

# NPS Engineering Evaluation/ Cost Analysis Field Activities Report

**Virgin Islands National Park** 

Caneel Bay Resort Site St. John, USVI EDL Number 5SER3346

Prepared by



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# **Table of Contents**

Li	ist of Figures	ii
	ist of Tables	
	ist of Appendices	
	Introduction	
	Summary of Completed Field Activities and Deviations from the SAP	
	Documenting Deviations from the SAP	
4	Status of IDW Storage and Disposition	4-8

# **List of Figures**

Figure 1 Sample Locations – Investigation Areas

Figure 2 Sample Locations - Buildings

## **List of Tables**

Table 1 Field Activities Summary

Table 2 Summary of Environmental Samples

# **List of Appendices**

Appendix 1 Field Forms and Notes

Appendix 2 Photographs of Field Activities

Appendix 3 Daily Reports

Appendix 4 Calibration Sheets

# **List of Abbreviations and Acronyms**

ACM Asbestos-containing materials

AST Aboveground storage tank

bgs Below ground surface

CST Contaminated Site Team

DU Decision unit

EE/CA Engineering Evaluation/Cost Analysis

EMI Electromagnetic Induction

ft Foot or feet

GIS Geographic Information Service

GPR Ground penetrating radar

GPS Global positioning system

IDW Investigation-derived waste

in Inch

ISM Incremental sampling methodology

NPS National Park Service

PAH Polycyclic aromatic hydrocarbon

PCB Polychlorinated biphenyl

RCRA Resource Conservation and Recovery Act

SAP Sampling and Analysis Plan

SVOC Semi-volatile organic compound

TCLP Toxicity Characteristic Leaching Procedure

UST Underground storage tank
VIIS Virgin Islands National Park

VOC Volatile organic compound

WWTP Wastewater treatment plant

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## 1 Introduction

This document serves as the Field Activities Report for Engineering Evaluation/Cost Analysis (EE/CA) field investigation activities at the Caneel Bay Resort Site (Site), located within the National Park Service (NPS) Virgin Islands National Park (VIIS).

The Site includes three primary areas where environmental concerns were identified in previous assessments:

- **Area 1**: approximately 1.7 acres in the vicinity of the wastewater treatment plant (WWTP) structures, located on the southeastern side of the resort. Of this total area, NPS investigated approximately 0.8 acres, which is primarily the gravel staging area.
- **Area 2**: approximately 5.4 acres that encompass the engineering, maintenance, landscaping, and fuel buildings and facilities, located to the southwest of the WWTP.
- **Area 3**: approximately 1.5 acres of land (undeveloped except for a donkey shelter) that will be referred to in this document as the debris landfill to reflect historical usage, located immediately east of Honeymoon Beach.

This investigation also included activities related to building materials and potentially buried wastes outside the three areas described above, but within the Resort property. These areas were not identified as part of the Site in the SAP.

Based on changes to the Site since previous assessments, NPS conducted additional limited investigation activities at the Site.

The chemicals of potential concern, henceforth referred to as "study constituents<sup>1</sup>" at the Site identified in the Sampling and Analysis Plan (SAP) were:

- Resource Conservation and Recovery Act (RCRA) 8 and 13 Priority Pollutant metals in all media – all areas. These metals include antimony, arsenic, barium, beryllium, barium, cadmium, chromium (III and VI), copper, lead, mercury, nickel, selenium, silver, thallium, and zinc.
- Volatile organic compounds (VOCs) in surface soil near aboveground storage tanks and in debris landfill contents, and in groundwater – Areas 2 and 3
- Polychlorinated biphenyls (PCBs) in soil (debris landfill contents) and groundwater near the debris landfill – Area 3
- Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals, VOCs, semi-volatile organic compounds (SVOCs), and pesticides in soil (debris landfill contents) – Area 3.

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<sup>&</sup>lt;sup>1</sup> The SAP used the terminology Contaminants of Potential Concern (COPCs), but the Human Health Risk Assessment uses the same term to identify analytes that pose an unacceptable risk. For clarity, "study constituents" is used in the EE/CA report to describe all analytes in the investigation.

RCRA 8 metals include: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver.

- Polycyclic aromatic hydrocarbons (PAHs) in surface soil and debris landfill contents, and in groundwater – all areas
- Pesticides in soil and debris landfill contents, and in groundwater all areas

Asbestos in surface soil at the debris landfill was not identified in the SAP as a study constituent because it was not evident at that time that asbestos had been released to soil.

The purpose of this field investigation was to provide sufficient data of adequate quality to complete an EE/CA to decide if response actions are needed to address unacceptable risks at the Site and, if warranted, identify a recommended removal action alternative for the Site. NPS will use data collected during this field investigation to decide if removal actions are needed to address unacceptable risks at the Site and, if warranted, identify a recommended removal action alternative. The field investigation was designed to answer the Principal Decision Questions and Estimation Questions enumerated in Section 2, below.

VHB completed the EE/CA field investigation in February of 2021 under contract to NPS (Blanket Purchase Agreement No. P16PA00039; Call Order No. P16PB00350).

# 2 Summary of Completed Field Activities and Deviations from the SAP

Field work at the Site commenced on February 11, 2021 and was completed on February 25, 2021. The following staff were present for all or part of the field work; a list of activities on each day is provided in Table 1.

- Ben Deede, VHB Field Manager
- Bob Osborne, VHB Site Safety Officer
- Jose Padrino, VHB Surveyor
- Kelly Kachurak NPS Representative
- Sabrina Diaz, NPS VIIS NPS Representative
- David Horner, NPS VIIS NPS Representative
- Brad Dow Contracted Caneel Bay Resort Representative
- Fred lannazzi Contracted Caneel Bay Resort Representative
- Javier J. Bidot Associates, PSC Ground penetrating radar (GPR) and utility locating surveyors
- On-Site Environmental Environmental drillers certified in the USVI.

Field work consisted of the following activities, itemized according to the related Principal Decision Questions. In some cases, field conditions required VHB to deviate from the SAP. Deviations related to each element of the investigation are included in the summary below.

- Decision Question 1: Has the distribution of study constituents across the Site been adequately delineated such that human health and ecological risks can be quantified?
  - All field work described in this section is related to this decision question.
- Decision Question 2: Are concentrations of study constituents present in Site surface soil posing an unacceptable potential for risk to human and/or ecological receptors?
  - VHB collected surface soil samples by Incremental Sampling Methodology (ISM) in Areas 1, 2, and 3. Three replicate samples were collected from each decision unit (DU), which were approximately 0.25 acres or smaller. As noted in the deviations section, VHB added four DUs based on field observations. In total, VHB sampled 13 Site DUs and 2 reference DUs. Area 1 included IA-1-01 through 04, Area 2 included IA-2-01 through 05, and Area 3 included IA-3-01 through 04. These shallow soil samples were analyzed for metals, PAHs, pesticides, and pH at all locations. Area 3 samples were also analyzed for PCBs. Samples from one DU in Area 2, in the vicinity of the aboveground storage tanks (ASTs) and fuel pump, were additionally analyzed for VOCs.
  - VHB used a Geographic Information Service (GIS)-based map and global positioning system (GPS) to locate the DU boundaries. In some cases, DUs were adjusted from their proposed extents due to field conditions (e.g. actual debris landfill/staging area extents, the presence of previously unmapped buildings, concrete pads, or structures, and the presence of debris piles. VHB surveyed or used GPS to record actual field DU extents.
  - Deviations from the SAP.
    - As noted above, some DUs were adjusted from their proposed due to field conditions, including the presence of debris piles. Additionally, the widespread presence of debris in some areas limited soil access and constricted sample increment collection locations.
    - NPS and VHB observed an apparent wash (i.e., a channel created by erosion) along the eastern and southern sides of the debris landfill, outside the brush berm. The wash extended from a former quarry area and drained downhill towards Honeymoon Beach. Exposed waste was observed in the debris landfill face along the wash. Additionally, based on the presence of salt deposits, three possible seeps that would drain to the wash were observed along the debris landfill face in the areas of exposed waste. The seeps were not wet during the field work. To assess the nature and extent of contamination that may have been discharged from the debris landfill, NPS added one ISM surface soil DU to the area that encompassed the three seeps, and another ISM surface soil DU to the bottom of the wash channel downhill from the seeps.
    - While marking out the ISM sampling boundaries in Area 1, VHB encountered previously unobserved conditions. At least 12 partially buried and rusted

drums were observed in the eastern portion of the gravel staging area, in the same area as identified in the 2017 Removal Site Evaluation report. Some of the drums appear to have contained washed pebbles. Dried paint, apparently released directly to the ground surface, was observed in the southern portion of the gravel staging area. NPS elected adjust the boundaries of the ISM DUs to avoid both the drums and paint. VHB created separate surface soil DUs at each of these two areas.

- The sample replicates from two ISM DUs in Area 2 were mistakenly analyzed for PCBs. PCBs were not study constituents in Area 2, but the Chain of Custody was marked in error. The analytical results will be reported.
- Decision Question 3: Are concentrations of study constituents present in soil in the debris landfill posing an unacceptable potential for risk to human and/or ecological receptors?
  - VHB advanced 11 soil borings (identified as SC-3-##) to refusal in the debris landfill in Area 3. Discrete samples were collected at 10 of the soil boring locations. Shallow refusal was encountered at approximately 1.5 feet below ground surface (ft bgs) at SC-3-05 and samples were not collected. Samples were collected from shallow (near ground surface to approximately 3 ft bgs) and deep intervals (3 ft bgs to 6 ft bgs or refusal, if shallower). These shallow and deep samples were analyzed for all study constituents.
- Decision Question 4: Are concentrations of study constituents present in Site groundwater posing an unacceptable potential for risk to human and/or ecological receptors?
  - VHB developed the existing monitoring well in Area 2, MW-1, and the well slowly recharged. VHB observed that the well screen extends to the surface and the well may collect rainwater from the surrounding concrete pad. The water level did not recover completely, and the volume of water in the well was sufficient only to collect samples for analysis of VOCs, metals, and PAHs. There was insufficient water for the pesticide sample or quality control samples.
  - VHB logged soil cores as they were collected. Completed boring logs will be included in the Investigation Summary Report. No evidence of soil moisture suggesting the presence of groundwater was observed at any boring location. For confirmation, On-Site Environmental installed temporary piezometers using 1-in diameter PVC riser pipe at three boring locations in Area 2: SC-2-01, SC-2-02, SC-2-03 (proposed well locations MW-2-01 through MW-2-03). VHB checked each piezometer for water in subsequent days and found all to be dry. NPS elected to install one monitoring well (MW-3-01) near the seeps/wash in the debris landfill in Area 3. Although this monitoring well could not be sampled during this field mobilization, it may yield water in a wetter season, potentially providing information regarding contaminant mobility.

- VHB observed visual, olfactory, and photoionization detector (PID) evidence of the presence of petroleum contamination in soil cores collected at two Area 2 boring locations in the vicinity of the fuel pump (SC-2-03 and SC-3-05). Evidence of petroleum contamination was observed from between 3.5 and 5 ft bgs to near boring refusal at between 13 and 23 ft bgs. As discussed above, no wells were installed at these locations.
- Deviations from the SAP.
  - For reasons described above, VHB collected only one groundwater sample, and installed one monitoring well, which was dry.
- Decision Question 5: Do study constituent concentrations in Site soil exceed study constituent concentrations in reference/background soil samples?
  - On-Site Environmental advanced three soil cores, SC-Ref-01, SC-Ref-02, and SC-Ref-03, in the reference area to the northeast of the debris landfill. Steep slopes, dense vegetation, and rocky outcrops limited the potential drilling locations. All three cores were advanced to refusal, which was between 0.5 ft and 3 ft bgs. VHB collected discrete soil samples from these locations for analyses listed in Table 2.
  - VHB collected ISM surface soil samples from two reference DUs. The IA-Ref-01 DU was situated between Area 1 and Area 2. The IA-Ref-02 DU was moved to encompass the SC-Ref coring locations because steep slopes, rocky terrain, and dense vegetation limited access to the planned reference area farther to the northeast.
  - Deviations from the SAP.
    - Shallow refusal (0.5 to 3 ft bgs) was encountered at all background soil boring locations. Consequently, soil sampling was limited to shallow intervals. Rock outcrops surrounding the drilling area suggested that refusal was on rock.
    - As discussed for Decision Question 4, evidence of petroleum contamination was observed in the soil cores collected from boring SC-2-03, near the Area 2 fuel dispenser. To further evaluate the nature and extent of petroleum contamination in this area, VHB advanced an additional boring in the road to the north of the fuel dispenser. While further investigation across the road was considered, boring locations were limited by the extents of the predrilling subsurface utility survey. Multiple utilities had been identified beneath the roadway within the utility survey area and the potential for other utilities beyond that area, including piping associated with the currently operating desalination plant, were unknown.
- Decision Question 6: Do study constituents in groundwater downgradient of potential source areas exceed screening levels?
  - Deviations from the SAP.

- As detailed for Decision Question 4, no monitoring wells were installed downgradient of potential source areas because no cores indicated the presence of groundwater at the time of the field work.
- Decision Question 7: Are the study constituents detected in groundwater above screening levels related to a release on Site, or are they consistent with local background/reference concentrations?
  - Deviations from the SAP.
    - As detailed for Decision Question 4, no reference monitoring wells were installed because no cores indicated the presence of groundwater at the time of the field work.
- Decision Question 8: Is the soil in the debris landfill characterized as hazardous by chemical concentration?
  - VHB collected sample of soil from within the waste interval for analysis of waste characterization parameters VOCs, semi-VOCs, metals, and pesticides by TCLP from 9 of 11 boring locations within the debris landfill. Shallow refusal was encountered at approximately 1.5 ft bgs at SC-3-05 and samples were not collected. Due to low core recovery, waste characterization samples were not collected at SC-3-09. Evidence of waste was observed at all 11 boring locations.
- Decision Question 9: Is there evidence of an underground storage tank (UST) at Cottage 7?
  - VHB inspected the Cottage 7 grounds and basement, which was identified as the former bomb shelter by Brad Dow. A tank level gauge with suspected metallic fuel lines leading through an exterior wall were observed in the basement. Using electromagnetic induction (EMI), Javier J. Bidot Associates traced the metallic lines outside the structure; the signal was lost under several air conditioning units. Open areas around the metallic lines and Cottage 7 were scanned using GPR; however, access was limited due to dense vegetation, debris, and the air conditioning units.
- Decision Question 10: Is there visual evidence of asbestos-containing materials (ACM) within and around Site structures at the resort that may be impacting the environment?
  - VHB surveyed structures and debris across the resort for evidence of ACM. Building materials with exposed visible fibers (possibly asbestos), including roofing material, wallboard, ceiling tile, plaster, ceramic tile, insulation, and pipe, were observed within structures and scattered around the resort as debris. Additionally, other materials were observed that may contain asbestos but did not show visible fibers, including tile, grout, mastic, were observed in structures and in debris piles in Area 1. Roofing materials, including tar paper with exposed visible fibers, were the most widely scattered debris and were observed across many areas of the resort, often far from structures. Sheet metal roofing was also observed submerged in Hawksnest Bay. No sampling of building materials for laboratory analysis was performed.
  - Prior to other sampling activities at the debris landfill, VHB collected eight discrete surface soil samples (identified as SC-AS-##) and shipped them to EMSL laboratory

for a rapid turnaround asbestos analysis. The results indicated that asbestos was not present in surface soil at concentrations that would require upgrading personal protective equipment during sampling or canceling ISM soil preparation at the laboratory. Asbestos was identified in one sample at a concentration of 0.75%.

- Decision Question 11: Is there evidence that known asbestos pipes are connected to an existing buried network?
  - VHB and Javier J. Bidot Associates conducted a GPR survey for buried piping in the vicinity of the broken asbestos pipe identified during the Level 2 investigation in Area 2. Due to debris and dense vegetation, the asbestos pipe could not be located at the surface at the time of the GPR survey. Two unknown buried pipes were identified in the vicinity during the GPR survey. The broken asbestos pipe identified during the Level 2 investigation was later located during ISM sampling. Approximately 14 feet of pipe was exposed and determined to be running to the west, towards the former greenhouses.
  - During the course of other work at the Site, possible asbestos-cement piping was identified in other areas of Area 2 and in Areas 1 and 3.
- Decision Question 12: Is there visual and/or analytical evidence of lead-based paint on and around Site structures that may be impacting the environment?
  - VHB collected surficial (0 to 0.5 ft bgs) soil discrete samples from the approximate drip lines at buildings and painted debris around the resort. VHB grouped buildings by similarity of construction to evaluate potential lead impacts to soil from lead paint. VHB collected 19 samples and 2 duplicates for analysis of lead in soil (identified as SC-Bldg-xx).
- Estimation Question 1: In the event potential response actions are necessary, what is the areal and vertical extent of the debris landfill at the Site?
  - VHB performed a reconnaissance of the debris landfill to identify the probable horizontal extents of historical filling. Boring locations were arranged in transects across the debris landfill to characterize vertical extents, based on visual observations, of historical filling.
  - A GPR survey was conducted across the debris landfill top; the results were not useful
    in identifying the debris landfill extents. Two linear features, likely associated with
    buried debris, were identified in the center of the debris landfill.
  - VHB conducted a topographic survey around the surface of the debris landfill using a total station. These data will be combined with the soil coring observations to estimate a fill volume.

The locations of discrete soil samples, the ISM decision units, and the monitoring wells are presented on Figure 1.

VHB sent all samples by commercial courier to the laboratories. EMSL of Cinnaminson, New Jersey received all asbestos in soil samples. Eurofins TestAmerica received samples for chemical laboratory analysis. Table 2 includes a list of the samples collected and submitted for laboratory analysis. Validated analytical data are expected in April of 2021.

The contents of the appendices to this report are as follows:

- Appendix 1: completed field forms and notes
- Appendix 2: captioned photographs of field activities
- Appendix 3: daily reports generated during field activities
- Appendix 4: field instrument calibration sheets

# 3 Documenting Deviations from the SAP

VHB identified the need for deviations from the SAP during field work, when changes from our previous site visit in 2016 became evident. To keep the investigation on schedule, VHB identified proposed deviations to the Contaminated Site Team (CST) named in the SAP in an email between one and two days in advance of performing the action. VHB proposed no new laboratory analytical procedures or field methods; hence, VHB did not prepare a SAP addendum. All field deviations were related to the number of samples collected, including collecting additional ISM samples and installing fewer groundwater monitoring wells, as described in Section 2.

A winter storm in mid-February caused a disruption in service at the FedEx courier's hub in Memphis, Tennessee. Some of the coolers VHB shipped to the Eurofins TestAmerica laboratories were delayed as a result. Hold times were not exceeded, but the laboratory received several samples that were at temperatures above the criteria listed in the SAP. These data may be qualified in the data validator's report; at the time of the field work, the data were expected to be usable except for one pH sample, which VHB recollected.

# 4 Status of IDW Storage and Disposition

VHB and On-Site Environmental collected investigation-derived waste (IDW) generated during field activities in 55-gallon steel drums. The drillers constructed a decontamination pad to collect water, but much of this water evaporated in the heat. In addition, only one monitoring well contained water. Thus, the volume of IDW water generated from decontamination, well development, and well purging was much less than anticipated. VHB placed the two drums containing IDW soil and one drum containing a small volume of IDW water on a pallet in the engineering area, as directed by CBIA, and covered the drums with a tarp. VHB collected and submitted IDW soil and water samples to Eurofins TestAmerica for waste characterization.



# **Figures**





Existing Monitoring Well

Investigation Area
Caneel Bay Resort

Source Info: Base map from ESRI/World Imagery (2017). VHB recorded sampling locations in the field by survey or GPS.

Sample Locations Investigation Areas





Sample Location
 Existing Monitoring Well
 Investigation Area
 Caneel Bay Resort

Caneel Bay Resort Site

Source Info: Base map from ESRI/World Imagery (2017). VHB recorded sampling locations in the field by survey or GPS.

