA LO	NCM
1-2.1B	1	0-22	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1B	2	22-32	10YR 5/6	YL BR	SA LO	NCM
1-2.1C	1	0-8	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1C	2	8-20	10YR 5/6	YL BR	SA LO	NCM
1-2.1D	1	0-26	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1D	2	26-36	10YR 5/6	YL BR	SA LO	NCM
1-2.1E	1	0-25	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.1E	2	25-35	10YR 5/6	YL BR	SA LO	NCM
1-2.2	1	0-27	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.2	2	27-37	10YR 5/6	YL BR	SA LO	NCM
1-2.3	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-2.3	2	22-32	10YR 6/8	BR YL	SI LO	NCM
1-2.4	1	0-24	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.4	2	24-34	10YR 4/3	BR	SA LO	NCM
1-2.5	1	0-24	10YR 3/2	V DK GR BR	SA LO	NCM
1-2.5	2	24-34	10YR 4/3	BR	SA LO	NCM
1-2.6	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
1-2.6	2	26-36	7.5YR 5/4	BR	SA LO	NCM
1-2.7	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-2.7	2	25-35	10YR 6/4	LT YL BR	SI LO	NCM
1-2.8	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
1-2.8	2	25-35	10YR 5/4	YL BR	SA CL	NCM
1-2.9	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
1-2.9	2	31-41	7.5YR 5/4	BR	SI LO	NCM
1-2.10	1	0-22	10YR 3/2	V DK GR BR	CL	NCM
1-2.10	2	22-32	7.5YR 5/4	BR	CL	NCM
1-2.11	1	0-25	10YR 3/2	V DK GR BR	SI	NCM
1-2.11	2	25-35	7.5YR 5/4	BR	SA	NCM
1-2.12	1	0-28	10YR 3/2	V DK GR BR	SI	NCM
1-2.12	2	28-38	7.5YR 5/4	BR	SA	NCM
1-2.13	1	0-12	10YR 3/2	V DK GR BR	SI	NCM; root impasse at 12cm
1-2.14	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM; root impasse at 20cm
1-2.15	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-2.15	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-2.16	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-2.16	2	27-37	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.17	1	0-18	10YR 3/2	V DK GR BR	SI LO	NCM; rock impasse at 18cm
1-2.18	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-2.18	2	22-32	10YR 5/6	YL BR	SI LO	NCM
1-2.19	1	0-24	10YR 3/2	V DK GR BR	SI LO	NCM
1-2.19	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-2.20	1	0-10	10YR 3/2	V DK BR BR	SI LO	NCM; root impasse at 10cm
1-2.21	1	0-20	10YR 3/2	V DK GR BR	SI LO	NCM
1-2.21	2	20-30	10YR 5/6	YL BR	SA LO	NCM
1-2.22	1	0-25	10YR 4/2	DK GR BR	CL LO	NCM
1-2.22	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-2.23	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-2.23	2	25-35	10YR 5/4	YL BR	CL LO	NCM
1-2.24	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-2.24	2	26-36	10YR 5/6	YL BR	SI LO	NCM
1-2.25	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
1-2.25	2	24-34	10YR 5/6	YL BR	SA LO	NCM
1-2.26	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-2.26	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
1-2.27	1	0-26	10YR 4/2	DK GR BR	CL LO	NCM
1-2.27	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
1-2.28	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-2.28	2	28-38	7.5YR 5/4	BR	SI LO	NCM
1-2.29	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.29	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
1-2.30	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-2.30	2	27-37	10YR 5/6	YL BR	SI CL LO	NCM
1-2.31	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.31	2	30-40	10YR 5/6	YL BR	SI CL LO	NCM
1-2.32	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.32	2	31-41	10YR 5/6	YL BR	SA LO	NCM
1-2.33	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-2.33	2	25-35	10YR 5/6	YL BR	SI LO	NCM
1-2.34	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-2.34	2	28-38	10YR 5/6	YL BR	SA LO	NCM
1-2.35	1	0-25	10YR 4/3	BR	SI LO	NCM
1-2.35	2	25-35	7.5YR 5/4	BR	SI LO	NCM
1-2.36	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.36	2	32-42	7.5YR 5/4	BR	SA LO	NCM
1-2.37	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-2.37	2	27-37	7.5YR 5/4	BR	SA LO	NCM
1-2.38	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-2.38	2	33-43	7.5YR 5/4	BR	SA LO	NCM
1-2.39	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-2.39	2	29-39	7.5YR 5/4	BR	SA LO	NCM
1-2.40	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.40	2	31-41	7.5YR 5/4	BR	SA LO	NCM
1-2.41	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-2.41	2	29-39	7.5YR 5/4	BR	LO	NCM
1-2.42	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
1-2.42	2	36-46	7.5YR 5/4	BR	SA LO	NCM
1-2.43	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-2.43	2	33-43	7.5YR 5/4	BR	SA LO	NCM
1-2.44	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-2.44	2	28-38	7.5YR 5/4	BR	SA LO	NCM
1-2.45	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.45	2	32-42	10YR 5/4	YL BR	SA LO	NCM
1-2.46	1	0-18	10YR 4/2	DK GR BR	SI LO	NCM; root impasse at 18cm
1-2.47	1	0-15	10YR 4/2	DK GR BR	SI LO	NCM
1-2.47	2	15-25	10YR 6/6	BR YL	SA LO	NCM
1-2.48	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
1-2.48	2	23-33	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-2.49	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
1-2.49	2	20-30	10YR 6/6	BR YL	SA LO	NCM
1-2.50	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-2.50	2	29-39	10YR 5/6	YL BR	SA LO	NCM
1-2.51	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.51	2	31-41	10YR 5/6	YL BR	SA LO	NCM
1-2.52	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-2.52	2	22-32	10YR 5/6	YL BR	SI LO	NCM
1-2.53	1	0-37	10YR 4/2	DK GR BR	SI LO	NCM
1-2.53	2	37-47	10YR 3/3	DK BR	CL	NCM
1-2.54	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.54	2	35-45	10YR 5/6	YL BR	SA LO	NCM
1-2.55	1	0-26	10YR 4/2	DK GR BR	LO	NCM
1-2.55	2	26-36	10YR 5/6	YL BR	CL LO	NCM
1-2.56	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-2.56	2	30-40	10YR 5/6	YL BR	SI CL	NCM
1-2.57	1	0-30	10YR 4/2	DK GR BR	LO	NCM
1-2.57	2	30-40	7.5YR 5/4	BR	SA LO	NCM
1-2.58	1	0-31	10YR 4/2	DK GR BR	LO	NCM
1-2.58	2	31-41	7.5YR 5/4	BR	SA LO	NCM
1-2.59	1	0-15	10YR 4/2	DK GR BR	SI LO	NCM; root impasse at 15cm
1-2.60	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-2.60	2	22-32	7.5YR 5/4	BR	CL	NCM
1-2.61	1	0-28	10YR 4/2	DK GR BR	CL LO	NCM
1-2.61	2	28-38	7.5YR 5/4	BR	CL LO	NCM
1-2.62	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
1-2.62	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
1-2.63	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
1-2.63	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
1-2.64	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.64	2	32-42	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
1-2.65	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-2.65	2	34-44	10YR 6/6	BR YL	SA CL LO	NCM
1-2.66	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.66	2	35-45	7.5YR 5/4	BR	SA CL LO	NCM
1-2.67	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-2.67	2	33-43	7.5YR 5/4	BR	SA CL LO	NCM
1-2.68	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
1-2.68	2	36-46	7.5YR 5/4	BR	SA CL	NCM
1-2.69	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
1-2.69	2	40-50	7.5YR 5/4	BR	SA CL	NCM
1-2.70	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.70	2	32-42	7.5YR 5/4	BR	SA CL	NCM
1-2.71	1	0-42	10YR 4/2	DK GR BR	SI LO	NCM
1-2.71	2	42-52	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL	NCM
1-2.72	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.72	2	35-45	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL	NCM
1-2.73	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.73	2	31-41	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.74	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-2.74	2	33-43	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.75	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.75	2	32-42	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.76	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-2.76	2	35-45	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.77	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-2.77	2	34-44	10YR 5/4 10YR 6/2	YL BR LT BR GR	SI LO	NCM
1-2.78	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.78	2	31-41	7.5YR 5/4	BR	SA CL LO	NCM
1-2.79	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.79	2	35-45	7.5YR 5/4	BR	SA CL LO	NCM
1-2.80	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.80	2	35-45	10YR 5/4	YL BR	SI LO	NCM
1-2.81	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-2.81	2	34-44	10YR 5/6	YL BR	SA LO	NCM
1-2.82	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.82	2	31-41	10YR 5/6	YL BR	SA LO	NCM
1-2.83	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-2.83	2	28-38	10YR 5/6	YL BR	SA LO	NCM
1-2.84	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
1-2.84	2	40-50	10YR 5/6	YL BR	SA LO	NCM
1-2.85	1	0-45	10YR 4/2	DK GR BR	SI LO	NCM
1-2.85	2	45-55	10YR 5/4	YL BR	SI LO	NCM
1-2.86	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-2.86	2	32-42	10YR 5/3	BR	SI LO	NCM
1-2.87	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-2.87	2	26-36	10YR 5/3	BR	SI LO	NCM
1-2.88	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-2.88	2	30-40	10YR 5/3	BR	SA LO	NCM
1-2.89	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
1-2.89	2	35-45	10YR 5/3	BR	SA LO	NCM
1-2.90	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-2.90	2	31-41	10YR 5/3	BR	SA LO	NCM
1-2.91	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
1-2.91	2	24-34	10YR 5/3	BR	SA LO	NCM
1-2.92	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-2.92	2	26-36	10YR 5/4	YL BR	SA LO	NCM
1-2.93	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-2.93	2	29-39	10YR 5/4	YL BR	SA LO	NCM
1-2.94	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-2.94	2	30-40	10YR 5/4	YL BR	SA LO	NCM
1-2.95	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
1-2.95	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-2.96	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-2.96	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-2.97	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-2.97	2	22-32	10YR 5/4	YL BR	SA LO	NCM
1-2.98	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-2.98	2	26-36	10YR 5/4	YL BR	SA LO	NCM
1-3.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM; gravel
1-3.1	2	26-36	10YR 5/3	BR	SI LO	NCM
1-3.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-3.2	2	29-39	10YR 5/4	YL BR	SA LO	NCM
1-3.3	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
1-3.3	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-3.4	1	0-21	10YR 4/2	DK GR BR	SI LO	NCM
1-3.4	2	21-31	10YR 5/4	YL BR	SA LO	NCM
1-3.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-3.5	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-3.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-3.6	2	29-39	10YR 5/4	YL BR	SA LO	NCM
1-3.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-3.7	2	30-40	10YR 5/4	YL BR	SA LO	NCM
1-3.8	1	0-22	10YR 4/2	DK GR BR	LO	NCM
1-3.8	2	22-32	10YR 5/4	YL BR	SA LO	NCM
1-3.9	1	0-25	10YR 4/2	DK GR BR	LO	NCM
1-3.9	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-4.1	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
1-4.1	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-4.2	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
1-4.2	2	40-50	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-4.3	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
1-4.3	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-4.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-4.4	2	33-43	10YR 7/2 10YR 6/4	LT GR LT YL BR	SA	NCM
1-4.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-4.5	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA	NCM
1-4.6	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
1-4.6	2	20-30	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA	NCM
1-4.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-4.7	2	28-38	10YR 5/6	YL BR	SA LO	NCM
1-4.8	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
1-4.8	2	38-48	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
1-4.9	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-4.9	2	26-36	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
1-4.10	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-4.10	2	32-42	10YR 5/6	YL BR	SA LO	NCM
1-4.11	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-4.11	2	34-40	10YR 5/4	YL BR	SI LO	NCM
1-4.12	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-4.12	2	34-44	10YR 5/4	YL BR	SI LO	NCM
1-4.13	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-4.13	2	33-43	10YR 5/6	YL BR	SI LO	NCM
1-4.14	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-4.14	2	31-41	10YR 5/6	YL BR	SI LO	NCM
1-4.15	1	0-27	10YR 4/3	BR	SI LO	NCM
1-4.15	2	27-37	10YR 6/3 7.5YR 5/4	PALE BR BR	SA	NCM
1-4.16	1	0-35	10YR 4/3	BR	SI LO	NCM
1-4.16	2	35-45	10YR 5/4	YL BR	SI LO	NCM
1-4.17	1	0-32	10YR 4/3	BR	SI LO	NCM
1-4.17	2	32-42	10YR 6/4	LT YL BR	SA LO	NCM
1-4.18	1	0-36	10YR 4/3	BR	SI LO	NCM
1-4.18	2	36-46	10YR 5/6	YL BR	SI LO	NCM
1-4.19	1	0-31	10YR 4/3	BR	SI LO	NCM
1-4.19	2	31-41	10YR 5/6	YL BR	SI LO	NCM
1-4.20	1	0-34	10YR 4/3	BR	SI LO	NCM
1-4.20	2	34-44	10YR 5/6	YL BR	SI LO	NCM
1-4.21	1	0-30	10YR 4/3	BR	SI LO	NCM
1-4.21	2	30-40	10YR 5/6	YL BR	SI LO	NCM
1-4.22	1	0-27	10YR 4/3	BR	SI LO	NCM
1-4.22	2	27-37	10YR 5/6	YL BR	SI LO	NCM
1-5.1	1	0-38	10YR 4/2	DK GR BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-5.1	2	38-48	10YR 7/2 10YR 6/4	LT GR LT YL BR	SA LO	NCM
1-5.2	1	0-36	10YR 4/2	DK GR BR	SA LO	NCM
1-5.2	2	36-46	10YR 7/2 10YR 6/4	LT GR LT YL BR	SA LO	NCM
1-5.3	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.3	2	26-36	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-5.4	1	0-40	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.4	2	40-50	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-5.5	1	0-40	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.5	2	40-50	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
1-5.6	1	0-28	10YR 5/3	BR	SI LO	NCM
1-5.6	2	28-38	10YR 5/6	YL BR	SA LO	NCM
1-5.7	1	0-25	10YR 5/3	BR	SI LO	NCM
1-5.7	2	25-35	10YR 5/6	YL BR	SA LO	NCM
1-5.8	1	0-10	10YR 5/3	BR	SI LO	NCM
1-5.8	2	10-25	10YR 5/6	YL BR	SA LO	NCM
1-5.9	1	0-29	10YR 5/3	BR	SI LO	NCM
1-5.9	2	29-39	10YR 5/6	YL BR	SA LO	NCM
1-5.10	1	0-24	10YR 5/3	BR	SI LO	NCM
1-5.10	2	24-34	10YR 5/6	YL BR	SA LO	NCM
1-5.11	1	0-37	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.11	2	37-47	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.12	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.12	2	38-48	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.13	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.13	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.14	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.14	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.15	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.15	2	22-32	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.16	1	0-25	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.16	2	25-35	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.17	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.17	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.18	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.18	2	26-36	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.19	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.19	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.20	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.20	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.21	1	0-37	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.21	2	37-47	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
1-5.22	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.22	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-5.23	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM; rock impasse at 22cm
1-5.24	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.24	2	22-32	10YR 4/4	DK YL BR	SA	NCM
1-5.25	1	0-25	10YR 3/2	V DK GR BR	SI LO	NCM
1-5.25	2	25-35	10YR 4/4	DK YL BR	SA	NCM
1-6.1	1	0-33	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.1	2	33-43	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.2	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.2	2	28-38	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.3	1	0-23	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.3	2	23-33	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.4	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.4	2	25-35	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.5	1	0-20	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.5	2	20-30	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.6	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.6	2	28-38	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.7	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.7	2	24-34	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.8	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM; gravel
1-6.8	2	25-35	10YR 5/4	YL BR	SA LO	NCM; gravel
1-6.9	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
1-6.9	2	26-36	10YR 5/4	YL BR	SA LO	NCM
1-6.10	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
1-6.10	2	32-42	10YR 5/4	YL BR	SA LO	NCM
1-6.11	1	0-18	10YR 4/2	DK GR BR	SA LO	NCM
1-6.11	2	18-28	10YR 5/4	YL BR	SA LO	NCM
1-6.12	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM
1-6.12	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-6.13	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
1-6.13	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-6.14	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
1-6.14	2	25-35	10YR 5/4	YL BR	SA LO	NCM
1-6.15	1	0-22	10YR 4/2	DK GR BR	SA LO	NCM
1-6.15	2	22-32	10YR 5/4	YL BR	SA LO	NCM
1-6.16	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
1-6.16	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-6.17	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM
1-6.17	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-6.18	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
1-6.18	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-6.19	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
1-6.19	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-6.20	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM
1-6.20	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-6.21	1	0-20	10YR 4/2	DK GR BR	SA LO	NCM
1-6.21	2	20-30	10YR 5/4	YL BR	SA LO	NCM
1-6.22	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM
1-6.22	2	24-34	10YR 5/4	YL BR	SA LO	NCM
1-6.23	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
1-6.23	2	27-37	10YR 5/4	YL BR	SA LO	NCM
1-6.24	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
1-6.24	2	26-36	7.5YR 3/4 7.5YR 5/6	DK BR STRONG BR	SA CL LO	NCM
1-6.25	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
1-6.25	2	30-40	7.5YR 3/4 7.5YR 5/6	DK BR STRONG BR	SA CL LO	NCM
1-6.26	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
1-6.26	2	26-37	7.5YR 3/4 7.5YR 5/6	DK BR STRONG BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-6.27	1	0-22	10YR 4/2	DK GR BR	SA LO	NCM
1-6.27	2	22-32	7.5YR 3/4 7.5YR 5/6	DK BR STRONG BR	SA CL LO	NCM
1-6.28	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
1-6.28	2	25-35	7.5YR 5/6	STRONG BR	SI LO	NCM
1-6.29	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-6.29	2	30-40	7.5YR 5/6	STRONG BR	SI LO	NCM
1-6.30	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
1-6.30	2	24-34	7.5YR 5/6	STRONG BR	SI LO	NCM
1-7.1	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-7.1	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.2	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-7.2	2	32-42	10YR 5/4	YL BR	CL LO	NCM
1-7.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-7.3	2	29-39	10YR 5/4	YL BR	CL LO	NCM
1-7.4	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-7.4	2	22-32	10YR 5/4	YL BR	SI LO	NCM
1-7.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-7.5	2	26-36	10YR 5/4	YL BR	SI LO	NCM
1-7.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
1-7.6	2	29-39	10YR 5/4	YL BR	SI LO	NCM
1-7.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-7.7	2	28-38	10YR 5/4	YL BR	SI LO	NCM
1-7.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-7.8	2	30-40	10YR 5/4	YL BR	SI LO	NCM
1-7.9	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-7.9	2	33-43	10YR 5/4	YL BR	SI LO	NCM
1-7.10	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
1-7.10	2	34-44	10YR 5/4	YL BR	SI LO	NCM
1-7.11	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-7.11	2	31-41	10YR 5/4	YL BR	SI LO	NCM
1-7.12	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
1-7.12	2	33-43	10YR 5/4	YL BR	SI LO	NCM
1-7.13	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-7.13	2	31-41	10YR 5/4	YL BR	SI LO	NCM
1-7.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
1-7.14	2	30-40	10YR 5/4	YL BR	SI LO	NCM
1-7.15	1	0-33	10YR 4/2	DK BR BR	SI LO	NCM
1-7.15	2	33-43	10YR 5/4	YL BR	SI LO	NCM
1-7.16	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-7.16	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.17	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-7.17	2	22-32	10YR 5/4	YL BR	SI LO	NCM
1-7.18	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-7.18	2	28-38	10YR 5/4	YL BR	SI LO	NCM
1-7.19	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
1-7.19	2	31-41	10YR 5/4	YL BR	SI LO	NCM
1-7.20	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-7.20	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.21	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
1-7.21	2	32-42	10YR 5/4	YL BR	SI LO	NCM
1-7.22	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
1-7.22	2	28-38	10YR 5/4	YL BR	SI LO	NCM
1-7.23	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-7.23	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.24	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
1-7.24	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.25	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
1-7.25	2	22-32	10YR 5/4	YL BR	SI LO	NCM
1-7.26	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
1-7.26	2	27-37	10YR 5/4	YL BR	SI LO	NCM
1-7.27	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
1-7.27	2	26-36	10YR 5/4	YL BR	SI LO	NCM
2/3-1.1	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.1	2	30-40	7.5YR 5/4	BR	CL LO	NCM
2/3-1.2	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.2	2	27-37	10YR 6/2 7.5YR 5/4	LT BR GR BR	CL LO	NCM
2/3-1.3	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.3	2	29-39	10YR 6/2 7.5YR 5/4	LT BR GR BR	CL LO	NCM
2/3-1.4	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.4	2	30-40	7.5YR 5/4	BR	CL LO	NCM
2/3-1.5	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.5	2	26-36	10YR 6/2 7.5YR 5/4	LT BR GR BR	CL LO	NCM
2/3-1.6	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.6	2	29-39	10YR 6/2 7.5YR 5/4	LT BR GR BR	CL LO	NCM
2/3-1.7	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.7	2	26-36	10YR 6/2 7.5YR 5/4	LT BR GR BR	CL LO	NCM
2/3-1.8	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.8	2	28-38	7.5YR 5/4	BR	CL LO	NCM
2/3-1.9	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.9	2	26-36	7.5YR 5/4	BR	CL LO	NCM
2/3-1.10	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.10	2	28-38	7.5YR 5/4	BR	CL LO	NCM
2/3-1.11	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.11	2	27-37	7.5YR 5/4	BR	CL LO	NCM
2/3-1.12	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.12	2	28-38	7.5YR 5/4	BR	CL LO	NCM
2/3-1.13	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.13	2	27-37	7.5YR 5/4	BR	CL LO	NCM
2/3-1.14	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.14	2	25-35	7.5YR 5/4	BR	CL LO	NCM
2/3-1.15	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.15	2	28-38	10YR 5/6	YL BR	SA	NCM
2/3-1.16	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.16	2	27-37	10YR 5/6	YL BR	SA	NCM
2/3-1.17	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.17	2	25-35	10YR 5/6	YL BR	SA	NCM
2/3-1.18	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
2/3-1.18	2	26-36	10YR 5/6	YL BR	SA	NCM
2/3-1.19	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
2/3-1.19	2	27-37	10YR 5/6	YL BR	SA LO	NCM
2/3-1.20	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
2/3-1.20	2	29-39	10YR 5/6	YL BR	SA LO	NCM
3-1.1	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
3-1.1	2	30-40	10YR 5/6	YL BR	SA LO	NCM
3-1.2	1	0-37	10YR 4/2	DK GR BR	SA LO	NCM
3-1.2	2	37-47	10YR 5/6	YL BR	SA LO	NCM
3-1.3	1	0-36	10YR 4/2	DK GR BR	SA LO	NCM
3-1.3	2	36-46	10YR 5/6	YL BR	SA LO	NCM
3-1.4	1	0-34	10YR 4/2	DK GR BR	SA LO	NCM
3-1.4	2	34-44	10YR 5/6	YL BR	SA LO	NCM
3-1.5	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
3-1.5	2	32-42	10YR 5/6	YL BR	SA LO	NCM
3-1.6	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
3-1.6	2	30-40	10YR 5/6	YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
3-1.7	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
3-1.7	2	30-40	10YR 5/6	YL BR	SA LO	NCM
4-1.1	1	0-24	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.1	2	24-34	10YR 5/4	YL BR	SI LO	NCM
4-1.2	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.2	2	31-41	10YR 5/4	YL BR	SI LO	NCM
