

June 7, 2021

Farhad Bolourchi, MSCE
Project Coordinator - Development Division
Community Service Department - City of Huntington Beach
2000 Main Street
Huntington Beach, California 92648

**Subject: Focused Area Waste Limit/Depth Evaluation
Edison Park, Huntington Beach, California**

INTRODUCTION

At the request of City of Huntington Beach, Community Services Department (City), Geosyntec Consultants Inc. (Geosyntec) has prepared this letter report documenting the results of limited subsurface investigations to evaluate the approximate lateral limit(s) and depth(s) of existing waste along a selected portion of the eastern edge of the former Canary Street Refuse Disposal Station (Landfill) at Edison Park (hereafter Site). The requested area for waste delineation at the Site is shown on **Figure 1** as it was provided to Geosyntec by the City in January 2019. The objective of the scope of work performed by Geosyntec was to collect field data to support the City in its evaluation of potential locations/types of proposed facilities/amenities at the Site.

BACKGROUND

Edison Park was constructed over the Cannery Street Former Refuse Disposal Station, also previously known as Cannery Street Landfill (CSL) in early 1970s. The CSL is approximately 27.5 acres, located in the City of Huntington Beach at the northwest corner of the intersection of Magnolia Street and Hamilton Avenue. The site's formal address is 21379 Magnolia Street, Huntington Beach, California 92647.

Some of the existing facilities/amenities at the Site are constructed on top of waste material deposited at the former CSL. Settlement, differential settlement, and potential sinkholes are typically expected to occur at facilities constructed on top of waste. The effect of settlement, differential settlement and/or a combination of both are observed at the existing tennis courts, sidewalks, open park areas and other hardscape/amenities at the Site. However, the surface expression of settlement/differential settlement is more pronounced in the vicinity of the Tennis courts potentially limiting the functionality and aesthetics of the Tennis courts.

In 2018, the City retained Geosyntec to prepare a feasibility study to evaluate several alternatives for repairing or reconstructing settlement related damage to the existing park and recreational areas at the Site [Geosyntec, 2018].

Geosyntec performed two site investigations for this project – the first investigation was performed between in November 2020 in the landscaped areas within the requested focus area and the second investigation was conducted on March 2021 in the areas of the park within the focus area currently under concrete slab.

PRE-FIELD INVESTIGATION ACTIVITIES

Geosyntec prepared a Site-specific Task Hazard Analysis (THA) that identified Site conditions, potential hazards, hazard control, monitoring procedures, personal protective equipment, and emergency procedures. Prior to field investigations, Geosyntec notified Underground Service Alert (USA) of southern California to mark and clear utilities in, and near to, the investigation focus area to reduce the potential for accidentally encountering buried utility lines. In addition, Geosyntec utilized the services of GEOVision, Inc. to perform a limited geophysical survey of the investigation focus area (and other potential boring/test pit locations) to evaluate potential buried underground utilities/features prior to performing field investigations. Geosyntec also obtained permits to advance soil borings from the Orange County Health Care Agency, Environmental Health Division, required under Orange County Well Ordinance (County Ordinance No. 2607) [Permit No. 20-08-22 and Permit No. 21-03-07]. The DigAlert ticket confirmations, field sketches provided by GEOVision and the soil boring permits are included here in **Appendix A**.

Geosyntec had, under a previous authorization from the City, prepared and submitted to the South Coast Air Quality Management District (SCAQMD) the required permit application package in general compliance with Rule 1150 which included an Excavation Management Plan. The permit application, was submitted on April 30, 2019 and deemed complete on May 03, 2019 [Application Number: 612262]. The SCAQMD issued the permit on September 11, 2020. An SCAQMD permit was not required for the second investigation. The permit issued by the SCAQMD for the first investigation and a copy of the Excavation Management Plan is included here in **Appendix B**.