Sample Locations Buildings



# **Tables**

**Table 1. Field Activities Summary** 

Date	VHB	NPS	СВІА	Javier J. Bidot Assoc.	On-Site Environmental
2/11/2021	Performed reconnaissance of investigation areas, directed GPR survey, collected surface soil samples at debris landfill for asbestos	Sabrina Diaz, Dave Horner observed	Brad Dow, Fred Iannazzi observed	GPR and buried materials/utilities survey	None
2/12/21	Directed GPR survey, investigated asbestos piping, investigated Cottage 7, investigated storage area below Catchment, shipped samples	None	Brad Dow, Fred Iannazzi observed	GPR and buried materials/utilities survey	Walked proposed drilling areas
2/13/21	Collected soil lead samples, began asbestos survey	None	Brad Dow, Fred Iannazzi observed	None	None
2/14/21	No work	None	None	None	None
2/15/21	Collected soil lead samples, continued asbestos survey, walked site with Kelly, staked out ISM areas	Kelly Kachurak observed	Brad Dow, Fred Iannazzi observed	None	Mobilized rig and equipment to site

Date	VHB	NPS	СВІА	Javier J. Bidot Assoc.	On-Site Environmental
2/16/2021	Completed collection of soil lead samples and asbestos survey, collected ISM samples	Kelly Kachurak observed	Brad Dow, Fred Iannazzi observed	None	Constructed decontamination pad and decontaminated drilling equipment
2/17/2021	Directed soil coring, logged soil cores, adjusted and staked out ISM areas, shipped samples	Kelly Kachurak observed	Brad Dow, Fred Iannazzi observed	None	Cored at debris landfill, experienced rig malfunctions and lost tooling
2/18/2021	Collected ISM samples, adjusted and staked out ISM areas, developed MW- 1 well	Kelly Kachurak observed	Brad Dow, Fred Iannazzi observed	None	None
2/19/2021	Directed soil coring, logged soil cores, collected ISM samples, shipped samples	Kelly Kachurak observed and provided update to CBIA	Brad Dow, Fred Iannazzi observed	None	Made repairs to rig, cored at debris landfill
2/20/2021	Directed soil coring, logged soil cores, staked out and collected ISM samples	None	Brad Dow, Fred Iannazzi observed	None	Cored in Area 2, installed temporary piezometers at proposed well locations
2/21/2021	Directed soil coring, logged soil cores, staked out and collected ISM samples	None	Brad Dow, Fred Iannazzi observed	None	Cored at debris landfill and reference locations

Date	VHB	NPS	СВІА	Javier J. Bidot Assoc.	On-Site Environmental
2/22/2021	Surveyed coring locations and debris landfill topography, directed soil coring, logged soil cores, staked out and collected ISM samples, attempted to ship samples, purged MW 01 dry	None	Brad Dow, Fred Iannazzi observed	None	Cored at debris landfill and reference locations
2/23/2021	Surveyed coring locations and debris landfill topography, directed soil coring, logged soil cores, staked out and collected ISM samples, collected groundwater sample from MW-01, shipped samples	None	Brad Dow, Fred Iannazzi observed	None	Installed monitoring well at debris landfill, closed boring locations
2/24/2021	Checked cores and wells for water, collected ISM samples, collected IDW samples	None	Brad Dow, Fred Iannazzi observed	None	Closed temporary piezometer locations, demobilized
2/25/2021	Met with VIIS, shipped samples, demobilized	None	None	None	None

**Table 2. Summary of Environmental Samples** 

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.	PCBs	PAHs	Pesticides	pH (All Samples are Discrete)
Soil- ISM					·		•	·		
IA-1-01	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/24/21	-	-	-	2/24/21	2/24/21	2/24/21
IA-1-02	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/24/21	-	-	-	2/24/21	2/24/21	2/24/21
IA-1-03	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/24/21	-	-	-	2/24/21	2/24/21	2/24/21
IA-1-04	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/24/21	-	-	-	2/24/21	2/24/21	2/24/21
IA-2-01	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/20/21	-	-	-	2/20/21	2/20/21	2/20/21
IA-2-02	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/20/21	-	-	-	2/20/21	2/20/21	2/20/21
IA-2-03	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/18/21	-	-	2/18/21 (error)	2/18/21	2/18/21	2/18/21
IA-2-04	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/18/21	-	-	2/18/21 (error)	2/18/21	2/18/21	2/18/21
IA-2-05	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/16/21	2/16/21	-	-	2/16/21	2/16/21	2/24/21 (Recollected)
IA-3-01	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/21/21	-	-	2/21/21	2/21/21	2/21/21	2/21/21
IA-3-02	Surface soil	0-0.5 ft	ISM (Reps A to C); B for MS/MSD	2/21/21	-	-	2/21/21	2/21/21	2/21/21	2/21/21
IA-3-03	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/23/21	-	-	2/23/21	2/23/21	2/23/21	2/23/21
IA-3-04	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/23/21	-	-	2/23/21	2/23/21	2/23/21	2/23/21

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.	PCBs	PAHs	Pesticides	pH (All Samples are Discrete)
IA-Ref-01	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/22/21	-	-	2/22/21	2/22/21	2/22/21	2/22/21
IA-Ref-02	Surface soil	0-0.5 ft	ISM (Reps A to C)	2/19/21	-	-	2/19/21	2/19/21	2/19/21	2/19/21

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
Soil- Disci	rete			<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>
SC-AS-01	Soil	0-0.5 ft	Pre-ISM check	-	-	-	-	-	-	-	2/16/21
SC-AS-02	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-03	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-04	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-05	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-06	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-07	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-AS-08	Soil	0-0.5 ft	As above	-	-	-	-	-	-	-	2/16/21
SC-Bldg- 01	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-
SC-Bldg- 02	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-
SC-Bldg- 03	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-
SC-Bldg- 04	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
SC-Bldg- 05	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 06	Discrete soil	0-0.5 ft	Discrete	2/13/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 07	Discrete soil	0-0.5 ft	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 08	Discrete soil	0-0.5 ft	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 09	Discrete soil	0-0.5 ft	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 10	Discrete soil	0-0.5 ft	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 11	Discrete soil	0-0.5 ft	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 12	Discrete soil	0-0.5 ft	Discrete, MS/MSD	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 13	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 14	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 15	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 16	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 17	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 18	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 19	Discrete soil	0-0.5 ft	Discrete	2/16/21 (lead)	-	-	-	-	-	-	-

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
SC-Bldg 101	Discrete soil	0-0.5 ft	Discrete, duplicate of SC-Bldg-08)	2/15/21 (lead)	-	-	-	-	-	-	-
SC-Bldg 102	Discrete soil	0-0.5 ft	Discrete, duplicate of SC-Bldg-03)	2/16/21 (lead)	-	-	-	-	-	-	-
SC-3-01	Soil core	0.5-2.5 ft	Discrete, MS/MSD	2/17/21	2/17/21	-	2/17/21	2/17/21	2/17/21	2/17/21	-
SC-3-01	Soil core	5-6 ft	Discrete	2/17/21	2/17/21	-	2/17/21	2/17/21	2/17/21	2/17/21	-
SC-3-01	Soil core	0-4 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-02	Soil core	0-3 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-02	Soil core	3-6 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-02	Soil core	0-5 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-03	Soil core	0-3 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-03	Soil core	3-6 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-03	Soil core	0-5 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-04	Soil core	0-3 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-04	Soil core	3-6 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-04	Soil core	0-5 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-06	Soil core	0-3 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-06	Soil core	3-6 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-06	Soil core	0-6 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-07	Soil core	0-3 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-07	Soil core	3-6 ft	Discrete	2/19/21	2/19/21	-	2/19/21	2/19/21	2/19/21	2/19/21	-
SC-3-07	Soil core	2-6 ft	Discrete	-	-	2/19/21	-	-	-	-	-
SC-3-08	Soil core	0-3 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-08	Soil core	3-6 ft	Discrete	2/21/21	2/21/21		2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-08	Soil core	0-5 ft	Discrete	-	-	2/21/21	-	-	-	-	-

SAMPLE	MATRIX	DEPTH	TYPE	RCRA 8	VOCs	Waste	PCBs	PAHs	Pesticides	pH (all	Asbestos
ID		(bgs)		and 13		Char.*				samples	
				PPL						are	
				Metals						Discrete)	
SC-3-09	Soil core	0-3 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-09	Soil core	3-6 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-10	Soil core	0-3 ft	Discrete	2/22/21	2/22/21	-	2/22/21	2/22/21	2/22/21	2/22/21	-
SC-3-10	Soil core	3-6 ft	Discrete	2/22/21	2/22/21	-	2/22/21	2/22/21	2/22/21	2/22/21	-
SC-3-10	Soil core	0-5 ft	Discrete	-	-	2/22/21	-	-	-	_	-
SC-3-11	Soil core	0-3 ft	Discrete + MS/MSD	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-11	Soil core	3-6 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-3-11	Soil core	0-5 ft	Discrete	-	-	2/21/21	-	-	-	-	-
SC-Ref-01	Soil core	0-0.5 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	=
SC-Ref-02	Soil core	0-2.6 ft	Discrete	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-Ref-03	Soil core	0-3 ft	Discrete + MS/MSD	2/21/21	2/21/21	-	2/21/21	2/21/21	2/21/21	2/21/21	-
SC-101	Soil core	0-3 ft	Discrete (Duplicate of SC-3-10 (0 3'))	2/22/21	2/22/21	-	2/22/21	2/22/21	2/22/21	2/22/21	-
SC-102	Soil core	3-6 ft	Discrete (Duplicate of SC-3-10 (3 6'))	2/22/21	2/22/21	-	2/22/21	2/22/21	2/22/21	2/22/21	-
IDW-Soil Drum #1	Waste soil	Drum	Discrete	-	-	2/24/21	-	-	-	-	-
IDW-Soil Drum #2	Waste soil	Drum	Discrete	-	-	2/24/21	-	-	-	-	-
EB-Soil 20210215	Discrete – Water off tool	N/A	Discrete	2/15/21 (lead)	-	-	-	-	-	-	-

SAMPLE ID	MATRIX	DEPTH (bgs)	ТҮРЕ	RCRA 8 and 13 PPL Metals	VOCs	Waste Char.*	PCBs	PAHs	Pesticides	pH (all samples are Discrete)	Asbestos
EB-Soil 20210222- 01	Discrete – Water off tool	N/A	Discrete	2/22/21	2/22/21	-	2/24/21	2/22/21	2/24/21	-	-
EB-Soil 20210224	Discrete – Water off tool	N/A	Discrete	2/24/21	2/24/21	-	2/24/21	2/24/21	2/24/21	-	-
MW-01	Ground water	7 ft	Discrete	2/24/21	2/24/21	-	-	2/24/21	-	-	-
IDW- Water	Waste water	Drum	Discrete	-	-	2/24/21	-	-	-	-	-

Notes:

ft = Foot or feet

in = Inch

MS/MSD = Matrix spike/matrix spike duplicate



# **Appendix 1 – Field Forms and Notes**

THE JOHNSON COMPANY, INC. 100 State Street, Suite 600 Montpelier, VT 05602

Phone: (802) 229-4600 Fax: (802) 229-5876 www.johnsonco.com

### Soil Sample Collection Record

lite Location:	ancel Ba	any Resur	+	Project #: 5834  Date: 2-13-	
Weather Condition	aneel B	1 - 800		Time on Site:	
	ND				
. SAMPLE LOC	CATION AND COL	LECTION METH	HODOLOGY INFO	DRMATION:	
					lau
PS coordinates of	f sampling location:	Beach,	Scott Bea	Estate Itse Dining, Hearth ate system:	
	method: Trow				
ample denth range	e (ft):	6"			
b.4 44b 1.=-8	, (19)				
. SAMPLE INFO	RMATION:				
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments	
5c- B1dg -01	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, 4 o z unpreserved	1010	*	
-02	Moistare		1020		
-03			1030		
			1120		
-04			1230		
-04		V	1245		
	1	V	1277		
-05	<b>V</b>	V	1245		
- 05	<b>V</b>	V	1245		
-05	<b>V</b>	<b>V</b>	1245		
- 05	<b>V</b>	V	1249		

THE JOHNSON COMPANY, INC. 100 State Street, Suite 600 Montpelier, VT 05602 Phone: (802) 229-4600 Fax: (802) 229-5876 www.johnsonco.com

### Soil Sample Collection Record

ject Name:	aneel 13	ay NP	.12 S Project	Project #: _58 345
te Location: <u></u>	aneel Bo	y Reso	rt	Date: 2-15-21
	s: Sunny			Time on Site:
mpler:	BND			
SAMPLE LOC	CATION AND COL	LECTION MET	HODOLOGY INFO	DRMATION:
escription of soil	sampling location:	Paradise	Beach, Cott	Rm. ate system:
S coordinates of	f sampling location:_	, = , = , = ,	Coordina	ate system:
mple collection	method: 700	we/		
mple depth rang		t <sub>r</sub>		
SAMPLE INFO	DRMATION:			
Sample depth ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
SC-BIdg. 07	EPA 6020A, Lead, Antimony, Copper, Percent	1 x 100 gram glass, unpreserved	1010	
oe (+Dup)			1055	+ Dup Sc-13/dg-10/
9 <b>9</b>			1400	
10			1410	
11			1445	
12	h	V	1510	
neral comments	/ notes:			

THE JOHNSON COMPANY, INC. 100 State Street, Suite 600 Montpelier, VT 05602 Phone: (802) 229-4600 Fax: (802) 229-5876 www.johnsonco.com

### Soil Sample Collection Record

Project Name: (	aneel B	Say - N	PS Proje orts	C+ Project #: 58345.  Date: 2/16/21
lite Location:	aneel 1x	ry Kes	orls	Date: 2/16/21
	s: 2mmy	-80		Time on Site:
ampler: 3	ND			<del></del>
. SAMPLE LOC	CATION AND COL	LECTION MET	HODOLOGY INFO	PRMATION:
escription of soil	sampling location: {	Equator R	est. , Rmg	154-135, Rms 143-152, 14
PS coordinates of	f sampling location:_	7-13, Gift	Shop, Self Coordina	154-135, Rms 143-152, 1 4 Center ate system:
	method: Trou			
ample depth range	e (ft): 0 - 6"			
. SAMPLE INFO	RMATION:			
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
sc-Bldg- -13	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, unpreserved 4 0 Z.	0900	+ Duplicate sample SC-Bldg-102 (0850)
			0950	-3-
-14				
-14			1020	
			1020	
-15				
-15			1040	
-15 -16 -17 -18			1040	
-15 -16 -17 -18		V	1040	
-15 -16 -17	V		1040	
-15 -16 -17 -18 V -19	V		1040	
-15 -16 -17 -18	notes:		1040	

	Sampling Method کری کارکیا	ટા	
nple Decision Unit ID: ブム・ス	\$1-01		Sample Medium: 5 woly 5.11  Project #: 58345. 21
ject Name: Cau Ba	4-275		Project #: 58345. 21
Location: Sl John 05	2.	Date: 2/24/7	·
ather Conditions:	~ 80°F	1	Time On-Site:
. , , ,	0-1		Time On-Site
npler: RNO			
SAMPLE LOCATION AND COLLE	CTION METHO	DOLOGY INFO	RMATION:
scription of decision unit location:	who	contino	Surerel steams are
or accional and location.		Coordina	11. 114 -
nensions of decision unit:	InSo coll		J.b.c.h
nned GPS coordinates:	LASO COL	wex or	1-24-
roximate increment spacing:	12 27	Total nur	Sample depth range: D-L* mber of increments collected: 40
ement collection method:oroximate increment spacing:  AMPLE INFORMATION:  nalysis Methods	Field or fixed	Type of	10
AMPLE INFORMATION:  lalysis Methods  1. EPA 6020A, Lead, Antimony,	Field or fixed lab analysis Fixed	Type of container 1 x 1 gallon	mber of increments collected: 42
AMPLE INFORMATION:  lalysis Methods  1. EPA 6020A, Lead, Antimony, Copper	lab analysis	Type of container 1 x 1 gallon Ziploc, No	mber of increments collected: 42
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP	lab analysis	Type of container 1 x 1 gallon	mber of increments collected: 42
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury,	lab analysis	Type of container 1 x 1 gallon Ziploc, No	mber of increments collected: 42
MPLE INFORMATION:  lysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles,	lab analysis	Type of container 1 x 1 gallon Ziploc, No	mber of increments collected: 42
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides	lab analysis Fixed	Type of container 1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  inal Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	mber of increments collected: 42
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  inal Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  and Name/Time:	Fixed	Type of container 1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  nal Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  and Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  lalysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  licate Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  alysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  inal Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
AMPLE INFORMATION:  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	A Q Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time:   TA-1-01

Veather Conditions: 5	80°F	Date: 2729	Z(Time (	On-Site:
ampler: Boo				
GAMPA FAR GATTANA AND COLL		DOLOGIA DIEG		
SAMPLE LOCATION AND COLL	2 dl d	DOLOGY INFO	Dortions	C
escription of decision unit location:	017000	CASTON		of gravel stuc
Pimensions of decision unit:	70 1	Coordina	te system:	
lanned GPS coordinates:	Some	o sta	علاكم	
pproximate increment spacing:	es span		Sample depth ra	ts collected: 40
pproximate increment spacing:  SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of	mber of incremen	. 1
pproximate increment spacing:  SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony,	lab analysis	Type of container 1 x 1 gallon	mber of incremen	ts collected: 40
pproximate increment spacing:  SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture	lab analysis	Type of container	mber of incremen	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles,	lab analysis	Type of container  1 x 1 gallon Ziploc, No	mber of incremen	ts collected: 40
pproximate increment spacing:  SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides	lab analysis	Type of container  1 x 1 gallon Ziploc, No	mber of incremen	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	lab analysis	Type of container  1 x 1 gallon Ziploc, No	mber of incremen	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	lab analysis Fixed	Type of container 1 x 1 gallon Ziploc, No preservatives	Sample notes	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	lab analysis Fixed	Type of container 1 x 1 gallon Ziploc, No preservatives	Sample notes	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  iginal Name/Time:	lab analysis Fixed  2 & @ 10	Type of container 1 x 1 gallon Ziploc, No preservatives	Sample notes	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time:	lab analysis Fixed  2 & @ 10	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	ts collected: 40
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time:	lab analysis Fixed  2 & @ 10	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	ts collected: 40

Sample Decision Unit ID:	NSVT IN SOF	Date: Z/24	Time On-Site: ORMATION:
Description of decision unit location: 50	nth west	Corner	(over the embankment) of gravel nea - in Areal ale system:
Planned GPS coordinates: Info	collecte	ell on T	Tablet
Increment collection method: Avger,			Sample depth range: 19-6"
Approximate increment spacing:	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<ol> <li>EPA 6020A, Lead, Antimony, Copper</li> <li>Percent Moisture</li> <li>EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides</li> <li>EPA Method 1312, SPLP Lead, Antimony, Copper</li> </ol>	Fixed	1 x 1 gallon Ziploc, No preservatives	
Original Name/Time: $IA-1-6$ Duplicate Name/Time: $IA-1-6$ Triplicate Name/Time: $IA-1-6$	3 13 @	1620	pH Sample Name/Time: <u>TA-1-03@</u> 1645
General comments / notes: Around	l area	where ;	paint was formerly dimped
Lab Designation: TestAmerica Canton, 41	01 Shuffel Street	NW, North Canto	on, OH 44720 (330)497-9396
Chain of Custody #: 486535		Shipper T	Tracking #:

Sample Decision Unit ID: IA-1 Project Name: Caneel Bo Site Location: St. John Weather Conditions: Sunny Sampler: BIVD	USVI I		Sample Medium: Sandy Silt, grave Project #: 58345.21  Time On-Site:
1. SAMPLE LOCATION AND COLLE			
Description of decision unit location: Ea	istern Po	rtton of 1	Area 1 at toe of slope.
Planned GPS coordinates: Info.	Collect.	ed on T	ablet
2. SAMPLE INFORMATION:  Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, observations, comments
<ol> <li>EPA 6020A, Lead, Antimony, Copper</li> <li>Percent Moisture</li> <li>EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides</li> <li>EPA Method 1312, SPLP Lead, Antimony, Copper</li> </ol>	Fixed	1 x 1 gallon Ziploc, No preservatives	
Original Name/Time: $IA - I - O$ Duplicate Name/Time: $IA - I - O$ Triplicate Name/Time: $IA - I - O$	4 B 01	450	pH Sample Name/Time: IA-1-04-151
General comments / notes: Around c	old alrum	ns (w/p	ee-grovel)- Area-1
Lab Designation: TestAmerica Canton, 41	01 Shuffel Street	NW, North Canto	on, OH 44720 (330)497-9396
Chain of Custody #: 486537		Shipper T	Tracking #:

Incremental Sampling Methodology (ISM) Sample Collection Record

Fax: (802) 229-5876 www.VHB.com

Project Name: Card Bu	1 - 425		Sample Medium:  Project #: 58	
Site Location: (med Bay, ) Weather Conditions: Suny,	51 John D 2501 280-F	Pate: Z/20		n-Site: 1人32
Sampler: 3/1)  1. SAMPLE LOCATION AND COLLEGE	CTION METHO	DOLOGY INFO	RMATION:	
Description of decision unit location:	11- C -	ny.weers	we .	Dougroun - 5 of
	1-	Coordinat	le system:	9. 9
Dimensions of decision unit:	TC.	J. 2 64	ic ayatem	•
lanned GPS coordinates:	~>0 O	(10)	I	
approximate increment spacing:	1251	Total nur	mber of increments	s collected: 40
Approximate increment spacing:  . SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of		observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	Field or fixed lab analysis Fixed			, 50,100,100
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	lab analysis	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	Fixed  A  Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	, 50,100,100
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  priginal Name/Time:	Iab analysis Fixed  A Q B Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Driginal Name/Time:	Iab analysis Fixed  A Q B Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: Criplicate Name/Time:	Iab analysis Fixed  A B C B C	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: Criplicate Name/Time:	A Q B Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: Ouplicate Name/Time: Criplicate Name/Time: Criplicate Name/Time:	A Q B Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes,	observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Ouplicate Name/Time:  Original Comments / notes:  Original Comments / notes:	lab analysis Fixed  A B C C C C C C C C C C C C C C C C C	Type of container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/	observations, comments  /Time: [A-Z-0] @ /
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time: A-2-01  riplicate Name/Time: A-2-01  riplicate Name/Time: A-2-01  reneral comments / notes:	lab analysis Fixed  A B C C C C C C C C C C C C C C C C C	Type of container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/	observations, comments  /Time: [A-Z-0] @ /

Sample Decision Unit ID: ブメーフ	-02		Sample Medium: 5.13
	جرم- مع	5	Project #: 58345. 21
Site Location: Cored Buy	,	ate: 7/70	
	050	ale:	0000
Weather Conditions:	80.1		Time On-Site: 0835
Sampler: 320			F
1. SAMPLE LOCATION AND COLLE			
Description of decision unit location: 2	hrona	et Enguee	my Area Sos BBC elec
Dimensions of decision unit:		Coordinat	e system:
Planned GPS coordinates:	Inso a	Tasul	
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods	/2 SL	Total nun	Sample notes, observations, comments
1. EPA 6020A, Lead, Antimony,	lab analysis Fixed	container 1 x 1 gallon	
Copper  2. Percent Moisture  3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides  4. EPA Method 1312, SPLP Lead, Antimony, Copper	rixed	Ziploc, No preservatives	
Original Name/Time: 74.2.02	A @ 09	00	pH Sample Name/Time: 1.2.02 @ 1.00
Duplicate Name/Time: TA-1-02	300	423	
Triplicate Name/Time: TA-2-07	0	0940	
General comments / notes:		rel el	leaving Instance 77
ت د در این		4000	13 2013
Lab Designation: TestAmerica Canton, 41			

Sample Decision Unit ID: IA-2	-03_		Sample Medium: Pocky Orecanic So. )
	- MPS Pr	oject	Project #: 58345.2
Site Location: Concel By		ate: 2/16/	21 BND
Weather Conditions: Moskly Som	₩ 180°F	7/18/	Time On-Site: //4>
Sampler: 300	77		
Sampler.			
1. SAMPLE LOCATION AND COLLE	CTION METHO	DOLOGY INFO	RMATION:
Description of decision unit location:			
Dimensions of decision unit:		Coordinat	te system:
Planned GPS coordinates:	on day	· ·	
Approximate increment spacing:	o, spec	Total nur	Sample depth range: 0.0.5 mber of increments collected: 40
0	Field or fixed	Type of	
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP			mber of increments collected: 40
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	mber of increments collected: 40
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Original Name/Time:  TA-Z-03  Triplicate Name/Time:  TA-Z-03	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: TA-Z-03@ 115
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Original Name/Time:  TA-Z-33  Triplicate Name/Time:  TA-Z-33	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: TA-Z-03@ 115
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Original Name/Time:  TA-Z-33  Triplicate Name/Time:  TA-Z-33	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: TA-Z-03@ 115
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Original Name/Time:  TA-Z-33  Triplicate Name/Time:  TA-Z-33	Field or fixed lab analysis Fixed  A Q B Q	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: TA- Z-03@ 115

Sample Decision Unit ID: <u>IA-2</u> -	04		Sample Medium: Rocky/gravely 501/ Project #: 58345. 21
Project Name:			Project #: 58345. 21
Site Location:	D	Date: 2-18-	15-
Site Location:  Weather Conditions: P. Cloudy  Sampler: BND / TRO	Breczy	78"	Time On-Site: 0830
Sampler: BND / TRO	/		
I. SAMPLE LOCATION AND COLLEG	CTION METHO	DOLOGY INFO	RMATION:
Description of decision unit location:	ewing in	grouls	· landerefry wer modired
Dimensions of decision unit:	0	Coordinat	te system: 81000 a Lesris
Planned GPS coordinates:	on dask	4	
Manned Of B Googlands			
			Sample depth range: D - O.5
2. SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: TA-2-0	Hab analysis Fixed  4 A / O	container 1 x 1 gallon Ziploc, No	Sample notes, observations, comments  PH Sample Name/Time: TA-2-04 @ 0
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: IA-2-0  Triplicate Name/Time: IA-2-0	Hab analysis Fixed  HA A O	container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/Time: TA-2-04 @ o
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: IA-2-0  Triplicate Name/Time: IA-2-0	Hab analysis Fixed  HA A O	container  1 x 1 gallon Ziploc, No preservatives	
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: IA-2-0  Triplicate Name/Time: IA-2-0	Hab analysis Fixed  HA A O	container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/Time: TA-2-04 @ o
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: IA-2-0  Triplicate Name/Time: IA-2-0	Habanalysis Fixed  HA O	container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/Time: TA-2-04 @ o
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Original Name/Time: IA-2-0	Habanalysis Fixed  HA A O	container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/Time: TA.2-04 @ o
1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA-2-0  Duplicate Name/Time: IA-2-0  Triplicate Name/Time: IA-2-0	Habanalysis Fixed  HA A O	230 230 245 200 200 200 200 200 200 200 200 200 20	pH Sample Name/Time: TA.2-04 @ o

Montpelier, VT 05602

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## Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: <u>IA-2</u>			Sample Medium: Rocky Soil
Project Name: Canee/ Bay N	PS Project	<i>=</i>	Project #: <u>583</u> 45. 21
Site Location: Ceneel Bay	D	ate: 2-16-	-21
Project Name: Canee   Bay N Site Location: Canee   Bay Weather Conditions: P. Cloudy   Sampler: BND   T70	Breezy 6	32° F	Time On-Site: / 600
Sampler: BND / 770	/		
. SAMPLE LOCATION AND COLLEG			
Description of decision unit location: Cle	ared Bru	sh, Kock	yslope
Dimensions of decision unit:		Coordinat	e system:
lanned GPS coordinates: Info	n Table	+	
ncrement collection method: Auger B:	L		Sample depth range: 0 - 0.5
	~12 51	Total num	nber of increments collected:40
. SAMPLE INFORMATION:	Field or fixed	Total num	Sample notes, observations, comments
SAMPLE INFORMATION:		Type of container  1 x 1 gallon Ziploc, No	noci of increments conceted.
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture	Field or fixed lab analysis	Type of container 1 x 1 gallon	noci of increments conceted.
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles,	Field or fixed lab analysis	Type of container  1 x 1 gallon Ziploc, No	noci of increments conceted.
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides	Field or fixed lab analysis	Type of container  1 x 1 gallon Ziploc, No	noci of increments conceted.
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury,	Field or fixed lab analysis	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA - 2 - 05	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	noci of increments conceted.
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA - 2 - 05 Duplicate Name/Time: IA - 2 - 05	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA - 2 - 05 Ouplicate Name/Time: IA - 2 - 05	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA - 2 - 05 Ouplicate Name/Time: IA - 2 - 05 Ouplicate Name/Time: IA - 2 - 05 Outplicate Name/Time	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  TA - 2 - 05  Ouplicate Name/Time: TA - 2 - 05  Triplicate Name/Time:	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: IA - 2 - 05 Ouplicate Name/Time: IA - 2 - 05 Oriplicate Name/Tim	Field or fixed lab analysis Fixed  Fixed  5 B	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: IA-2-05@ 17

Incremental Sampling Methodology (ISM) Sample Collection Record

roject Name: ( 3 - 3 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	~80°F √Sl J~7° ~80°F	Date: 2/2-/2(	Project #:	n: Dry sky s. l. s. o. 3345.21 org. midle
escription of decision unit location: 五	ishen p	orden of	got 2	os 1-767
imensions of decision unit:		Coordinat	e system:	
lanned GPS coordinates:	so on su	sel		
SAMPLE INFORMATION:  Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes	, observations, comments
1. EPA 6020A, Lead, Antimony, Copper	Fixed	1 x 1 gallon Ziploc, No preservatives		
Percent Moisture     EPA Method 1311, TCLP     Volatiles, semivolatiles,     metals including mercury,     pesticides, and herbicides     EPA Method 1312, SPLP     Lead Antimony Conner				
3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	1 1 0		pH Sample Nam	e/Time: <u>IA3-01@</u> /2
3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper riginal Name/Time:	1 B C	1170 (70	2/24/21	e/Time: <u>IA3-01@</u> /2
3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper riginal Name/Time:	1 B C	1100	2/24/21	e/Time: <u>IA3-01@</u> /2
<ol> <li>EPA Method 1311, TCLP         Volatiles, semivolatiles,         metals including mercury,         pesticides, and herbicides</li> <li>EPA Method 1312, SPLP</li> </ol>	1 3 6	1170 (70	० टर्नथ्याच	e/Time: <u>Id3-01@</u> /2
3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper riginal Name/Time:	1 3 6	1170 (70	० टर्नथ्याच	
3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time:	81 3 C 81 C C	1170 (TO) 1200 1140	de zyzulej	als to halfill or

# Incremental Sampling Methodology (ISM) Sample Collection Record

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Incremental Sa			
mple Decision Unit ID: <u>IA-3-</u>	02		Sample Medium: Dry 514 Sela
ject Name: Concel Bay -	NPS		Project #: 58345.4 56. ~
Location: (meel Zar	SI Jon Da	ate: 7/21/2	(
ather Conditions:	180F	-11	Time On-Site: 0830
2 -			
pler:			
SAMPLE LOCATION AND COLLE	CTION METHO	DOLOGY INFO	RMATION:
scription of decision unit location:	Deslon D	no. fre	of top of ladge
nensions of decision unit:			e system:
	نسامه و	Stel	
nned GPS coordinates:			
proximate increment spacing:	15 St		Sample depth range: 0.0.51  mber of increments collected: 40
proximate increment spacing:  SAMPLE INFORMATION:	Spoon  15 St  Field or fixed	Total nur	4/ 3
proximate increment spacing:  SAMPLE INFORMATION:  Inalysis Methods  1. EPA 6020A, Lead, Antimony,	Field or fixed lab analysis Fixed	Type of container  1 x 1 gallon	mber of increments collected: 40
proximate increment spacing:  SAMPLE INFORMATION:  nalysis Methods	lab analysis	Total nur	mber of increments collected: 40
proximate increment spacing:  SAMPLE INFORMATION:  Inalysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP	lab analysis	Type of container  1 x 1 gallon Ziploc, No	Sample notes, observations, comments
coroximate increment spacing:  CAMPLE INFORMATION:  nalysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury,	lab analysis	Type of container  1 x 1 gallon Ziploc, No	mber of increments collected: 40
AMPLE INFORMATION:  Inalysis Methods  I. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	lab analysis	Type of container  1 x 1 gallon Ziploc, No	Sample notes, observations, comments
SAMPLE INFORMATION:  Inalysis Methods  I. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
proximate increment spacing:  SAMPLE INFORMATION:  nalysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  ginal Name/Time:	Fixed  A @ a	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
SAMPLE INFORMATION:  Inalysis Methods  I. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  iginal Name/Time: 14-3-07  plicate Name/Time: 14-3-07	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
SAMPLE INFORMATION:  Inalysis Methods  I. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  iginal Name/Time: 14-3-07  uplicate Name/Time: 14-3-07	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  iginal Name/Time:  1. 3.07 iplicate Name/Time: 1. 3.07	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: 24-3-22
Copper  2. Percent Moisture  3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides  4. EPA Method 1312, SPLP Lead, Antimony, Copper	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time: 14.3.07  riplicate Name/Time: 14.3.07	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: 24-3-22
SAMPLE INFORMATION:  Inalysis Methods  I. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  iginal Name/Time:  Inplicate Name/Tim	Jab analysis Fixed  A @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: 24-3-22
SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  riginal Name/Time: 14.3.07  iplicate Name/Time: 14.3.07	Jab analysis Fixed  A @ G B @ G C @ G	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: 24-3-02

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## Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: 14-3.	03		Sample Medium: Sanly 6: )
Project Name: Cored 3	. PS		Project #:
Site Location: Comed Boy	St. John D	Date: 7/73	
Weather Conditions: Survy	~80°F		Time On-Site: /200
200			1 mile on 5.00.
Sampler:			
1. SAMPLE LOCATION AND COLLEGE	CTION METHO	DOLOGY INFO	RMATION:
Description of decision unit location:	c of land	CII slor	oc/wash sed along southern
			te system: clare of langit -120fl
Dimensions of decision unit:	collected	Se se	
Planned GPS coordinates:	ancoca	7 300	
Increment collection method:			Sample depth range: 0-6"
Approximate increment spacing: 3	zt.	Total nur	mber of increments collected: 40
Approximate increment spacing. 3  2. SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of	Sample notes, observations, comments
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	Field or fixed lab analysis Fixed		
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Duplicate Name/Time:	Fixed  A  B  B  B  B  B  B  B  B  B  B  B  B	Type of container  1 x 1 gallon Ziploc, No preservatives	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Fixed  A  B  B  B  B  B  B  B  B  B  B  B  B	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Duplicate Name/Time:  TA-3-03  Triplicate Name/Time:	Fixed  A  B  B  B  B  B  B  B  B  B  B  B  B	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: A-3-03  Triplicate Name/Time: TA-3-03  General comments / notes:	Fixed  A  B  B  B  B  B  B  B  B  B  B  B  B	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Iab analysis Fixed  A B C Sirs Second	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: A-3.03 Q 13
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: A-3-03  Triplicate Name/Time: TA-3-03  General comments / notes:	Iab analysis Fixed  A B C Sirs Second	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes, observations, comments  pH Sample Name/Time: A-3.03 Q 13

## Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID:	04		Sample Medium	,	here gre
Project Name: Coned Buy -	w?s		Project #: 582	34521 5.14	0
Site Location: (enel Bey,	51 2 D	ate: Z/23/2	۸		
Weather Conditions: Sumy	~80°F		Time C	on-Site: 1370	
Sampler: BM					-9.0
1. SAMPLE LOCATION AND COLLE	CTION METHO	4 6 6		0	
Description of decision unit location:	special s	cep local	me su	seep do ~?	-
Dimensions of decision unit:		Coordinat	e system:		_
Planned GPS coordinates:	o collecte	of by s	wxy5		-
1.	- 5 CM-		Sample depth ran	nge: 0-3"	
Increment collection method:	S, Spoo		• •		
Approximate increment spacing:	- 711	Total nur	nber of increment	s collected: 40	-
2. SAMPLE INFORMATION:					
Analysis Methods	Field or fixed	Type of	Sample notes,	observations, comments	
	lab analysis Fixed	container 1 x 1 gallon			-
1. EPA 6020A, Lead, Antimony, Copper	rixed	Ziploc, No			
<ol> <li>Percent Moisture</li> <li>EPA Method 1311, TCLP</li> </ol>		preservatives	1		
Volatiles, semivolatiles,					1
	1				
metals including mercury, pesticides, and herbicides					
metals including mercury,					
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP		1340	pH Sample Name	Time: 14-3-04	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	A @ 3 @	1490	pH Sample Name	e/Time: 12-3-04	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: 14-3-04		1340 1490 1470	pH Sample Name	e/Time: <b>IX-3-0</b> Y	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: 14-3-04  Triplicate Name/Time: 14-3-04		1340 1490 1470	pH Sample Name	e/Time: <b>IA-3-04</b>	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: 14-3-04  Duplicate Name/Time: 14-3-04		1340 1490 1470	pH Sample Name	/Time: 14-3-04	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: 14-3-04  Triplicate Name/Time: 14-3-04		1340 1490 1420	pH Sample Name	Time: 14.3.04	Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: A-3-04  Duplicate Name/Time: TA-3-04  Triplicate Name/Time: TA-3-04  General comments / notes:	3 6	1490 1420			Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: A-3-04  Duplicate Name/Time: TA-3-04  Triplicate Name/Time: TA-3-04  General comments / notes:	3 6	1490 1420			Q 144
metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	101 Shuffel Street	バイタン ドイマン NW. North Canto	n, OH 44720 (33 Tracking #:	30)497-9396	Q 144

#### Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID:	25-01		Sample Medium: 1	of sily sad
Project Name: Could B.	4 - N75		Project #: 5834	,
Site Location: Cased Bay	1 0.	Date: Z/ZZ	121	
Weather Conditions: Sun &	30F	vaic.		ite: 1373
212				····
Sampler: KN13				
1. SAMPLE LOCATION AND COLLE	CTION METHO	DOLOGY INFO	RMATION:	
Description of decision unit location:	Vary ss	nuin a	de -uness	, are
Dimensions of decision unit:		Coordina	system:	
	or Te	کار		
Planned GPS coordinates:	0 0 10			
Increment collection method:	os spool	1	Sample depth range:	0-0.5
Approximate increment spacing:		Total har	mber of increments co	
2. SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of	Sample notes, obs	ervations, comments
Analysis Methods	Field or fixed lab analysis	Type of container	Sample notes, obs	ervations, comments
			Sample notes, obs	ervations, comments
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	Fixed	container  1 x 1 gallon Ziploc, No preservatives		
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	Fixed	container  1 x 1 gallon Ziploc, No preservatives		
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Fixed	container  1 x 1 gallon Ziploc, No preservatives		
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Fixed	container  1 x 1 gallon Ziploc, No preservatives		
Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: Duplicate Name/Time: TA-RS-O	Pixed  Pixed  Pixed  Pixed  Pixed	container  1 x 1 gallon Ziploc, No preservatives	pH Sample Name/Tin	ne: IA-Res-01 Q1

\whb\gb\\proj\Montpelier\\$8345\_21 NPS Caneel Bay Resort\Reports\2021-02 EECA Planning Documents\EECA SAP\Appendices\Appendix 1 - Field Forms\ISM Sample form.docx

### Incremental Sampling Methodology (ISM) Sample Collection Record

Sample Decision Unit ID: TA- R	5.07		Sample Mediur	1: Sondy /gran	2014
Project Name: Concel Ray	- pp	5 Prace		8345.210	50.1
Site Location: Care Suy	7	Date: 2 /10/2	21		
Weather Conditions:	80.€	Jaic.	Time	On-Site: 1032	
			Time	on-site. V	
Sampler: 3P5					
1. SAMPLE LOCATION AND COLLE	CTION METHO	DOLOGY INFO	RMATION:		
Description of decision unit location:	Souces	20 1/20	11,28,11		
Dimensions of decision unit:			te system:		
60	m Tai		io system		
Planned GPS coordinates:					7
					1
					1
		1			
	1			/ -	367
Approximate increment spacing:  2. SAMPLE INFORMATION:  Analysis Methods	Field or fixed	Type of	Sample notes	ts collected:	]
2. SAMPLE INFORMATION:	Field or fixed lab analysis Fixed				
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper	lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	, observations, comments	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes		
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	, observations, comments	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:	lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	, observations, comments	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  TA-PAS-07  Triplicate Name/Time:	lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	, observations, comments	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: TA-PAS-07  Duplicate Name/Time: TA-PAS-07  General comments / notes:	lab analysis Fixed	Type of container  1 x 1 gallon Ziploc, No preservatives	Sample notes	, observations, comments	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time:  Tiplicate Name/Time:  Triplicate Name/Time:  General comments / notes:	lab analysis Fixed  A Q B Q C C Q	Type of container  1 x 1 gallon Ziploc, No preservatives  1 30 1200  Language Services	pH Sample Name	observations, comments  TA-RG-02	
2. SAMPLE INFORMATION:  Analysis Methods  1. EPA 6020A, Lead, Antimony, Copper 2. Percent Moisture 3. EPA Method 1311, TCLP Volatiles, semivolatiles, metals including mercury, pesticides, and herbicides 4. EPA Method 1312, SPLP Lead, Antimony, Copper  Original Name/Time: TA-PAS-07  Duplicate Name/Time: TA-PAS-07  General comments / notes:	lab analysis Fixed  A Q B Q C C Q	Type of container  1 x 1 gallon Ziploc, No preservatives  1 3 v 12 v 12 v 12 v 13 v 12 v 12 v 13 v 14 v 15 v 16 v 17 v 18 v 18 v 19	pH Sample Name	observations, comments  TA-RG-02	