4-1.3	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.3	2	30-40	10YR 5/6	YL BR	SI CL LO	NCM
4-1.4	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.4	2	32-42	10YR 5/6	YL BR	SI CL LO	NCM
4-1.5	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.5	2	32-42	10YR 5/6	YL BR	SI CL LO	NCM
4-1.6	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
4-1.6	2	31-41	10YR 5/6	YL BR	SI CL LO	NCM
4-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.7	2	32-42	10YR 5/3	BR	SI LO	NCM
4-1.8	1	0-18	10YR 4/2	DK GR BR	SI LO	NCM
4-1.8	2	18-28	10YR 5/3	BR	SI LO	NCM
4-1.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.9	2	28-38	10YR 5/3	BR	SI LO	NCM
4-1.10	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
4-1.10	2	31-41	10YR 5/3	BR	SI LO	NCM
4-1.11	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
4-1.11	2	27-37	10YR 5/3	BR	SI LO	NCM
4-1.12	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.12	2	32-42	10YR 5/3	BR	SI LO	NCM
4-1.13	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.13	2	32-42	10YR 5/3	BR	SI LO	NCM
4-1.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.14	2	30-40	10YR 5/3	BR	SI LO	NCM
4-1.15	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
4-1.15	2	33-43	10YR 5/3	BR	SI LO	NCM
4-1.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.16	2	30-40	10YR 5/3	BR	SI LO	NCM
4-1.17	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
4-1.17	2	31-41	10YR 5/3	BR	SI LO	NCM
4-1.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.18	2	29-39	10YR 5/3	BR	SI LO	NCM
4-1.19	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.19	2	29-39	10YR 5/3	BR	SI LO	NCM
4-1.20	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
4-1.20	2	23-33	10YR 5/3	BR	SI LO	NCM
4-1.21	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.21	2	28-38	10YR 5/3	BR	SI LO	NCM
4-1.22	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
4-1.22	2	35-45	10YR 5/3	BR	SI LO	NCM
4-1.23	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.23	2	28-38	10YR 5/3	BR	SI CL LO	NCM
4-1.24	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.24	2	30-40	10YR 5/3	BR	SI CL LO	NCM
4-1.25	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.25	2	30-40	10YR 5/3	BR	SI CL LO	NCM
4-1.26	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.26	2	32-42	10YR 5/6	YL BR	SI CL LO	NCM
4-1.27	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
4-1.27	2	27-37	10YR 5/6	YL BR	SI CL LO	NCM
4-1.28	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.28	2	28-38	10YR 5/6	YL BR	SI CL LO	NCM
4-1.29	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.29	2	30-40	10YR 5/6	YL BR	SI CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
4-1.30	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.30	2	28-38	10YR 5/6	YL BR	SI CL LO	NCM
4-1.31	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
4-1.31	2	24-34	10YR 5/6	YL BR	SI CL LO	NCM
4-1.32	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
4-1.32	2	34-44	10YR 5/6	YL BR	SI CL LO	NCM
4-1.33	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.33	2	32-42	10YR 5/6	YL BR	SI CL LO	NCM
4-1.34	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.34	2	30-40	10YR 5/6	YL BR	SI CL LO	NCM
4-1.35	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.35	2	29-39	10YR 5/4	YL BR	SI LO	NCM
4-1.36	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.36	2	30-40	10YR 5/3	BR	SI LO	NCM
4-1.37	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.37	2	28-38	10YR 5/3	BR	SI LO	NCM
4-1.37A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.37A	2	30-40	10YR 5/3	BR	SI LO	NCM
4-1.37B	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
4-1.37B	2	34-44	10YR 5/3	BR	SI LO	NCM
4-1.37C	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
4-1.37C	2	33-43	10YR 5/3	BR	SI LO	NCM
4-1.38	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
4-1.38	2	33-43	10YR 5/3	BR	SI LO	NCM
4-1.39	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.39	2	29-39	10YR 5/3	BR	SI LO	NCM
4-1.40	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.40	2	32-42	10YR 5/3	BR	SI LO	NCM
4-1.41	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.41	2	29-39	10YR 5/3	BR	SI LO	NCM
4-1.42	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-1.42	2	30-40	10YR 5/3	BR	SI LO	NCM
4-1.43	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.43	2	32-42	10YR 5/3	BR	SI LO	NCM
4-1.44	1	0-25	10YR 4/3	BR	SA	NCM; gravel
4-1.44	2	25-35	10YR 6/4	LT YL BR	SA CL LO	NCM; gravel
4-1.45	1	0-27	10YR 3/2	V DK GR BR	SA LO	NCM; gravel
4-1.45	2	27-37	10YR 6/4	LT YL BR	SA CL LO	NCM; gravel
4-1.46	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
4-1.46	2	24-34	10YR 5/6	YL BR	SI LO	NCM
4-1.47	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.47	2	29-39	10YR 5/4	YL BR	SI LO	NCM
4-1.48	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.48	2	28-38	10YR 5/4	YL BR	SI LO	NCM
4-1.49	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
4-1.49	2	28-38	10YR 5/4	YL BR	SI LO	NCM
4-1.50	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
4-1.50	2	26-36	10YR 5/4	YL BR	SI LO	NCM
4-1.51	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-1.51	2	32-42	10YR 5/4	YL BR	SI LO	NCM
4-1.52	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
4-1.52	2	26-36	10YR 5/4	YL BR	SI LO	NCM
4-1.53	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-1.53	2	29-39	10YR 5/4	YL BR	SI LO	NCM
4-2.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-2.1	2	32-42	10YR 5/6	YL BR	SI LO	NCM
4-2.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
4-2.2	2	31-41	10YR 5/6	YL BR	SI LO	NCM
4-2.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-2.3	2	29-39	10YR 5/6	YL BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
4-2.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
4-2.4	2	32-42	10YR 5/6	YL BR	SI LO	NCM
4-2.5	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
4-2.5	2	34-44	10YR 5/6	YL BR	SI LO	NCM
4-2.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
4-2.6	2	29-39	10YR 5/6	YL BR	SI LO	NCM
4-2.7	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
4-2.7	2	33-43	10YR 5/6	YL BR	SI LO	NCM
4-2.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
4-2.8	2	30-40	10YR 5/6	YL BR	SI LO	NCM
8-1.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
8-1.1	2	26-36	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
8-1.2	2	30-40	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
8-1.3	2	27-37	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.4	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
8-1.4	2	34-44	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
8-1.5	2	27-37	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.6	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
8-1.6	2	33-43	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.7	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
8-1.7	2	29-39	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
8-1.8	2	28-38	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.9	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
8-1.9	2	34-44	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
8-1.10	2	29-39	7.5YR 6/4	LT BR	SA CL LO	NCM
8-1.11	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
8-1.11	2	31-41	7.5YR 6/4	LT BR	SA CL LO	NCM
8-2.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
8-2.1	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
8-2.2	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
8-2.2	2	44-54	10YR 5/4	YL BR	SA CL LO	NCM
8-2.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
8-2.3	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
8-2.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
8-2.4	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
8-2.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
8-2.5	2	32-42	10YR 5/4	YL BR	SA CL LO	NCM
8-2.6	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
8-2.6	2	25-35	10YR 5/4	YL BR	SA CL LO	NCM
8-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
8-2.7	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
8-2.8	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
8-2.8	2	24-34	10YR 5/4	YL BR	SA CL LO	NCM
8-2.9	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
8-2.9	2	33-43	10YR 5/4	YL BR	SI LO	NCM
8-2.10	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
8-2.10	2	40-50	10YR 5/4	YL BR	SI LO	NCM
8-2.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
8-2.11	2	28-38	10YR 5/4	YL BR	SI LO	NCM
8-2.12	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
8-2.12	2	27-37	10YR 5/4	YL BR	SI LO	NCM
8-2.13	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
8-2.13	2	30-40	10YR 5/4	YL BR	SI LO	NCM
8-2.14	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
8-2.14	2	27-37	10YR 5/4	YL BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
8-2.15	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
8-2.15	2	38-48	10YR 5/4	YL BR	SI LO	NCM
8-2.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
8-2.16	2	30-40	10YR 5/4	YL BR	SI LO	NCM
8-2.17	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
8-2.17	2	26-36	10YR 5/4	YL BR	SI LO	NCM
8-2.18	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
8-2.18	2	23-33	10YR 5/4	YL BR	SI LO	NCM
8-2.19	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
8-2.19	2	26-36	10YR 5/4	YL BR	SI LO	NCM
10-1.1	1	0-42	10YR 4/2	DK GR BR	SI LO	NCM
10-1.1	2	42-52	10YR 5/4	YL BR	SI LO	NCM
10-1.2	1	0-48	10YR 4/2	DK GR BR	SI LO	NCM
10-1.2	2	48-58	10YR 5/4	YL BR	SI LO	NCM
10-1.3	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
10-1.3	2	35-45	10YR 5/4	YL BR	SI LO	NCM
10-1.4	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.4	2	27-37	10YR 5/4	YL BR	SI LO	NCM
10-1.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.5	2	27-37	10YR 5/4	YL BR	SI LO	NCM
10-1.6	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
10-1.6	2	26-36	10YR 5/4	YL BR	SI LO	NCM
10-1.6A	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
10-1.6A	2	25-35	7.5YR 5/4	BR	SI LO	NCM
10-1.6B	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
10-1.6B	2	32-42	7.5YR 5/4	BR	SI LO	NCM
10-1.6C	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
10-1.6C	2	30-40	7.5YR 5/4	BR	SI LO	NCM
10-1.6D	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
10-1.6D	2	33-43	7.5YR 5/4	BR	SI LO	NCM
10-1.7	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
10-1.7	2	26-36	10YR 5/4	YL BR	SI LO	NCM
10-1.8	1	0-46	10YR 4/2	DK GR BR	SI LO	NCM
10-1.8	2	46-56	10YR 6/6	BR YL	SI LO	NCM
10-1.9	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.9	2	27-37	10YR 6/6	BR YL	SI LO	NCM
10-1.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
10-1.10	2	29-39	10YR 6/6	BR YL	SI LO	NCM
10-1.11	1	0-32	10YR 3/3	DK BR	SI LO	NCM
10-1.11	2	32-42	7.5YR 5/4	BR	SI LO	NCM
10-1.12	1	0-29	10YR 3/3	DK BR	SI LO	NCM
10-1.12	2	29-39	7.5YR 5/4	BR	SI LO	NCM
10-1.13	1	0-28	10YR 3/3	DK BR	SI LO	NCM
10-1.13	2	28-38	7.5YR 5/4	BR	SI LO	NCM
10-1.14	1	0-28	10YR 3/3	DK BR	SI LO	NCM
10-1.14	2	28-38	7.5YR 5/4	BR	SI LO	NCM
10-1.15	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
10-1.15	2	28-38	10YR 6/6	BR YL	SA CL LO	NCM
10-1.16	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
10-1.16	2	29-39	10YR 6/6	BR YL	SA CL LO	NCM
10-1.17	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
10-1.17	2	29-39	10YR 6/6	BR YL	SA CL LO	NCM
10-1.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
10-1.18	2	29-39	10YR 6/6	BR YL	SA CL LO	NCM
10-1.19	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
10-1.19	2	28-38	10YR 6/6	BR YL	SA CL LO	NCM
10-1.20	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
10-1.20	2	26-36	10YR 6/6	BR YL	SA CL LO	NCM
10-1.21	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.21	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
10-1.22	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.22	2	27-37	10YR 6/4 10YR 6/6	LT YL BR BR YL	SA CL LO	NCM
10-1.23	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.23	2	27-37	10YR 6/4 10YR 6/6	LT YL BR BR YL	SA CL LO	NCM
10-1.24	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
10-1.24	2	28-38	10YR 6/4 10YR 6/6	LT YL BR BR YL	SA CL LO	NCM
10-1.25	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
10-1.25	2	27-37	10YR 6/3	PALE BR	SA	NCM
10-1.26	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
10-1.26	2	33-43	10YR 6/3	PALE BR	SA	NCM
10-1.27	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
10-1.27	2	26-36	10YR 6/3	PALE BR	SA	NCM
14-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
14-1.1	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.2	1	0-30	10YR 4/2	DK GR BR	SI O	NCM
14-1.2	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
14-1.3	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.4	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.5	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-1.6	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.7	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
14-1.7	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
14-1.8	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.9	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-1.10	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.11	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-1.11	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.12	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.12	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.13	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.13	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.14	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
14-1.14	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.15	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
14-1.15	2	36-46	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
14-1.16	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
14-1.16	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.17	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.17	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.18	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
14-1.18	2	3-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.19	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
14-1.19	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.20	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
14-1.20	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.21	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.21	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.22	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
14-1.22	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.23	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-1.23	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
14-1.24	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-1.24	2	32-42	10YR 6/3 10YR 6/8	10YR 6/3 10YR 6/8	SA LO	NCM
14-2.1	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
14-2.1	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
14-2.2	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.3	1	0-32	1YR 4/2	DK GR BR	SI LO	NCM
14-2.3	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
14-2.4	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.5	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
14-2.5	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-2.6	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
14-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
14-2.7	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM
17-1.1	1	0-15	10YR 3/3	DK BR	SA LO	NCM
17-1.1	2	15-25	10YR 5/4	YL BR	SA LO	NCM
17-1.2	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
17-1.2	2	30-40	10YR 5/4	YL BR	SA LO	NCM
17-1.3	1	0-28	10YR 4/2	DK GR BR	SA	NCM
17-1.3	2	28-38	10YR 5/4	YL BR	SA	NCM
17-1.4	1	0-20	10YR 4/2	DK GR BR	SA	NCM; gravel
17-1.4	2	20-30	10YR 5/4	YL BR	SA	NCM
17-1.5	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
17-1.5	2	30-40	10YR 5/4	YL BR	SA LO	NCM
17-1.6	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM
17-1.6	2	27-37	10YR 5/4	YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
21-1.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-1.1	2	26-36	10YR 5/4	YL BR	SI CL LO	NCM
21-1.2	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-1.2	2	26-36	10YR 5/4	YL BR	SI CL LO	NCM
21-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-1.3	2	28-38	10YR 5/4	YL BR	SI CL LO	NCM
21-1.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-1.4	2	30-40	10YR 5/4	YL BR	SI CL LO	NCM
21-1.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-1.5	2	28-38	10YR 5/4	YL BR	SI CL LO	NCM
21-1.6	1	0-41	10YR 4/2	DK GR BR	SI LO	NCM
21-1.6	2	41-51	10YR 5/4	YL BR	SI CL LO	NCM
21-1.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-1.7	2	28-38	10YR 5/4	YL BR	SI CL LO	NCM
21-1.8	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
21-1.8	2	20-30	10YR 5/4	YL BR	SI CL LO	NCM
21-1.9	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-1.9	2	30-40	10YR 5/4	YL BR	SI CL LO	NCM
21-1.10	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
21-1.10	2	23-33	10YR 5/4	YL BR	SI CL LO	NCM
21-1.11	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
21-1.11	2	24-34	7.5YR 6/4	LT BR	SA LO	NCM
21-1.12	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-1.12	2	30-40	7.5YR 6/4	LT BR	SA LO	NCM
21-1.13	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-1.13	2	27-37	7.5YR 6/4	LT BR	SA LO	NCM
21-1.14	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
21-1.14	2	24-34	7.5YR 6/4	LT BR	SA LO	NCM
21-1.15	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
21-1.15	2	31-41	7.5YR 6/4	LT BR	SA LO	NCM
21-1.16	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
21-1.16	2	38-48	7.5YR 6/4	LT BR	SA LO	NCM
21-1.17	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
21-1.17	2	34-44	7.5YR 6/4	LT BR	SA LO	NCM
21-1.18	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-1.18	2	26-36	7.5YR 6/4	LT BR	SA LO	NCM
21-2.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-2.1	2	28-38	10YR 5/4	YL BR	SA LO	NCM
21-2.2	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-2.2	2	26-36	10YR 5/4	YL BR	SI LO	NCM
21-2.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-2.3	2	29-39	10YR 5/4	YL BR	SI LO	NCM
21-2.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-2.4	2	28-38	10YR 5/4	YL BR	SI LO	NCM
21-2.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-2.5	2	27-37	10YR 5/4	YL BR	SI LO	NCM
21-2.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-2.6	2	30-40	10YR 5/4	YL BR	SI LO	NCM
21-2.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-2.7	2	27-37	10YR 5/4	YL BR	SI LO	NCM
21-2.8	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
21-2.8	2	35-45	10YR 5/4	YL BR	SI LO	NCM
21-2.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-2.9	2	28-38	7.5YR 6/4	LT BR	SA LO	NCM
21-2.10	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-2.10	2	27-37	10YR 5/4	YL BR	SA LO	NCM
21-3.1	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
21-3.1	2	34-44	10YR 5/4	YL BR	SI LO	NCM
21-3.2	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-3.2	2	26-36	10YR 5/4	YL BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
21-3.3	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
21-3.3	2	34-44	10YR 5/6	YL BR	SA CL LO	NCM
21-3.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-3.4	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
21-3.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-3.5	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
21-3.6	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
21-3.6	2	34-44	10YR 5/6	YL BR	SA CL LO	NCM
21-3.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-3.7	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
21-3.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-3.8	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM
21-3.9	1	0-45	10YR 4/2	DK GR BR	SI LO	NCM
21-3.9	2	45-55	10YR 6/4	LT YL BR	SA LO	NCM
21-3.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-3.10	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM
21-3.11	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
21-3.11	2	34-44	10YR 6/4	LT YL BR	SA LO	NCM
21-3.12	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
21-3.12	2	36-46	10YR 6/4	LT YL BR	SA LO	NCM
21-3.13	1	0-50	10YR 4/2	DK GR BR	SI LO	NCM
21-3.13	2	50-60	10YR 6/4	LT YL BR	SA LO	NCM
21-3.14	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
21-3.14	2	32-42	7.5YR 6/4	LT BR	SA LO	NCM
21-3.15	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
21-3.15	2	33-43	7.5YR 6/4	LT BR	SA LO	NCM
21-3.16	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
21-3.16	2	33-43	7.5YR 6/4	LT BR	SA LO	NCM
21-3.17	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
21-3.17	2	40-50	7.5YR 6/4	LT BR	SA LO	NCM
21-3.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-3.18	2	29-39	7.5YR 6/4	LT BR	SA LO	NCM
21-3.19	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-3.19	2	30-40	7.5YR 6/4	LT BR	SA LO	NCM
21-3.20	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
21-3.20	2	32-42	7.5YR 6/4	LT BR	SA LO	NCM
21-3.21	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-3.21	2	28-38	7.5YR 6/4	LT BR	SA LO	NCM
21-3.22	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-3.22	2	26-36	7.5YR 6/4	LT BR	SI LO	NCM
21-4.1	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
21-4.1	2	36-46	10YR 5/4	YL BR	SI LO	NCM
21-4.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
21-4.2	2	31-41	10YR 5/4	YL BR	SI LO	NCM
21-4.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-4.3	2	29-39	10YR 5/4	YL BR	SI LO	NCM
21-4.4	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-4.4	2	27-37	10YR 5/4	YL BR	SI LO	NCM
21-4.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
21-4.5	2	32-42	10YR 5/4	YL BR	SI LO	NCM
21-4.6	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
21-4.6	2	25-35	7.5YR 5/4	BR	SA LO	NCM
21-4.7	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
21-4.7	2	31-41	7.5YR 5/4	BR	SA LO	NCM
21-4.8	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-4.8	2	26-36	7.5YR 5/4	BR	SA LO	NCM
21-4.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-4.9	2	28-38	7.5YR 5/4	BR	SA LO	NCM
21-4.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-4.10	2	28-38	7.5YR 5/4	BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
21-4.11	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-4.11	2	29-39	7.5YR 5/4	BR	SA LO	NCM
21-4.12	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
21-4.12	2	38-48	7.5YR 5/4	BR	SA LO	NCM
21-4.13	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
21-4.13	2	25-35	7.5YR 5/4	BR	SA LO	NCM
21-4.14	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
21-4.14	2	25-35	7.5YR 5/4	BR	SA LO	NCM
21-4.15	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
21-4.15	2	28-38	7.5YR 5/4	BR	SA LO	NCM
21-4.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-4.16	2	30-40	7.5YR 5/4	BR	SA LO	NCM
21-4.17	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
21-4.17	2	30-40	7.5YR 5/4	BR	SA LO	NCM
21-4.18	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-4.18	2	26-36	7.5YR 5/4	BR	SA LO	NCM
21-4.19	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-4.19	2	26-36	7.5YR 5/4	BR	SA LO	NCM
21-4.20	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
21-4.20	2	25-35	7.5YR 5/4	BR	SA LO	NCM
21-4.21	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
21-4.21	2	26-36	7.5YR 5/4	BR	SA LO	NCM
21-4.22	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
21-4.22	2	22-32	10YR 5/4	YL BR	SA CL LO	NCM
21-4.23	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
21-4.23	2	36-46	10YR 5/4	YL BR	SA CL LO	NCM
21-4.24	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
21-4.24	2	27-37	10YR 5/4	YL BR	SA CL LO	NCM
21-4.25	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-4.25	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
21-4.26	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
21-4.26	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
22-1.1	1	0-30	10YR 5/3	BR	SI LO	NCM
22-1.1	2	30-40	10YR 6/4	LT YL BR	SI LO	NCM
22-1.2	1	0-36	10YR 5/3	BR	SI LO	NCM
22-1.2	2	36-46	10YR 6/4	LT YL BR	SI LO	NCM
22-1.3	1	0-32	10YR 5/3	BR	SI LO	NCM
22-1.3	2	32-42	7.5YR 6/4	LT BR	SI CL LO	NCM
22-1.4	1	0-28	10YR 5/3	BR	SI LO	NCM
22-1.4	2	28-38	7.5YR 6/4	LT BR	SI CL LO	NCM
22-1.5	1	0-32	10YR 5/3	BR	SI LO	NCM
22-1.5	2	32-42	7.5YR 6/4	LT BR	SI CL LO	NCM
22-1.6	1	0-34	10YR 5/3	BR	SI LO	NCM
22-1.6	2	34-44	7.5YR 6/4	LT BR	SI CL LO	NCM
22-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
22-1.7	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
22-1.8	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
22-1.8	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
22-1.9	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
22-1.9	2	34-44	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
22-1.10	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
22-1.10	2	40-50	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
22-1.11	1	0-37	10YR 4/2	DK GR BR	SI LO	NCM
22-1.11	2	37-47	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