FIELD INVESTIGATION

Test Pits

Five (5) exploratory test pits were logged between November 24 and November 25, 2020 by a Geosyntec engineer under the direction of a Professional Engineer licensed in the State of California to evaluate the approximate lateral limit(s) of the existing waste in the approximate areas shown on **Figure 2A**. The logs were prepared based on visual field observations of the exploratory test pits' exposed side-wall and retrieved soil cuttings. The logs include a general description of the encountered soils in accordance with the Unified Soil Classification System (USCS) and Standard Practice for Description and Identification of Soils (ASTM D2488) as well as a field sketch of the exploratory test pit wall showing interfaces of encountered materials. Geosyntec subcontracted with American Integrated Services, Inc. (AIS) to excavate and backfill the exploratory test pits using a standard backhoe.

The proposed exploratory test pits commenced at the approximate waste limit estimated by TRC [2001] as shown on **Figure 1**. The exploratory test pits were advanced to an approximate depth of 5 feet vertically and horizontally until existing waste limits are visually observed. Once waste was encountered in the exploratory test pit, efforts were made to reduce the excavation of additional material. Waste materials were not, to the extent practical, removed from the excavation. The exploratory test pits were generally advanced until waste material was encountered or until an obstruction such as surface concrete or other infrastructure was reached. Plastic tarps were placed with plywood sheeting to temporarily stage the test pit spoils during the excavation. Additionally, approximately 10 ft by 20 ft fence panels with windscreen attached were used to serve as a work exclusion area and visual barrier on three sides. Existing grass and topsoil were segregated from the exploratory test pits and replaced after backfilling the test pits directly with the materials excavated from the test pits. Backfill material was compacted in place to help provide unyielding condition using a roller attached to the end of the backhoe, however, density or moisture testing was not performed and/or required. Test pit logs are provided here in **Appendix C**.

Test pits were first advanced vertically until the waste material was encountered, and then advanced horizontally in an eastward direction to determine the lateral limit of the waste. The thickness of the soil overlying the waste were generally observed to range between 2 ft to 3.5 ft below the ground surface (bgs). Waste material was encountered at the five exploratory test pits (TP-1 through TP-5). Lateral limit of waste was delineated at test pits TP-1 and TP-2; however, the lateral limit of waste could not be identified at test pits

TP-3, TP-4, and TP-5. The approximate lateral limits of the waste as observed by the exploratory test pits are indicated in **Figures 2A and 2B**. A summary of test pit dimensions, thickness of the soil layer/depth to the top of waste is presented in **Table 1**.

Table 1: Summary of Test Pits

Test Pit ID	Width (ft)	Length (ft)	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Total Depth (ft bgs)
TP-1	3.5	19.5	3.0	4.5
TP-2	3.5	8.0	2.0	2.5
TP-3	3.5	21.5	3.0	3.5
TP-4	3.5 - 7.5	15.0	3.0	4.0
TP-5	3.5	45.0	2.0	2.5 - 4
TP-5A	3.5	6.0	2.0	3.5

Hollow-Stem Auger Borings

ABC Livion Drilling, Inc, working as a drilling subcontractor to Geosyntec advanced five (5) hollow-stem auger (HSA) borings on October 28, 2020 in the landscape areas and seven (7) HSA borings on March 12, 2021 in the concrete covered areas. The purpose of the HSA borings was to estimate the thickness of the existing waste layer at the approximate locations shown on **Figures 2A and 2B**. The HSA borings advanced near the estimated lateral limits of waste (i.e., HSA-1 through HSA-3) started approximately 5 to 10 feet to the west of waste limit as observed by the exploratory test pits. The purpose of these HSA borings (i.e., HSA-1 through HSA-3) was to evaluate the depth of waste at or near the lateral limits of waste as observed by field measurements from the exploratory test pits. The objective of the HSA borings advanced near the Tennis Court (i.e., HSA-4 and HSA-5) was to estimate the depth of existing waste in the vicinity of the Tennis Court area. The objective of HSA-2A through HSA-8A was to confirm if waste is present under the existing concrete slab and determine its depth, if present. Borehole logs for the HSA borings are provided in **Appendix D**.