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Soil Sample Locat	tion ID: SC-3	-01				
Project Name: C	aneel Bay	- NPS	Project	-	Project #: 5834	5.21
Cita I mediani (	and Ba	1. land	£:11		Date: 2-13-2/	
Weether Condition	Parthe Mas	the Claud	y Breezy	scateral	Time on Site: DE	
Sampler:	Rez	7	9/	Rain she	wers	
Sampler:/_						
1. SAMPLE LOC	CATION AND COL	LECTION MET	HODOLOGY INFO	RMATION:		
Description of soil	sampling location:	West sid	e, front of	shed		
	f sampling location:_		Coordina			
	method: Geofrot			ne by blenn		
Sample collection i	method: O Color		1000			
Sample depth range	e (ft): 0 - 15					
2. SAMPLE INFO	DMATION.					
		TD 6	Collection time	Commission of	annuations	
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, of comments	servations,	
. •	EPA 6020A, Lead, Antimony,	1 x 100 gram glass,	1000	See Beri	ng /bg.	
5-6	Copper, Percent moisture / Vocs	unpreserved &≥ 6 B				
0.5 - 2.5	10	11	1500	71		
0-4.0'			(Z/19/21)	waste c	hor.	
			1.			
General comments	/ notes:					
Lab Designation:_						
Chain of Custody #	486570	)	Shipper T	Tracking #:		

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/	Paral B	2. 4	1 10	Project #: 583  11 Area 3 Date: 2-19-2
Site Location:	Coneel Bay Coneel Bay	PESONT	- Landt.	77 14rea 3 Date: 2 77 2
Veather Condition	ons: Sunny	2 80 F		Time on Site:
ampler: 7	Ro			<del></del>
CAMBLETO	CATION AND COL	I ECTION MET	HODOLOGY INFO	DDM ATION:
	il sampling location:			
	of sampling location:_			ate system:
•	method: Geb			
ample depth ran	ge (ft): 0 - /	B 1395		
. SAMPLE INF	ORMATION:			
Sample depth	Sample type	Type of container	Collection time	Sample notes, observations, comments
(ft)	(analyte(s))			
0-3'	EPA 6020A, Lead, Antimony,	1 x 100 gram glass,	0900	See Burning Logs.
U 3				I I
<i>V</i> 3	Copper, Percent	unpreserved		
			0920	1,
	Copper, Percent		0920	14
3-b'	Copper, Percent moisture/ V & C			
3-6' 5c-3-02(0	Copper, Percent moisture/ V & C		0920	waste Char.
3-b'	Copper, Percent moisture/ V & C			
3- <b>L</b> '	Copper, Percent moisture/ V & C			
3- L'	Copper, Percent moisture/ V & C			
3-b'	Copper, Percent moisture/ V & C			
3-b'	Copper, Percent moisture/ V & C			
3-b'	Copper, Percent moisture/ V & C			
3-b'	Copper, Percent moisture/ Vb C			

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Project Name: Cancel Bay Resert - Project  Site Location: Cancel Bay Resert - Preas Landf: Date: 2-19-21  Weather Conditions: Sunny 80°  I. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location: Area 3 Landf: Geo Prole - Duel Tule  Sample collection method: Geo Prole - Duel Tule  Sample depth range (fi): D - 15'  2. SAMPLE INFORMATION:  Sample depth Sample type (analyte(s)) Type of container  EPA 6020A, Lead, Antimony, Copper, Percent moisture / Yor 2: 1030 111 1030 111 111 1030 111 111 1030 111 111
1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location:
1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location:
1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location:
1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location:  GPS coordinates of sampling location:  Sample collection method:  Geo Prole - Deal Tobe  Sample depth range (ft):  2. SAMPLE INFORMATION:  Sample depth (ft)  Sample depth (analyte(s))  EPA 6020A, (analyte(s))  EPA 6020A, (copper, Percent moisture / Voc 2  3-6  1030  1030  1110  1030  1111  1030  1111  1030  1111  1030  1111  1030  1111  1030  1111  1030  1111  1030
Description of soil sampling location:  GPS coordinates of sampling location:  Sample collection method:  Sample depth range (ft):  Sample depth  (ft)  Sample depth  (ft)  Sample depth  (ft)  Sample type  (analyte(s))  Type of  container  Collection time  Sample notes, observations,  comments  EPA 6020A,  Lead, Antimony,  Copper, Percent  moisture/Voc  3-6  1030  111
GPS coordinates of sampling location:  Sample collection method:  Sample depth range (ft):  Sample depth  Sample type (analyte(s))  Container  Type of container  Collection time  Sample notes, observations, comments  EPA 6020A, Lead, Antimony, Copper, Percent moisture  Voc  3-6'  Coordinate system:  Coordinate system:  Coordinate system:  Coordinate system:  Coordinate system:  Sample notes, observations, comments  1 x 100 gram glass, unpreserved  1030  1111
GPS coordinates of sampling location:  Sample collection method:  Sample depth range (ft):  Sample depth  Sample type (analyte(s))  Container  Type of container  Collection time  Sample notes, observations, comments  EPA 6020A, Lead, Antimony, Copper, Percent moisture  Voc  3-6'  Coordinate system:  Coordinate system:  Coordinate system:  Coordinate system:  Coordinate system:  Sample notes, observations, comments  1 x 100 gram glass, unpreserved  1030  1111
Sample depth range (ft):  Sample depth range (ft):  Sample depth   Sample type (analyte(s))   Type of container   Collection time   Sample notes, observations, comments    EPA 6020A, Lead, Antimony, Copper, Percent moisture   Voc   Vo
Sample depth range (ft):
2. SAMPLE INFORMATION:  Sample depth (ft) Sample type (analyte(s)) Type of container  EPA 6020A, Lead, Antimony, Copper, Percent moisture / Voc 2  3-6' Collection time Sample notes, observations, comments  Sample notes, observations, comments  1 x 100 gram glass, unpreserved  1030
Sample depth (ft)  Sample type (analyte(s))  EPA 6020A, Lead, Antimony, Copper, Percent moisture/Voc  3-6'  Collection time Sample notes, observations, comments  Sample notes, observations, comments  Sev Boringleys  1 x 100 gram glass, unpreserved
(ft) (analyte(s)) container comments  EPA 6020A, Lead, Antimony, Copper, Percent moisture/Voc  1 x 100 gram glass, unpreserved 1030  1030
EPA 6020A, Lead, Antimony, Copper, Percent moisture/Voc  1 x 100 gram glass, unpreserved 1030 1111
Copper, Percent moisture / Vo C 1030
Copper, Percent unpreserved  3-6'  1030  1030
0-5' 1040 was to Charc.
1040
General comments / notes:
I. I. Devilementian
Lab Designation:  Chain of Custody #: 486529  Shipper Tracking #:

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oil Sample Loca	ation ID: SC -	3-04		<b>-</b>
roject Name:	aneel Ba	y · NPS	s. Project	Project #: 58345
ite Location:	eneel Ba	y Reso	rts-Area	Project #: 58349  5 Land f: 1/Date: 2-19-21  Time on Site:
Veather Conditio	ns: Sun 119	1 ~ 800		Time on Site:
ampler:	TRO			
escription of soi	method: Geo	Area 3 Probe	- Landf.	ate system:
	ge (ft):	27		
SAMPLE INF			T	
Sample depth ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
5-3' 3-6'	EPA 6020A, Lead, Antimony, Copper, Percent moisture / Voc	1 x 100 gram glass, unpreserved	/130	see Boring logs
3-6'			1140	(1
0-5'			1300	weste char.
eneral comments	s / notes:			

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Soil Sample Loca	ation ID: SC-	3-05		
Project Name: C	aneel Bay	1 - NPS	Project	Project #: 58345.
Site Location:	oneel Ba	Resur	<i>t</i> -	Date: 2-19-21
Weather Condition	aneel Bay	800		Time on Site:
Sampler:	TRO			
. SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	DRMATION:
Description of soi	l sampling location:			
PS coordinates of	of sampling location:_		Coordin	ate system:
ample collection	method:			
ample depth rang	ge (ft):			
. SAMPLE INFO	ORMATION:			
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, unpreserved		No Samples collected Refuent-shallow on Rock
eneral comments	/ notes:			
ab Designation:_				
nain of Custody #	<i>‡</i> :		Shipper 7	Fracking #:

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Soil Sample Loca	ntion ID: $SC - 3$	-06				
Project Name: C	ancel E	Say -NT	5 Project	<i>f</i>	Project #: _58	345.
Site Location: (	aneel B.	2 Res	ort		Date: 2-19-	2/_
Weather Conditio	ancel Bancel Bancel Bancel Bancel	,aBo"			Time on Site:	
Sampler:	TRO					
Sampler:	1 120			-		
. SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	RMATION:		
Description of soi	l sampling location:	Area 3	- Landf	1:11		
ample collection	method: Geo	5'	V V VIII			
ample depth rang	ge (ft): 0 - 1:	2				_
. SAMPLE INF	OPMATION:					
		TD C	Collection time	Committee and	an abanmations	
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	comments	es, observations,	
0-3'	EPA 6020A, Lead, Antimony, Copper, Percent moisture/ VE CS	1 x 100 gram glass, unpreserved	135	SEC	Tsoring Loss.	
3-6'	moisturey 42 02		1420	( a	1.	
0-6'			1430	Wast	t Chara.	
eneral comments	/ notes:					
eneral comments	i notos.					
						-
ab Designation:_						_

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		aneel Ba	_	9	Project #: 5834
Ashple Location and collection methodology information:  Description of soil sampling location:  Description of soil sample system:  Description of soil sampl		,	y Keso	n+	Date: 2-19.2
Ashple Location and collection methodology information:  Description of soil sampling location:  Description of soil sample system:  Description of soil sampl		ons: Sunny	800		Time on Site:
PS coordinates of sampling location:  PS coordinates of sampling location:  Coordinate system:  Tobe  Trube - Deal Tube  Tobe  Type of container  (ft)  EPA 6020A, Lead, Antimony, Copper, Percent moisture  Tobe  1530  1530  1540  Waste Charc.					
Apple collection method: Geo Probe - Deal Tobe  ample depth range (ft): 0 - \$\mathbb{B}.\sigma'  Sample type (analyte(s))	. SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	PRMATION:
ample collection method: Geo Proble - Deal Tobe ample depth range (ft): 0 - 8.0'  SAMPLE INFORMATION:  Sample depth (ft) Sample type (analyte(s)) container  (onalyte(s)) Copper, Percent moisture  3-6' In a second	escription of so	il sampling location:	Aren 3	Land f	://
Ample depth range (ft): O - 8.5'  Sample INFORMATION:  Sample depth (ft) Sample type (analyte(s)) Container Container  EPA 6020A, Lead, Antimony, Copper, Percent moisture  3 - 6'  1530  1540  Waske Chare.					
Ample depth range (ft): O - S.o'  Sample INFORMATION:  Sample depth (ft): Sample type (analyte(s)) Type of container  O - 3' EPA 6020A, Lead, Antimony, Copper, Percent moisture  3 - 6'	ample collection	method: Geo	Probe -	Deal 7	use
Sample depth (fit)  Sample type (analyte(s))  EPA 6020A, Lead, Antimony, Copper, Percent moisture  Sample notes, observations, comments  1 x 100 gram glass, unpreserved  1520  See Boring Loss  1530  1' '  2-6'  1540  Waste Charc.	ample depth ran	ge (ft): $\mathcal{O} - \mathcal{U}$	.0'		
(fit) (analyte(s)) container comments  EPA 6020A, Lead, Antimony, Copper, Percent moisture  3-6'  1520  1520  1530  1'''  2-6'  1540  Waste Chare.	SAMPLE INF	ORMATION:			
Co-3 Lead, Antimony, Copper, Percent moisture  1520  1520  1530  1540  Waste Charc.				Collection time	
3-6'  1540  Waste Charc.	0-3'	Lead, Antimony, Copper, Percent	glass,	1520	See Boring Loss
	3-6'			1530	/ , ,,
	z-6°			1540	Waste Charc.
eneral comments / notes:					
eneral comments / notes:					
eneral comments / notes:					
eneral comments / notes:					
eneral comments / notes:					
chicial comments / notes.	eneral comments	s / notes:			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

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Site Location: Caneel Bay Resort Date: 2-2	18 345	Project #:		Project	y - NPS	aneel Be	roject Name: C			
Sampler: TRE  I. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location: Area 3 - Land fill  GPS coordinates of sampling location: Coordinate system:  Sample collection method: Geo Probe - Doal Tobe  Sample depth range (ft): 0 - 15'  S. SAMPLE INFORMATION:  Sample depth Sample type (analyte(s)) Type of container  EPA 6020A, Lead, Antimony, Copper, Percent moisture/Voca  3 - 6'  See Boring Logs  See Boring Logs  Some Source Source  O 9 2 0  O 9 3 0  O 9 3 0  O 9 3 0  O 9 3 0	2/-2/	Date: 2-2/		ort	a, Res	aneel B	ite Location:			
SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:  Description of soil sampling location: Area 3 - Land fill  Description of soil sampling location: Coordinate system:  ample collection method: Geo Probe - Doal Tobe  ample depth range (ft): 0 - 15'  SAMPLE INFORMATION:  Sample depth (analyte(s)) Type of container  EPA 6020A, Lead, Antimony, Copper, Percent moisture/ Voca  3 - 6'  Description of soil sampling location: Area 3 - Land fill  Coordinate system:  Sample depth (ft): 0 - 15'  Sample depth (sample type (analyte(s)) Container  Collection time Sample notes, observations, comments  See Boring Logs  and Coordinate system:  Coordinate system:  Coordinate system:  Area 3 - Land fill  Coordinate system:  Coord		Time on Site;		Veather Conditions: Sunny = 80°						
escription of soil sampling location: Area 3 - Land fill  PS coordinates of sampling location: Coordinate system:  Imple collection method: Geo Probe - Dool Tobe  Imple depth range (ft): 0 - 15'  SAMPLE INFORMATION:  Sample depth (analyte(s)) Type of container  EPA 6020A, Lead, Antimony, Copper, Percent moisture Voca and Sample system:  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments  O-3' Copper, Percent moisture Voca and Sample notes, observations, comments										
ample collection method: Geo Probe - Doal Tobe  ample depth range (ft): 0 - 15'  SAMPLE INFORMATION:  Sample depth (sample type (analyte(s)))  EPA 6020A, Lead, Antimony, Copper, Percent moisture/ Voca  3 - 6'  Collection time Sample notes, observations, comments  See Boring Logs  0 9 2 0  0 9 3 0  1 × 100 gram glass, unpreserved  0 9 3 0  1 × 100 gram glass, unpreserved		:								
Sample depth range (ft): 0 - 15'  Sample depth   Sample type (analyte(s))   Type of container   Collection time   Sample notes, observations, comments    EPA 6020A, Lead, Antimony, Copper, Percent moisture   Ve C2   Collection time   Collection time   Sample notes, observations, comments    Sample depth   Sample type (analyte(s))   Type of container   Collection time   Sample notes, observations, comments    See Bor. 19 2-93   See Bor. 19 2-93    O 9 3 0   O 9 3 0   O 9 3 0    O 9 3 0   O 9 3 0   O 9 3 0    O 9 3 0   O 9 3 0   O 9 3 0    O 9 3 0   O 9 3 0   O 9 3 0    O 9 3 0   O 9 3 0   O 9 3 0    O 9 3 0    O 9 3 0										
Sample depth (analyte(s))  EPA 6020A, Lead, Antimony, Copper, Percent moisture/ Voca  3-6'  Collection time Sample notes, observations, comments  Collection time Sample notes, observations, comments  Sample depth (analyte(s))  Type of container  Collection time Sample notes, observations, comments  See Boring Logs  0920			Tube	- Deal	Probe	method: Geo	mple collection			
Sample depth (analyte(s))  EPA 6020A, Lead, Antimony, Copper, Percent moisture / Vo c?  Sample type (analyte(s))  Type of container  Collection time Sample notes, observations, comments  Sample notes, observations, comments  See Boring Logs  o 920  0 930					-	ge (ft): 0 - 15	mple depth rang			
(analyte(s)) container comments  EPA 6020A, Lead, Antimony, Copper, Percent moisture/ Voca  0920  0930			· C	4						
Copper, Percent moisture/ Voc2  1 Copper, Percent moisture/ Voc2  2 Copper, Percent moisture/ Voc2  3 - 6'  Copper, Percent moisture/ Voc2  Copper, Percent mo			Collection time	* *	1 ' ' ' 1					
3-6' 0930 " " "	5.	Boring Logs	See	0920	glass, unpreserved	Lead, Antimony, Copper, Percent	0-3'			
0900 Waste Charc.		., .,	G	0930			3-6'			
		- charc	Waste	0900			12-5'			
	100									
eneral comments / notes:						/ notes:	neral comments			
north continues / norths.						7 1101001_	noral collinicitis			

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Soil Sample Loca	ation ID: <u>SC - 3</u>	-09				
Project Name:	Caneel Ba	Y-NPS	Project	P	roject#: 58345.	
Site Location:	Caneel Ba	y Reser	+	D	ate: 2-2/-2/	
Weather Conditio	ns: Sunny	800		Т	ime on Site:	
Sampler: 7	ico					
sampler	,					
. SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	RMATION:		
escription of soi	l sampling location:	Area 3	Landfi	1/		
	of sampling location:_					
la danda non	ge (ft): 0 - 1	9'				
ampte depth rang	ge (II):	/				
SAMPLE INF	ORMATION:					
Sample depth	Sample type	Type of	Collection time	Sample notes, obser	vations.	
(ft)	(analyte(s))	container		comments		
v-3'	EPA 6020A, Lead, Antimony, Copper, Percent moisture/ Vo Co	1 x 100 gram glass, unpreserved	1150	see Buring	Logs.	
3-6			1700			
				No waste	chare.	
	-					
eneral comments	s / notes:					
b Designation:_						
	#: 48652	,	~	Fracking #:		

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roject Name: Ca	METI BA	7-11/3	Project +	Project #: _5&
Site Location:	aneel 15	y Kesur	<i>+</i>	Date: 2-2
Weather Condition	s: Sunny	- 80°		Time on Site:
Sampler:	7120			
. SAMPLE LOC	ATION AND COL	LECTION MET	HODOLOGY INFO	RMATION:
Description of soil	sampling location:	Area 3 .	Land fil	/
				ite system:
				Tobe
ample conection i	neurou.	_ /	17.001	
ample depth range	(ft): 0 - Z	2		
SAMPLE INFO	RMATION:			
Sample depth	Sample type	Type of	Collection time	Sample notes, observations,
(ft)	(analyte(s))	container		comments
	EPA 6020A,	1 x 100 gram	13.00	SeeBenting less
0-3	Lead, Antimony, Copper, Percent	glass, unpreserved		1
- Len 5/32/21	moisture		Trus/2/22/7	
3-6			1310 +	Dup. Sample
0-5'			1330	waste Chave.
0-5' npled (2 0-3	-22-21)			
0-3			0820 +	Duplicate (SC-101)
0-6			0830 +	Duplicate (SC-102)
	notes:			
eneral comments /				