22-1.12	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
22-1.12	2	38-48	10YR 6/8	BR YL	SA CL LO	NCM
22-1.13	1	0-41	10YR 4/2	DK GR BR	SI LO	NCM
22-1.13	2	41-51	7.5YR 5/2	BR	SA CL LO	NCM
22-1.14	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
22-1.14	2	36-46	10YR 6/8	BR YL	SA CL LO	NCM
22-1.15	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
22-1.15	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
22-1.16	1	0-43	10YR 4/2	DK GR BR	SI LO	NCM
22-1.16	2	43-53	7.5YR 5/4	BR	SA CL LO	NCM
22-1.17	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
22-1.17	2	33-43	7.5YR 5/4	BR	SA CL LO	NCM
22-1.18	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
22-1.18	2	38-48	7.5YR 5/4	BR	SA CL LO	NCM
22-1.19	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
22-1.19	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
22-1.20	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
22-1.20	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
22-1.21	1	0-37	10YR 4/2	DK GR BR	SI LO	NCM
22-1.21	2	37-47	7.5YR 5/4	BR	SA CL LO	NCM
22-1.22	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
22-1.22	2	35-45	7.5YR 5/4	BR	SA CL LO	NCM
22-1.23	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
22-1.23	2	32-42	10YR 6/3	PALE BR	SA CL LO	NCM
22-1.24	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
22-1.24	2	30-40	10YR 6/3	PALE BR	SA CL LO	NCM
22-1.25	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
22-1.25	2	34-44	10YR 6/3	PALE BR	SA CL LO	NCM
22-1.26	1	0-36	10YR 5/3	BR	SI LO	NCM
22-1.26	2	36-46	10YR 6/2	LT BR GR	SA CL LO	NCM
22-1.27	1	0-33	10YR 5/3	BR	SI LO	NCM
22-1.27	2	33-43	10YR 6/4	LT YL BR	SA LO	NCM
22-1.28	1	0-28	10YR 5/3	BR	SI LO	NCM
22-1.28	2	28-38	10YR 6/4	LT YL BR	SA LO	NCM
22-1.29	1	0-27	10YR 5/3	BR	SA LO	NCM; gravel
22-1.29	2	27-37	10YR 5/6	YL BR	SA LO	NCM; gravel
22-1.30	1	0-32	10YR 5/3	BR	SA LO	NCM; gravel
22-1.30	2	32-42	10YR 5/6	YL BR	SA LO	NCM; gravel
22-1.31	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel
22-1.31	2	30-40	10YR 6/1	GR	SA	NCM; gravel
22-1.32	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel
22-1.32	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-1.33	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel
22-1.33	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-1.34	1	0-31	10YR 5/3	BR	SA LO	NCM; gravel
22-1.34	2	31-41	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-1.35	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel; rock impasse at 30cm
22-1.36	1	0-20	10YR 4/3	BR	SA LO	NCM; gravel; rock impasse at 20cm
22-1.37	1	0-30	10YR 4/3	BR	SA LO	NCM
22-1.37	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-1.38	1	0-26	10YR 4/3	BR	SA LO	NCM; gravel
22-1.38	2	26-36	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-1.39	1	0-29	10YR 4/3	BR	SA LO	NCM; gravel
22-1.39	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM; gravel
22-2.1	1	0-25	10YR 4/3	BR	SA LO	NCM; gravel; rock impasse at 25cm
22-3.1	1	0-31	10YR 5/3	BR	SA LO	NCM; gravel
22-3.1	2	31-41	10YR 6/1	GR	SA LO	NCM; gravel
22-3.2	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel
22-3.2	2	30-40	10YR 6/1	GR	SA LO	NCM; gravel
22-3.3	1	0-30	10YR 5/3	BR	SA LO	NCM; gravel
22-3.3	2	30-40	10YR 6/1	GR	SA LO	NCM; gravel

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
22-3.4	1	0-33	10YR 5/3	BR	SA LO	NCM; gravel
22-3.4	2	33-43	10YR 6/1	GR	SA LO	NCM; gravel
22-3.5	1	0-32	10YR 5/3	BR	SA LO	NCM; gravel
22-3.5	2	32-42	10YR 6/1	GR	SA LO	NCM; gravel
22-3.6	1	0-31	10YR 5/3	BR	SA LO	NCM; gravel
22-3.6	2	31-41	10YR 6/1	GR	SA LO	NCM; gravel
22-3.7	1	0-33	10YR 5/3	BR	SA LO	NCM; gravel
22-3.7	2	33-43	10YR 6/1	GR	SA LO	NCM; gravel
22-3.8	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM; gravel
22-3.8	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA LO	NCM; gravel
22-4.1	1	0-32	10YR 5/3	BR	SI LO	NCM
22-4.1	2	32-42	10YR 6/4	LT YL BR	SI LO	NCM
22-4.2	1	0-33	10YR 5/3	BR	SI LO	NCM
22-4.2	2	33-43	10YR 6/4	LT YL BR	SI LO	NCM
22-4.3	1	0-33	10YR 4/3	BR	SI LO	NCM
22-4.3	2	33-43	7.5YR 5/4	BR	SI LO	NCM
22-4.4	1	0-29	10YR 4/3	BR	SI LO	NCM
22-4.4	2	29-39	7.5YR 5/4	BR	SI LO	NCM
22-4.5	1	0-36	10YR 4/3	BR	SI LO	NCM
22-4.5	2	36-46	7.5YR 5/4	BR	SI LO	NCM
22-4.6	1	0-25	10YR 4/3	BR	SI LO	NCM
22-4.6	2	25-35	7.5YR 5/4	BR	SI LO	NCM
22-4.7	1	0-31	10YR 4/3	BR	SI LO	NCM
22-4.7	2	31-41	7.5YR 5/4	BR	SI LO	NCM
24-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
24-1.1	2	28-38	10YR 5/6	YL BR	SA LO	NCM
24-1.2	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
24-1.2	2	30-40	10YR 5/4	YL BR	SA LO	NCM
24-1.3	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
24-1.3	2	30-40	10YR 5/4	YL BR	SA LO	NCM
24-1.4	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
24-1.4	2	27-37	10YR 5/4	YL BR	SA LO	NCM
24-1.5	1	0-25	10YR 3/2	V DK GR BR	SI LO	NCM
24-1.5	2	25-35	10YR 5/4	YL BR	SA LO	NCM
29-1.1	1	0-16	10YR 4/2	DK GR BR	SI CL	NCM
29-1.1	2	16-26	10YR 6/4	LT YL BR	SA CL	NCM
29-1.2	1	0-12	10YR 4/2	DK GR BR	SI CL	NCM
29-1.2	2	12-20	10YR 6/4	LT YL BR	SA CL	NCM; rock impasse at 20cm
29-1.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
29-1.3	2	33-43	10YR 5/4	YL BR	SA LO	NCM
29-1.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
29-1.4	2	30-40	10YR 5/4	YL BR	SA LO	NCM
29-1.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
29-1.5	2	26-36	10YR 6/4	LT YL BR	SA LO	NCM
31-1.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
31-1.1	2	30-40	10YR 5/6	YL BR	SI CL	NCM
31-1.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
31-1.2	2	29-39	10YR 5/6	YL BR	SI CL	NCM
31-1.3	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
31-1.3	2	24-34	10YR 5/6	YL BR	LO SA	NCM
31-1.4	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
31-1.4	2	20-30	10YR 5/6	YL BR	LO SA	NCM
31-1.5	1	0-31	10YR 5/3	BR	SI LO	NCM
31-1.5	2	31-41	10YR 5/6	YL BR	LO SA	NCM
31-1.6	1	0-31	10YR 5/3	BR	SI LO	NCM
31-1.6	2	31-41	10YR 5/6	YL BR	LO SA	NCM
31-1.7	1	0-28	10YR 4/2	BR	SI LO	NCM
31-1.7	2	28-38	10YR 5/6	YL BR	SA CL	NCM
31-1.8	1	0-28	10YR 4/2	BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
31-1.8	2	28-38	10YR 5/6	YL BR	SA CL	NCM
31-2.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
31-2.1	2	29-40	10YR 6/6	BR YL	SA CL LO	NCM
31-2.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
31-2.2	2	28-38	10YR 6/6	BR YL	SA CL LO	NCM
31-2.3	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
31-2.3	2	44-54	10YR 6/6	BR YL	SA CL LO	NCM
31-3.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
31-3.1	2	28-38	10YR 5/3	BR	SI LO	NCM
31-3.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
31-3.2	2	28-38	10YR 5/3	BR	SI LO	NCM
31-3.3	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
31-3.3	2	25-35	10YR 5/3	BR	SI LO	NCM
31-3.4	1	0-14	10YR 4/2	DK GR BR	SI LO	NCM
31-3.4	2	14-25	10YR 5/3	BR	SI LO	NCM
31-3.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
31-3.5	2	30-40	10YR 5/3	BR	SI LO	NCM
31-3.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
31-3.6	2	28-38	10YR 6/4	LT YL BR	SA LO	NCM
31-3.7	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
31-3.7	2	24-34	10YR 6/4	LT YL BR	SA LO	NCM
31-3.8	1	0-15	10YR 4/2	DK GR BR	SI LO	NCM
31-3.8	2	15-30	10YR 6/4	LT YL BR	SA LO	NCM
31-3.9	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
31-3.9	2	22-32	10YR 6/4	LT YL BR	SA LO	NCM
31-3.10	1	0-20	10YR 4/2	DK GR BR	SI LO	ceramic; window glass; brick fragments; rock impasse at 20cm
31-3.11	1	0-10	10YR 4/2	DK GR BR	SI LO	NCM
31-3.11	2	10-23	10YR 5/3	BR	SA LO	NCM
32-1.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
32-1.1	2	26-36	10YR 5/6	YL BR	SA LO	NCM
32-1.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
32-1.2	2	28-38	10YR 5/6	YL BR	SA LO	NCM
32-1.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
32-1.3	2	27-37	10YR 5/6	YL BR	SA LO	NCM
32-1.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-1.4	2	29-39	10YR 5/6	YL BR	SA LO	NCM
32-1.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-1.5	2	30-40	10YR 5/6	YL BR	SA LO	NCM
32-1.6	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
32-1.6	2	33-43	10YR 5/6	YL BR	SA LO	NCM
32-1.6A	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
32-1.6A	2	32-42	10YR 5/6	YL BR	SA LO	NCM
32-1.7	1	0-18	10YR 4/2	DK GR BR	SI LO	NCM
32-1.7	2	18-28	7.5YR 5/6	STRONG BR	SI CL LO	NCM
32-1.8	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
32-1.8	2	25-35	7.5YR 5/6	STRONG BR	SI CL LO	NCM
32-1.9	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-1.9	2	30-40	7.5YR 5/6	STRONG BR	SI CL LO	NCM
32-1.10	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-1.10	2	31-41	7.5YR 5/6	STRONG BR	SI CL LO	NCM
32-1.11	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
32-1.11	2	33-43	10YR 5/6	YL BR	SI CL LO	NCM
32-1.12	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-1.12	2	31-41	10YR 5/6	YL BR	SI CL LO	NCM
32-2.1	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
32-2.1	2	35-45	10YR 5/6	YL BR	SI CL LO	NCM
32-2.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-2.2	2	31-41	10YR 5/6	YL BR	SI CL LO	NCM
32-2.3	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
32-2.3	2	25-35	10YR 5/6	YL BR	SI CL LO	NCM
32-3.1	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
32-3.1	2	25-35	10YR 5/4	YL BR	SA CL	NCM
32-3.2	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
32-3.2	2	27-37	10YR 5/4	YL BR	SA CL	NCM
32-3.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
32-3.3	2	32-42	10YR 5/4	YL BR	SA CL	NCM
32-3.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-3.4	2	29-39	10YR 5/4	YL BR	SA CL	NCM
32-3.5	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
32-3.5	2	34-44	10YR 5/6	YL BR	SA CL	NCM
32-3.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-3.6	2	29-39	10YR 5/6	YL BR	SA CL	NCM
32-3.7	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
32-3.7	2	36-46	10YR 5/6	YL BR	SA CL	NCM
32-3.8	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-3.8	2	29-39	10YR 5/6	YL BR	SI CL LO	NCM
32-3.9	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-3.9	2	30-40	10YR 5/6	YL BR	SI CL LO	NCM
32-3.10	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-3.10	2	31-41	10YR 5/6	YL BR	SI CL LO	NCM
32-3.11	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
32-3.11	2	24-34	10YR 5/6	YL BR	SI CL LO	NCM
32-3.12	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
32-3.12	2	28-38	10YR 5/6	YL BR	SI CL LO	NCM
32-3.13	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-3.13	2	31-41	10YR 6/4	LT YL BR	SA CL LO	NCM
32-3.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-3.14	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
32-3.15	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
32-3.15	2	31-41	10YR 5/6	YL BR	SA CL LO	NCM
32-3.16	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
32-3.16	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
32-3.17	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
32-3.17	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
32-3.18	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
32-3.18	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
32-3.19	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
32-3.19	2	36-46	10YR 5/6	YL BR	SA CL LO	NCM
32-3.20	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-3.20	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
32-3.21	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
32-3.21	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
32-3.22	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
32-3.22	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM
32-3.23	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
32-3.23	2	31-41	10YR 5/6	YL BR	SA LO	NCM
32-3.24	1	0-20	10YR 4/2	DK GR BR	SA LO	NCM
32-3.24	2	20-30	10YR 5/6	YL BR	SA LO	NCM
32-3.25	1	0-15	10YR 4/2	DK GR BR	SA LO	NCM
32-3.25	2	15-25	10YR 5/6	YL BR	SA LO	NCM
32-4.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-4.1	2	30-40	10YR 6/4	LT YL BR	SI CL	NCM
32-4.2	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
32-4.2	2	26-36	10YR 6/4	LT YL BR	SI CL	NCM
32-4.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
32-4.3	2	28-38	10YR 6/4	LT YL BR	SI CL	NCM
32-4.4	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
32-4.4	2	26-36	10YR 6/4	LT YL BR	SI CL	NCM
32-4.5	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
32-4.5	2	31-41	10YR 6/4	LT YL BR	SI CL	NCM
32-4.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
32-4.6	2	30-40	10YR 6/6	BR YL	SI CL LO	NCM
32-4.7	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-4.7	2	29-39	10YR 6/6	BR YL	SI CL LO	NCM
32-4.8	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
32-4.8	2	35-45	10YR 5/4	YL BR	SA CL LO	NCM
32-4.9	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
32-4.9	2	33-43	10YR 5/4	YL BR	SA CL LO	NCM
32-4.10	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
32-4.10	2	38-48	10YR 5/4	YL BR	SA CL LO	NCM
32-4.11	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
32-4.11	2	32-42	10YR 6/6	BR YL	SA CL LO	NCM
32-4.12	1	0-14	10YR 4/2	DK GR BR	SA LO	NCM
32-4.12	2	14-24	10YR 5/4	YL BR	SA LO	NCM
32-4.13	1	0-20	10YR 3/2	V DK GR BR	SA LO	NCM; root impasse at 20cm
32-4.14	1	0-29	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.14	2	29-39	10YR 6/2	LT BR GR	SA	NCM
32-4.15	1	0-27	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.15	2	27-37	10YR 6/4	LT YL BR	SA CL	NCM
32-4.16	1	0-25	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.16	2	25-35	10YR 6/4	LT YL BR	SA CL	NCM
32-4.17	1	0-26	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.17	2	26-36	10YR 6/4	LT YL BR	SA CL	NCM
32-4.18	1	0-29	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.18	2	29-39	10YR 6/4	LT YL BR	SA CL	NCM
32-4.19	1	0-28	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.19	2	28-38	10YR 6/4	LT YL BR	SA CL	NCM
32-4.20	1	0-19	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.20	2	19-29	10YR 6/4	LT YL BR	SA CL	NCM
32-4.21	1	0-15	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.21	2	15-25	10YR 6/4	LT YL BR	SA CL	NCM
32-4.22	1	0-26	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.22	2	26-36	10YR 6/4	LT YL BR	SA CL LO	NCM
32-4.23	1	0-18	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.23	2	18-28	10YR 6/4	LT YL BR	SA CL LO	NCM
32-4.24	1	0-26	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.24	2	26-36	10YR 6/4	LT YL BR	SA CL LO	NCM
32-4.25	1	0-21	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.25	2	21-31	10YR 5/6	YL BR	SA CL LO	NCM
32-4.26	1	0-12	10YR 3/2	V DK GR BR	SA LO	NCM
32-4.26	2	12-20	10YR 5/6	YL BR	SA CL LO	NCM; root impasse at 20cm
32-4.27	1	0-16	10YR 4/2	DK GR BR	SA LO	NCM
32-4.27	2	16-26	10YR 5/6	YL BR	SA CL LO	NCM
32-4.28	1	0-20	10YR 4/2	DK GR BR	SA LO	NCM
32-4.28	2	20-30	10YR 6/4	LT YL BR	SA CL	NCM
32-4.29	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
32-4.29	2	24-34	10YR 5/6	YL BR	SA CL	NCM
32-4.30	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
32-4.30	2	25-35	10YR 5/6	YL BR	SA CL	NCM
32-4.31	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
32-4.31	2	29-39	10YR 5/6	YL BR	SA CL	NCM
32-4.32	1	0-25	10YR 3/2	DK GR BR	SI LO	NCM
32-4.32	2	25-35	10YR 5/6	YL BR	SA CL	NCM
33-1.1	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
33-1.1	2	36-46	10YR 5/4	YL BR	SA LO	NCM
33-1.2	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
33-1.2	2	32-42	10YR 5/4	YL BR	SA LO	NCM
33-1.3	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
33-1.3	2	31-41	10YR 5/4	YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
33-1.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
33-1.4	2	33-43	10YR 5/4	YL BR	SA LO	NCM
33-1.5	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
33-1.5	2	34-44	10YR 5/6	YL BR	SA LO	NCM
33-1.6	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
33-1.6	2	27-37	10YR 5/6	YL BR	SA LO	NCM
33-1.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-1.7	2	30-40	10YR 5/6	YL BR	SA LO	NCM
33-1.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-1.8	2	30-40	10YR 5/6	YL BR	SA LO	NCM
33-1.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
33-1.9	2	32-42	10YR 5/6	YL BR	SA LO	NCM
33-1.10	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
33-1.10	2	33-43	10YR 5/6	YL BR	SA LO	NCM
33-2.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
33-2.1	2	29-39	10YR 5/6	YL BR	SA LO	NCM
33-2.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-2.2	2	30-40	10YR 5/6	YL BR	SA LO	NCM
33-2.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
33-2.3	2	28-38	10YR 5/6	YL BR	SA LO	NCM
33-2.4	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
33-2.4	2	25-35	10YR 5/6	YL BR	SA LO	NCM
33-2.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
33-2.5	2	28-38	10YR 5/6	YL BR	SA LO	NCM
33-3.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
33-3.1	2	32-42	10YR 5/4	YL BR	SA LO	NCM
33-3.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
33-3.2	2	29-39	10YR 5/4	YL BR	SA LO	NCM
33-3.3	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
33-3.3	2	31-41	10YR 5/4	YL BR	SA LO	NCM
33-3.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
33-3.4	2	32-42	10YR 5/4	YL BR	SA LO	NCM
33-3.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-3.5	2	30-40	10YR 5/4	YL BR	SA LO	NCM
33-3.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-3.6	2	30-40	10YR 5/4	YL BR	SA LO	NCM
33-3.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
33-3.7	2	27-37	10YR 5/4	YL BR	SA LO	NCM
33-3.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-3.8	2	30-40	10YR 5/4	YL BR	SA LO	NCM
33-4.1	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
33-4.1	2	27-37	7.5YR 5/4	BR	SI LO	NCM
33-4.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-4.2	2	30-40	10YR 5/4	YL BR	SI LO	NCM
33-4.3	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
33-4.3	2	34-44	10YR 5/4	YL BR	SI LO	NCM
33-4.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
33-4.4	2	30-40	7.5YR 5/4	BR	SI LO	NCM
34-1.1	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
34-1.1	2	24-34	7.5YR 5/4	BR	SA CL LO	NCM
34-1.2	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
34-1.2	2	25-35	7.5YR 5/4	BR	SA CL LO	NCM
34-1.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34-1.3	2	33-43	7.5YR 5/4	BR	SA CL LO	NCM
34-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34-1.4	2	32-42	7.5YR 5/4	BR	SA CL LO	NCM
34-1.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
34-1.5	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
34-1.6	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34-1.6	2	34-44	7.5YR 5/4	BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
34-1.7	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34-1.7	2	36-46	7.5YR 5/4	BR	SA CL LO	NCM
34-1.8	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34-1.8	2	34-44	7.5YR 5/4	BR	SA CL LO	NCM
34-1.9	1	0-48	10YR 3/2	V DK GR BR	SI LO	NCM
34-1.9	2	48-58	10YR 5/4	YL BR	SI LO	NCM
34-1.10	1	0-43	10YR 4/3	BR	SA LO	NCM
34-1.10	2	43-53	10YR 5/4	YL BR	SA	NCM
34-1.11	1	0-30	10YR 4/3	BR	SA LO	NCM
34-1.11	2	30-40	10YR 5/4	YL BR	SA	NCM
34-1.12	1	0-43	10YR 4/3	BR	SA LO	NCM
34-1.12	2	43-53	10YR 5/4	YL BR	SA	NCM
34-1.13	1	0-40	10YR 4/3	BR	SA LO	NCM
34-1.13	2	40-50	10YR 5/4	YL BR	SA	NCM
34-1.14	1	0-19	10YR 4/3	BR	SI LO	NCM
34-1.14	2	19-29	10YR 6/6 2.5YR 5/4	BR YL RD BR	CL	NCM
34-1.15	1	0-43	10YR 4/2	DK GR BR	SI LO	NCM
34-1.15	2	43-53	7.5YR 5/4	BR	SA CL LO	NCM
34-1.16	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34-1.16	2	31-41	7.5YR 5/4	BR	SA CL LO	NCM
34-1.17	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34-1.17	2	29-39	7.5YR 5/4	BR	SA CL LO	NCM
34-1.18	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34-1.18	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
34-1.19	1	0-12	10YR 5/3	BR	SI LO	NCM
34-1.19	2	12-22	10YR 6/6 2.5YR 5/4	BR YL RD BR	CL	NCM
34-1.20	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
34-1.20	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM
34-1.21	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34-1.21	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
34-1.22	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34-1.22	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
34-1.23	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34-1.23	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
34-1.24	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34-1.24	2	36-46	7.5YR 5/4	BR	SA CL LO	NCM
34-1.25	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34-1.25	2	31-41	10YR 5/6	YL BR	SA LO	NCM
34-2.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
34-2.1	2	26-36	10YR 5/6	YL BR	SA CL LO	NCM
34-2.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34-2.2	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
34-2.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34-2.3	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
34-2.4	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34-2.4	2	34-44	10YR 5/4	YL BR	SA CL LO	NCM
34-2.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34-2.5	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
34-2.6	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34-2.6	2	34-44	10YR 5/4	YL BR	SA CL LO	NCM
34-2.7	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
34-2.7	2	23-43	10YR 5/4	YL BR	SA CL LO	NCM
34-2.8	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34-2.8	2	36-46	10YR 5/6	YL BR	SA LO	NCM
34-2.9	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34-2.9	2	31-41	10YR 5/6	YL BR	SA LO	NCM
34-2.10	1	0-42	10YR 4/2	DK GR BR	SI LO	NCM
34-2.10	2	42-52	10YR 5/6	YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
34-2.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34-2.11	2	28-38	10YR 5/6	YL BR	SA LO	NCM
34-2.12	1	0-37	10YR 4/2	DK GR BR	SI LO	NCM
34-2.12	2	37-47	10YR 5/4	YL BR	SA CL LO	NCM
34-2.13	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34-2.13	2	34-44	10YR 5/4	YL BR	SA CL LO	NCM
34-2.14	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
34-2.14	2	23-33	10YR 5/6	YL BR	SA CL LO	NCM
34-2.15	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
34-2.15	2	26-36	10YR 6/6 2.5YR 5/4	BR YL RD BR	SA CL LO	NCM
34-2.16	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
34-2.16	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM
34-2.17	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
34-2.17	2	35-45	10YR 5/6	YL BR	SA CL LO	NCM
34-2.18	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34-2.18	2	32-42	10YR 6/6	BR YL	SA CL LO	NCM
34-2.19	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
34-2.19	2	30-40	7.5YR 5/4	BR	SI CL LO	NCM
34-2.20	1	0-35	10YR 3/2	V DK GR BR	SI LO	NCM
34-2.20	2	35-45	10YR 6/6	BR YL	SI CL LO	NCM
34-2.21	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
34-2.21	2	30-40	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA LO	NCM
34-2.22	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34-2.22	2	32-42	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA LO	NCM
34P-1.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34P-1.1	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
34P-1.2	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34P-1.2	2	34-44	10YR 5/4	YL BR	SA CL LO	NCM
34P-1.3	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
34P-1.3	2	35-45	10YR 5/4	YL BR	SA CL LO	NCM
34P-1.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-1.4	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
34P-2.1	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
34P-2.1	2	35-38	10YR 5/4	YL BR	SI LO	NCM; rock impasse at 38cm
34P-2.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34P-2.2	2	31-41	10YR 5/4	YL BR	SI LO	NCM
34P-2.3	1	0-28	10YR 3/3	DK BR	SI LO	NCM
34P-2.3	2	28-38	10YR 6/2	LT BR GR	SA	NCM
34P-2.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34P-2.4	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
34P-3-1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-3-1	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
34P-3-2	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
34P-3-2	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
34P-3-3	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34P-3-3	2	36-46	10YR 5/4	YL BR	SA CL LO	NCM
34P-3-4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM; gravel; rock impasse at 29cm
34P-4.1	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
34P-4.1	2	38-48	10YR 5/4	YL BR	SA LO	NCM
34P-4.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-4.2	2	28-38	10YR 5/3	BR	SA LO	NCM
34P-4.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-4.3	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM
34P-4.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-4.4	2	32-42	10YR 5/4	YL BR	SI LO	NCM; gravel
34P-4.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
34P-4.5	2	26-36	10YR 5/6	YL BR	SI CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
34P-5.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34P-5.1	2	29-39	10YR 5/6	YL BR	SA LO	NCM
34P-5.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-5.2	2	28-38	10YR 5/6	YL BR	SA LO	NCM
34P-5.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