Each boring was logged by Geosyntec field engineer and includes a description of the encountered soils performed in general accordance with the USCS and Standard Practice for Description and Identification of Soils (ASTM D2488). Soil samples were collected from the HSA borings for logging and visual identification purposes, but no samples were retained for laboratory testing. Split-spoon samples were performed generally on the soil

material encountered at the bottom of the boreholes to estimate the depth of waste. Each boring was advanced to a minimum of 1 foot below the bottom of the waste material, or until refusal, to visually assess that bottom of waste was reached. The HSA borings were backfilled with hydrated bentonite chips and the upper six inches with topsoil. The cuttings were containerized in 55-gallon drums, stored on-Site pending waste profiling, and disposed off-Site by AIS under waste manifest. Groundwater levels encountered in the HSA borings were recorded using a water level indicator. The depths to encountered groundwater at each of the HSA are listed in **Table 2**.

The thickness of the soil overlying the waste material, as observed from the HSA borings were found to range between 2 ft to 3.5 ft bgs. Borings HSA-4 and HSA-5 were advanced to depths of 34 ft and 41.5 ft bgs, respectively. Borings HSA-1, HSA-2, and HSA-3 were advanced to depths of 11.5 ft, 16.5 ft, and 21.5 ft bgs, respectively. HSA-2A through HSA-8A were advanced to depths that ranged from about 16.5 to 18 feet. The depths of groundwater encountered in the landscape HSA borings (HSA-1 through HSA-5 performed) were observed to range between 8 and 12 ft bgs. The depths of groundwater encountered in borings (HSA-3A through HSA-5A, HSA-7A and HSA-8A) were observed to range between 12.5 and 16.5 ft bgs. Groundwater was not encountered at borings HSA-2A and HSA-6A. The depth of waste was identified in the HSA borings where waste was encountered except HSA-4, which hit refusal at a depth of 34 ft bgs before reaching the bottom of the waste. A summary of the HSA borings including the depth/thickness of the soil layer and waste, and the depth to groundwater is presented in **Table 2**.

Table 2: Summary of HSA Borings

Boring ID	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Depth to bottom of Waste (ft)	Waste Thickness (ft)	Total Depth (ft bgs)	Depth to Groundwater (ft bgs)
HSA-1	3.5	10.5	7.0	11.5	10.5
HSA-2	2.5	15.5	13.0	16.5	12.5
HSA-3	2.5	20.5	18.0	21.5	11.0
HSA-4	2.0	–	>32.0	34.0	8.0
HSA-5	2.5	40.5	38.0	41.5	12.0
HSA-2A*	3.0*	10*	7.0*	16.5	Not observed
HSA-3A*	2.5*	10*	7.5*	16.5	15

Boring ID	Soil layer thickness/ Depth to Top of Waste (ft bgs)	Depth to bottom of Waste (ft)	Waste Thickness (ft)	Total Depth (ft bgs)	Depth to Groundwater (ft bgs)
HSA-4A*	2.5*	5*	2.5*	16.5	14.0
HSA-5A*	2.5*	15*	12.5*	17	16.5
HSA-6A*	2.5*	15*	12.5*	16.5	Not observed
HSA-7A*	3*	10*	7*	18	13.5
HSA-8A*	2.5*	11*	8.5*	16.5	12.5

*Soil materials encountered in this borehole contained slight traces of waste materials based on visual and odor field observations. No clearly defined waste layer was encountered in this borehole. Slight waste traces observed in this borehole may not be part of a continuous waste layer.

The approximate locations of the exploratory test pits and HSA borings were recorded using a hand-held global positioning system (GPS) unit.

Daily field reports with photo logs for the field investigation activities are included in **Appendix E**.