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oject Name: L	aned/Ba	Y-NPS	s. Project	Project #: 58
te Location: C	anel/Bay	Resor	+	Date: 2-2/-
eather Conditio	ons: Sunny	-80		Time on Site:
ampler:	7120			
SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	PRMATION:
escription of soi	il sampling location:	Area 3 -	Landfill	/
_	of sampling location:			ate system:
			- 12val	Tobe
	ge (ft): 0 - /			
SAMPLE INF	ORMATION:			
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
0·3'	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, unpreserved	1425	See Boring loss
0·3'	Lead, Antimony,	glass,	1425	See Boring loss
	Lead, Antimony, Copper, Percent	glass,		See Boring loss
3-6'	Lead, Antimony, Copper, Percent	glass,		See Boring loss  Wash Clare.
3-6'	Lead, Antimony, Copper, Percent	glass,	1440	
3-6'	Lead, Antimony, Copper, Percent	glass,	1440	
0·3' 3-6' 9-5'	Lead, Antimony, Copper, Percent	glass,	1440	
3-6'	Lead, Antimony, Copper, Percent	glass,	1440	
3-6'	Lead, Antimony, Copper, Percent	glass,	1440	
3-6'	Lead, Antimony, Copper, Percent	glass,	1440	
3-6'	Lead, Antimony, Copper, Percent moisture	glass,	1440	

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roject Name	uneel 13	ay-NP	5 Projec	Project #: 583
ite Location:	aneel B.	y Resi	S Projec	Date: 2-7/-2
Veather Condition	ns: Sonny	~80°		Time on Site:
ampler: 7	RU			
. SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	PRMATION:
escription of soi	sampling location:	Aren 3	- Backe	ground - Landfill
	f sampling location:_			ate system:
ample collection	method: Geo	Probe	Deal	TUZP
	ge (ft): 0 - 0			
SAMPLE INFO	ORMATION:			
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
0-0.5'	EPA 6020A, Lead, Antimony,	1 x 100 gram glass, unpreserved	1020	See Boring Lugs.
0 0.3	Copper, Percent moisture	unpreserved		
		unpreserved		
	moisture			

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roject Name:	aneel Ba	y · NP	5. Project	Project #: 58345
ite Location:	Paneel Ba	y Reso	2+	Date: 2-2/-2/
eather Conditio	Caneel Ba Caneel Ba	- 60'		Time on Site:
ampler:	TR			
	CATION AND COL		HODOLOGY INFO	1.00
escription of soi	I sampling location:	Area 3.	Buckgr	ound - Landfill
PS coordinates of	of sampling location:_		Coordina	ate system:
imple collection	method: Geo	Probl	Dual -	Tube
ample depth rang	ge (ft): 0-	2.6'		
SAMPLE INF	ORMATION:			
Sample depth (ft)	Sample type (analyte(s))	Type of container	Collection time	Sample notes, observations, comments
9-7.6	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, unpreserved	1030	See Soil Burnings
	s / notes:			
neral comments				

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roject Name:(	Caneel Ba	2y-MPS	Project	Project #: <u>583</u>	45.	
ite Location: C	oneel Ba	y Reso	r +	Date: 2-21-2	21	
eather Conditio	cneel Ba	Time on Site:				
ampler:	TRO					
SAMPLE LO	CATION AND COL	LECTION MET	HODOLOGY INFO	RMATION:		
escription of soi	l sampling location:	Area 3.	Backgrou	nd - Landfill		
PS coordinates of	of sampling location:_	-1-	Coordina	ite system:		
mple collection	method: 600	Probe	Dual 7	ube		
mple depth rang	ge (ft): 0 - 4	1.0				
SAMPLE INFo	ORMATION:  Sample type	Type of	Collection time	Sample notes, observations,		
ft)	(analyte(s))	container	Concetion time	comments		
0-3'	EPA 6020A, Lead, Antimony, Copper, Percent moisture	1 x 100 gram glass, unpreserved	1055	See Boring Loss.		
neral comments	/ notes:					

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### Water Level Measurement Record

Project Name: Caneel Bay Resort Site	Project #: _58345.21
Site Location: Virgin Islands National Park (VIIS)	Date: 2/15 - 24/21
Weather Conditions: See Field Book	Time on Site:
Personnel TRO/BND	

Loca	tion	Time	Depth to Water (ft. btoc)	Observations
MW-1	2/15/21	1706	6.35	TD: 7.02
Mw-1	2/18	1235	6.17	Purged Dry
mw-1	2/18	1500	6.80	
mw-/	2/20/2	1 1010	6.72	757: 0. 80 00 m
	2/22/2/		- 6.68 BTOC	Set up to punge of 457 = Vol= 0.5 L
mw-1	2/24/21	1135	6.80	= Val= 0.5 L

Project Name: CBR Site Project #: 58345.21 Initials: TRO Date:

\\hb\gbl\proj\Montpelier\58345.21 NPS Caneel Bay Resort\Reports\2021-02 EECA Planning Documents\EECA SAP\Appendices\Appendix 1 - Field Forms\CBR Water Level Measurements.docx

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### Ground Water Monitoring Well Sample Collection Record

							Well ID:_	mw-a	>/
Project Nam	ne: Car	neel Bay Resort S	ite	Project #:	58345.21		Date: 2	-22-2	/
Site Locatio	n: Vir	gin Islands Nation	nal Park			Sampler	TRU	>	
Weather Co	nditions:	. Cloudy	Breez	Y		Time on	site: / 5	50	
1. WATER	LEVEL D	ATA: (from TO	<b>C</b> ) ·				7 -50		
Description	of measurir	ng point (MP)]	roc	iv- i- i	Depth to water	below MP (fi	): 6.60	2	
Total well d	epth (ft):_7	1.02 V	Vell diameter (in	1: 4.0"	Length of	water column	in well (ft):_	0.47	<u> </u>
Gallons per	foot¹:	0.65	Well vo	olume (gal):	273	PID Hea	adspace (ppn	nV):	
2. PURGII	NG DATA	: Method: Pe	ri Pumi	>		Stabiliz	ed intake de	oth: 7.0	2
		well volum							
Time	Depth (ft)	Volume Removed	Flow Rate	Temp (deg C)	Spec Cond (uS/cm)	Dissolved Oxygen (mg/L)	pН	ORP (mV)	Turb. (NTU)
1603	6.66	0	0	Start					
1605	-	0200	100	29.27	1093	2.70	6.66	-118	14
1607		10.400	100	29.14	1097	2.90	4.70	-19	13
1609		0.600	100	29.11	1091	2.96	4.72	-24	11
1610		0.700	100	29.07	1090	2.91	6-74	-28	10
1615		1.2	100	79.29	1091	2.13	6.77	-43	9
1615	0-	·y.							
sem pl	e Ze	charge	2/24/2	1 0	1430				
								11	

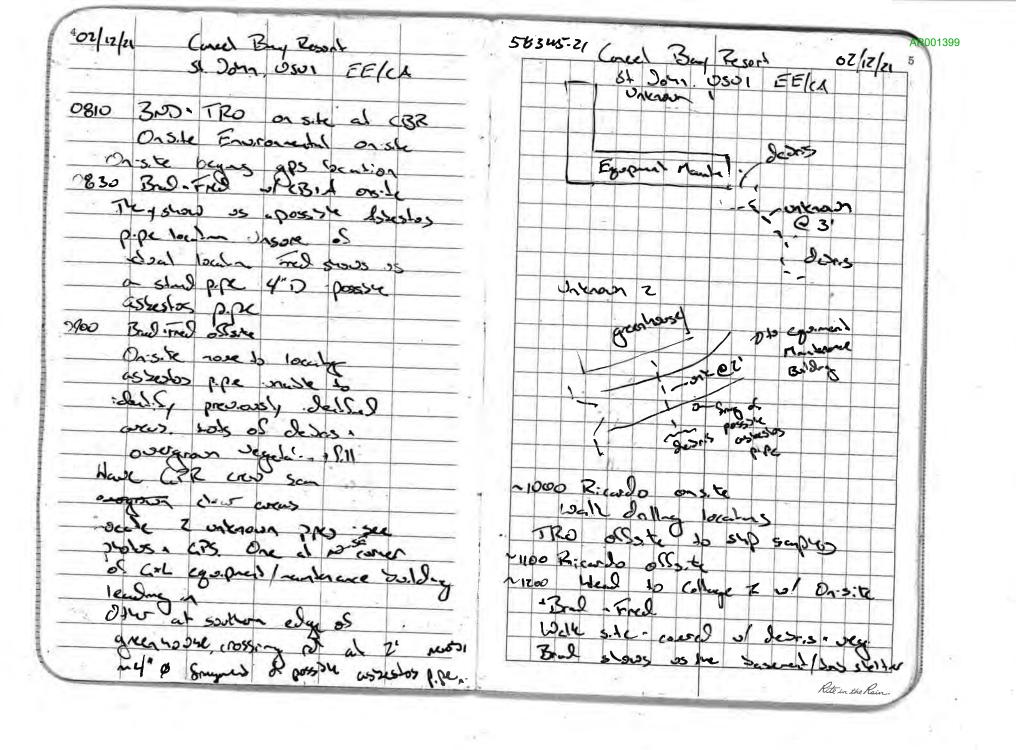
Purge Water Disposal Method\_

Comments (e.g. color / odor):\_\_\_\_

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ontpelier,	VT 05602			www.vhb.com
/iitpeliel,	Ground	Water Monitorin	g Well Sample Collection Record	
	nw-01		D	Date: 2-24-2
		D . '		ime: 1430
SAMPLE	COLLECTION: Method:	Per,	Sample T	ime: 1730
	26			
Quantity	Container Type	Preservation	Analytical Method / Laboratory	Laboratory
3	40 ml/VOAS	HCL	VOC : - 82 10 D_ LL- ms volat	Eurof mg/
1	40 ml/VOAS  250 ml Plastic	HNOZ	metals - 6020.B mercury 24 FOR	4
45,			111111111111111111111111111111111111111	
		5:		
			1	
nain-of-Cu	ustody #: <u>4865<sup>25</sup>/</u>	1486536	Shipper ID #: Fed 8	Ex
¹w 0.5	rell volumes for various diameters $0.75" = 0.01$ $0.75" = 0.02$ $0.00" = 0.16$ $0.00" = 0.32$	eters in gal./ft. 23 1.00" = 0.0	041   1.25" = 0.064   1.50" = 0.09	<u>Ex</u>
<sup>1</sup> w 0.5 2.0	rell volumes for various diame 50" = 0.01	eters in gal./ft. 23 1.00" = 0.0	041   1.25" = 0.064   1.50" = 0.09	
<sup>1</sup> w 0.5 2.0	The relative various for various diameters $0.75" = 0.01$ $0.75" = 0.02$	eters in gal./ft. 23 1.00" = 0.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
<sup>1</sup> w 0.5 2.6 1 (	rell volumes for various diame  50" = 0.01	eters in gal./ft.  23     1.00" = 0.4 2     3.50" = 0.4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
<sup>1</sup> w 0.5 2.6 1 (	rell volumes for various diame  50" = 0.01	eters in gal./ft.  23     1.00" = 0.4 2     3.50" = 0.4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
<sup>1</sup> w 0.5 2.6 1 O D <b>EVELO</b>	rell volumes for various diame $50" = 0.01$ $0.75" = 0.02$ $0.00" = 0.16$ $0.00" = 0.32$ Gallon = 3.785 Liters  OPMENT INFORMATION ate developed: $2/18/2$	eters in gal./ft.  23     1.00" = 0.4 2     3.50" = 0.4	041 $1.25" = 0.064$ $1.50" = 0.09$ 6.00" = 1.47  Personnel: TPO	
<sup>1</sup> w 0.5 2.6 1 ( DEVELO Da	rell volumes for various diameters of the var	eters in gal./ft. $           \begin{array}{r}             1.00" = 0.0 \\             2                       $	1.25" = 0.064 1.50" = 0.09 6.00" = 1.47  Personnel: TPO  Volume removed: $O.66$	
<sup>1</sup> w 0.5 2.6 1 ( DEVELO Da	rell volumes for various diameters of the var	eters in gal./ft. $           \begin{array}{r}             1.00" = 0.0 \\             2                       $	1.25" = 0.064 1.50" = 0.09 6.00" = 1.47  Personnel: TPO  Volume removed: $O.66$	
<sup>1</sup> w 0.5 2.6 1 ( DEVELO Da	rell volumes for various diameters of the var	eters in gal./ft. $           \begin{array}{r}             1.00" = 0.0 \\             2                       $	041 $1.25" = 0.064$ $1.50" = 0.09$ 6.00" = 1.47  Personnel: TPO	

02/11/21 Carel Bay Resort	58345.21	reel By Reson orlater
0830 350 . TRO meel NO -00 1	1000 Little	COLDA LAN MICH
U.S. 401 Cale 5 in (1.22 13	~1600 Onte	
+ Dave Nomer Thomas Keller,	al college	B collect surface
Discuss Our many sylvers.	~1115-1330	1B collect surface
Pare leves 1, was u. 1	Surpes of 300 a	Son assess
Such levels all to (BR where	SC-15-01	11:42
we red Orish Fire	Sc-15-02	11:47
(Bred Doug)	SC-45-03 SC-45-04	11:53
0930 Server - (314 offs.te	SC-AS-OS	13:19 3:19 3:30 or/11/21
Begn at lad (11 states) localins	SC-45-06	1326 1326 1323
On ste some days to	SC-45-08	1324
1200 Dave leve s.te 10(2.00)	35 7250	
	1	
1430 Marc to Engrecon Ina to state		
1500 E 0 T		
1500 Fred January on to of Brad Dov . I suss scope		
2) transformers 2 10/11		
Also discuss wask of AST LI		
Brad Brad to prossly SPK		
		Rite in the Rain.

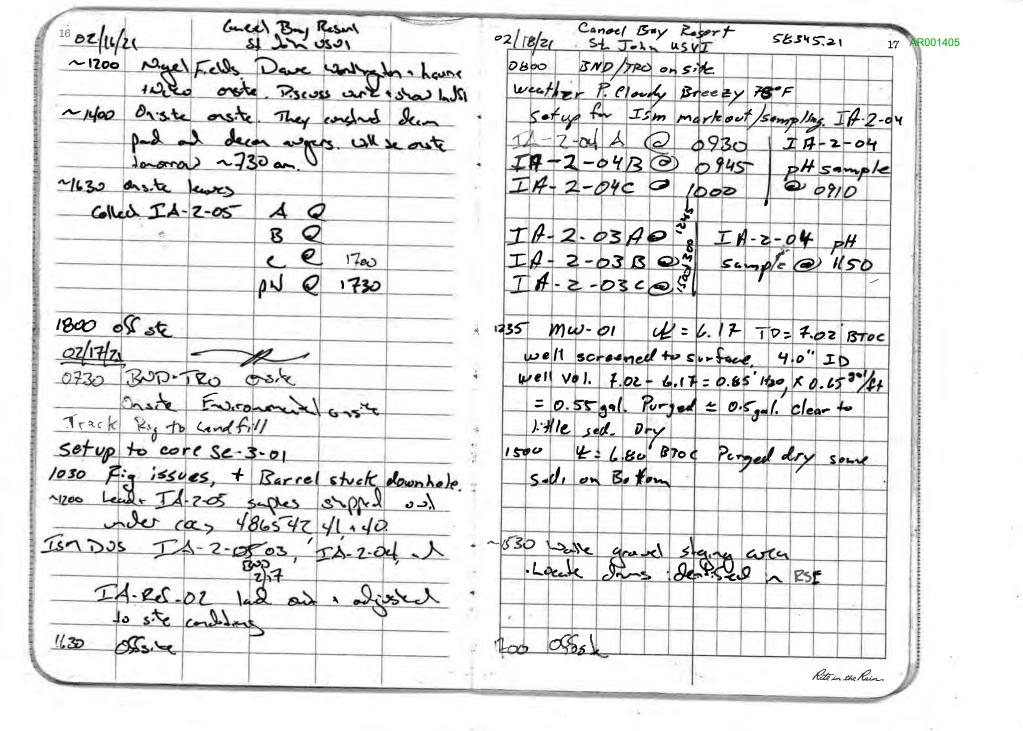


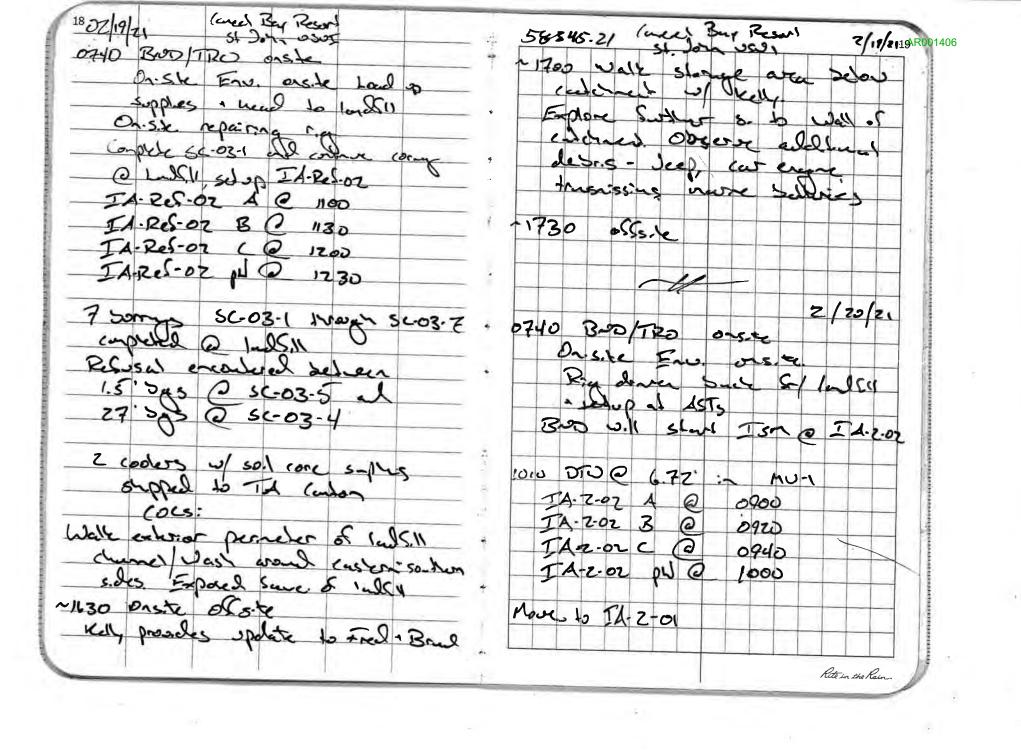
Coreel Buy Resort Concel Buy Resert 58345.21 350 SI Day OSUI wel george of possible TRO-300 orsie al cor will induct & trace 02/13/21 Asses ) lead soul for and across between lad scapes of turbe 3mg 3-1 may lowinete / lose signal AC unis/sto Sun Ju sever mybole Scallered The present sol much San Areas with GPR no lock Photor J/Sors U.s. See and a condies - Intel dearnice side of solding No fists wish O to de unds/desns/ vegeled . Les below well wall 2/ S. 205 ~1400 Move to dong were sold catchal Recor ara · Locate CPR Anonly at 2' says 5'x77' See protos , CPS 83.0 2/13/21 house the at 2'dgs runn for paper call roomy will som osser of road sculored of sections of not opens present, gowed. Jes Sloors Steel concrete, I de visite de Plaster appears wheel Punted edwar soleres excell s'ope comes Pol pedy wo old to essifur center to onderally. Carle organ.71 colors = supplies 1/130 U.5.L culer Rite in the Rain

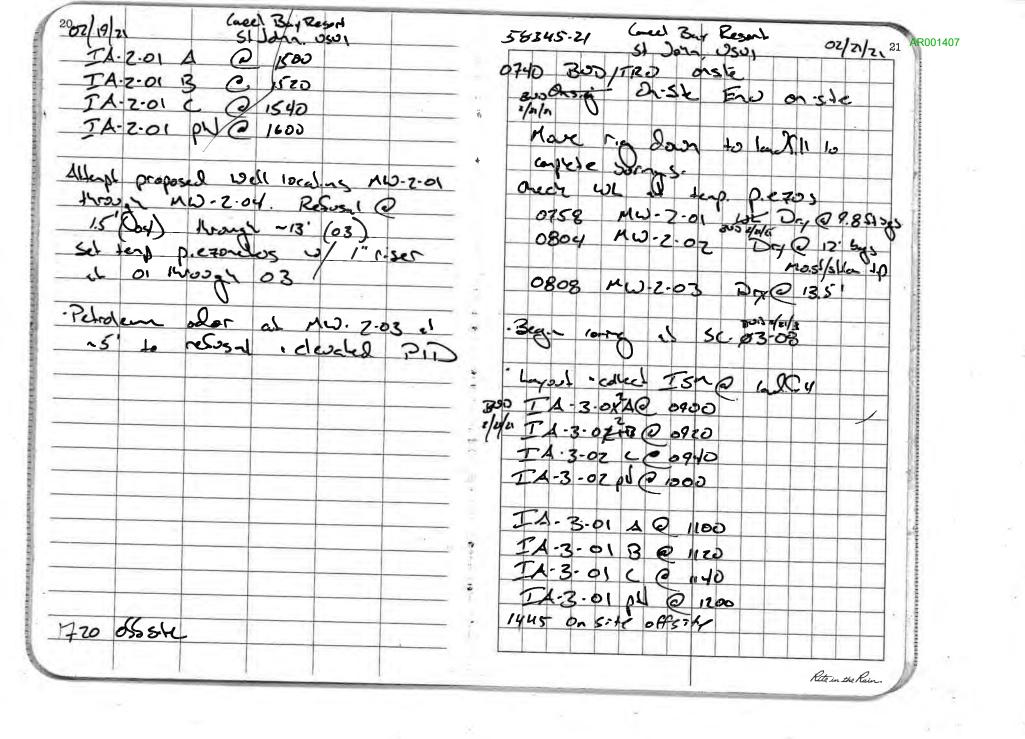
SI John USUI (med By Resor OZ/S/Z1 9 58345.21 Descrob SC-3124-01 1010 Se new Constrol on arand Turle Buy Beach some / clesos/ faul SC-BIN-02 1020 Composite of 3 localing Zolves sleet S Sales Harry of SC. 3 12-03 1030 160 cosc 0 clesons (m EC-312, 04 Jul 2016 1200 1120 Howtenes Soilly roos collected dipily Rite in the Rain.