34P-5.3	2	27-37	10YR 5/6	YL BR	SA LO	NCM
34P-5.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-5.4	2	30-40	10YR 5/6	YL BR	SA LO	NCM
34P-5.5	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34P-5.5	2	31-41	10YR 5/6	YL BR	SA LO	NCM
34P-6.1	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
34P-6.1	2	25-35	10YR 5/6	YL BR	SA CL	NCM
34P-6.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
34P-6.2	2	31-41	10YR 5/6	YL BR	SA CL	NCM
34P-6.3	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
34P-6.3	2	26-36	10YR 5/6	YL BR	SA CL	NCM
34P-6.4	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
34P-6.4	2	27-37	10YR 5/6	YL BR	SA CL	NCM
34P-6.5	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34P-6.5	2	36-46	10YR 5/6	YL BR	SA CL	NCM
34P-7.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-7.1	2	32-42	10YR 5/6	YL BR	SA LO	NCM
34P-7.2	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34P-7.2	2	34-44	10YR 5/6	YL BR	SA LO	NCM
34P-7.3	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
34P-7.3	2	34-44	10YR 5/6	YL BR	SA LO	NCM
34P-7.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34P-7.4	2	33-43	10YR 5/6	YL BR	SA LO	NCM
34P-7.5	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34P-7.5	2	29-39	10YR 5/6	YL BR	SA LO	NCM
34P-8.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-8.1	2	32-42	10YR 5/6	YL BR	SA LO	NCM
34P-8.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-8.2	2	30-40	10YR 5/6	YL BR	SA LO	NCM
34P-8.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-8.3	2	32-42	10YR 5/6	YL BR	SA LO	NCM
34P-8.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-8.4	2	30-40	10YR 5/6	YL BR	SA LO	NCM
34P-8.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-8.5	2	28-38	10YR 5/6	YL BR	SA LO	NCM
34P-9.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-9.1	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
34P-9.2	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-9.2	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
34P-9.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34P-9.3	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
34P-9.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-9.4	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
34P-9.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-9.5	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
34P-10.1	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34P-10.1	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
34P-10.2	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34P-10.2	2	36-46	10YR 5/6	YL BR	SA CL LO	NCM
34P-10.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
34P-10.3	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
34P-10.4	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
34P-10.4	2	35-45	10YR 5/6	YL BR	SA CL LO	NCM
34P-10.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-10.5	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
34P-11.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
34P-11.1	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
34P-11.2	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
34P-11.2	2	36-46	10YR 5/4	YL BR	SA CL LO	NCM
34P-11.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
34P-11.3	2	32-42	10YR 5/4	YL BR	SA CL LO	NCM
34P-11.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34P-11.4	2	33-43	10YR 5/4	YL BR	SA CL LO	NCM
34P-12.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
34P-12.1	2	29-39	10YR 6/3	PALE BR	SA CL LO	NCM
34P-12.2	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
34P-12.2	2	25-35	10YR 5/4	YL BR	SA CL LO	NCM
34P-12.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
34P-12.3	2	33-43	10YR 5/4	YL BR	SA CL LO	NCM
34P-13.1	1	0-23	10YR 4/3	BR	SI LO	NCM
34P-13.1	2	23-33	10YR 5/4	YL BR	SA CL LO	NCM
34P-13.2	1	0-26	10YR 4/3	BR	SI LO	NCM
34P-13.2	2	26-36	10YR 5/4	YL BR	SA CL LO	NCM
35-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-1.1	2	28-38	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
35-1.2	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
35-1.2	2	31-41	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
35-1.3	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
35-1.3	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
35-1.4	1	0-37	10YR 4/2	DK GR BR	SI LO	NCM
35-1.4	2	37-47	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
35-1.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
35-1.5	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
35-2.1	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
35-2.1	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
35-2.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-2.2	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
35-2.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-2.3	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
35-2.4	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
35-2.4	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
35-3.1	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
35-3.1	2	32-42	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.2	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM; gravel
35-3.2	2	40-50	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.3	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM; gravel; 1 piece bottle glass (not collected)
35-3.3	2	38-48	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM; gravel
35-3.4	2	29-39	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM; gravel
35-3.5	2	27-37	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.6	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM; gravel; rock impasse at 27cm
35-3.7	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM; gravel
35-3.7	2	34-44	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.8	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
35-3.8	2	33-43	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-3.9	2	28-38	10YR 5/6	YL BR	SA LO	NCM; gravel
35-3.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-3.10	2	28-38	10YR 5/4	YL BR	SA LO	NCM
35-3.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
35-3.11	2	28-38	10YR 5/4	YL BR	SA LO	NCM
35-3.11A	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
35-3.11A	2	24-34	10YR 5/6	YL BR	SA LO	NCM
35-3.11B	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
35-3.11B	2	27-37	10YR 5/6	YL BR	SA LO	NCM
35-3.11C	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-3.11C	2	28-38	7.5YR 5/2	BR	SA CL LO	NCM
35-3.11D	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
35-3.11D	2	26-36	10YR 5/6	YL BR	SA LO	NCM
35-3.12	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
35-3.12	2	26-36	10YR 5/4	YL BR	SA LO	NCM
35-3.13	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
35-3.13	2	30-40	10YR 5/6	YL BR	SA LO	NCM
35-3.14	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
35-3.14	2	28-38	10YR 5/6	YL BR	SA LO	NCM
35-3.15	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
35-3.15	2	30-40	10YR 5/6	YL BR	SA LO	NCM
36-1.1	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-1.1	2	29-39	10YR 5/4	YL BR	SA LO	NCM
36-1.2	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
36-1.2	2	28-38	10YR 5/6	YL BR	SA LO	NCM
36-1.3	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-1.3	2	29-39	10YR 5/6	YL BR	SA LO	NCM
36-1.4	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-1.4	2	29-39	10YR 5/6	YL BR	SA LO	NCM
36-1.5	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-1.5	2	29-39	10YR 5/6	YL BR	SA LO	NCM
36-1.6	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
36-1.6	2	30-40	10YR 5/6	YL BR	SA LO	NCM
36-1.7	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
36-1.7	2	32-42	10YR 5/6	YL BR	SA LO	NCM
36-2.1	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
36-2.1	2	31-41	10YR 5/6	YL BR	SA LO	NCM
36-2.2	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
36-2.2	2	30-40	10YR 5/6	YL BR	SA LO	NCM
36-2.3	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-2.3	2	29-39	10YR 5/6	YL BR	SA LO	NCM
36-2.4	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
36-2.4	2	29-39	10YR 5/6	YL BR	SA LO	NCM
41-1.1	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
41-1.1	2	36-46	10YR 5/4	YL BR	SA LO	NCM
41-1.2	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
41-1.2	2	32-42	10YR 5/4	YL BR	SA LO	NCM
41-1.3	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
41-1.3	2	26-36	10YR 5/4	YL BR	SA LO	NCM
41-1.4	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.4	2	27-37	10YR 5/4	YL BR	SA LO	NCM
41-1.5	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.5	2	32-42	10YR 5/4	YL BR	SA LO	NCM
41-1.6	1	0-42	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.6	2	42-52	10YR 5/4	YL BR	SA LO	NCM
41-1.7	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.7	2	38-48	10YR 5/4	YL BR	SA LO	NCM
41-1.8	1	0-35	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.8	2	35-45	10YR 5/4	YL BR	SA LO	NCM
41-1.9	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.9	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
41-1.10	1	0-39	10YR 3/2	V DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
41-1.10	2	39-49	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
41-1.11	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.11	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
41-1.12	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.12	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
41-1.13	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
41-1.13	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
41-1.14	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
41-1.14	2	33-43	10YR 5/6	YL BR	SA LO	NCM
41-1.15	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
41-1.15	2	36-46	10YR 5/6	YL BR	SA LO	NCM
41-1.16	1	0-42	10YR 4/2	DK GR BR	SI LO	NCM
41-1.16	2	42-52	10YR 5/6	YL BR	SA LO	NCM
41-1.17	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
41-1.17	2	33-43	10YR 5/6	YL BR	SA LO	NCM
41-1.18	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
41-1.18	2	35-45	10YR 5/6	YL BR	SA LO	NCM
41-1.19	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
41-1.19	2	30-40	10YR 5/6	YL BR	SA LO	NCM
41-1.20	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
41-1.20	2	32-42	10YR 6/8 10YR 6/6	BR YL	SA LO	NCM
41-2.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
41-2.1	2	30-40	10YR 5/6	YL BR	SA LO	NCM
41-2.2	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
41-2.2	2	27-37	10YR 5/6	YL BR	SA LO	NCM
41-2.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
41-2.3	2	30-40	10YR 5/6	YL BR	SA LO	NCM
41-2.4	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
41-2.4	2	31-41	10YR 5/4	YL BR	SA LO	NCM
41-2.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
41-2.5	2	30-40	10YR 5/4	YL BR	SA LO	NCM
41-2.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
41-2.6	2	32-42	10YR 5/4	YL BR	SA LO	NCM
41-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
41-2.7	2	30-40	10YR 5/4	YL BR	SA LO	NCM
41-2.8	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
41-2.8	2	27-37	7.5YR 5/4	BR	SA LO	NCM
41-2.9	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
41-2.9	2	29-39	7.5YR 5/4	BR	SA LO	NCM
41-2.10	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
41-2.10	2	38-48	7.5YR 5/4	BR	SA LO	NCM
41-2.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
41-2.11	2	28-38	7.5YR 5/4	BR	SA LO	NCM
41-2.12	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
41-2.12	2	35-45	7.5YR 5/4	BR	SA LO	NCM
41-2.13	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
41-2.13	2	29-39	7.5YR 5/4	BR	SA LO	NCM
44-1.1	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
44-1.1	2	29-39	10YR 5/4	YL BR	SA LO	NCM
44-1.2	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
44-1.2	2	24-34	10YR 5/4	YL BR	SA LO	NCM
44-1.3	1	0-23	10YR 5/3	BR	SI LO	NCM
44-1.3	2	23-33	10YR 5/6	YL BR	SA LO	NCM
44-1.4	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
44-1.4	2	26-36	10YR 5/4	YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
44-1.5	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
44-1.5	2	34-44	10YR 5/4	YL BR	SA LO	NCM
44-1.6	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
44-1.6	2	24-34	10YR 5/4	YL BR	SA LO	NCM
44-1.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
44-1.7	2	28-38	10YR 5/4	YL BR	SA LO	NCM
44-2.1	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
44-2.1	2	40-50	10YR 5/4	YL BR	SA LO	NCM
44-2.2	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
44-2.2	2	36-46	10YR 5/6	YL BR	SA LO	NCM
44-2.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
44-2.3	2	32-42	10YR 5/6	YL BR	SA LO	NCM
44-2.4	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
44-2.4	2	36-46	10YR 5/6	YL BR	SA LO	NCM
44-3.1	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
44-3.1	2	31-41	10YR 5/4	YL BR	SA LO	NCM
44-3.2	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
44-3.2	2	33-43	10YR 5/4	YL BR	SA LO	NCM
44-3.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
44-3.3	2	29-39	10YR 5/6	YL BR	SA LO	NCM
44-3.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
44-3.4	2	32-42	10YR 5/6	YL BR	SA LO	NCM
44-3.5	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
44-3.5	2	31-41	10YR 5/6	YL BR	SA LO	NCM
45-1.1	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
45-1.1	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
45-1.2	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
45-1.2	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
45-1.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
45-1.3	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
45-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
45-1.4	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
45-1.5	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
45-1.5	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
45-1.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
45-1.6	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
45-1.7	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
45-1.7	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
45-2.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
45-2.1	2	30-40	10YR 5/4	YL BR	SA LO	NCM
45-2.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
45-2.2	2	29-39	10YR 5/4	YL BR	SA LO	NCM
45-2.3	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
45-2.3	2	44-54	10YR 5/6	YL BR	SI CL LO	NCM
45-2.4	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
45-2.4	2	34-44	10YR 5/6	YL BR	SI CL LO	NCM
45-2.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
45-2.5	2	28-38	10YR 5/6	YL BR	SI CL LO	NCM
45-2.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
45-2.6	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
45-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
45-2.7	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
45-2.8	1	0-33	10YR 5/2	GR BR	SI LO	NCM
45-2.8	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.9	1	0-30	10YR 5/2	GR BR	SI LO	NCM
45-2.9	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.10	1	0-32	10YR 5/2	GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
45-2.10	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.11	1	0-36	10YR 5/2	GR BR	SI LO	NCM
45-2.11	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.12	1	0-33	10YR 5/2	GR BR	SI LO	NCM
45-2.12	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.13	1	0-32	10YR 5/2	GR BR	SI LO	NCM
45-2.13	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.14	1	0-31	10YR 5/2	GR BR	SI LO	NCM
45-2.14	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
45-2.15	1	0-33	10YR 5/2	GR BR	SI LO	NCM
45-2.15	2	33-43	10YR 5/6	YL BR	SI CL	NCM
45-2.16	1	0-30	10YR 5/2	GR BR	SI LO	NCM
45-2.16	2	30-40	10YR 5/6	YL BR	SI CL	NCM
45-2.17	1	0-24	10YR 5/2	GR BR	SI LO	NCM
45-2.17	2	24-34	10YR 5/6	YL BR	SI CL	NCM
47-1.1	1	0-36	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.1	2	36-46	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.2	1	0-35	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.2	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.3	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.3	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.4	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.4	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.5	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.5	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.6	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.6	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.7	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.7	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.8	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.8	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.9	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.9	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.10	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.10	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.11	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.11	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.12	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.12	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.13	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.13	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.14	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
47-1.14	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.15	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.15	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.16	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.16	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.17	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.17	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
47-1.18	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
47-1.18	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
48-1.1	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
48-1.1	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
48-1.2	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
48-1.2	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-1.1	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.1	2	26-36	7.5YR 5/4	BR	SI CL	NCM
49-1.2	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.2	2	33-43	7.5YR 5/4	BR	SI CL	NCM
49-1.3	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.3	2	30-40	7.5YR 5/4	BR	SI CL	NCM
49-1.4	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.4	2	28-38	7.5YR 5/4	BR	SI CL	NCM
49-1.5	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.5	2	30-40	10YR 5/4	YL BR	SI CL	NCM
49-1.6	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.6	2	30-40	10YR 5/4	YL BR	SI CL	NCM
49-1.7	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
49-1.7	2	31-41	10YR 5/4	YL BR	SI CL	NCM
49-1.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
49-1.8	2	28-38	10YR 5/4	YL BR	SI CL	NCM
49-1.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
49-1.9	2	28-38	10YR 5/4	YL BR	SI CL	NCM
49-1.10	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
49-1.10	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-1.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
49-1.11	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.1	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.1	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI LO	NCM
49-2.2	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.2	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.3	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.3	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-2.4	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.4	2	31-41	10YR 6/2 10YR 5/8	LT BR GR YL BR	SI CL	NCM
49-2.5	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.5	2	28-38	10YR 6/2 10YR 5/8	LT BR GR YL BR	SI CL	NCM
49-2.6	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6	2	33-43	10YR 6/2 10YR 5/8	LT BR GR YL BR	SI CL	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
49-2.6A	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6A	2	32-42	10YR 6/2 10YR 5/8	LT BR GR YL BR	SI CL	NCM
49-2.6B	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6B	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.6C	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6C	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.6D	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6D	2	27-37	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.6E	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.6E	2	34-44	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.7	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.7	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.8	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.8	2	34-44	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.9	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.9	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.10	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.10	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.11	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.11	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.12	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.12	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.13	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.13	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.14	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.14	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.15	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.15	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.16	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.16	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-2.17	1	0-36	10YR 3/2	V DK GR BR	SI LO	NCM
49-2.17	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
49-3.1	1	0-29	10YR 3/1	V DK GR	SI LO	NCM
49-3.1	2	29-39	10YR 5/4	YL BR	SI CL	NCM
49-3.2	1	0-30	10YR 3/1	V DK GR	SI LO	NCM
49-3.2	2	30-40	10YR 5/4	YL BR	SI CL	NCM
49-3.3	1	0-32	10YR 3/1	V DK GR	SI LO	NCM
49-3.3	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-3.4	1	0-28	10YR 3/1	V DK GR	SI LO	NCM
49-3.4	2	28-38	10YR 5/4	YL BR	SI CL	NCM
49-3.5	1	0-38	10YR 3/1	V DK GR	SI LO	NCM
49-3.5	2	38-48	10YR 5/4	YL BR	SI CL	NCM
49-3.6	1	0-34	10YR 3/1	V DK GR	SI LO	NCM
49-3.6	2	34-44	10YR 5/4	YL BR	SI CL	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
49-3.7	1	0-32	10YR 3/1	V DK GR	SI LO	NCM
49-3.7	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-3.8	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.8	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-3.9	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.9	2	38-48	10YR 5/4	YL BR	SI CL	NCM
49-3.10	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.10	2	33-43	10YR 5/4	YL BR	SI CL	NCM
49-3.11	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.11	2	30-40	10YR 5/4	YL BR	SI CL	NCM
49-3.12	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.12	2	32-42	10YR 5/4	YL BR	SI CL	NCM
49-3.13	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.13	2	38-48	10YR 5/4	YL BR	SI CL	NCM
49-3.14	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
49-3.14	2	33-43	10YR 5/4	YL BR	SI CL	NCM
51-1.1	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
51-1.1	2	38-48	10YR 5/4	YL BR	SA CL	NCM
51-1.2	1	0-40	10YR 3/2	V DK GR BR	SI LO	NCM
51-1.2	2	40-50	7.5YR 5/4 10YR 6/2	BR LT BR GR	SA CL	NCM
51-1.3	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
51-1.3	2	32-42	7.5YR 5/4 10YR 6/2	BR LT BR GR	SA CL	NCM
51-1.4	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
51-1.4	2	34-44	7.5YR 5/4 10YR 6/2	BR LT BR GR	SA CL	NCM
51-2.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
51-2.1	2	30-40	7.5YR 5/4	BR	SA LO	NCM
51-2.2	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
51-2.2	2	35-45	7.5YR 5/4	BR	SA LO	NCM
51-2.3	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
51-2.3	2	44-54	10YR 5/4	YL BR	LO SA	NCM
51-2.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
51-2.4	2	32-42	10YR 5/4	BR	LO SA	NCM
51-2.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
51-2.5	2	32-42	10YR 5/4	BR	LO SA	NCM
51-2.6	1	0-48	10YR 4/2	DK GR BR	SI LO	NCM
51-2.6	2	48-58	10YR 5/2 10YR 5/4	GR BR YL BR	SA LO	NCM
51-2.7	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
51-2.7	2	33-43	10YR 5/2 10YR 5/4	GR BR YL BR	SA LO	NCM
51-2.8	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
51-2.8	2	40-50	10YR 5/2 10YR 5/4	GR BR YL BR	SA LO	NCM
51-2.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
51-2.9	2	32-42	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
51-2.10	2	30-40	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11	2	32-42	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11A	2	30-40	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11B	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
51-2.11B	2	29-39	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11C	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11C	2	28-38	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11D	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11D	2	30-40	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11E	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11E	2	27-37	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.11F	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
51-2.11F	2	32-42	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.12	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
51-2.12	2	31-41	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.13	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
51-2.13	2	28-38	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
51-2.14	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
51-2.14	2	31-41	10YR 5/2 10YR 5/6	GR BR YL BR	SA CL LO	NCM
52-1.1	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
52-1.1	2	31-41	10YR 5/6	YL BR	SA CL LO	NCM
52-1.2	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
52-1.2	2	36-46	10YR 5/6	YL BR	SA CL LO	NCM
52-1.2A	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
52-1.2A	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
52-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-1.3	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
52-1.3A	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
52-1.3A	2	35-45	10YR 5/6	YL BR	SA CL LO	NCM
52-1.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
52-1.4	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
52-1.4A	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
52-1.4A	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
52-1.5	1	0-34	10YR 5/2	GR BR	CL LO	NCM
52-1.5	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
52-1.5A	1	0-38	10YR 4/3	DK GR BR	SI LO	NCM
52-1.5A	2	38-48	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
52-2.1	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
52-2.1	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-2.2	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
52-2.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.3	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
52-2.3A	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
52-2.3A	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
52-2.3B	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
52-2.3B	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
52-2.4	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
52-2.4	2	25-35	10YR 5/6	YL BR	SA CL LO	NCM
52-2.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-2.5	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
52-2.6	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
52-2.6	2	34-44	10YR 5/6	YL BR	SA CL LO	NCM
52-2.7	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
52-2.7	2	35-45	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.8	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.8	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.8A	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-2.8A	2	28-38	10YR 6/3 10YR 5/8	PALE BR YL BR	SI CL	NCM
52-2.9	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
52-2.9	2	38-48	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.9A	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
52-2.9A	2	34-44	10YR 6/3 10YR 5/8	PALE BR YL BR	SI CL	NCM
52-2.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
52-2.10	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.10A	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.10A	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.11	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.11	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
52.2.11A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
52.2.11A	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.12	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
52-2.12	2	36-46	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.12A	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
52-2.12A	2	36-46	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.13	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
52-2.13	2	34-44	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.13A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
52-2.13A	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.13B	1	0-28	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.13B	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
52-2.13C	1	0-28	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.13C	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
52-2.13D	1	0-31	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.13D	2	31-41	10YR 5/6	YL BR	SA CL LO	NCM
52-2.13E	1	0-29	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.13E	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
52-2.13F	1	0-28	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.13F	2	28-28	10YR 5/6	YL BR	SA CL LO	NCM
52-2.13G	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
52-2.13G	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.13H	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.13H	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.13I	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
52-2.13I	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52.2.13J	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
52.2.13J	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52.2.13K	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
52.2.13K	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
52-2.14	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
52-2.14A	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
52-2.14A	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.15	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
52-2.15	2	31-41	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.15A	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
52-2.15A	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.16	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
52-2.16	2	25-35	10YR 6/4	LT YL BR	SA CL LO	NCM
52-2.16A	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
52-2.16A	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.17	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-2.17	2	28-38	10YR 5/3 10YR 5/8	BR YL BR	SI CL	NCM
52-2.17A	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
52-2.17A	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
52-2.18	2	29-39	10YR 5/3 10YR 5/8	BR YL BR	SI CL	NCM
52-2.18A	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
52-2.18A	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.19	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
52-2.19	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.20	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
52-2.20	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
52-2.21	1	0-29	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.21	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
52-2.22	1	0-23	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.22	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
52-2.23	1	0-26	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.23	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
52-2.24	1	0-30	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.24	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
52-2.25	1	0-32	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.25	2	32-42	7.5YR 5/4	BR	CL	NCM
52-2.26	1	0-27	10YR 4/2	DK GR BR	SI CL LO	NCM
52-2.26	2	37-37	7.5YR 5/4	BR	CL	NCM
52-2.27	1	0-40	10YR 4/2	DK GR BR	SA LO	NCM
52-2.27	2	40-50	10YR 6/4	LT YL BR	SA LO	NCM
52-2.28	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
52-2.28	2	31-41	10YR 6/4	LT YL BR	SA LO	NCM
52-2.29	1	0-35	10YR 4/2	DK GR BR	SA LO	NCM
52-2.29	2	35-45	10YR 6/4	LT YL BR	SA LO	NCM
52-2.30	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
52-2.30	2	31-41	10YR 6/4	LT YL BR	SA LO	NCM
53-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.1	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.1A	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-1.1A	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.2	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.2A	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
53-1.2A	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.3	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.3A	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-1.3A	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.4	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
53-1.4A	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
53-1.4A	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.5	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-1.5	2	29-39	10YR 6/3 10YR 6/8	YL BR	SA CL LO	NCM
53-1.5A	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.5A	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
53-1.6	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
53-1.6	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.6A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.6A	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.7	2	32-42	10YR 6/3 10YR 6/8	PALE	SA CL LO	NCM
53-1.7A	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
53-1.7A	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.8	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-1.8A	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-1.8A	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.9	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-1.9A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.9A	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.10	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-1.11	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-1.11	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-1.12	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
53-1.12	2	40-50	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-1.13	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
53-1.13	2	40-50	10YR 5/6	YL BR	SA CL LO	NCM
53-1.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-1.14	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
53-1.15	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.15	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.16	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.17	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-1.17	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.18	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-1.18	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.19	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-1.19	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.19A	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.19A	2	32-42	10YR 5/4	YL BR	SI LO	NCM
53-1.20	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-1.20	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.20A	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.20A	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.21	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-1.21	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.21A	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.21A	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.22	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
53-1.22	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.22A	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.22A	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.23	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.23	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.23A	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.23A	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.24	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.24	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.24A	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
53-1.24A	2	25-35	10YR 5/6	YL BR	SA LO	NCM
53-1.25	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.25	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
53-1.25A	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-1.25A	2	33-43	10YR 5/6	YL BR	SA LO	NCM
53-1.26	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.26	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
53-1.26A	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.26A	2	28-38	10YR 5/6	YL BR	SA LO	NCM
53-1.27	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.27	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
53-1.27A	1	0-27	10YR 4/1	DK GR	SI LO	NCM
53-1.27A	2	27-37	10YR 5/4	YL BR	SA LO	NCM
53-1.28	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-1.28	2	30-40	7.5YR 5/2	BR	SA CL LO	NCM
53-1.28A	1	0-30	10YR 4/1	DK GR	SI LO	NCM
53-1.28A	2	30-40	10YR 6/3 10YR 6/6	PALE BR BR YL	SA CL LO	NCM
53-1.29	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.29	2	32-42	10YR 6/3 7.5YR 5/2	PALE BR BR	SA CL LO	NCM
53-1.29A	1	0-31	10YR 4/1	DK GR	SI LO	NCM
53-1.29A	2	31-41	10YR 6/4	LT YL BR	CL	NCM
53-1.30	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-1.30	2	28-38	10YR 6/3 7.5YR 5/2	PALE BR BR	SA CL LO	NCM
53-1.30A	1	0-30	10YR 4/1	DK GR	SI LO	NCM
53-1.30A	2	30-40	10YR 6/4	LT YL BR	CL	NCM
53-1.31	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-1.31	2	31-41	10YR 5/6	YL BR	SA CL LO	NCM
53-1.32	1	0-29	19YR 4/2	DK GR BR	SI LO	NCM
53-1.32	2	39-39	10YR 5/6	YL BR	SA CL LO	NCM
53-1.33	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-1.33	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
53-1.34	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
53-1.34	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.35	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
53-1.35	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.36	1	0-28	10YR 3/2	V DK GR BR	SI LO	NCM
53-1.36	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.37	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
53-1.37	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-1.38	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
53-1.38	2	35-45	10YR 5/3	BR	SI CL	NCM
53-1.39	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
53-1.39	2	44-54	10YR 5/3	BR	SI CL	NCM
53-1.40	1	0-45	10YR 4/2	DK GR BR	SI LO	NCM
53-1.40	2	45-55	10YR 5/3	BR	SI CL	NCM
53-1.41	1	0-45	10YR 4/2	DK GR BR	SI LO	NCM
53-1.41	2	45-55	10YR 5/3	BR	SI CL	NCM
53-1.42	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.42	2	32-42	10YR 5/3	BR	SI CL	NCM
53-1.43	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-1.43	2	31-41	10YR 5/3	BR	SI CL	NCM
53-1.44	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-1.44	2	32-42	7.5YR 5/2 7.5YR 4/6	BR STRONG BR	SI CL	NCM
53-1.45	1	0-40	10YR 4/2	DK GR BR	SI LO	NCM
53-1.45	2	40-50	10YR 6/4	LT YL BR	SI CL LO	NCM
53-2.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.1	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-2.2	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
53-2.3	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
53-2.3	2	26-36	10YR 5/4	YL BR	SA CL LO	NCM
53-2.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-2.4	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
53-2.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.5	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-2.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.6	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
53-2.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-2.7	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
53-2.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-2.8	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
53-2.9	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.9	2	34-44	10YR 5/4	YL BR	SA CL LO	NCM
53-2.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.10	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
53-2.11	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-2.11	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
53-2.12	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-2.12	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
53-2.13	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-2.13	2	33-43	10YR 6/4	LT YL BR	SA CL LO	NCM
53-2.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.14	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-2.15	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-2.15	2	28-38	10YR 6/4	SA CL LO	SA CL LO	NCM
53-2.16	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
53-2.16	2	38-48	2.5YR 5/4	RD BR	SA CL LO	NCM
53-2.17	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
53-2.17	2	36-46	2.5YR 5/4	RD BR	SA CL LO	NCM
53-2.17A	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
53-2.17A	2	38-48	10YR 6/4	LT YL BR	SA CL LO	NCM
53-2.17B	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-2.17B	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.18	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.18	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.19	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.19	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.20	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-2.20	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.21	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.21	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.22	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.22	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.23	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.23	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.24	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.24	2	34-44	10YR 5/4	YL BR	SA LO	NCM
53-2.25	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.25	2	34-44	10YR 5/4	YL BR	SA LO	NCM
53-2.26	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-2.26	2	33-43	10YR 5/4	YL BR	SA LO	NCM
53-2.27	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
53-2.27	2	32-42	10YR 5/4	YL BR	SA LO	NCM
53-2.28	1	0-33	10YR 4/2	DK GR BR	SA LO	NCM
53-2.28	2	33-43	10YR 6/4 7.5YR 5/4	LT YL BR BR	SA CL LO	NCM
53-2.29	1	0-33	10YR 4/2	DK GR BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-2.29	2	33-43	10YR 6/4 7.5YR 5/4	LT YL BR BR	SA CL LO	NCM
53-2.30	1	0-35	10YR 4/2	DK GR BR	SA LO	NCM
53-2.30	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.31	1	0-48	10YR 4/2	DK GR BR	SA LO	NCM
53-2.31	2	48-58	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.32	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
53-2.32	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.33	1	0-37	10YR 4/2	DK GR BR	SA LO	NCM
53-2.33	2	37-47	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
53-2.34	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.34	2	34-42	10YR 6/4	LT YL BR	SA CL LO	NCM
53-2.35	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.35	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
53-2.36	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-2.36	2	31-41	10YR 5/6	YL BR	SA CL LO	NCM
53-2.37	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-2.37	2	33-43	10YR 5/6	YL BR	SA CL LO	NCM
53-2.38	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-2.38	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
53-2.39	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-2.39	2	33-43	10YR 5/4	YL BR	SA CL LO	NCM
53-2.40	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
53-2.40	2	44-54	10YR 5/4	YL BR	SA CL LO	NCM
53-2.41	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
53-2.41	2	34-44	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
53-2.42	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-2.42	2	30-40	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
53-2.43	1	0-27	10YR 5/3	BR	SA LO	NCM
53-2.43	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM
53-2.44	1	0-28	10YR 5/3	BR	SA LO	NCM
53-2.44	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
53-2.45	1	0-28	10YR 5/3	BR	SA LO	NCM
53-2.45	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.46	1	0-27	10YR 5/3	BR	SA LO	NCM
53-2.46	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.47	1	0-28	10YR 5/3	BR	SA LO	NCM
53-2.47	2	28-38	10YR 5/4	YL BR	SA CL	NCM
53-2.48	1	0-27	10YR 5/3	BR	SI LO	NCM
53-2.48	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL	NCM
53-2.49	1	0-45	10YR 5/3	BR	SA LO	NCM
53-2.49	2	45-55	7.5YR 5/4	BR	SA CL	NCM
53-2.50	1	0-28	10YR 5/3	BR	SA LO	NCM
53-2.50	2	28-36	10YR 6/3 10YR 5/8	PALE BR YL BR	SA CL LO	NCM
53-2.51	1	0-34	10YR 5/3	BR	SA LO	NCM
53-2.51	2	34-44	10YR 6/3 10YR 5/8	PALE BR YL BR	SA CL LO	NCM
53-2.52	1	0-28	10YR 5/3	BR	SA LO	NCM
53-2.52	2	28-38	10YR 6/3 10YR 5/8	PALE BR YL BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
53-2.53	1	0-32	10YR 5/3	BR	SA LO	NCM
53-2.53	2	32-42	10YR 6/3 10YR 5/8	PALE BR YL BR	SA CL LO	NCM
53-2.54	1	0-38	10YR 5/3	BR	SA LO	NCM
53-2.54	2	38-48	10YR 6/3 10YR 5/8	PALE BR YL BR	SA CL LO	NCM
53-3.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-3.1	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.2	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-3.3	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.4	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-3.5	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-3.6	2	32-42	10YR 6/4	YL BR	SA CL LO	NCM
53-3.7	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
53-3.7	2	31-41	10YR 6/4	YL BR	SA CL LO	NCM
53-3.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.8	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.9	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.9	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.10	1	0-30	10YR 5/3	BR	SI LO	NCM
53-3.10	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.11	1	0-28	10YR 5/3	BR	SI LO	NCM
53-3.11	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.12	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.12	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.13	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
53-3.13	2	32-42	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.14	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
53-3.14	2	33-43	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.15	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-3.15	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.16	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
53-3.16	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.17	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
53-3.17	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.18	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.18	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
53-3.19	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
53-3.19	2	30-40	7.5YR 5/2 7.5YR 6/8	BR RD YL	SI CL	NCM
54-1.1	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
54-1.1	2	31-41	10YR 4/3	BR	SA LO	NCM
54-1.2	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
54-1.2	2	32-42	10YR 4/3	BR	SA LO	NCM
54-1.3	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
54-1.3	2	31-41	10YR 4/3	BR	SA LO	NCM
54-1.4	1	0-33	10YR 4/2	DK GR BR	SA LO	NCM
54-1.4	2	33-43	10YR 6/8	BR YL	SA LO	NCM
54-1.5	1	0-41	10YR 4/2	DK GR BR	SA LO	NCM
54-1.5	2	41-51	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
56-1.1	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
56-1.1	2	36-46	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.2	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
56-1.2	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
56-1.3	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
56-1.4	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
56-1.5	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
56-1.6	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
56-1.7	1	0-28	10YR 4/1	DK GR	SI LO	NCM
56-1.7	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI LO	NCM
56-1.8	1	0-31	10YR 4/1	DK GR	SI LO	NCM
56-1.8	2	31-41	10YR 5/6	YL BR	SI LO	NCM
56-1.9	1	0-29	10YR 4/1	DK GR	SI LO	NCM
56-1.9	2	29-39	10YR 5/6	YL BR	SI LO	NCM
56-1.10	1	0-29	10YR 4/1	DK GR	SI LO	NCM
56-1.10	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.11	1	0-34	10YR 4/1	DK GR	SI LO	NCM
56-1.11	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.12	1	0-31	10YR 4/1	DK GR	SI LO	NCM
56-1.12	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.13	1	0-34	10YR 4/1	DK GR	SI LO	NCM
56-1.13	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.14	1	0-32	10YR 4/1	DK GR	SI LO	NCM
56-1.14	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
56-1.15	1	0-34	10YR 4/1	DK GR	SI LO	NCM
56-1.15	2	34-44	10YR 6/4	LT YL BR	SI LO	NCM
56-1.16	1	0-31	10YR 4/1	DK GR	SI LO	NCM
56-1.16	2	31-41	10YR 6/4	LT YL BR	SI LO	NCM