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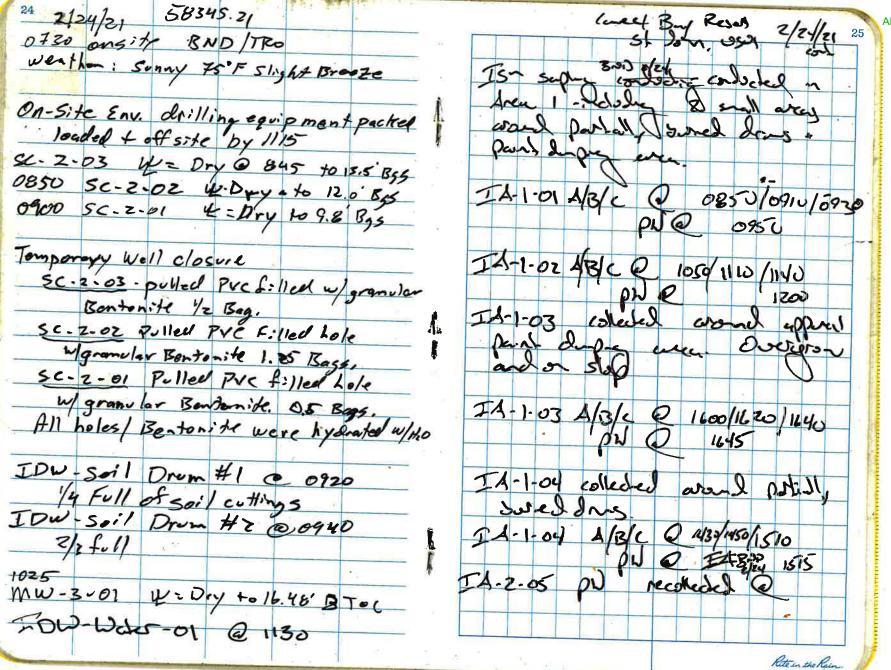
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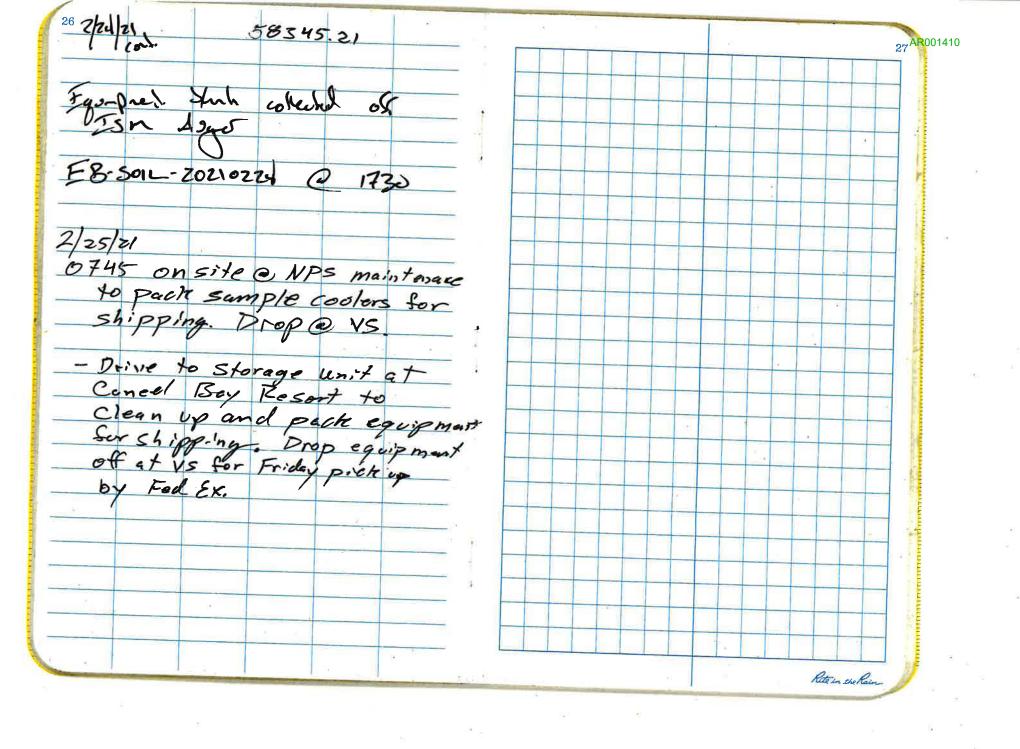






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# **Appendix 2 – Photographs of Field Activities**



# **Appendix 2 – Photographs of Field Activities**



Photograph 1. View of construction and damage typical of Site structures along Scott Beach. VHB selected discrete surface soil samples for lead analysis to be representative of groups of buildings based on apparent similarity of construction and damage. Sample SC-Bldg-05 collected from along drip lines in the back of these structures. SC-Bldg-06 collected from along drip lines of debris piles in this area.

Date: February 15, 2021

Time: 14:41



Photograph 2. View of roofing debris typical of that observed scattered across Site. Debris includes wood, sheet metal, and damaged tar paper with visible exposed fibers (possibly asbestos).

Date: February 13, 2021

Time: 11:14



Photograph 3. View of subsurface utility clearance using GPR and EMI of proposed drilling location along access road to Honeymoon Beach.

Date: February 11, 2021

Time: 15:09



Photograph 4. View of tank level gauge and suspected metallic fuel lines observed in the basement at Cottage 7 (identified as the former bomb shelter by CBIA representatives). Metallic lines were traced to the exterior of the building using EMI.

Date: February 12, 2021

Time: 12:06



Photograph 5. View of asbestos pipe identified during the Level 2 investigation in Area 2 located and exposed. Pipe appears to head to the west towards the former greenhouses. Similar, possible asbestos pipes were observed in other areas of Area 2 and in Areas 1 and 3. Debris in background limited access to parts of IA-2-04.

Date: February 18, 2021

Time: 10:50



Photograph 6. View typical of area of paint apparently dumped on ground surface in southeastern portion of Area 1. VHB defined surface soil decision unit IA-1-03 to encompass this area.

Date: February 18, 2021

Time: 16:21



Photograph 7. View of at least 12 partially buried, rusted drums observed in eastern portion of Area 1. The drums contained washed gravel. VHB defined surface soil decision unit IA-1-03 to encompass this area.

Date: February 18, 2021

Time: 15:49



Photograph 8. View of exposed waste (including aluminum, steel, plastic, building materials, and unknown organic material) along the landfill's southern face and apparent seeps. VHB defined surface soil decision unit IA-3-04 to encompass the seep area and characterize potential contaminant migration to the apparent wash.

Date: February 23, 2021

Time: 15:24



Photograph 9. View of soil core collected at SC-3-08 from 10 to 15 ft bgs, typical of waste/fill material observed in cores collected in the debris landfill. Waste/fill observed in cores included sandy silt, gravel, brick, glass, plastic, tar paper, concrete, fabric, wire, unknown organic matter, wood, and leaf litter.

Date: February 21, 2021

Time: 10:08



Photograph 10. View to north of monitoring well MW-3-01 installed at the southeastern edge of the debris landfill. VHB selected the well location to coincide with the locations of the apparent seeps observed along the southern edge of the landfill.

Date: February 23, 2021

Time: 16:38



Photograph 12. View of subsurface soil sampling at SC-2-05, immediately to the north of the fuel dispenser. VHB observed visual, olfactory, and PID evidence of petroleum contamination in the soil core at this location from approximately 3.5 to near refusal at 23 ft bgs.

Date: February 22, 2021

Time: 13:04



Photograph 13. View of surface completion of existing monitoring well MW-1. The vault and well screen/riser are perforated to the ground surface. Well may receive surface runoff from surrounding paved area.

Date: February 25, 2021

Time: 10:55



# **Appendix 3 – Daily Reports**

	CANEEL BAY EE/CA INVESTIGATION  DAILY PROGRESS REPORT				
Date:	2/11/2021				<b>Vinb</b>
VHB Reporter:	Ben Deede	Time on-site:	830	Time Off-site:	1630
Weather:	Morning			Afterr	noon
	70-90 deg F			70-90 deg F	
	Clear, calm			Clear with pass	ing showers
	Intermittent showers/heavy rain				
	0	ther On-Site Pers	sonnel		
National Park Service (NPS):		Sabrina Diaz, Da	ve Horner		
VHB:		Bob Osborne			
Subcontractors:		On-Site Environmental			
Caneel Bay Rep	resentative:	Brad Dow, Fred	lannazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	NA			
	Completed:	NA			
	Discrete Samples:	NA			
	Notes:	NA			
ISM Samples	Sampled:	NA			
	Notes:	NA			
Lead-based paint soil samples	Sampled:	NA			
Samples	Notes:	NA			
Asbestos Survey	Notes:	Landfill area, asbestos samples SC-AS-01 through SC-AS-08 collected			
GPR and EMI Survey	Notes:	Completed in Area 3. Four well locations completed in Area 2 with 1 remaining. Two anomalies identified in landfill - marked out. Linear in nature - likely debris - possible tree trunks, etc.			
IDW	Sampled:	NA			
	Notes:	NA			
Safety Briefing Performed?		NA			

#### Other Reportable Activities, Problems/Deviations, Required Follow-Up

Discussed transformer issues with Fred Iannazzi (environmental consultant for CBIA). There are 25 transformers at CBR, 3 are leaking. Identified 1 leaking transformer within IA-2-02. They've reported and initiated cleanup. Fred indicates they are post-1996 and contain mineral oil. The 25 transformers are now being monitored. Discussed soil excavation at ASTs with Brad and Fred. The tanks are owned by Pomo (spelling?) and the release was theirs as well. The soil was eventually removed from site by Pomo. Discussed landfill with Dave; he said it looks different than the last time he had seen it a few years ago, a berm appears new and regrading may have occurred. Dave said if deer were killed, they were probably buried there and he had buried a donkey there that had to be put down.

Shipping			
Cooler destinations, COC numbers	None. Asbestos samples to be shipped on Friday morning.		

### Photographs



View of Area 3 (Landfill Area) from entrance to south



View of Area 3 behind/to east of landfill berm that appears to be comprised of fill. Cleared for possible additional boring.



View of Area 2 AST area looking SE. Stained soil visible in foreground.



View of Area 2 AST area, looking SW upslope to 3 ASTs. Note growth relative to previous site visits.



Leaking transformer within IA-2-02. Soil has been cleared away from transformer.



Utility poles stacked in IA-2-02, blocking access to part of the DU.



View into IA-2-01 looking east. Note thick vegetation.



View of Cottage 7, note dense vegetation.

CANEEL BAY EE/CA INVESTIGATION  DAILY PROGRESS REPORT					
Date:	2/11/2021				<b>Vinb.</b>
VHB Reporter:	Ben Deede	Time on-site:	810	Time Off-site:	1630
Weather:	Morning			Aftern	ioon
	70-90 deg F			70-90 deg F	
weather.	Partly Cloudy, passing showers			Mostly sunny, humid	
l	Intermittent showers/heavy rain				
	0	ther On-Site Pers	onnel		
National Park Service (NPS):		NA			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environmental			
Caneel Bay Rep	resentative:	Brad Dow, Fred lannazzi			
	<del>,</del>	Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	NA			
	Completed:	NA			
	Discrete Samples:	NA			
	Notes:	NA			
ISM Samples	Sampled:	NA			
	Notes:	NA			
Lead-based paint soil	Sampled:				
samples	Notes	NA			
Ashastas	Notes:	NA			
Asbestos Survey	Notes:	NA			

GPR and EMI Survey	Notes:	Completed clearing remaining well in Area 2. Investigated asbestos pipe area in grounds and landscaping area of Area 2. We were unable to locate the previously identified pipe at the ground surface due to debris and overgrown vegetation. The cleared areas around the grounds and landscaping area were scanned for possible pipes. Two unknown pipes were identified at 2' bgs and 3' bgs that may fit prior descriptions of asbestos pipes. A fragment of possible asbestos pipe was identified near one of the markouts. Tracing of unknown pipes was limited due to overgrown vegetation and debris.  GPR and EMI reconnassiance was performed around Cottage 7 for evidence of historical USTs. A liquid level gauge and potential fuel lines were identified in the basement/bomb shelter. These lines were inducted and traced to the nothern exterior of the building. The signal was lost in the area of a sanitary sewer manhole and AC units. GPR was used to scan surrounding open areas, to the extent possible. No GPR anomalies were identified.  GPR and EMI reconaissance was performed at the former storage area below the catchment basin. The area appears to have been previously used for quarrying, storage, and possible disposal of debris. Fill and debris (including metal, buckets, concrete, 1 drum) are present on portions of the downslope side of the access road and storage area. Piles of fill, debris, and possible quarry material are also present along both sides of the storage area. Clear areas were scanned with EMI and GPR. A line was identified running along the length of the access road towards the catchment basin at approximately 2' bgs. A 22'L x 5'W GPR anomaly, at 2' bgs, was identified within one of the clearings. The storage area appears to continue south towards the catchment basin, but becomes overgrown and impractical for GPR scanning.	
IDW	Sampled:	NA S	
	Notes:	NA	
Safety Briefing Performed? Yes			
Other Reportable Activities, Problems/Deviations, Required Follow-Up			
The proposed drilling locations were walked with the driller and drilling logistics were discussed. Brad Dow indicated that water should be available for use by the drillers. Brad Dow provided access to the Cottage 7 basement/bomb shelter and to the storage area below the catchment.			
Shipping			
Cooler destinations, COC numbers	Landfill asbestos samples were shipped to EMSL Analytical, Inc.		

### Photographs



Debris and vegetation at the southern end of the Grounds & Landscaping building. This area was intended for GPR survey but the equipment could not access the ground surface.



View to west of unknown pipe (location matches some prior descriptions) markout (~2' bgs) crossing road in grounds & landscaping area, leading under former greenhouse (now overgrown). G&L equipment maintenance building visible behind to right. Broken pipe fragment (possibly asbestos) visible in foreground. Pipe was not observed at ground surface and could not be traced further.



4-inch standpipe at corner of building in Area 2, identified by Fred lanazzi as possible asbestos.



View of pipes leaving northern wall of Cottage 7 bomb shelter electrical room through possible asbestos carrier pipe. Note level gauge and possible fuel lines to right.



View of level gauge mounted on northern wall of Cottage 7 basement/bomb shelter. Medallion reads "The Liquidometer Corporation, Midget Levelometer. Serial 11." Based on the gauge graduations, the tank may have been  $\sim 300$  gallons.



GPR surveying in the cleared areas north of Cottage 7



View to west of traced possible fuel line from northern side of Cottage 7 basement/bomb shelter (marked with orange paint near center of floor).



View of traced possible fuel line to area AC units and probable sanitary sewer manhole. Signal was lost beneath the AC units. GPR tracing of surrounding cleared areas did not locate any anomalies. GPR search was limited by debris, AC units, and dense vegetation.



View to east of rusted oil drum and other debris - including metal, concrete, buckets, etc - downslope of storage area below catchment.



View to north of GPR anomaly (5'w x 22'L x 2'bgs) in clearing within storage area below catchment. Possible quarry area behind.

CANEEL BAY EE/CA INVESTIGATION  DAILY PROGRESS REPORT						
Date:	2/13/2021				<b>"vhb</b>	
VHB Reporter:	Ben Deede	Time on-site:	830	Time Off-site:	1330	
	Mornir	ıg		Aftern	noon	
	70-90 deg F	70-90 deg F		70-90 deg F		
Weather:	Clear, breezy			Clear, breezy		
	NA					
	0	ther On-Site Pers	onnel			
National Park Service (NPS):		NA				
VHB:		Bob Osborne				
Subcontractors:		NA				
Caneel Bay Rep	resentative:	Brad Dow, Fred Ia	annazzi			
		Activities	<u> </u>			
Groundwater	Sampled:	NA				
	Notes:	NA				
Borings	In-progress:	NA				
	Completed:	NA				
	Discrete Samples:	NA				
	Notes:	NA				
ISM Samples	Sampled:	NA				
,	Notes:	NA				
Lead-based paint soil	Sampled:	Collected soil samples SC-Bldg-01 through SC-Bldg-06			Dist. 00	
samples	N. (		•			
	Notes:	Samples collected Estate, Children's Beach rooms, and Samples collected where paint chips painted debris. Sa representative loc	s Center, Hawl d Scott Beach d along drip ed s were present amples were d cations.	senest Beach roodebris piles, residges of painted son surface, and composites of 3	oms, Scott spectively. surface, I drip edges of to 4	
Asbestos Survey	Notes:	Reconnaissance performed at Turtle Bay Beach rooms, Turtle Bay Estate, Children's Center, Hawksnest Beach massage cabanas, Hawksnest Beach rooms, and Scott Beach rooms. Tile flooring and walls are common but are generally intact. Fibers were not observed in grout or mortar. Fragments of plaster with visible fibers were observed outside to the south of the Turtle Bay Beach rooms. Sheetrock/plaster damage is present at Turtle Bay Beach rooms, Turtle Bay Estate, and Scott Beach rooms. Materials may have been carried to exteriors of buildings. Roofing debris with roll tar paper with visible exposed fibers was widespread across all areas. Associated roofing damage was observed at Turtle Bay Beach rooms, Turtle Bay Estate, and Scott Beach rooms. Roofing debris appears to be scattered hundreds of feet from associated buildings.				
GPR and EMI Survey	Notes:	NA				

IDW	Sampled:	NA	
	Notes:	NA	
Safety Briefing Performed?		Yes	
Other Reportable Activities, Problems/Deviations, Required Follow-Up			
Fred lannazzi asked about findings/recommendations at the storage area below the catchment (he was present for part of the survey but did not observe the GPR anomaly identification). We indicated that we would allow NPS to provide the results and could not make recommendations.			
Shipping			
Cooler destinations, COC numbers	NA		



1. View to south of north side of Turtle Bay Beach rooms. Note extensive damage to second floor rooms.



2. Fragment of plaster with visible fibers observed at Turtle Bay Beach rooms. Fragments were observed outside to the south of the rooms.



3. Roofing debris to south of Turtle Bay Beach, including roll tar paper with visible fibers. Turtle Bay Beach rooms visible in background.