57-1.1	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.1	2	30-40	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.2	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.2	2	27-37	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.3	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.3	2	30-40	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.4	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.4	2	27-37	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.5	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.5	2	27-37	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.6	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.6	2	26-36	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.7	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.7	2	30-40	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.8	1	0-32	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.8	2	32-42	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.9	1	0-33	10YR 3/2	V DK GR BR	SI LO	NCM
57-1.9	2	33-43	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
57-1.10	2	29-39	10YR 6/4	LT YL BR	SI CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
57-1.11	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
57-1.11	2	34-44	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.12	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-1.12	2	32-42	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.13	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
57-1.13	2	34-44	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.14	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
57-1.14	2	26-36	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.15	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
57-1.15	2	35-45	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.16	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
57-1.16	2	31-41	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.17	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-1.17	2	28-38	10YR 6/4	LT YL BR	SI CL LO	NCM
57-1.18	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
57-1.18	2	26-36	10YR 6/4	LT YL BR	SI CL LO	NCM
57-2.1	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
57-2.1	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.2	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
57-2.2	2	34-44	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.3	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
57-2.3	2	36-46	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-2.4	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.5	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
57-2.5	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
57-2.6	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-2.7	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.8	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
57-2.8	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
57-2.9	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-2.9	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
57-2.10	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
57-2.10	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
57-2.11	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-2.11	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
57-2.12	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
57-2.12	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
57-2.13	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
57-2.13	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
57-2.14	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-2.14	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
57-2.15	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-2.15	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
57-2.16	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.17	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-2.17	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.18	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-2.18	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-2.19	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-2.19	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-3.1	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
57-3.1	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-3.2	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
57-3.2	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-3.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.3	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-3.4	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
57-3.4	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
57-3.5	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
57-3.5	2	38-48	10YR 5/6	YL BR	SA CL LO	NCM
57-3.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-3.6	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
57-3.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-3.7	2	32-42	10YR 5/4	YL BR	SA LO	NCM
57-3.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.8	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.9	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.10	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.11	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-3.11	2	30-40	10YR 5/4	YL BR	SA LO	NCM
57-3.12	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.12	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.13	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
57-3.13	2	30-40	10YR 5/4	YL BR	SA LO	NCM
57-3.14	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.14	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.15	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.15	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.16	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
57-3.16	2	26-36	10YR 5/4	YL BR	SA LO	NCM
57-3.17	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
57-3.17	2	27-37	10YR 5/4	YL BR	SA LO	NCM
57-3.18	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
57-3.18	2	25-35	10YR 5/4	YL BR	SA LO	NCM
57-3.19	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
57-3.19	2	32-42	10YR 5/4	YL BR	SA LO	NCM
57-3.20	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
57-3.20	2	26-36	7.5YR 5/4	BR	SA LO	NCM
57-3.21	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
57-3.21	2	26-36	7.5YR 5/4	BR	SA LO	1 whiteware (not collected)
57-3.22	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
57-3.22	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.23	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
57-3.23	2	28-38	10YR 5/4	YL BR	SA LO	NCM
57-3.24	1	0-28	10YR 4/2	DK GR	SI LO	NCM
57-3.24	2	28-38	10YR 5/4	YL BR	SA LO	NCM
59-1.1	1	0-28	10YR 5/3	BR	SI LO	NCM
59-1.1	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.2	1	0-28	10YR 5/3	BR	SI LO	NCM
59-1.2	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.3	1	0-32	10YR 5/3	BR	SI LO	NCM
59-1.3	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.4	1	0-27	10YR 5/3	BR	SI LO	NCM
59-1.4	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.5	1	0-28	10YR 5/3	BR	SI LO	NCM
59-1.5	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.6	1	0-30	10YR 5/3	BR	SI LO	NCM
59-1.6	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-1.7	1	0-28	10YR 5/3	BR	SI LO	NCM
59-1.7	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-1.8	1	0-28	10YR 5/3	BR	SI LO	NCM
59-1.8	2	28-39	10YR 5/6	YL BR	SA CL LO	NCM
59-1.9	1	0-29	10YR 5/3	BR	SI LO	NCM
59-1.9	2	29-31	10YR 5/6	YL BR	SA CL LO	NCM
59-1.10	1	0-26	10YR 5/3	BR	SI LO	NCM
59-1.10	2	26-36	10YR 5/6	YL BR	SA CL LO	NCM
59-1.11	1	0-27	10YR 5/3	BR	SI CL LO	NCM
59-1.11	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
59-2.1	1	0-28	10YR 5/3	BR	SI CL LO	NCM
59-2.1	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-2.2	1	0-29	10YR 5/3	BR	SI CL LO	NCM
59-2.2	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
59-2.3	1	0-27	10YR 5/3	BR	SI CL LO	NCM
59-2.3	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
59-2.4	1	0-27	10YR 5/3	BR	SI CL LO	NCM
59-2.4	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.5	1	0-25	10YR 5/3	BR	SI CL LO	NCM
59-2.5	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.6	1	0-30	10YR 5/2	GR BR	SI CL LO	NCM
59-2.6	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.7	1	0-33	10YR 5/2	GR BR	SI CL LO	NCM
59-2.7	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.8	1	0-28	10YR 5/2	GR BR	SI CL LO	NCM
59-2.8	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.9	1	0-30	10YR 5/2	GR BR	SI CL LO	NCM
59-2.9	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
59-2.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
59-2.10	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
59-2.11	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
59-2.11	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA LO	NCM
59-2.12	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
59-2.12	2	34-44	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
59-2.13	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
59-2.13	2	28-38	7.5YR 5/2	BR	SI CL	NCM
59-2.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
59-2.14	2	30-40	7.5YR 5/2	BR	SI CL	NCM
59-2.15	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
59-2.15	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.16	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
59-2.16	2	35-45	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.17	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
59-2.17	2	33-43	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
59-2.18	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.19	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
59-2.19	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.20	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
59-2.20	2	35-45	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.21	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
59-2.21	2	38-48	7.5YR 5/2	BR	SI CL	NCM
59-2.22	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
59-2.22	2	36-46	7.5YR 5/2	BR	SI CL	NCM
59-2.23	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
59-2.23	2	35-45	7.5YR 5/2	BR	SI CL	NCM
59-2.24	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
59-2.24	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-2.25	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
59-2.25	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-2.26	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
59-2.26	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
59-2.27	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
59-2.27	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
59-2.28	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
59-2.28	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
59-2.29	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
59-2.29	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-2.30	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
59-2.30	2	27-37	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-3.1	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.1	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
59-3.2	1	0-27	10YR 5/3	BR	SI LO	NCM
59-3.2	2	27-37	10YR 5/6	YL BR	SA CL LO	NCM
59-3.3	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.3	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.4	1	0-32	10YR 5/3	BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
59-3.4	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
59-3.5	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.5	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
59-3.6	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.6	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.7	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.7	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.8	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.8	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.9	1	0-29	10YR 5/3	BR	SI LO	NCM
59-3.9	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
59-3.10	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.10	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	CL	NCM
59-3.11	1	0-36	10YR 5/3	BR	SI LO	NCM
59-3.11	2	36-46	10YR 5/6	YL BR	SA CL LO	NCM
59-3.12	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.12	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.13	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.13	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM
59-3.14	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.14	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM
59-3.15	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.15	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
59-3.16	1	0-32	10YR 5/3	BR	SI LO	NCM
59-3.16	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
59-3.17	1	0-29	10YR 5/3	BR	SI LO	NCM
59-3.17	2	29-39	10YR 6/4	LT YL BR	SA CL LO	NCM
59-3.18	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.18	2	30-40	10YR 6/4	LT YL BR	SA CL LO	NCM
59-3.19	1	0-32	10YR 5/3	BR	SI LO	NCM
59-3.19	2	32-42	10YR 6/4	LT YL BR	SA CL LO	NCM
59-3.19A	1	0-26	10YR 5/3	BR	SI LO	NCM
59-3.19A	2	26-36	10YR 6/4	LT YL BR	SA CL LO	NCM
59-3.19B	1	0-31	10YR 5/3	BR	SI LO	NCM
59-3.19B	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-3.19C	1	0-29	10YR 5/3	BR	SI LO	NCM
59-3.19C	2	29-39	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-3.19D	1	0-30	10YR 5/3	BR	SI LO	NCM
59-3.19D	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-3.20	1	0-28	10YR 5/3	BR	SI LO	NCM
59-3.20	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
59-3.21	1	0-27	10YR 5/3	BR	SI LO	NCM
59-3.21	2	27-37	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
60-1.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
60-1.1	2	26-36	7.5YR 5/2	BR	SI CL	NCM
60-1.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
60-1.2	2	29-39	7.5YR 5/2	BR	SI CL	NCM
60-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
60-1.3	2	28-38	10YR 6/3	PALE BR	SA LO	NCM
60-1.4	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
60-1.4	2	26-36	10YR 5/6	YL BR	SA LO	NCM
60-1.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
60-1.5	2	30-40	10YR 5/6	YL BR	SA LO	NCM
60-1.6	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
60-1.6	2	27-37	7.5YR 5/2	BR	SA CL LO	NCM
60-1.7	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
60-1.7	2	25-35	7.5YR 5/2	BR	SA CL LO	NCM
60-2.1	1	0-28	10YR 5/3	BR	SI LO	NCM
60-2.1	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
60-2.2	1	0-28	10YR 5/3	BR	SI LO	NCM
60-2.2	2	28-38	10YR 6/6	BR YL	SA CL LO	NCM
60-2.3	1	0-33	10YR 5/3	BR	SI LO	NCM
60-2.3	2	33-43	10YR 6/6	BR YL	SA CL LO	NCM
60-2.4	1	0-29	10YR 5/3	BR	SI LO	NCM
60-2.4	2	29-39	10YR 6/6	BR YL	SA CL LO	NCM
60-2.5	1	0-30	10YR 5/3	BR	SI LO	NCM
60-2.5	2	30-40	10YR 6/6	BR YL	SA CL LO	NCM
60-2.6	1	0-28	10YR 5/3	BR	SI LO	NCM
60-2.6	2	28-38	10YR 6/6	BR YL	SA CL O	NCM
60-2.7	1	0-31	10YR 5/3	BR	SI LO	NCM
60-2.7	2	31-41	10YR 6/6	YL BR	SA LO	NCM
60-2.8	1	0-29	10YR 5/3	BR	SI LO	NCM
60-2.8	2	29-39	10YR 6/6	BR YL	SA LO	NCM
60-2.9	1	0-34	10YR 5/3	BR	SI LO	NCM
60-2.9	2	34-44	10YR 5/6	YL BR	SA LO	NCM
60-2.10	1	0-32	10YR 5/3	BR	SI LO	NCM
60-2.10	2	32-42	10YR 5/6	YL BR	SA LO	NCM
60-2.10A	1	0-27	10YR 5/3	BR	SI LO	NCM
60-2.10A	2	27-37	10YR 5/6	YL BR	SA LO	NCM
60-2.10B	1	0-28	10YR 5/2	GR BR	SI LO	NCM
60-2.10B	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
60-2.10C	1	0-27	10YR 5/2	GR BR	SI LO	NCM
60-2.10C	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
60-2.11	1	0-30	10YR 5/2	GR BR	SI LO	NCM
60-2.11	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
60-2.12	1	0-27	10YR 5/2	GR BR	SI LO	NCM
60-2.12	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.13	1	0-32	10YR 5/2	GR BR	SI LO	NCM
60-2.13	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.14	1	0-32	10YR 5/2	GR BR	SI LO	NCM
60-2.14	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.15	1	0-33	10YR 5/2	GR BR	SI LO	NCM
60-2.15	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.16	1	0-29	10YR 5/2	GR BR	SI LO	NCM
60-2.16	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.17	1	0-30	10YR 5/2	GR BR	SI LO	NCM
60-2.17	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.18	1	0-27	10YR 5/2	GR BR	SI LO	NCM
60-2.18	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.19	1	0-31	10YR 5/2	GR BR	SI LO	NCM
60-2.19	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.20	1	0-29	10YR 5/2	GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
60-2.20	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.21	1	0-32	10YR 5/2	GR BR	SI LO	NCM
60-2.21	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
60-2.22	1	0-28	10YR 5/2	GR BR	SI LO	NCM
60-2.22	2	28-38	7.5YR 5/2	BR	SI CL	NCM
60-2.23	1	0-35	10YR 4/1	DK GR	SI CL LO	NCM
60-2.23	2	35-45	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
60-2.24	1	0-28	10YR 4/1	DK GR	SI CL LO	NCM
60-2.24	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
60-2.25	1	0-28	10YR 5/2	GR BR	SI CL LO	NCM
60-2.25	2	28-38	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
60-3.1	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
60-3.1	2	29-30	10YR 5/6	YL BR	SI CL LO	NCM
60-3.2	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
60-3.2	2	25-35	10YR 5/6	YL BR	SI CL LO	NCM
60-3.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
60-3.3	2	32-42	10YR 5/6	YL BR	SI CL LO	NCM
60-3.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
60-3.4	2	29-39	10YR 5/6	YL BR	SI CL LO	NCM
60-3.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
60-3.5	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
60-3.6	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.7	1	0-37	10YR 5/3	BR	CL LO	NCM
60-3.7	2	37-47	10YR 7/4 10YR 7/8	V PALE BR YL	SI CL LO	NCM
60-3.8	1	0-37	10YR 5/3	BR	CL LO	NCM
60-3.8	2	37-47	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.9	1	0-31	10YR 5/3	BR	CL LO	NCM
60-3.9	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.10	1	0-37	10YR 5/3	BR	CL LO	NCM
60-3.10	2	37-47	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.11	1	0-38	10YR 5/3	BR	CL LO	NCM
60-3.11	2	38-48	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.12	1	0-34	10YR 5/3	BR	CL LO	NCM
60-3.12	2	34-44	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.13	1	0-32	10YR 5/3	BR	CL LO	NCM
60-3.13	2	32-42	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.14	1	0-16	10YR 3/2	V DK GR BR	SI LO	NCM; burnt lumber; plastic; brick
60-3.14	2	16-26	10YR 5/2 10YR 7/1	GR BR LT GR	SI CL LO	NCM; burnt lumber; plastic; brick
60-3.15	1	0-31	10YR 3/2	V DK GR BR	SI LO	NCM
60-3.15	2	31-41	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
60-3.16	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM
60-3.16	2	22-32	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
60-3.17	1	0-24	10YR 3/2	V DK GR BR	SA LO	NCM
60-3.17	2	24-34	10YR 6/3	PALE BR	SI CL LO	NCM
60-3.18	1	0-12	10YR 4/2	DK GR BR	SI LO	NCM
60-3.18	2	12-25	10YR 5/4	YL BR	SI CL LO	NCM
62-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
62-1.1	2	28-38	10YR 7/3 10YR 5/8	V PALE BR YL BR	SA LO	NCM
62-1.2	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
62-1.2	2	27-37	10YR 7/3 10YR 5/8	V PALE BR YL BR	SA LO	NCM
62-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
62-1.3	2	28-38	10YR 7/3 10YR 5/8	V PALE BR YL BR	SA LO	NCM
62-1.4	1	0-27	10YR 5/3	BR	SI LO	NCM
62-1.4	2	27-37	10YR 5/4	YL BR	SA LO	NCM
62-1.5	1	0-28	10YR 5/3	BR	SI LO	NCM
62-1.5	2	28-38	10YR 5/4	YL BR	SA LO	NCM
62-1.6	1	0-29	10YR 5/3	BR	SI LO	NCM
62-1.6	2	29-39	7.5YR 5/4	BR	SA CL LO	NCM
62-1.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
62-1.7	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
62-1.8	1	0-30	10YR 5/3	BR	SI LO	NCM
62-1.8	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
62-1.9	1	0-30	10YR 5/3	BR	SI LO	NCM
62-1.9	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
62-1.10	1	0-32	10YR 5/3	BR	SI LO	NCM
62-1.10	2	32-42	7.5YR 5/4	BR	SA CL LO	NCM
62-1.11	1	0-33	10YR 5/3	BR	SI LO	NCM
62-1.11	2	33-43	7.5YR 5/4	BR	SA CL LO	NCM
63-1.1	1	0-30	10YR 4/1	DK GR	SI LO	NCM
63-1.1	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL LO	NCM
63-1.2	1	0-40	10YR 4/1	DK GR	SI LO	NCM
63-1.2	2	40-50	10YR 3/2	V DK GR BR	SI CL LO	NCM
63-1.3	1	0-38	10YR 4/1	DK GR	SI LO	NCM
63-1.3	2	38-48	10YR 5/6	YL BR	SA CL LO	NCM
63-1.4	1	0-32	10YR 4/1	DK GR	SI LO	NCM
63-1.4	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
63-1.5	1	0-37	10YR 4/1	DK GR	SI LO	NCM
63-1.5	2	37-47	10YR 5/6	YL BR	SA CL LO	NCM
64-1.1	1	0-47	10YR 4/2	DK GR BR	SI LO	NCM
64-1.1	2	47-57	10YR 5/4	YL BR	SI LO	NCM
64-1.2	1	0-50	10YR 4/2	DK GR BR	SI LO	NCM
64-1.2	2	50-60	10YR 5/4	YL BR	SI LO	NCM
64-1.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
64-1.3	2	33-43	10YR 5/4	YL BR	SI LO	NCM
64-1.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
64-1.4	2	28-38	10YR 5/4	YL BR	SI LO	NCM
64-1.5	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
64-1.5	2	25-35	10YR 5/4	YL BR	SI LO	NCM
64-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
64-1.6	2	28-38	10YR 4/4	DK YL BR	SA CL LO	NCM
64-1.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
64-1.7	2	30-40	10YR 4/4	DK YL BR	SA CL LO	NCM
67-1.1	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
67-1.1	2	24-34	7.5YR 6/4	LT BR	SI LO	NCM
67-1.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-1.2	2	30-40	7.5YR 6/4	LT BR	SI LO	NCM
67-1.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-1.3	2	33-43	7.5YR 6/4	LT BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
67-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
67-1.4	2	32-42	10YR 6/4	LT YL BR	SI LO	NCM
67-1.5	1	0-45	10YR 4/2	DK GR BR	SI LO	NCM
67-1.5	2	45-55	10YR 6/4	LT YL BR	SI LO	NCM
67-1.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-1.6	2	30-40	10YR 6/4	LT YL BR	SI LO	NCM
67-1.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
67-1.7	2	27-37	10YR 6/4	LT YL BR	SI LO	NCM
67-1.8	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-1.8	2	33-43	10YR 6/4	LT YL BR	SI LO	NCM
67-1.9	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
67-1.9	2	27-37	10YR 5/4	YL BR	SI LO	NCM
67-2.1	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-2.1	2	33-43	10YR 5/4	YL BR	SI LO	NCM
67-2.2	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
67-2.2	2	38-48	10YR 5/4	YL BR	SI LO	NCM
67-2.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-2.3	2	33-43	10YR 5/4	YL BR	SI LO	NCM
67-2.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-2.4	2	33-38	10YR 5/4	YL BR	SI LO	NCM; rock impasse at 38cm
67-2.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
67-2.5	2	26-36	10YR 5/4	YL BR	SI LO	NCM
67-2.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
67-2.6	2	29-39	10YR 5/4	YL BR	SI LO	NCM
67-2.7	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
67-2.7	2	26-36	10YR 5/4	YL BR	SI LO	NCM
67-2.8	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
67-2.8	2	29-33	10YR 5/4	YL BR	SI LO	NCM; rock impasse at 33cm
67-2.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
67-2.9	2	32-42	10YR 5/4	YL BR	SI LO	NCM
67-2.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-2.10	2	28-38	10YR 5/4	YL BR	SI LO	NCM
67-2.11	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-2.11	2	28-38	10YR 5/4	YL BR	SI LO	NCM
67-2.12	1	0-33	10YR 5/3	BR	SI LO	NCM
67-2.12	2	33-43	7.5YR 6/4	LT BR	SI CL	NCM
67-2.13	1	0-30	10YR 5/3	BR	SI LO	NCM
67-2.13	2	30-40	7.5YR 6/4	LT BR	SI CL	NCM
67-2.14	1	0-25	10YR 5/3	BR	SI LO	NCM
67-2.14	2	25-35	7.5YR 6/4	LT BR	SI CL	NCM
67-2.15	1	0-20	10YR 5/3	BR	SI LO	NCM
67-2.15	2	20-30	7.5YR 6/4	LT BR	SI CL	NCM
67-2.16	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-2.16	2	30-40	10YR 5/4	YL BR	SI LO	NCM
67-2.17	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-2.17	2	28-38	10YR 5/4	YL BR	SI LO	NCM
67-2.18	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-2.18	2	28-38	10YR 5/4	YL BR	SI LO	NCM
67-2.19	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
67-2.19	2	30-40	10YR 5/4	YL BR	SA LO	NCM
67-2.20	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
67-2.20	2	28-38	10YR 6/3 10YR 5/6	PALE BR YL BR	SA CL LO	NCM
67-2.21	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
67-2.21	2	32-42	10YR 6/3 10YR 5/6	PALE BR YL BR	SA CL LO	NCM
67-2.22	1	0-28	10YR 5/3	BR	SI LO	NCM
67-2.22	2	28-38	10YR 6/3 10YR 5/6	PALE BR YL BR	SA CL LO	NCM
67-2.23	1	0-36	10YR 5/2	GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
67-2.23	2	36-46	7.5YR 6/4	LT BR	SA CL LO	NCM
67-2.24	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
67-2.24	2	38-48	7.5YR 6/4	LT BR	SA CL LO	NCM
67-2.25	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
67-2.25	2	31-41	7.5YR 6/4	LT BR	SA CL LO	NCM
67-2.26	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
67-2.26	2	36-46	10YR 5/4	YL BR	SA CL LO	NCM
67-2.27	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-2.27	2	28-38	10YR 5/4	YL BR	SA CL LO	NCM
67-2.28	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-2.28	2	30-40	10YR 5/4	YL BR	SA CL LO	NCM
67-3.1	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
67-3.1	2	33-40	10YR 5/4	YL BR	SA CL LO	NCM
67-3.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
67-3.2	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
67-3.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
67-3.3	2	27-37	10YR 5/4	YL BR	SA CL LO	NCM
67-3.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
67-3.4	2	29-39	10YR 5/4	YL BR	SA CL LO	NCM
67-3.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
67-3.5	2	27-37	10YR 5/4	YL BR	SA CL LO	NCM
67-3.6	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
67-3.6	2	23-33	10YR 5/4	YL BR	SA CL LO	NCM
67-3.7	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-3.7	2	28-38	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-3.8	2	28-38	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.9	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
67-3.9	2	25-35	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
67-3.10	2	28-38	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.11	1	0-21	10YR 4/2	DK GR BR	SI LO	NCM
67-3.11	2	21-31	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.12	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.12	2	27-37	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.13	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.13	2	34-44	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.14	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.14	2	34-44	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.15	1	0-27	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.15	2	27-37	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.16	1	0-25	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.16	2	25-35	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.17	1	0-29	10YR 3/2	V DK GR BR	SI LO	NCM
67-3.17	2	29-39	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.18	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
67-3.18	2	38-48	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.19	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
67-3.19	2	26-36	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.20	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-3.20	2	30-40	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.21	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
67-3.21	2	20-30	7.5YR 6/4	LT BR	SA CL LO	NCM
67-3.22	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
67-3.22	2	30-40	10YR 5/4	YL BR	SA LO	NCM
67-3.23	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
67-3.23	2	29-39	10YR 5/4	YL BR	SA LO	NCM
67-3.24	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
67-3.24	2	32-42	10YR 5/4	YL BR	SA LO	NCM
67-3.25	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
67-3.25	2	33-43	10YR 5/4	YL BR	SA LO	NCM
67-3.26	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
67-3.26	2	26-36	10YR 5/4	YL BR	SA LO	NCM
67-3.27	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
67-3.27	2	27-37	10YR 5/4	YL BR	SA LO	NCM
68-1.1	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-1.1	2	33-43	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.2	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
68-1.2	2	29-39	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.3	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-1.3	2	33-43	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.4	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-1.4	2	32-42	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-1.5	2	32-42	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.6	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
68-1.6	2	35-45	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.7	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-1.7	2	33-43	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.8	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-1.8	2	33-43	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-1.9	2	32-42	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
68-1.10	2	30-40	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.11	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
68-1.11	2	23-33	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.12	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
68-1.12	2	30-40	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-1.13	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
68-1.13	2	26-36	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
68-2.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
68-2.1	2	30-40	10YR 6/4	LT YL BR	SA LO	NCM
68-2.2	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-2.2	2	32-42	7.5YR 6/3	LT BR	SA LO	NCM
68-2.3	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
68-2.3	2	36-46	7.5YR 6/3	LT BR	SA LO	NCM
68-2.4	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
68-2.4	2	34-44	7.5YR 6/3	LT BR	SA LO	NCM
68-2.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-2.5	2	32-42	7.5YR 6/3	LT BR	SA LO	NCM
68-2.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-2.6	2	32-42	7.5YR 6/3	LT BR	SA LO	NCM
68-2.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
68-2.7	2	27-37	7.5YR 6/3	LT BR	SA LO	NCM
68-2.8	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
68-2.8	2	36-46	7.5YR 6/3	LT BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
68-2.9	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
68-2.9	2	29-39	2.5YR 6/4	LT RD BR	SA CL LO	NCM
68-2.10	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-2.10	2	33-43	7.5YR 5/4	BR	SI CL LO	NCM
68-2.11	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
68-2.11	2	29-39	10YR 5/6	YL BR	SA LO	NCM
68-2.12	1	0-34	10YR 4//2	DK GR BR	SI LO	NCM
68-2.12	2	34-44	10YR 5/6	YL BR	SA LO	NCM
68-2.13	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
68-2.13	2	36-46	10YR 5/6	YL BR	SA LO	NCM
68-2.14	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-2.14	2	33-43	10YR 6/4	LT YL BR	SA LO	NCM
68-2.15	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
68-2.15	2	31-41	10YR 5/6	YL BR	SA LO	NCM
68-2.16	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
68-2.16	2	28-38	10YR 5/6	YL BR	SA LO	NCM
68-2.17	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
68-2.17	2	26-36	10YR 5/6	YL BR	SA LO	NCM
68-2.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
68-2.18	2	29-39	10YR 5/6	YL BR	SA LO	NCM
68-2.19	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
68-2.19	2	36-46	10YR 6/4	LT YL BR	SA LO	NCM
68-2.20	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
68-2.20	2	32-42	10YR 5/6	YL BR	SA LO	NCM
68-2.21	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
68-2.21	2	33-43	10YR 5/6	YL BR	SA LO	NCM
68-2.22	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
68-2.22	2	36-46	10YR 5/6	YL BR	SA LO	NCM
69-1.1	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
69-1.1	2	22-32	10YR 5/2 10YR 6/8	GR BR BR YL	SA LO	NCM
69-1.2	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
69-1.2	2	24-34	10YR 7/2 10YR 6/8	LT GR BR YL	SI LO	NCM
69-1.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
69-1.3	2	30-40	10YR 7/2 10YR 6/8	LT GR BR YL	SI LO	NCM
69-1.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
69-1.4	2	30-40	10YR 7/2 10YR 6/8	LT GR BR YL	SI LO	NCM
69-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
69-1.5	2	32-42	10YR 7/2 10YR 6/8	LT GR BR YL	SI LO	NCM
69-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
69-1.6	2	28-38	10YR 5/6	YL BR	SA LO	NCM
69-1.7	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
69-1.7	2	34-44	10YR 5/6	YL BR	SA LO	NCM
69-1.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
69-1.8	2	30-40	10YR 5/6	YL BR	SA LO	NCM
69-1.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
69-1.9	2	28-38	10YR 6/4	LT YL BR	SA LO	NCM
69-1.10	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
69-1.10	2	34-45	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA LO	NCM
69-1.11	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
69-1.11	2	27-37	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA LO	NCM
69-1.12	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
69-1.12	2	30-40	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
69-1.13	1	0-29	10YE 4/2	DK GR BR	SI LO	NCM
69-1.13	2	29-39	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA LO	NCM
69-1.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
69-1.14	2	30-40	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA LO	NCM
69-1.15	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
69-1.15	2	26-36	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
69-1.16	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
69-1.16	2	28-38	10YR 7/2 10YR 6/8	LT GR BR YL	SA LO	NCM
69-2.1	1	0-28	10YR 4/1	DK GR	SI LO	NCM
69-2.1	2	28-38	10YR 5/4	YL BR	SA LO	NCM
69-2.2	1	0-28	10YR 4/1	DK GR	SI LO	NCM
69-2.2	2	28-38	10YR 5/6	YL BR	SA LO	NCM
69-2.3	1	0-29	10YR 4/1	DK GR	SI LO	NCM
69-2.3	2	29-39	10YR 5/6	YL BR	SA LO	NCM
69-2.4	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
69-2.4	2	24-34	7.5YR 6/4	LT BR	SA CL LO	NCM
69-2.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
69-2.5	2	32-42	7.5YR 6/4	LT BR	SA CL LO	NCM
69-2.6	1	0-36	10YR 4/2	DK GR BR	SI LO	NCM
69-2.6	2	36-46	10YR 5/4	YL BR	SA LO	NCM
69-2.7	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
69-2.7	2	34-44	10YR 5/4	YL BR	SA LO	NCM
69-2.8	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
69-2.8	2	29-39	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
69-2.9	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
69-2.9	2	29-39	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA CL LO	NCM
69-2.10	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
69-2.10	2	34-44	7.5YR 6/4	LT BR	SA CL LO	NCM
69-2.11	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
69-2.11	2	31-41	10YR 5/6	YL BR	SA LO	NCM
69-2.12	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
69-2.12	2	28-38	7.5YR 6/2	PINK GR	SA LO	NCM
69-2.13	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
69-2.13	2	29-39	7.5YR 6/2	PINK GR	SA LO	NCM
70-1.1	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.1	2	28-38	10YR 5/3	BR	SA LO	NCM
70-1.2	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.2	2	28-38	10YR 5/3	BR	SA LO	NCM
70-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.3	2	28-38	10YR 5/3	BR	SA LO	NCM
70-1.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-1.4	2	30-40	10YR 5/3	BR	SA LO	NCM
70-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-1.5	2	32-42	7.5YR 5/4	BR	SA LO	NCM
70-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.6	2	28-38	7.5YR 5/4	BR	SA LO	NCM
70-1.7	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
70-1.7	2	27-37	7.5YR 5/4	BR	SA LO	NCM
70-1.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.8	2	28-38	7.5YR 5/4	BR	SA LO	NCM
70-1.9	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
70-1.9	2	26-36	7.5YR 5/4	BR	SA LO	NCM
70-1.10	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-1.10	2	30-40	7.5YR 5/4	BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
70-1.11	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
70-1.11	2	24-34	7.5YR 6/4	LT BR	SA LO	NCM
70-1.12	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
70-1.12	2	27-37	7.5YR 6/4	LT BR	SA LO	NCM
70-1.13	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
70-1.13	2	20-32	7.5YR 6/4	LT BR	SA LO	NCM
70-1.14	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-1.14	2	32-42	7.5YR 6/4	LT BR	SA LO	NCM
70-1.15	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
70-1.15	2	29-39	7.5YR 6/4	LT BR	SA LO	NCM
70-1.16	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
70-1.16	2	27-37	7.5YR 6/4	LT BR	SA LO	NCM
70-1.17	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-1.17	2	32-42	7.5YR 6/4	LT BR	SA LO	NCM
70-1.18	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-1.18	2	30-40	7.5YR 6/4	LT BR	SA LO	NCM
70-1.19	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-1.19	2	30-40	7.5YR 6/4	LT BR	SA LO	NCM
70-1.20	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.20	2	35-45	7.5YR 5/4	LT BR	SA LO	NCM
70-1.21	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
70-1.21	2	34-44	7.5YR 6/4	LT BR	SA LO	NCM
70-1.22	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-1.22	2	30-40	7.5YR 6/4	LT BR	SA LO	NCM
70-1.23	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
70-1.23	2	28-38	7.5YR 6/4	LT BR	SA LO	NCM
70-1.24	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-1.24	2	32-42	7.5YR 6/4	LT BR	SA LO	NCM
70-1.25	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
70-1.25	2	34-44	10YR 5/4	YL BR	SA LO	NCM
70-1.26	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26	2	34-44	10YR 5/4	YL BR	SA LO	NCM
70-1.26A	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26A	2	29-39	10YR 6/3	PALE BR	SI CL	NCM
70-1.26B	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26B	2	31-41	10YR 6/3	PALE BR	SI CL	NCM
70-1.26C	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26C	2	35-45	10YR 6/3	PALE BR	SI CL	NCM
70-1.26D	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26D	2	35-45	10YR 6/3	PALE BR	SI CL	NCM
70-1.26E	1	0-44	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26E	2	44-54	10YR 6/3	PALE BR	SI CL	NCM
70-1.26F	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
70-1.26F	2	34-44	10YR 6/3	PALE BR	SI CL	NCM
70-1.27	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
70-1.27	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
70-1.28	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-1.28	2	32-42	10YR 5/6	YL BR	SA LO	NCM
70-1.29	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.29	2	35-45	10YR 5/6	YL BR	SA LO	NCM
70-1.30	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
70-1.30	2	38-48	10YR 6/6	BR YL	SA LO	NCM
70-1.31	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.31	2	35-45	10YR 6/6	BR YL	SA LO	NCM
70-1.32	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
70-1.32	2	35-45	10YR 6/6	BR YL	SA LO	NCM
70-1.33	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
70-1.33	2	38-48	10YR 6/6	BR YL	SA LO	NCM
70-1.34	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
70-1.34	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM
70-1.35	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
70-1.35	2	26-36	10YR 6/4	LT YL BR	SA LO	NCM
70-2.1	1	0-46	10YR 4/2	DK GR BR	SI LO	NCM
70-2.1	2	46-56	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
70-2.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.2	2	30-40	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
70-2.3	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
70-2.3	2	29-39	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
70-2.4	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.4	2	30-40	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
70-2.5	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
70-2.5	2	27-37	10YR 6/6	BR YL	SA LO	NCM
70-2.6	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.6	2	30-40	10YR 6/6	BR YL	SA LO	NCM
70-2.7	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.7	2	30-40	10YR 6/6	BR YL	SA LO	NCM
70-2.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.8	2	30-40	10YR 6/6	BR YL	SA LO	NCM
70-2.9	1	0-27	10YR 4/1	DK GR	SI LO	NCM
70-2.9	2	27-37	10YR 5/1 10YR 6/6	GR BR YL	SA CL LO	NCM
70-2.10	1	0-30	10YR 4/1	DK GR	SI LO	NCM
70-2.10	2	30-40	10YR 5/1 10YR 6/6	GR BR YL	SA CL LO	NCM
70-2.11	1	0-28	10YR 4/1	DK GR	SI LO	NCM
70-2.11	2	28-38	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.12	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
70-2.12	2	27-37	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.13	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
70-2.13	2	29-39	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.14	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
70-2.14	2	31-41	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.15	1	0-27	10YR 4/1	DK GR	SI LO	NCM
70-2.15	2	27-37	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.16	1	0-31	10YR 4/1	DK GR	SI LO	NCM
70-2.16	2	31-41	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.17	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.17	2	30-40	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.18	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
70-2.18	2	29-39	10YR 6/3 10YR 6/6	PALE BR BR YL	SI LO	NCM
70-2.19	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
70-2.19	2	32-42	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.20	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
70-2.20	2	30-40	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.21	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
70-2.21	2	38-48	10YR 6/3 10YR 6/6	PALE BR BR YL	SA LO	NCM
70-2.22	1	0-33	10YR 5/2	GR BR	SI LO	NCM
70-2.22	2	33-43	10YR 5/4	YL BR	SI LO	NCM
70-2.23	1	0-34	10YR 5/2	GR BR	SI LO	NCM
70-2.23	2	34-44	10YR 5/4	YL BR	SI LO	NCM
70-2.24	1	0-33	10YR 5/2	GR BR	SI LO	NCM
70-2.24	2	33-34	10YR 6/4	LT YL BR	SA LO	NCM
70-2.25	1	0-30	10YR 5/2	GR BR	SI LO	NCM
70-2.25	2	30-40	10YR 5/6	YL BR	SA LO	NCM
70-2.26	1	0-29	10YR 5/2	GR BR	SI LO	NCM
70-2.26	2	29-39	10YR 5/6	YL BR	SA LO	NCM
70-2.27	1	0-28	10YR 5/2	GR BR	SI LO	NCM
70-2.27	2	28-38	10YR 5/6	YL BR	SA LO	NCM
70-2.28	1	0-28	10YR 5/3	BR	SI LO	NCM
70-2.28	2	28-38	10YR 5/6	YL BR	SA LO	NCM
70-2.29	1	0-31	10YR 5/3	BR	SI LO	NCM
70-2.29	2	31-41	10YR 5/6	YL BR	SA LO	NCM
70-2.30	1	0-29	10YR 5/3	BR	SI LO	NCM
70-2.30	2	29-39	10YR 5/6	YL BR	SA LO	NCM
70-2.31	1	0-33	10YR 5/3	BR	SI LO	NCM
70-2.31	2	33-43	10YR 5/6	YL BR	SA LO	NCM
70-2.32	1	0-28	10YR 5/3	BR	SI LO	NCM
70-2.32	2	28-38	10YR 5/6	YL BR	SA LO	NCM
70-2.33	1	0-29	10YR 5/3	BR	SI LO	NCM
70-2.33	2	29-39	10YR 5/6	YL BR	SA LO	NCM
70-2.34	1	0-28	10YR 5/3	BR	SI LO	NCM
70-2.34	2	28-38	10YR 5/6	YL BR	SA LO	NCM
70-2.35	1	0-27	10YR 5/3	BR	SI LO	NCM
70-2.35	2	27-37	10YR 5/6	YL BR	SA LO	NCM
70-2.36	1	0-34	10YR 5/3	BR	SI LO	NCM
70-2.36	2	34-44	10YR 5/6	YL BR	SA LO	NCM
70-2.37	1	0-29	10YR 5/3	BR	SI LO	NCM
70-2.37	2	29-39	10YR 5/6	YL BR	SA LO	NCM
70-2.38	1	0-28	10YR 5/3	BR	SI LO	NCM
70-2.38	2	28-39	10YR 5/6	YL BR	SA LO	NCM
70-3.1	1	0-34	10YR 5/2	GR BR	SI LO	NCM
70-3.1	2	34-44	10YR 5/6	YL BR	SA CL LO	NCM
70-3.2	1	0-32	10YR 5/2	GR BR	SI LO	NCM
70-3.2	2	32-42	10YR 5/6	YL BR	SA CL LO	NCM
70-3.3	1	0-28	10YR 5/2	GR BR	SI LO	NCM
70-3.3	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
70-3.4	1	0-30	10YR 5/2	GR BR	SI LO	NCM
70-3.4	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
70-3.5	1	0-30	10YR 5/2	GR BR	SI LO	NCM
70-3.5	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
70-3.6	1	0-30	10YR 5/2	GR BR	SI LO	NCM
70-3.6	2	30-40	10YR 5/6	YL BR	SA CL LO	NCM
70-3.7	1	0-28	10YR 5/2	GR BR	SI LO	NCM
70-3.7	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
70-3.8	1	0-29	19YR 5/2	GR BR	SI LO	NCM
70-3.8	2	29-39	10YR 5/6	YL BR	SA CL LO	NCM
70-3.9	1	0-28	10YR 5/2	GR BR	SI LO	NCM
70-3.9	2	28-38	10YR 5/6	YL BR	SA CL LO	NCM
70-4.1	1	0-28	10YR 5/3	BR	SI LO	NCM
70-4.1	2	28-38	10YR 6/4	LT YL BR	SI CL	NCM
70-4.2	1	0-34	10YR 5/3	BR	SI LO	NCM
70-4.2	2	34-44	10YR 6/4	LT YL BR	SI CL	NCM
70-4.3	1	0-33	10YR 5/3	BR	SI LO	NCM
70-4.3	2	33-43	10YR 6/4	LT YL BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
70-4.4	1	0-29	10YR 5/3	BR	SI LO	NCM
70-4.4	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM
70-4.5	1	0-29	10YR 5/3	BR	SI LO	NCM
70-4.5	2	29-39	10YR 6/4	LT YL BR	SA LO	NCM
70-4.6	1	0-26	10YR 5/3	BR	SI LO	NCM
70-4.6	2	26-36	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
70-4.7	1	0-30	10YR 5/3	BR	SI LO	NCM
70-4.7	2	30-40	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
70-4.8	1	0-35	10YR 5/3	BR	SI LO	NCM
70-4.8	2	35-45	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
70-4.9	1	0-36	10YR 45/3	BR	SI LO	NCM
70-4.9	2	36-46	10YR 6/2 10YR 6/8	LT BR GR BR YL	SI CL	NCM
70-4.10	1	0-37	10YR 5/3	BR	SI LO	NCM
70-4.10	2	37-47	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
70-4.11	1	0-29	10YR 5/3	BR	SI LO	NCM
70-4.11	2	29-39	10YR 5/6	YL BR	SA LO	NCM
70-4.12	1	0-29	10YR 5/3	BR	SI LO	NCM
70-4.12	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
70-4.13	1	0-31	10YR 5/3	BR	SI LO	NCM
70-4.13	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
70-4.14	1	0-27	10YR 5/3	BR	SI LO	NCM
70-4.14	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
70-5.1	1	0-22	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.1	2	22-32	10YR 5/4	YL BR	SI CL LO	NCM
70-5.2	1	0-35	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.2	2	35-45	10YR 5/4	YL BR	SI CL LO	NCM
70-5.3	1	0-26	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.3	2	26-36	10YR 5/4	YL BR	SI CL LO	NCM
70-5.4	1	0-24	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.4	2	24-34	10YR 5/4	YL BR	SI CL LO	NCM
70-5.5	1	0-23	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.5	2	23-33	10YR 5/4	YL BR	SI CL LO	NCM
70-5.6	1	0-38	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.6	2	38-48	10YR 5/4	YL BR	SI CL LO	NCM
70-5.7	1	0-34	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.7	2	34-44	7.5YR 5/4	BR	SA LO	NCM
70-5.8	1	0-30	10YR 3/2	V DK GR BR	SI LO	NCM
70-5.8	2	30-40	7.5YR 5/4	BR	SA LO	NCM
70-5.9	1	0-27	10YR 5/3	BR	SI LO	NCM
70-5.9	2	27-37	10YR 6/6	BR YL	SA CL LO	NCM
70-5.10	1	0-25	10YR 5/3	BR	SI LO	NCM
70-5.10	2	25-35	10YR 6/6	BR YL	SA CL LO	NCM
70-5.11	1	0-34	10YR 5/3	BR	SI LO	NCM
70-5.11	2	34-44	10YR 6/6	BR YL	SA CL LO	NCM
70-5.12	1	0-27	10YR 5/3	BR	SI LO	NCM
70-5.12	2	27-37	10YR 6/6	BR YL	SA CL LO	NCM
70-5.13	1	0-33	10YR 5/3	BR	SI LO	NCM
70-5.13	2	33-43	10YR 6/6	BR YL	SA CL LO	NCM
70-5.14	1	0-33	10YR 5/3	BR	SI LO	NCM
70-5.14	2	33-43	10YR 6/3 10YR 5/8	PALE BR YL BR	SI CL	NCM
70-5.15	1	0-32	10YR 5/3	BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
70-5.15	2	32-42	10YR 6/3 10YR 5/8	PALE BR YL BR	SI CL	NCM
70-5.16	1	0-32	10YR 5/3	BR	SI LO	NCM
70-5.16	2	32-42	10YR 5/6	YL BR	SI LO	NCM
70-5.17	1	0-28	10YR 5/3	BR	SI LO	NCM
70-5.17	2	28-38	10YR 5/6	YL BR	SI LO	NCM
70-5.18	1	0-27	10YR 5/3	BR	SI LO	NCM
70-5.18	2	27-37	10YR 5/6	YL BR	SI LO	NCM
71-1.1	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.1	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.2	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.2	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.3	1	0-32	10YR 5/2	GR BR	SI LO	NCM
71-1.3	2	32-42	10YR 5/6	YL BR	SA CL	NCM
71-1.4	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.4	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.5	1	0-31	10YR 5/2	GR BR	SI LO	NCM
71-1.5	2	31-41	10YR 5/6	YL BR	SA CL	NCM
71-1.6	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.6	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.7	1	0-29	10YR 5/2	GR BR	SI LO	NCM
71-1.7	2	29-39	10YR 5/6	YL BR	SA CL	NCM
71-1.8	1	0-29	10YR 5/2	GR BR	SI LO	NCM
71-1.8	2	29-39	10YR 5/6	YL BR	SA CL	NCM
71-1.9	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.9	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.10	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.10	2	30-40	10YR 5/6	YL BR	SA CL	NCM
71-1.11	1	0-30	10YR 5/2	GR BR	SI LO	NCM
71-1.11	2	30-40	10YR 5/6	YL BR	SA LO	NCM
72-1.1	1	0-26	10YR 5/3	BR	SI LO	NCM
72-1.1	2	26-36	10YR 6/4	LT YL BR	SA LO	NCM
72-1.2	1	0-27	10YR 5/3	BR	SI LO	NCM
72-1.2	2	27-37	7.5YR 5/4	BR	SI LO	NCM
72-1.3	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
72-1.3	2	28-38	7.5YR 5/4	BR	SI LO	NCM
72-1.4	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
72-1.4	2	33-43	7.5YR 5/4	BR	SI LO	NCM
72-1.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
72-1.5	2	30-40	7.5YR 5/4	BR	SI LO	NCM
73-1.1	1	0-30	10YR 5/3	BR	SI LO	NCM
73-1.1	2	30-40	10YR 6/3 10YR 5/8	PALE BR YL BR	SA LO	NCM
73-1.2	1	0-27	10YR 5/3	BR	SI LO	NCM
73-1.2	2	27-37	10YR 6/3 10YR 5/8	PALE BR YL BR	SA LO	NCM
73-1.3	1	0-28	10YR 5/3	BR	SI LO	NCM
73-1.3	2	28-38	10YR 6/3 10YR 5/8	PALE BR YL BR	SA LO	NCM
73-1.4	1	0-27	10YR 5/2	GR BR	SI LO	NCM
73-1.4	2	27-37	10YR 6/6	BR YL	SA LO	NCM
73-1.5	1	0-27	10YR 5/2	GR BR	SI LO	NCM
73-1.5	2	27-37	10YR 6/6	BR YL	SA LO	NCM
73-1.6	1	0-31	10YR 5/3	BR	SI LO	NCM
73-1.6	2	31-41	10YR 6/6	BR YL	SA LO	NCM
73-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
73-1.7	2	32-42	7.5YR 5/2	BR	SA CL LO	NCM
73-1.8	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
73-1.8	2	28-38	7.5YR 5/2	BR	SA CL LO	NCM
75-1.1	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
75-1.1	2	30-40	7.5YR 5/2	BR	SA CL LO	NCM
75-1.2	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
75-1.2	2	33-43	7.5YR 5/2	BR	SA CL LO	NCM
75-1.3	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
75-1.3	2	35-45	7.5YR 5/2	BR	SA CL LO	NCM
76-1.1	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
76-1.1	2	35-45	7.5YR 5/2	BR	SA CL LO	NCM
76-1.2	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
76-1.2	2	33-43	7.5YR 5/2	BR	SA CL LO	NCM
76-1.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
76-1.3	2	27-37	7.5YR 5/2	BR	SA CL LO	NCM
76-1.4	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
76-1.4	2	28-38	7.5YR 5/2	BR	SA CL LO	NCM
76-1.5	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
76-1.5	2	26-36	7.5YR 5/2	BR	SA CL LO	NCM
76-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
76-1.6	2	28-38	7.5YR 5/2	BR	SA CL LO	NCM
76-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
76-1.7	2	32-42	7.5YR 5/2	BR	SA CL LO	NCM
77-1.1	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