4. Roofing debris, including roll tar paper with visible fibers in Turtle Bay Estate courtyard.



5. Larger view of roofing debris in Turtle Bay Courtyard



6. Roof and paint damage at Rooms 101 and 102 at Turtle Bay Estate.



7. View through east side of first floor room at Hawksnest Beach. >1 foot of sand in room.



8. View to east of Hawksnest Beach rooms. Roofing debris, with roll tar paper with visible fibers, from different building (possibly Scott Beach ~500 feet to the east) visible in foreground.



9. View of damage to Scott Beach rooms - view through room to west. Note missing roof and missing/damaged sheetrock/plaster ceiling.



10. Scattered roofing debris, including tar paper with visible fibers, to east of Scott Beach.

CANEEL BAY EE/CA INVESTIGATION  DAILY PROGRESS REPORT					
Date:	2/15/2021				"vhb.
VHB Reporter:	Ben Deede	Time on-site:	800	Time Off-site:	1730
	Mornir	ng		Aftern	noon
Weather:	70-90 deg F			70-90 deg F	
weather:	Mostly sunny, breezy,	early shower		Clear, breezy	
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	Kelly Kachurak			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	Depth to groundy total depth meas			at 6.53 ft btoc;
Borings	In-progress:	NA			
	Completed:	NA			
	Discrete Samples:	NA			
	Notes:	NA			
ISM Samples	Sampled:	NA			
	Notes:	NA			
Lead-based paint soil samples	collected SC-Bldg-101, duplicate of SC-Bldg-08. Collected				
Notes:  Samples collected at Cottage 7 rooms, rooms 5 26-29, rooms 30-49, rooms 14-25, and the Bead dining room. Samples collected along drip edge surface, where paint chips were present on surfacedges of painted debris. Samples were compos representative locations.			ch Terrace es of painted face, and drip		

Asbestos Survey	Notes:	Reconnaissance performed at Cottage 7 rooms, Paradise Beach rooms, Cottage Point rooms, Caneel Beach rooms, the Beach Terrace dining room, and Equator restaurant. Rooms 54-57, 26-29, and 50-53 (on Cottage point and Caneel Beach) appear to have been in the process of partial demoltion/renovation; drywall, plaster, masonry tile, ceiling tile have been demolished, rubble piles remain in some areas; there is evidence of possible ACM in remaining material. Weathered drywall debris with visible exposed fibers was observed along road to the NE of rooms 26-29. Significant storm damage was observed at rooms 15-25; roofs were missing from the immediate vicinity; drywall debris with visible exposed fibers was observed in rooms. The roof was partially missing at the Beach Terrace dining room; visble fibers were observed in roofing tar paper. remnants; localized drywall damage with visible exposed fibers was observed. The roof was also partially missing at the Equator Restaurant; visible fibers were observed in roofing tar paper; localized drywall damaged with visible exposed fibers was observed. Fragmented possible-ACM pipe was observed in the excavation behind Transformer 22 in the Engineering Area.
GPR and EMI Survey	Notes:	NA
IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

The drill rig and drilling equipment were delivered to the Site and a staging area was set up in the Engineering Area. The proposed boring and well locations were walked with the drillers. Fred lannazzi and Brad Dow expressed repeated concerns (today and previously) about obstructing shuttle traffic to Honeymoon Beach during drilling along the access road and driving the drill rig to the landfill; they would prefer us to do that work in the early morning or late afternoon. We have expressed that we will make efforts to be accommodating and to minimize our impact on operations. We have also expressed confidence that we can complete the work in a way that will allow shuttles passage. Leaking transformers 23 and 11, along with apparently relocated transformer 13 were observed with Kelly Kachurak. Soil has been removed from around transformer 22 and is piled nearby; sorbents are saturated and release of oil appears to be ongoing. Sorbent pads and granular sorbent have been applied around transformer 11; no soil has been removed. Transformer 13 does not appear to be leaking but is not on a pad and appears to have been relocated from its original location.

Shipping				
Cooler destinations, COC numbers	NA			

# Photographs



1. View behind leaking Transformer 22, in IA-2-02. Possible broken asbestos pipe in excavation.



2. View of apparently relocated transformer 13 near warehouse.



3. View of leaking transformer 23 near Sugar Mill Ruins. Note soil pile behind. Note concrete is wet with oil, sorbent pads are saturated; transformer appears to be continuing to leak.



4. View of leaking transformer 11, near Beach Terrace dining room



5. Partial demolition of Cottage Point rooms. Note removed tile and drywall and masonry, plaster, drywall, rubble with possible ACM.



6. View to west of drywall debris with visible fibers in foreground. Caneel Beach rooms behind.



7. Drywall debris with visible fibers to east of Caneel Beach rooms.



8. View to east of southern Caneel Beach rooms.



9. View of drywall debris with visible fibers in southern Caneel Beach room.



10. View to west in Equator Restaurant.

		EE/CA INVESTIGA DGRESS REPOR			
Date:	2/16/2021				<b>VINO</b>
VHB Reporter:	Ben Deede	Time on-site:	800	Time Off-site:	1800
	Mornir	ng		Aftern	noon
Ma ath an	70-90 deg F			70-90 deg F	
Weather:	Clear, humid, breezy			Clear, humid, b	reezy
	NA		1		
	0	ther On-Site Pers	sonnel		
National Park Se	rvice (NPS):	Kelly Kachurak			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	NA			
	Completed:	NA			
	Discrete Samples:	NA			
	Notes:	NA			
ISM Samples	Sampled:	IA-2-05 collected			
	Notes:	Three replicates 05 were adjusted field, particularly	I and remappe	d based on cond	litions in the
Lead-based paint soil samples	Sampled:	Collected soil samples SC-Bldg-13 through SC-Bldg-19. Collected SC-Bldg-102, duplicate of SC-Bldg-13.			
	Notes:	Samples collected at Equator Restaurant, Rooms 132-142, Rooms 143-152, Rooms 164-166, Rooms 5-13, the Gift Shop, and the Self Center, respectively. Samples collected along drip edges of painted surface, where paint chips were present on surface, and drip edges of painted debris. Samples were composites of 4 representative locations.			
Asbestos Survey	Notes:	Reconnaissance performed at the tennis courts, Rooms 132-142, Rooms 143-152, Rooms 153-163, the Fitness Center, Rooms 164-166, the residence near the Equator Restaurant, the residence near the WWTP, Rooms 1-4, Rooms 5-13, the Gift Shop, and the Self Center. Roof debris, from a different area, with visible fibers was observed at the tennis courts. Roof damage was observed at rooms 142-152; associated scattered debris with visible fibers was observed around those buildings and the Fitness Center. Drywall with visible fibers was observed at the Fitness center.			
GPR and EMI Survey	Notes:	NA			

IDW	Sampled:	NA					
	Notes:	NA					
Safety Briefing Performed?		Yes					
Oth	er Reportable Activiti	es, Problems/Deviations, Required Follow-Up					
witnessing an un indicated we wou (driller) did not re	Fred lannazzi and Brad Dow expressed concern about driving speeds through the property after witnessing an unrelated contractor driving fast down the Honeymoon Beach access road. We indicated we would inform our contractor of the site speed limit of 10 mph. On-Site Environmental (driller) did not receive the well materials as expected today. To move the work forward, drilling is planned to proceed with soil borings at the landfill tomorrow.						
Shipping							
Cooler destinations, COC numbers	NA						

## Photographs



1. View of damage to second floor room at rooms 143-152. Roll tar paper with visible fibers behind.



2. Roofing debris, including tar paper with visible fibers to west of fitness center. Fitness center behind.



3. View looking west of oil stain on drive to residence near Equator Restaurant. Possible granular sorbent on surface.



4. Possible asbestos-cement pipe north of landfill access road.

		EE/CA INVESTIGA OGRESS REPOR			
Date:	2/17/2021				<b>Whb</b>
VHB Reporter:	Ben Deede	Time on-site:	730	Time Off-site:	1630
-	Mornir	ng		Aftern	ioon
	70-90 deg F			70-90 deg F	
Weather:	Mostly sunny, humid, i showers	ntermittent		Mostly sunny, humid, intermittent showers	
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	Kelly Kachurak			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	Cores at SC-3-01, along the western edge of the landfill, were collected to 10 ft bgs. Drill tooling was lost down hole at around 14 ft bgs; On-Site spent much of the day trying to recover the tooling.			
	Completed:	None			
	Discrete Samples:	Samples SC-3-01 (0.5-2.5) and SC-3-01 (5-6') were collected from boring SC-3-01.			
	Fill (including glass, concrete, wood, and dark brow silt) was observed to 10 ft bgs (tooling lost at aroun bgs; no recovery past 10 ft bgs) at SC-3-01. Refusa encountered to 14 ft bgs. Additional solid waste (incopper wire, steel, and plastic) was observed during augering to recover the lost tooling.			ound 14 ft fusal was not (including	
ISM Samples	Sampled:	NA			
	Notes:	Proposed ISM DUs IA-Ref-02, IA-2-04, and IA-2-03 were staked out and adjusted to field conditions (e.g. the presence of concrete pads, buildings, debris piles). IA-Ref-02 was moved from the location indicated in the SAP to the area of proposed reference borings SC-Ref-01, SC-Ref-02, and SC Ref-03 due to the presence of steep slopes, dense vegetation, and rocky conditions in the original location.			
Lead-based paint soil samples	Sampled:	NA			
Garripics	Notes:	NA			
Asbestos Survey	Notes:	NA			
GPR and EMI Survey	Notes:	NA			

IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

The drill rig was successfully driven to the landfill at around 8:00 AM without issue or interfering with the Honeymoon Beach shuttle traffic. CBIA installed a gate at the entrance to the landfill. VHB added signage, in accordance with the CIP, to the gate. On-Site Environmental (Driller) did not receive the well materials until this evening. On-Site Environmental expererienced mechanical issues with the drill rig hammer; a replacement part has been ordered and is expected to be delivered to St. Thomas tomorrow and may be available at the site late tomorrow. Drill tooling, including the Driller's only drive shoe, were lost down-hole at boring SC-3-01; repeated efforts were made to recover the tooling but were unsuccessful. The drillers are expected to bring replacement equipment tomorrow.

Landfill surface soil sample results were received and do not show the presence of asbestos (all samples were negative except one with a result of 0.75%, which is below the asbestos threshold of 1% used at Valley Forge).

Shipping					
	Discrete lead samples and ISM samples from IA-2-05 were shipped to Eurofins/Test America Canton for anlaysis under Chains of Custody: 486542, 486541, 486540.				



1. View looking west of drill rig set up at SC-3-01, along western edge of the landfill.

		EE/CA INVESTIGA OGRESS REPOR	_			
Date:	2/18/2021				<b>Vinb.</b>	
VHB Reporter:	Ben Deede	Time on-site:	800	Time Off-site:	1700	
	Mornir	ng		Afterr	noon	
	70-90 deg F			70-90 deg F		
Weather:	Mostly sunny, humid, i showers	ntermittent		Mostly sunny		
	NA					
	0	ther On-Site Pers	sonnel			
National Park Se	ervice (NPS):	Kelly Kachurak				
VHB:		Bob Osborne				
Subcontractors:		None				
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi			
		Activities				
Groundwater	Sampled:	NA				
	Notes:	Depth to groundy MW-1 was redev pump.				
Borings	In-progress:	No progress at SC-3-01 - drillers not on-site				
	Completed:	NA				
	Discrete Samples:	NA				
	Notes:	Drillers not on-sit	e - waiting on	parts for the rig.		
ISM Samples	Sampled:	IA-2-03 and IA-2-04 collected.				
	Notes:	extents of both D conditions in the	Three replicates collected from both decision units. The extents of both DUs were adjusted and remapped based on conditions in the field, particularly the locations of concrete bads, buildings, and debris piles.			
Lead-based	Sampled:					
paint soil		NIA				
samples	Notes:	NA				
Asbestos	Notes:	NA A broken possible	a achaetae cor	ment nine was la	ocated at the	
Survey		ground surface ir ISM sampling - the interest in that are and determined the greenhouses. The approximately 2" observed in the served in the served staging paper with expose gravel staging are	n the grounds a nis is likely the ea. Approxima o be running to e top of pipe fo bgs. Possible couthern portio is tiles were ob g area. Piles of ed viisble fiber	and landscaping original asbesto tely 14' of pipe we the west, towar most of the exasbestos pipes of the gravel served in the eaf building debris,	area during s pipe of vas exposed rds the former cposed run is were taging area. astern area of including tar	
GPR and EMI Survey	Notes:	NA				

IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

Fred Jannazzi asked for an update on the status of our work. We indicated that updates should be provided through NPS. Kelly Kachurak plans to provide CBIA representatives with an update tomorrow. The drillers were not on site today as the necessary replacement parts for the drill rig did not arrive until late afternoon. Drilling work is expected to resume tomorrow. Reconnaissance of the gravel staging area in Area 1 was peformed in preparation of ISM sampling. The staging area appears to be cut into the slope to the east and filled to the east, towards the wastewater treatment plant. Concrete rubble is visible along the filled edge. At least 12 partially buried and significantly rusted drums were observed in the eastern potion of the area - in the same area as identied in the RSE. Some of the drums appear to have contained washed pebbles. A small pile of possible asbestos tile was also observed in the easter portion of the area. Building debris, including painted materials and tar paper with visible exposed fibers, was piled in the center of the area. Two possible asbestos pipes were observed in the southern portion of the gravel staging area; this area appears to have been used to dump paint. The former pumphouse at the wastewater treatment plant has been demolished; apparent containment pads have been built on the pad. The two covered basins are labeled with "Trans #22" AND Trans #23." A pile of apparent excavation debris is located to the northwest of the former pumphouse.

	Shipping				
Cooler destinations, COC numbers	NA				

## Photographs



1. Closeup of broken possible asbestos pipe in grounds and landscaping area to south of equipment maintenance building.



2. Exposed approximately 14 feet of possible asbestos pipe around landscaping shed in Area 2.



3. Partially buried 55-gallon steel drums (at least 12) in eastern part of gravel staging area. Note drums are heavily rusted.



4. Top of partially buried 55-gallon steel drum in gravel staging area. Some drums appear to have contained washed pebbles



5. Possible ACM tile in eastern portion of gravel staging area.



6. View to east of building debris piles in center of gravel staging area. Piles include painted materials and tar paper with visible exposed fibers.



7. Possible asbestos pipe at the southern end of the gravel staging area



8. Possible asbestos-cement pipe at the southern end of the gravel staging area. Note apparently dumped paint.



9. Area of apparently dumped paint at the southern end of the gravel staging area.



10. View looking south of demolition debris pile adjacent to former WWTP pump house. WWTP behind.



11. View looking south of apparent containment pads built on former WWTP pump house concrete pad. Tarps are labeled with "Tran. #22" and "Tran. #23".

		EE/CA INVESTIGA OGRESS REPOR			
Date:	2/19/2021				whb.
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1730
	Mornir	ng		Aftern	noon
	70-90 deg F		70-90 deg F		
Weather:	Mostly sunny, humid, i showers			Mostly sunny, humid, intermittent showers	
	NA				
	0	ther On-Site Pers	onnel		
National Park Se	ervice (NPS):	Kelly Kachurak			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	NA			
	Completed:	SC-3-01 through SC-3-07.			
	Discrete Samples:	3 ft bgs and 3-6 f	mples were collected from SC-3-02 through SC-3-07 at 0 tbgs and 3-6 ft bgs. Composite waste characterization mples were collected from about 0-6 ft bgs at all borings		
	Notes:	Borings were advanced to refusal at all locations. Refusal was encountered between 1.5 ft bgs at the northern end the landfill to 27 ft bgs at the southern end of the landfill. Recovery includes interbedded wood, leaf litter, concrete sandy silts, organic silts, silty clays, gravels, etc.			
ISM Samples	Sampled:	IA-Ref-02 collecte	ed.		
	Notes:	Three replicates were collected from IA-Ref-02. IA-Ref-02 was moved to the location of the proposed background borings SC-Ref-01 through SC-Ref-03, above and to the east of the landfill.			
Lead-based paint soil samples	Sampled:	NA			
	Notes:	NA NA			
Asbestos Survey	Notes:	NA			
GPR and EMI Survey	Notes:	NA			

IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

The drillers made necessary repairs to the rig in the morning and drilling resumed without further equipment issues. Kelly Kachurak provided an update on the progress of the work to Fred lannazzi and Brad Dow. VHB walked the staging area below the catchment with Kelly Kachurak; additional debris, including marine batteries, a jeep, car engine, car transmissions, and other autoparts were observed during the survey. We also walked the exterior perimeter of the landfill to the east and south. An apparent wash was discovered along the eastern and southern sides of the landfill, outside the brush berm - beginning in the quarry area and draining towards Honeymoon Beach. Two potential tributary washes were observed along the eastern side of the larger wash. It was not clear to what extent the wash was a result of excavation and/or erosion. Debris and solid waste, including plastic, steel, aluminum, pipes, tile, painted and unpainted wood, and car parts were observed along the exterior exposed face of the landfill. Some debris was also observed in the bed of the wash. Several small areas of salt deposits were identified along the exposed face of the landfill, suggesting areas of possible occasional seepage.

•	. •		
Shipping			
Cooler destinations, COC numbers	Two coolers, containing soil core and ISM samples, were shipped to Test America for analysis.		



1. View to south of landfill, drill rig set up at SC-3-02



2. View to east of landfill, drill rig set up at SC-03-7



3. View to north of landfill face from apparent wash.



4. View of exposed landfill face from apparent wash to south of landfill. Note steel, plastic, aluminum in fill.



5. View of tributary wash to apparent wash along eastern and southern sides of the landfill.



6. View of jeep, car engine, transmissions, and other car parts in southern end of the staging area below the catchment.

		EE/CA INVESTIGA OGRESS REPOR	_		
Date:	2/20/2021				<b>Whb</b>
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1720
	Mornii	ng		Aftern	noon
	70-90 deg F			70-90 deg F	
Weather:	Mostly sunny			Mostly sunny	
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	NA			
VHB:	, ,	Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	Depth to groundwater at MW-1 was measured at 6.72 ft btoc, indicating the water level is dropping at that location or the well has not fully recovered from redevelopment.			
Borings	In-progress:	Locations for proposed monitoring wells MW-2-01, MW-2-02, and MW-2-03 were cored, logged, and augered to refusal. Soils were dry. 1-in riser pipe was installed at each hole as temporary piezometers. Each will be checked for water tomorrow and Monday. Wells will be installed or the holes will be abandoned.			
	Completed:	Refusal was encountered at around 1 ft bgs at the proposed MW-2-04 location.			
	Discrete Samples:	No subsurface samples were collected.			
	Notes:	At MW-2-01, refu 2-02, refusal was refusal was enco odors and elevate to refusal. At MW a step-off was att at 1 ft bgs.	encountered untered at 13 ed PID reading -2-04, refusal	at 12 ft bgs. At N 2 ft bgs; there w gs from approxin was encountere	AW-2-03, ere petroleum nately 5 ft bgs d at 1 ft bgs,
ISM Samples	Sampled:	IA-2-02 and IA-2-	-01 were collec	cted.	
	Notes:	At IA-2-02, an inc vicinity of leaking this area is being locations were ac utility poles. At IA to scattered debr	transformer 2 addressed se djusted due to -2-01, some ir	2 because CBIA parately. Some small debris pile	stated that increment s and stacked
Lead-based Sampled: paint soil					
samples		NA			
-	Notes:	NA			
Asbestos Survey	Notes:	A possible asbes northeast corner the material.			

GPR and EMI	Notes:			
Survey		NA		
IDW	Sampled:	NA		
	Notes:	NA		
Safety Briefing	Performed?	Yes		
Other Reportable Activities, Problems/Deviations, Required Follow-Up				
None				
Shipping				
Cooler				
destinations,				
COC numbers	NA			



1. View of drill rig set up at proposed MW-2-03 location.



2. View of temporary piezometer installed at proposed MW-2-03 location.



3. View looking north thorugh IA-2-02, note increment in immediate vicinity of leaking transformer 22 was adjusted to avoid oil.