77-1.1	2	38-48	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.2	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
77-1.2	2	35-45	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.3	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
77-1.3	2	32-42	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.4	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
77-1.4	2	24-34	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.5	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
77-1.5	2	32-42	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.6	1	0-15	10YR 4/2	DK GR BR	SI LO	NCM
77-1.6	2	15-30	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.7	1	0-19	10YR 4/2	DK GR BR	SI LO	NCM
77-1.7	2	19-20	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.8	1	0-22	10YR 4/2	DK GR BR	SI LO	NCM
77-1.8	2	22-32	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.9	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
77-1.9	2	28-38	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.10	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
77-1.10	2	32-42	10YR 6/4	LT YL BR	SA CL LO	NCM
77-1.11	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
77-1.11	2	25-35	10YR 6/4	LT YL BR	SA CL LO	NCM
78-1.1	1	0-21	10YR 4/2	DK GR BR	SI LO	NCM
78-1.1	2	21-35	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
78-1.2	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
78-1.2	2	27-37	10YR 6/2 10YR 6/6	LT BR GR BR YL	SA CL LO	NCM
78-1.3	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
78-1.3	2	25-35	10YR 6/2 10YR 6/8	LT BR GR BR YL	SA CL LO	NCM
78-1.4	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
78-1.4	2	26-36	7.5YR 5/2	BR	SA CL LO	NCM
78-1.5	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
78-1.5	2	30-40	7.5YR 5/2	BR	SA CL LO	NCM
78-1.6	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
78-1.6	2	32-42	7.5YR 5/2	BR	SA CL LO	NCM
78-1.7	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
78-1.7	2	32-42	7.5YR 5/2	BR	SA CL LO	NCM
78-1.8	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
78-1.8	2	20-30	7.5YR 5/2	BR	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
78-1.9	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
78-1.9	2	25-35	7.5YR 5/4	BR	SA CL LO	NCM
78-1.10	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
78-1.10	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
78-1.11	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
78-1.11	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
79-1.1	1	0-38	10YR 4/2	DK GR BR	SI LO	NCM
79-1.1	2	38-48	10YR 5/6	YL BR	SI CL LO	NCM
79-1.2	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.2	2	37-37	10YR 5/6	YL BR	SI CL LO	NCM
79-1.3	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.3	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM
79-1.4	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.4	2	27-37	7.5YR 5/4	BR	SA CL LO	NCM
79-1.5	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.5	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
79-1.6	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.6	2	28-38	7.5YR 5/4	BR	SA CL LO	NCM
79-1.7	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
79-1.7	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
79-1.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-1.8	2	30-40	7.5YR 5/4	BR	SI CL LO	NCM
79-1.9	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.9	2	27-37	7.5YR 5/4	BR	SI CL LO	NCM
79-1.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-1.10	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.11	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
79-1.11	2	32-42	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.12	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-1.12	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.13	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-1.13	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.14	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-1.14	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.15	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-1.15	2	29-39	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.16	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.16	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.17	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
79-1.17	2	26-36	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.18	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
79-1.18	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.19	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-1.19	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.20	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
79-1.20	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.21	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
79-1.21	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
79-1.22	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.22	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.23	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
79-1.23	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.24	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
79-1.24	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.25	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
79-1.25	2	33-43	7.5YR 5/4	BR	SA LO	NCM
79-1.26	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
79-1.26	2	32-42	7.5YR 5/4	BR	SA LO	NCM
79-1.27	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.27	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.28	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
79-1.28	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.29	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-1.29	2	30-40	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.30	1	0-35	10YR 4/2	DK GR BR	SI LO	NCM
79-1.30	2	35-45	10YR 6/3 10YR 6/8	PALE BR BR YL	SA CL LO	NCM
79-1.31	1	0-34	10YR 4/2	DK GR BR	SI LO	NCM
79-1.31	2	34-44	10YR 5/3	BR	SI CL	NCM
79-1.32	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
79-1.32	2	26-36	10YR 5/3	BR	SI CL	NCM
79-1.33	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
79-1.33	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.34	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
79-1.34	2	31-41	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.35	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.35	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36A	1	0-24	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36A	2	24-34	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36B	1	0-23	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36B	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36C	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36C	2	33-43	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36D	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36D	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.36E	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
79-1.36E	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.37	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
79-1.37	2	20-30	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.38	1	0-23	10YR 5/2	GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
79-1.38	2	23-33	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.39	1	0-22	10YR 5/2	GR BR	SI LO	NCM
79-1.39	2	22-32	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.40	1	0-17	10YR 5/2	GR BR	SI LO	NCM
79-1.40	2	17-27	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.41	1	0-17	10YR 5/2	GR BR	SI LO	NCM
79-1.41	2	17-27	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.42	1	0-14	10YR 5/2	GR BR	SI LO	NCM
79-1.42	2	14-25	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.43	1	0-25	10YR 5/2	GR BR	SI LO	NCM
79-1.43	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.44	1	0-25	10YR 5/2	GR BR	SI LO	NCM
79-1.44	2	25-35	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.45	1	0-23	10YR 5/2	GR BR	SI LO	NCM
79-1.45	2	23-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.46	1	0-28	10YR 5/2	GR BR	SI LO	NCM
79-1.46	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL	NCM
79-1.47	1	0-28	10YR 5/2	GR BR	SI LO	NCM
79-1.47	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
79-1.48	1	0-27	10YR 5/2	GR BR	SI LO	NCM
79-1.48	2	27-37	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
79-1.49	1	0-28	10YR 5/2	GR BR	SI LO	NCM
79-1.49	2	28-38	10YR 6/3 10YR 6/8	PALE BR BR YL	SI CL LO	NCM
79-2.1	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
79-2.1	2	26-36	7.5YR 5/4	BR	SA CL LO	NCM
79-2.2	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-2.2	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
79-2.3	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-2.3	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
79-2.4	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-2.4	2	29-39	7.5YR 5/4	BR	SA CL LO	NCM
79-2.5	1	0-31	10YR 4/2	DK GR BR	SI LO	NCM
79-2.5	2	31-41	7.5YR 5/4	BR	SA CL LO	NCM
79-2.6	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-2.6	2	29-39	7.5YR 5/4	BR	SA CL LO	NCM
79-2.7	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
79-2.7	2	25-35	7.5YR 5/4	BR	SA CL LO	NCM
79-2.8	1	0-30	10YR 4/2	DK GR BR	SI LO	NCM
79-2.8	2	30-40	7.5YR 5/4	BR	SA CL LO	NCM
79-2.9	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
79-2.9	2	32-42	7.5YR 5/4	BR	SA CL LO	NCM
79-2.10	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
79-2.10	2	29-39	7.5YR 5/4	BR	SA CL LO	NCM
79-2.11	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
79-2.11	2	25-35	7.5YR 5/4	BR	SA CL LO	NCM
80-1.1	1	0-30	10YR 6/3	PALE BR	CL LO	NCM
80-1.1	2	30-40	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
80-1.2	1	0-30	10YR 6/3	PALE BR	CL LO	NCM
80-1.2	2	30-40	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.3	1	0-34	10YR 6/3	PALE BR	CL LO	NCM
80-1.3	2	34-44	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.4	1	0-30	10YR 6/3	PALE BR	CL LO	NCM
80-1.4	2	30-40	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.5	1	0-28	10YR 6/3	PALE BR	CL LO	NCM
80-1.5	2	28-38	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.6	1	0-29	10YR 6/3	PALE BR	CL LO	NCM
80-1.6	2	29-39	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.7	1	0-27	10YR 6/3	PALE BR	CL LO	NCM
80-1.7	2	27-37	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.8	1	0-28	10YR 6/3	PALE BR	SL LO	NCM
80-1.8	2	28-38	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.9	1	0-29	10YR 6/3	PALE BR	SI LO	NCM
80-1.9	2	29-39	10YR 7/3 10YR 6/8	V PALE BR BR YL	SI CL LO	NCM
80-1.10	1	0-28	10YR 4/1	DK GR	SI LO	NCM
80-1.10	2	28-70	10YR 5/3	BR	SI LO	NCM
80-1.10	3	70-100	10YR 5/3 10YR 6/8	BR BR YL	SA LO	
80-1.11	1	0-29	10YR 4/1	DK GR	SI LO	NCM
80-1.11	2	29-39	10YR 5/3	BR	SI LO	NCM
80-1.12	1	0-35	10YR 4/1	DK GR	SI LO	NCM
80-1.12	2	35-45	10YR 5/3	BR	SI LO	NCM
80-1.13	1	0-35	10YR 4/1	DK GR	SI LO	NCM
80-1.13	2	35-45	10YR 5/3 10YR 6/8	BR BR YL	SA LO	NCM
80-1.14	1	0-48	10YR 4/1	DK GR	SI LO	NCM
80-1.14	2	48-58	10YR 5/3	BR	SI LO	NCM
80-1.15	1	0-42	10YR 4/1	DK GR	SI LO	NCM
80-1.15	2	42-52	10YR 5/3	BR	SI LO	NCM
80-1.16	1	0-40	10YR 4/1	DK GR	SI LO	NCM
80-1.16	2	40-50	10YR 5/3	BR	SI LO	NCM
80-1.17	1	0-38	10YR 4/1	DK GR	SI LO	NCM
80-1.17	2	38-48	10YR 5/2	GR BR	SI LO	NCM
80-1.18	1	0-38	10YR 4/1	DK GR	SI LO	NCM
80-1.18	2	38-48	10YR 5/2	GR BR	SI LO	NCM
80-1.19	1	0-33	10YR 4/1	DK GR	SI LO	NCM
80-1.19	2	33-43	10YR 5/2	GR BR	SI LO	NCM
RADIAL TESTS						
19-SF-10+1N	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-10+1N	2	29-39	7.5YR 5/3	BR	SA LO	NCM
19-SF-10+1S	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-10+1S	2	29-39	7.5YR 5/3	BR	SA LO	NCM
19-SF-10+1E	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-10+1E	2	27-37	7.5YR 5/3	BR	SA LO	NCM
19-SF-10+1W	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
19-SF-10+1W	2	29-39	7.5YR 5/3	BR	SA LO	NCM
19-SF-10+2W	1	0-28	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-10+2W	2	28-38	7.5YR 5/3	BR	SA LO	NCM
19-SF-10+4W	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-10+4W	2	29-39	7.5YR 5/3	BR	SA LO	NCM
19-SF-11+1N	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-11+1N	2	25-35	7.5YR 5/3	BR	SA LO	NCM
19-SF-11+1S	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-11+1S	2	33-43	7.5YR 5/3	BR	SA LO	NCM
19-SF-11+1E	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-11+1E	2	33-43	7.5YR 5/3	BR	SA LO	NCM
19-SF-11+1W	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-11+1W	2	27-37	7.5YR 5/3	BR	SA LO	NCM
19-SF-19+1N	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-19+1N	2	29-39	10YR 6/4	LT YL BR	SI LO	NCM
19-SF-19+1S	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-19+1S	2	27-37	7.5YR 5/3	BR	SI LO	NCM
19-SF-19+1E	1	0-20	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-19+1E	2	20-30	10YR 6/4	LT YL BR	SI LO	NCM
19-SF-19+1W	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
19-SF-19+1W	2	29-39	10YR 6/4	LT YL BR	SI LO	NCM
24-SF-2+1N	1	0-33	10YR 4/2	DK GR BR	SI LO	NCM
24-SF-2+1N	2	33-43	7.5YR 5/3	BR	SI CL LO	NCM
24-SF-2+1S	1	0-29	10YR 4/2	DK GR BR	SI LO	NCM
24-SF-2+1S	2	29-39	7.5YR 5/3	BR	SI CL LO	NCM
24-SF-2+1E	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
24-SF-2+1E	2	32-42	7.5YR 5/3	BR	SI CL LO	NCM
24-SF-2+1W	1	0-32	10YR 4/2	DK GR BR	SI LO	NCM
24-SF-2+1W	2	32-42	7.5YR 5/3	BR	SI CL LO	NCM
24-SF-3+1N	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
24-SF-3+1N	2	28-38	10YR 6/4 10YR 5/8	LT YL BR YL BR	SA LO	NCM
24-SF-3+1S	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
24-SF-3+1S	2	31-41	10YR 6/4 10YR 5/8	LT YL BR YL BR	SA LO	NCM
24-SF-3+1E	1	0-26	10YR 4/2	DK GR BR	SA LO	NCM
24-SF-3+1E	2	26-36	10YR 6/4 10YR 5/8	LT YL BR YL BR	SA LO	NCM
24-SF-3+1W	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
24-SF-3+1W	2	28-38	10YR 6/4 10YR 5/8	LT YL BR YL BR	SA LO	NCM
25-SF-4+1N	1	0-29	10YR 4/2	DK GR BR	LO SA	NCM
25-SF-4+1N	2	29-39	10YR 6/4 10YR 5/6	LT YL BR YL BR	SA	NCM
25-SF-4+1S	1	0-38	10YR 4/2	DK GR BR	LO SA	NCM
25-SF-4+1S	2	38-48	10YR 6/4 10YR 5/6	LT YL BR YL BR	SA	NCM
25-SF-4+1E	1	0-28	10YR 4/2	DK GR BR	LO SA	NCM
25-SF-4+1E	2	28-38	10YR 6/4	LYL BR	SA	NCM
25-SF-4+1W	1	0-36	10YR 4/2	DK GR BR	LO SA	NCM
25-SF-4+1W	2	36-46	10YR 6/4 10YR 5/6	LT YL BR YL BR	SA	NCM
25-SF-5+1N	1	0-27	10YR 4/2	DK GR BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
25-SF-5+1N	2	27-37	10YR 5/6	YL BR	LO SA	NCM
25-SF-5+1S	1	0-29	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-5+1S	2	29-39	10YR 5/6	YL BR	LO SA	NCM
25-SF-5+1E	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-5+1E	2	28-38	10YR 5/6	YL BR	LO SA	NCM
25-SF-5+1W	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-5+1W	2	28-38	10YR 5/6	YL BR	LO SA	NCM
25-SF-6+1N	1	0-31	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-6+1N	2	31-41	10YR 6/6	BR YL	LO SA	NCM
25-SF-6+1S	1	0-28	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-6+1S	2	28-38	10YR 6/4 10YR 5/8	LT YL BR YL BR	LO SA	NCM
25-SF-6+1E	1	0-24	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-6+1E	2	24-34	10YR 6/4	LT YL BR	LO SA	NCM
25-SF-6+1W	1	0-25	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-6+1W	2	25-35	10YR 5/6	YL BR	LO SA	NCM
25-SF-7+1N	1	0-28	10YR 5/3	BR	LO SA	NCM
25-SF-7+1N	2	28-38	10YR 5/6	YL BR	SA	NCM
25-SF-7+1S	1	0-38	10YR 5/3	BR	LO SA	NCM
25-SF-7+1S	2	38-48	10YR 5/6	YL BR	SA	NCM
25-SF-7+1E	1	0-30	10YR 5/3	BR	LO SA	NCM
25-SF-7+1E	2	30-40	10YR 5/6	YL BR	SA	NCM
25-SF-7+1W	1	0-46	10YR 5/3	BR	LO SA	NCM
25-SF-7+1W	2	46-56	10YR 5/6	YL BR	SA	NCM
25-SF-8+1N	1	0-20	10YR 5/3	BR	LO SA	NCM
25-SF-8+1N	2	20-30	10YR 5/6	YL BR	SA	NCM
25-SF-8+1S	1	0-28	10YR 5/3	BR	LO SA	NCM
25-SF-8+1S	2	38-38	10YR 5/6	YL BR	SA	NCM
25-SF-8+1E	1	0-30	10YR 5/3	BR	LO SA	NCM
25-SF-8+1E	2	30-40	10YR 5/6	YL BR	SA	NCM
25-SF-8+1W	1	0-34	10YR 5/3	BR	LO SA	NCM
25-SF-8+1W	2	34-44	10YR 5/6	YL BR	SA	NCM
25-SF-9+1N	1	0-34	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-9+1N	2	34-44	10YR 5/4	YL BR	SA LO	NCM
25-SF-9+1S	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-9+1S	2	30-40	10YR 5/4	YL BR	SA LO	NCM
25-SF-9+1E	1	0-30	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-9+1E	2	30-40	10YR 5/4	YL BR	SA LO	NCM
25-SF-9+1W	1	0-32	10YR 4/2	DK GR BR	SA LO	NCM
25-SF-9+1W	2	32-42	10YR 5/4	YL BR	SA LO	NCM
25-SF-16+1N	1	0-28	10YR 5/3	BR	LO SA	NCM
25-SF-16+1N	2	28-38	10YR 5/6	YL BR	SA	NCM
25-SF-16+1S	1	0-33	10YR 5/3	BR	LO SA	NCM
25-SF-16+1S	2	33-43	10YR 5/6	YL BR	SA	NCM
25-SF-16+1E	1	0-28	10YR 5/3	BR	LO SA	NCM
25-SF-16+1E	2	28-38	10YR 5/6	YL BR	SA	NCM
25-SF-16+1W	1	0-33	10YR 5/3	BR	LO SA	NCM
25-SF-16+1W	2	33-43	10YR 5/6	YL BR	SA	NCM
25-SF-17+1N	1	0-30	10YR 5/3	BR	LO SA	NCM
25-SF-17+1N	2	30-40	10YR 5/6	YL BR	SA	NCM
25-SF-17+1S	1	0-38	10YR 5/3	BR	LO SA	NCM
25-SF-17+1S	2	38-48	10YR 5/6	YL BR	SA	NCM
25-SF-17+1E	1	0-29	10YR 5/3	BR	LO SA	NCM
25-SF-17+1E	2	29-39	10YR 5/6	YL BR	SA	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
25-SF-17+1W	1	0-29	10YR 5/3	BR	LO SA	NCM
25-SF-17+1W	2	29-39	10YR 5/6	YL BR	SA	NCM
25-SF-18+1N	1	0-37	10YR 5/3	BR	LO SA	NCM
25-SF-18+1N	2	37-47	10YR 5/6	YL BR	SA	NCM
25-SF-18+1S	1	0-30	10YR 5/3	BR	LO SA	NCM
25-SF-18+1S	2	30-40	10YR 5/6	YL BR	SA	NCM
25-SF-18+1E	1	0-36	10YR 5/3	BR	LO SA	NCM
25-SF-18+1E	2	36-46	10YR 5/6	YL BR	SA	NCM
25-SF-18+1W	1	0-31	10YR 5/3	BR	LO SA	NCM
25-SF-18+1W	2	31-41	10YR 5/6	YL BR	SA	NCM
25-SF-20+1N	1	0-28	10YR 4/3	BR	LO SA	NCM
25-SF-20+1N	2	28-38	10YR 6/4 10YR 5/8	LT YL BR YL BR	LO SA	NCM
25-SF-20+1S	1	0-20	10YR 4/3	BR	LO SA	NCM
25-SF-20+1S	2	20-30	10YR 6/4 10YR 5/8	LT YL BR YL BR	LO SA	NCM
25-SF-20+1E	1	0-27	10YR 4/3	BR	LO SA	NCM
25-SF-20+1E	2	27-37	10YR 6/4 10YR 5/8	LT YL BR YL BR	LO SA	NCM
25-SF-20+1W	1	0-30	10YR 4/3	BR	LO SA	NCM
25-SF-20+1W	2	30-40	10YR 6/4 10YR 5/8	LT YL BR YL BR	LO SA	NCM
25-SF-21+1N	1	0-36	10YR 4/3	BR	LO SA	NCM
25-SF-21+1N	2	36-46	10YR 4/4	DK YL BR	SA	NCM
25-SF-21+1S	1	0-34	10YR 4/3	BR	LO SA	NCM
25-SF-21+1S	2	34-44	10YR 6/4	LT YL BR	SA	NCM
25-SF-21+1E	1	0-35	10YR 4/3	BR	LO SA	NCM
25-SF-21+1E	2	35-45	10YR 6/4	LT YL BR	SA	NCM
25-SF-21+1W	1	0-34	10YR 4/3	BR	LO SA	NCM
25-SF-21+1W	2	34-44	10YR 6/4	LT YL BR	SA	NCM
25-SF-22+1N	1	0-33	10YR 4/3	BR	LO SA	NCM
25-SF-22+1N	2	33-43	10YR 6/4	LT YL BR	SA	NCM
25-SF-22+1S	1	0-25	10YR 4/3	BR	LO SA	NCM
25-SF-22+1S	2	25-35	10YR 6/4	LT YL BR	SA	NCM
25-SF-22+1E	1	0-30	10YR 4/3	BR	LO SA	NCM
25-SF-22+1E	2	30-40	10YR 4/6	DK YL BR	SA	NCM
25-SF-22+1W	1	0-33	10YR 4/3	BR	LO SA	NCM
25-SF-22+1W	2	33-43	10YR 6/4	LT YL BR	SA	NCM
25-SF-23+1N	1	0-28	10YR 4/3	BR YL	SA LO	NCM
25-SF-23+1N	2	28-38	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-23+1S	1	0-34	10YR 4/3	BR	SA LO	NCM
25-SF-23+1S	2	34-44	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-23+1E	1	0-30	10YR 4/3	BR	SA LO	NCM
25-SF-23+1E	2	30-40	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-23+1W	1	0-32	10YR 4/3	BR	SA LO	NCM
25-SF-23+1W	2	32-42	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-24+1N	1	0-30	10YR 4/3	BR	SA LO	NCM
25-SF-24+1N	2	30-40	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-24+1S	1	0-26	10YR 4/3	BR	SA LO	NCM

Shovel Test Log for Hecate Cider Solar Phase IB

Transect/ STP	Stratum	Depth (cm)	Munsell	Soil Color	Soil Description	Comments
25-SF-24+1S	2	26-36	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-24+1E	1	0-29	10YR 4/3	BR	SA LO	NCM
25-SF-24+1E	2	29-39	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
25-SF-24+1W	1	0-27	10YR 4/3	BR	SA LO	NCM
25-SF-24+1W	2	27-37	10YR 6/4 10YR 6/8	LT YL BR BR YL	SA	NCM
29-SF-12+1N	1	0-27	10YR 4/2	DK GR BR	SI LO	NCM
29-SF-12+1N	2	27-37	7.5YR 5/2	BR	SA CL LO	NCM
29-SF-12+1S	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
29-SF-12+1S	2	26-36	7.5YR 5/2	BR	SA CL LO	NCM
29-SF-12+1E	1	0-25	10YR 4/2	DK GR BR	SI LO	NCM
29-SF-12+1E	2	25-35	7.5YR 5/2	BR	SA CL LO	NCM
29-SF-12+1W	1	0-26	10YR 4/2	DK GR BR	SI LO	NCM
29-SF-12+1W	2	26-36	7.5YR 5/2	BR	SA CL LO	NCM
31-3.10+1N	1	0-32	10YR 4/1	DK GR	SI LO	2 window glass; 3 whiteware; 2 decorated whiteware; 1 redware; brick fragments (not collected)
31-3.10+1N	2	32-42	10YR 3/3	DK BR	SA LO	NCM
31-3.10+3N	1	0-31	10YR 4/1	DK GR	SI LO	11 cat bone pieces; 1 metal; 2 redware; 1 whiteware; 1 bottle glass
31-3.10+3N	2	31-41	10YR 3/3	DK BR	SA LO	NCM
31-3.10+1S	1	0-27	10YR 4/1	DK GR	SI LO	1 bottle gass
31-3.10+1S	2	27-37	10YR 3/3	DK BR	SA LO	NCM
31-3.10+3S	1	0-28	10YR 4/2	DK GR BR	SI LO	5 pieces clay flowerpot; 1 whiteware
31-3.10+3S	2	28-38	10YR 4/4	DK YL BR	SA LO	NCM
31-3.10+1E	1	0-29	10YR 4/2	DK GR BR	SI LO	2 window glass; 1 cut nail

Appendix C. Artifact Catalog

Hecate Cider Solar Phase IB Artifact Catalog (Precontact)

Parcel	Surface Find	Strat.	Material Class	Artifact Type	Count	Secondary Type	Material	Additional Description
19	SF-10	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
19	SF-10 (1mW)	1	Lithic	debitage	2	flake fragment	Onondaga chert	
19	SF-11	Surface	Lithic	debitage	1	primary reduction flake	Onondaga chert	
19	SF-11	Surface	Lithic	debitage	4	flake fragment	Onondaga chert	
19	SF-11	Surface	Lithic	debitage	4	shatter	Onondaga chert	
19	SF-11	Surface	Lithic	debitage	1	core	Onondaga chert	fragment
19	SF-19	Surface	Lithic	debitage	1	shatter	Onondaga chert	
24	SF-2	Surface	Lithic	debitage	1	secondary reduction flake	Onondaga chert	
24	SF-3	Surface	Lithic	debitage	1	tertiary reduction flake	Onondaga chert	
25	SF-4	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	likely primary reduction
25	SF-4	Surface	Lithic	debitage	1	shatter	Onondaga chert	
25	SF-4	Surface	Lithic	debitage	1	tertiary reduction flake	Onondaga chert	
25	SF-5	Surface	Lithic	debitage	1	shatter	Onondaga chert	heat spall
25	SF-6	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
25	SF-6	Surface	Lithic	debitage	1	core	Onondaga chert	
25	SF-6	Surface	Lithic	debitage	1	shatter	Onondaga chert	
25	SF-6	Surface	Lithic	debitage	1	primary reduction flake	Onondaga chert	
25	SF-7	Surface	Lithic	debitage	1	Core	Onondaga chert	
25	SF-7	Surface	Lithic	debitage	1	secondary reduction flake	Onondaga chert	
25	SF-7	Surface	Lithic	debitage	1	tertiary reduction flake	Onondaga chert	
25	SF-7	Surface	Lithic	debitage	1	shatter	Onondaga chert	
25	SF-8	Surface	Lithic	tool	1	projectile point	Onondaga chert	broken, midsection
25	SF-8	Surface	Lithic	debitage	3	flake fragment	Onondaga chert	
25	SF-9	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
25	SF-16	Surface	Lithic	debitage	2	flake fragment	Onondaga chert	
25	SF-18	Surface	Lithic	debitage	1	tertiary reduction flake	Onondaga chert	
25	SF-17	Surface	Lithic	tool	1	biface	Onondaga chert	triangular knife or possible Madison projectile point
25	SF-20	Surface	Lithic	tool	1	biface	Onondaga chert	fragment
25	SF-21	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
25	SF-22	Surface	Lithic	debitage	2	tertiary reduction flake	Onondaga chert	
25	SF-23	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
25	SF-24	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	
29	SF-12	Surface	Lithic	debitage	1	tertiary reduction flake	Onondaga chert	
39	SF-13	Surface	Lithic	debitage	1	primary reduction flake	Onondaga chert	
65	SF-1	Surface	Lithic	tool	1	biface	Onondaga chert	small fragment
65	SF-14	Surface	Lithic	tool	1	projectile point	Onondaga chert	tip
70	SF-15	Surface	Lithic	debitage	1	flake fragment	Onondaga chert	heat spall

Key: SF = surface find

Hecate Cider Solar Phase IB Artifact Catalog (Historic)

Provenience	Strat.	Material Class	Artifact Type	Count	Secondary Type	Comments
Parcel 31	Surface scatter	glass	bottle, Coke, 8 ounce	1	aqua	complete, marked base ENIO OKLA, post embossing of Coke Script, missing applied color label (ACL), c. 1960-2000
Parcel 31	Surface scatter	ceramic	refined earthenware, cup with handle	1	mint green	3.5 inch diameter, rounded form with vertical segments like a pumpkin. Missing attached handle and part of base
Parcel 31	Surface scatter	ceramic	ironstone, "Willow" transfer print	2	blue	bowl rim, mends, Willow pattern, 7 x 12 cm, early 20th century
Parcel 31	Surface scatter	glass	bottle, Gatorade beverage	1	clear	complete, embossed GATORADE local on pebbled shoulder; base possibly date stamped 10..90 (Oct 1990?)
Parcel 31	Surface scatter	glass	bottle, beer, stubbie shaped	1	amber	complete, NO DEPOSIT - NO REFILL on base, threaded finish, barrel shaped body with tapered neck, threaded finish, JJ makers mark, possibly dated coded [19]69
Parcel 31	Surface scatter	ceramic	stoneware, Bristol glazed crock, 3 gallon	1	white/brown	20% present, straight wall, 11-inch diameter, brown slip top; white Bristol slip mid and lower portion; Crown with superimposed "3" ink-stamped exterior (likely Robinson Ransbottom mark, 1900+)
Parcel 31: STP 3.10	1	ceramic	ironstone, transfer print	1	blue	probable tableware, 2.5 cm (c. 1850-1930)
Parcel 31: STP 3.10	1	ceramic	ironstone	1		probable tableware, 3.4 cm (c. 1842-1930)
Parcel 31: STP 3.10	1	glass	window	2		under 4.5 cm
Parcel 31: STP 3.10	1	ceramic	redware, lead glazed	2		under 2.7 cm

Appendix D. OPRHP Site Forms

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