4. Possible asbestos-cement pipe identified in the northeastern corner of IA-2-01.

		EE/CA INVESTIGA DGRESS REPOR			
Date:	2/21/2021				<b>Vhb</b>
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1615
	Morning			Aftern	ioon
We of bow	70-90 deg F			70-90 deg F	
Weather:	Mostly sunny, showers	3		Mostly sunny	
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	NA			
VHB:		Bob Osborne			
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
,		Activities			
Groundwater	Sampled:	NA			
	Notes:	Temporary piezometers installed at proposed well locations MW-2-01, MW-2-02, and MW-2-03, were dry at 9.8 ft bgs, 12 ft bgs, and 13.5 ft bgs, respectively.			
Borings	In-progress:	NA			
	Completed:	SC-3-08 through SC-3-11 and SC-Ref-01 through SC-Ref-02.			
	Discrete Samples:	Samples were collected from 0.5-3 ft bgs at all borings and 3-6 ft bgs where possible.			
	Notes:	Refusal was encountered at background borings SC-Ref-01 through SC-Ref-02 at 0.7 ft bgs to 4 ft bgs. Refusal was encountered at landfill borings SC-3-08 through SC-3-11 at 12 through 22 feet.		ısal was	
ISM Samples	Sampled:	IA-3-01 and IA-3-02 were collected.			
	Notes:	IA-3-01 and IA-3-02 were adjusted to the current landfill footprint. A potential DU, IA-3-03, along the apparent wash to the south and west of the landfill was mapped.			
Lead-based paint soil samples	Sampled:	NA			
Notes: NA					
Asbestos Survey	Notes:	A possible asbestos-cement pipe was identified at the southwestern toe of the landfill.			

GPR and EMI	Notes:			
Survey		NA		
IDW	Sampled:	NA		
	Notes:	NA		
Safety Briefing	Performed?	Yes		
Other Reportable Activities, Problems/Deviations, Required Follow-Up				
None				
Shipping				
Cooler				
destinations,				
COC numbers	NA			



1. Logging soil cores at the landfill.



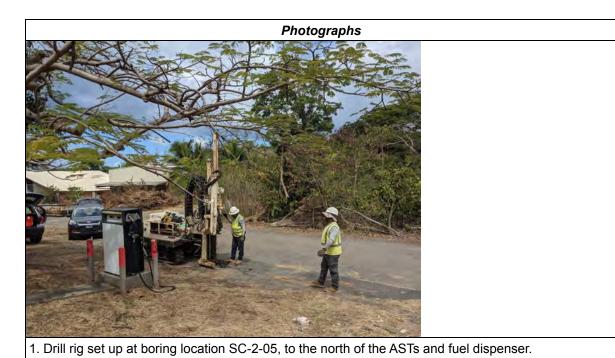
2. Possible asbestos-cement pipe at the northwestern toe of the landfill.

		EE/CA INVESTIGA OGRESS REPOR			
Date:	2/22/2021				<b>Vinb.</b>
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1745
	Morning			Aftern	ioon
Ma ath are	70-90 deg F			70-90 deg F	
Weather:	Mostly sunny			Mostly sunny	
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	NA			
VHB:		Bob Osborne, Jo	se Padrino		
Subcontractors:		On-Site Environn	nental		
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi		
		Activities			
Groundwater	Sampled:	NA			
	Notes:	MW-01 was slow 1.5 L.	purged and w	ent dry after app	proximately
Borings	In-progress:	NA			
	Completed:	SC-2-05 to the north of the fuel dispenser			
	Discrete Samples:	Samples SC-3-10 (0-3') and SC-3-10 (3-6') were recollected. Duplicates SC-101 and SC-102 were collected.			
	Notes:	At boring SC-2-05, refusal was encountered at 23 ft bgs. Petroleum odors and elevated PID readings were observed from 3.5 ft bgs to about 22 ft bgs. No additional cores were advanced because only this location was pre-cleared for utilities and the water piping from the ocean to the desalinization plant is thought to run up through this area avoid the possibility of breaking this pipe, VHB decided to core additional transects.		re observed cores were eared for he this area. To	
ISM Samples	Sampled:	IA-Ref-01 was co	llected.		
	Notes:	Three replicates collected from IA-Ref-01. The bounda the DU were unchanged from the proposed location, to northeast of the resort main entrance.			
Lead-based paint soil samples	Sampled:	NA			
-	Notes:	NA			
Asbestos Survey	Notes:	NA			

GPR and EMI Survey	Notes:	NA
IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

Per the 2/21 proposed changes to the scope and the 2/22 approval by NPS, VHB will install a monitoring well at the southern end of the landfill, near the observed possible seeps and additional ISM sample collection is planned. VHB surveyed boring locations at the landfill and in Area 2, as well as the topography of the landfill.

	•
	Shipping
Cooler destinations, COC numbers	Six coolers were prepared for shipment, but FedEx cancelled the scheduled pickup.



		EE/CA INVESTIGA OGRESS REPOR					
Date:	2/23/2021				<b>Vhb</b>		
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1715		
	Mornir	ng		Aftern	noon		
Weether	70-90 deg F		70-90 deg F				
Weather:	Mostly sunny			Mostly sunny			
	NA						
	0	ther On-Site Pers	sonnel				
National Park Se	ervice (NPS):	NA					
VHB:		Bob Osborne, Jo	se Padrino				
Subcontractors:		On-Site Environn	nental				
Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi				
		Activities					
Groundwater	Sampled: NA						
	Notes:	MW-3-01 was completed in the southern portion of the landfill at location of SC-3-09; well screen set at 9 to 14 ft bgs. Observed seep at southern toe of the landfill is approximately 10 ft below the ground surface at MW-3-01.					
Borings	In-progress:	NA					
	Completed:	NA					
	Discrete Samples:	NA					
	Notes:	NA					
ISM Samples	Sampled:	IA-3-03 and IA-3-04 were collected.					
	Notes:	Three replicates collected from IA-3-03 and IA-3-04 in the wash along the southern and eastern permiter of the landfill. IA-3-03 was collected from the wash bed or toe of the landfill starting from the first suspected seep downslope about 120 feet. IA-3-04 was collected from the suspected seep along the landfill slope to approximately 1 foot downslope, starting at the first suspected seep through the last suspected seep.					
Lead-based paint soil	Sampled:	led:					
samples		NA					
	Notes:	NA					
Asbestos Survey	Notes:	NA					

GPR and EMI Survey	Notes:	NA
IDW	Sampled:	NA
	Notes:	NA
Safety Briefing Performed?		Yes

## Other Reportable Activities, Problems/Deviations, Required Follow-Up

The drillers finished today and will demobilize tomorrow. They will transport the IDW drums to their warehouse in St. Thomas and arrange disposal pending waste characterization results.

The cooler containing soil samples shipped on 2/17/2021 was in a FedEx shipment that was grounded in Memphis by the storm last week. The samples were mostly discrete soil for lead analysis, but included one set of ISM samples from Area 2 around the ASTs. Those ISMs included VOC samples. There are only enough VOC jars on-site for one replicate of VOC samples if they must be recollected. VHB will check with the data validator on this issue today.

	Shipping					
Cooler destinations, COC numbers	Six coolers were shipped to the TestAmerica Canton lab.					



1. View looking north of MW-3-01 installed in the southeastern portion of the landfill, at boring location SC-3-09.



2. View of IA-3-03 ISM sampling layout along wash to south and east of landfill.



3. Exposed waste along exposed southern face of landfill/wash. Area included in IA-4-04.

Date:   2/24/2021   Time on-site:   740   Time Off-site:   1745			EE/CA INVESTIGA DGRESS REPOR						
Morning   Afternoon   70-90 deg F   Mostly sunny   Na	Date:	2/24/2021				<b>VINU</b>			
To-90 deg F   Mostly sunny   Na   Temporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.   ISM Samples   Isanpled:   Is	VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1745			
Mostly sunny   Mostly sunny		Mornir	ng		Afterr	noon			
Mostly sunny NA  Other On-Site Personnel  National Park Service (NPS): NA  VHB: Bob Osborne  On-Site Environmental  On-Site Environmental  On-Site Environmental  On-Site Environmental  On-Site Environmental  Sampled:  Activities  Activities  As ample was collected from MW-01 for analysis of VOCs, metals, and SVOCs.  MW-01 was purged dry on 2/23/21. When checked today, the well contained approximately 500 mL of water. Due to the limited volume, samples were only collected for analysis of VOCs, metals, and SVOCs - a reduced volume was collected for SVOCs. MW-3-01 was checked for groundwater and was found to be dry to 16.48 ft below top-of-casing. Temporary piezometers at SC-2-03, SC-2-02, and SC-2-01 were also checked and found to be dry.  Borings  In-progress: NA  Completed: NA  Discrete Samples:  NA  Notes:  IEmporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.  ISM Samples  IA-1-01 through IA-2-04 were collected in the gravel staging area near the wastewater treatment plant. The pH sample for IA-2-05 was recollected because shipment delays for the original sample would have resulted in the result being rejected.  IA-1-01 was collected from the southern portion of the gravel staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area. Some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the area of the partially buried drums at the eastern edge of the gravel staging area.	Moothory	70-90 deg F			70-90 deg F				
National Park Service (NPS): NA	vveatilei.	Mostly sunny			Mostly sunny				
National Park Service (NPS): NA		NA							
Subcontractors:   On-Site Environmental		0	ther On-Site Pers	sonnel					
Subcontractors:   On-Site Environmental	National Park Se	ervice (NPS):	NA						
Brad Dow, Fred lannazzi	VHB:		Bob Osborne						
Activities	Subcontractors:		On-Site Environn	nental					
A sample was collected from MW-01 for analysis of VOCs, metals, and SVOCs.	Caneel Bay Rep	resentative:	Brad Dow, Fred I	annazzi					
MW-01 was purged dry on 2/23/21. When checked today, the well contained approximately 500 mL of water. Due to the limited volume, samples were only collected for analysis of VOCs, metals, and SVOCs - a reduced volume was collected for SVOCs. MW-3-01 was checked for groundwater and was found to be dry to 16.48 ft below top-of-casing. Temporary piezometers at SC-2-03, SC-2-02, and SC-2-01 were also checked and found to be dry.    Borings   In-progress: NA			Activities						
the well contained approximately 500 mL of water. Due to the limited volume, samples were only collected for analysis of VOCs, metals, and SVOCs - a reduced volume was collected for SVOCs. MW-3-01 was checked for groundwater and was found to be dry to 16.48 ft below top-of-casing. Temporary piezometers at SC-2-03, SC-2-02, and SC-2-01 were also checked and found to be dry.  Borings In-progress: NA  Completed: NA  Discrete Samples: NA  Temporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.  ISM Samples  IA-1-01 through IA-2-04 were collected in the gravel staging area near the wastewater treatment plant. The pH sample for IA-2-05 was recollected because shipment delays for the original sample would have resulted in the result being rejected.  IA-1-01 was collected from the southern portion of the gravel staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area; some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the area of the partially buried drums at the eastern edge of the gravel staging area.  Lead-based paint soil samples  NA	Groundwater	Sampled:			W-01 for analys	is of VOCs,			
Completed:  Discrete Samples:  NA  Temporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.  ISM Samples  IA-1-01 through IA-2-04 were collected in the gravel staging area near the wastewater treatment plant. The pH sample for IA-2-05 was recollected because shipment delays for the original sample would have resulted in the result being rejected.  IA-1-01 was collected from the southern portion of the gravel staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area; some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the the area of the partially buried drums at the eastern edge of the gravel staging area.  Lead-based paint soil samples  NA		Notes:	the well contained approximately 500 mL of water. Due to th limited volume, samples were only collected for analysis of VOCs, metals, and SVOCs - a reduced volume was collecte for SVOCs. MW-3-01 was checked for groundwater and was found to be dry to 16.48 ft below top-of-casing. Temporary piezometers at SC-2-03, SC-2-02, and SC-2-01 were also						
Discrete Samples: NA   Temporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.	Borings	In-progress:	NA						
Temporary piezometers installed at SC-2-01, SC-2-02, and SC-2-03 were removed and the holes were abandoned.  ISM Samples  IA-1-01 through IA-2-04 were collected in the gravel staging area near the wastewater treatment plant. The pH sample for IA-2-05 was recollected because shipment delays for the original sample would have resulted in the result being rejected.  IA-1-01 was collected from the southern portion of the gravel staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area; some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the the area of the partially buried drums at the eastern edge of the gravel staging area.  Lead-based paint soil samples  NA		Completed:	NA						
SC-2-03 were removed and the holes were abandoned.		Discrete Samples:	NA						
area near the wastewater treatment plant. The pH sample for IA-2-05 was recollected because shipment delays for the original sample would have resulted in the result being rejected.  IA-1-01 was collected from the southern portion of the gravel staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area; some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the the area of the partially buried drums at the eastern edge of the gravel staging area.  Lead-based paint soil samples  NA		Notes:							
staging area. IA-1-02 was collected from the northern and eastern portions of the gravel staging area; some increments were adjusted due to the presence of debris. IA-1-03 was collected from the area of apparent paint dumping at the southern end of the gravel staging area. IA-1-04 was collected from the the area of the partially buried drums at the eastern edge of the gravel staging area.  Lead-based paint soil samples  NA	ISM Samples	IA-2-05 was recollected because shipment delays for original sample would have resulted in the result being				pH sample for lys for the			
paint soil samples NA	staging area. IA-1-02 was collected from the norther eastern portions of the gravel staging area; some in were adjusted due to the presence of debris. IA-1-0 collected from the area of apparent paint dumping southern end of the gravel staging area. IA-1-04 was collected from the the area of the partially buried displayed.					orthern and the increments the increments the increments that increments the increment increments the increment the increments the increment the increments the increment the incre			
	paint soil	Sampled:	NA						
	Campico	Notes:							

Asbestos Survey	Notes:	NA		
GPR and EMI Survey	Notes:	NA		
IDW	Sampled:	Samples for characterization were collected from two soil IDW drums and one decon/purge water IDW drum.		
		The three IDW drums (2 soil, 1 water) were placed on a pallet in the engineering area and covered with a tarp.		
Safety Briefing Performed?		Yes		

## Other Reportable Activities, Problems/Deviations, Required Follow-Up

The pH sample for IA-2-05 was recollected due to the delayed sample shipments. Based on coversations with the data validators, other samples are expected to be acceptable.

A field update was provided to Kelly Kachurak, in preparation for her update call with the CBIA representative.

Evidence of possible asbestos-containing debris being cleared/moved was observed on 2/23 near Hawksnest and Scott Beaches. These activities were not conducted for the EE/CA or by VHB or its subcontractors.

	Shipping
Cooler destinations, COC numbers	NA





2. View of IA-1-04 staked out for ISM sampling, around partially buried drums at the eastern edge of Area 1.



3. IDW drums (2 soil, 1 water) placed on a pallet, covered, and stored in the engineering area.



4. View to west of propane tank near Hawksnest Beach where debris has been cleared to provide access.



5. View to south of walkway near Scott Beach; debris has been cleared since last seen.

		E/CA INVESTIGA DGRESS REPOR			
Date:	2/25/2021				"vhb.
VHB Reporter:	Ben Deede	Time on-site:	740	Time Off-site:	1400
	Mornir	ng		Aftern	ioon
Weather:	70-90 deg F			70-90 deg F	
weather.	Mostly sunny		Mostly sunny		
	NA				
	0	ther On-Site Pers	sonnel		
National Park Se	ervice (NPS):	NA			
VHB:		Bob Osborne			
Subcontractors:		NA			
Caneel Bay Rep	resentative:	NA			
		Activities			
Groundwater	Sampled:	NA			
	Notes:	NA			
Borings	In-progress:	NA			
	Completed:	NA			
	Discrete Samples:	NA			
	Notes:	NA			
ISM Samples	Sampled:	NA			
	Notes:	NA			
Lead-based paint soil	Sampled:				
samples		NA NA			
Asbestos Notes: Survey		NA			
GPR and EMI Survey	Notes:	NA			
IDW	Sampled:	NA			
Notes:		NA			
Safety Briefing	Performed?	NA			

## Other Reportable Activities, Problems/Deviations, Required Follow-Up

The VHB field crew met with Nigel Fields to provide an update on the fieldwork performed and expectations for receiving data. The key for the landfill monitoring well, MW-3-01, was left with Nigel Fields.

Equipment and sampling supplies were moved out of storage at the Virgin Islands National Park visitor center and the Caneel Bay Resort. Equipment was shipped back to VHB and the equipment rental company. Select supplies were left in the Park Natural Resource Management storage area, per discussions with Thomas Kelley.

All remaining samples were shipped to appropriate laboratories for analysis. All previously shipped coolers arrived today at the TestAmerica Canton laboratory.

coolers arrived to	day at the restAmenta Canton laboratory.
	Shipping
Cooler destinations, COC numbers	Seven coolers with the remaining samples were shipped to the Test American Canton (4), Pittsburgh (2), and Lancaster (1) labs.
	Photographs
ı	
ı	
No photographs	were taken today



## **Appendix 4 – Calibration Sheets**

100 State Street, Suite 600 Montpelier, VT 05602

Fax: (802) 229-5876 www.vhb.com

Job Name: Caneel Equipment ID:	l Bay Resort Sit	te	Job #:58345.21				
Equipment ID:							
		Serial # 592 •	908448	Lamp: 10, LeV			
Brand of Standard		Pine Env		Pine # 20 829			
Lot #		4031081					
Expiration Date		4/23					
Date	Time	Initials	100 ppm Isobutylene Value (ppm)	Site Background Value (ppm)			
2-17-71	0900	TRU	100.0	D.Oppm			
2-19-21	0815	TRO	100.0	0.0 ppm			
2-20-21	0820	7100	100.0	0.0			
2-21-21	0 830	TRO	100.0	0.0			
2-22-21	0 900	TRO	(00.0	0.0			
2-23-21	0845	TRU	100.0	0.0			

The Johnson ( 100 State Street, Suite 600 Montpelier, VT 05602

YSI CALIBRATION SHEET

Phone 32) 229-4600

Fax: (802) 229-5876

Job Name: NPS Brand of Standard							1	#: Pine# 1		Serial #: /			
Lot #			YSI	Oakton	Oakton	Oakton	Oakton	Oakton	YSI	YSI	YSI		Oakton
		*******	-	6/21	_		10/22	6/22	5/31		_		670227
Expiration Date	ī		-	066745	_		065904	06F660	0641018	_	_	- 1	3/21
Date	Time	Initials	YSI Temp °C	Specific Cond. 1.413 ms/cm	Specific Cond.	pH 7.00	pH 4.01	pH 10.00	ORP-Zobell Solution (200- 275mV)	Barometric Pressure (mmHg)	(%)	6 D.O. (mg/L)	Zero O <sub>2</sub> Solution (mg/L)
Calibration Z-ZZ-Z(	1620	TRO	26.34	1.413	ms/cm	7.00	4.01	10.00	229.5	713.9	100.5	8.04	
End of Day Check	_	_			_	_	_	_	1	1	_	_	~
2-23-21	1000	TZU	27.41	1.413	-	7.00	4.01	10. UZ	228.0	766.9	100.9	7.87	0.54
End of Day Check													
Calibration													
End of Day Check													
Calibration													
End of Day Check													
Calibration				-							1		
End of Day Check													
Calibration													
End of Day Check													
Calibration													
End of Day Check									-				
Calibration													
End of Day Check													
Calibration													
End of Day Check													

NIST Certified Thermometer Check (Date/Results): \_\_\_\_\_\_ (must be completed at least once per year)

VHB 100 State Street, Suite 600 Montpelier, VT 05602

Phone: (802) 229-4600 Fax: (802) 229-5876 www.vhb.com

				TURBIDITY	METER CAL	LIBRATION SHEET		
Job Name: C	aneel Bay Re	sort Site				Job #: 58345.21		
Equipment II	D: HACH					Serial #: 18090C06936Z / Pine# 043966		
Brand of Star			HACH			->		
Lot#			70304	A0 304	A0 296	to srg		
Expiration D	ate:		10 2/32	2/22	800 107	1/22 Comments		
Date	Time	Initials	NTU Value	100 NTU Value	750 NTU Value	20 NTU Value		
2-22-21	1610	TRO	10.1	920	791	20.2		
2-23-21	0840	TIZO	10.2	98.9	790	19.7		

\\vhb\gbl\proj\\Montpelier\58345.21 NPS Caneel Bay Resort\Reports\2021-02 EECA Planning Documents\EECA SAP\Appendices\Appendix 1 - Field Forms\Turbidity Calibration sheet.doc