Air Monitoring

Geosyntec provided air monitoring services during the first field investigation phase of the project. The air monitoring was performed by Geosyntec in general accordance with the requirements of the SCAQMD Rule 1150. The general prevailing wind direction at the site was typically onshore from the west-southwest to east-northeast. The upwind and downwind monitoring locations are shown on **Figure 1**.

In accordance with the requirements of the SCAQMD Rule 1150, the following air quality parameters were monitored:

- Particulate matter (dust) as PM₁₀ – PM10 monitoring will be performed using a DustTRAK DRX Handheld Aerosol monitor. Dust monitoring was conducted approximately every 60 minutes throughout the workday at the upwind and downwind monitoring locations. Action levels for dust at the monitoring locations was set in accordance with the SCAQMD Rule 1150 requirements at 0.05 mg/m³ above background. The recorded PM₁₀ levels were below the action level of 0.05 mg/m³ above background.
- Total Organic Compounds (TOCs) as methane – Continuous monitoring of TOC was conducted using an QRAE III monitoring equipment at the working face of

the excavation and at the downwind property monitoring location. The maximum sustained readings (greater than 15 seconds) were recorded at approximately every 15 minutes. Action levels for TOC readings at the excavation face and downwind property monitoring location was set at 500 ppmv and 200 ppmv, respectively, in accordance with the SCAQMD Rule 1150 requirements. The recorded TOC level were below the action levels at the monitoring locations.

- Odor – Unusual odor or increase in odor was not detected by Geosyntec personnel during the test pit excavation or HSA drilling.
- Local Weather – Local weather parameters were monitored at approximately every 15 minutes throughout the workday. Ambient Temperature (°F), and Wind Direction were monitored digitally from the KCAHUNT143 weather station located in close proximity to the Site. Wind Speed (miles/hour) was measured using a handheld Kestrel 4000 monitoring device.

Daily air monitoring logs are provided in **Appendix E**.

FINDINGS

Waste Delineated

Lateral limits of waste was delineated at two test pit locations (TP-1 and TP-2). Figure 2 shows an approximate limit of waste as identified from the test pits. The approximate depths to the encountered waste layer at TP-1 and TP-2 were 3.5 ft bgs and 3 ft bgs, respectively.

Waste Not-Delineated

Waste was identified at three test pit locations (TP-3, TP-4, and TP-5); however, the lateral limit of waste was not identified. It is likely that the lateral limits of waste at these locations may extend eastward past the obstruction such as the concrete slab at TP-3 and TP-4, and concrete sidewalk at TP-5. The approximate depths to waste from existing surface at TP-3, TP-4, and TP-5 ranged between 2 to 3 ft bgs.

Waste Depth

The depths of waste at HSA borings near the estimated lateral limits of waste (HSA-1 through HSA-3) were found to range between 10.5 ft and 20.5 ft bgs. The depth of waste at HSA-5 near the northern edge of tennis court was observed to be approximately 40.5 ft bgs. The depth of waste at HSA-4 near the southern edge of the tennis court could not be identified due to refusal, however waste was still observed up to 34 ft bgs. The

depths of waste at the borings under concrete slab (HSA-2A through HSA-8A) were found to range between 5 ft and 15 ft bgs.

Waste and Soil Layer Characteristics

The soil layer at the Site was visually classified as silty sand (SM) in general accordance with ASTM D2488. The thickness of the soil layer generally ranged between 2 to 3.5 ft bgs. The waste material encountered at the site generally composed of dark gray asphalt concrete debris and decayed wood pieces within the landscape areas and dark gray, medium to high plasticity clay soils, with trace debris and slight organic odor within the concrete slab areas. The waste materials did not have any unusual odor. The above characteristics of the waste material was consistent throughout the investigation locations.

Groundwater

Groundwater was encountered at all five HSA boring locations in the landscape areas and all but two HSA borings in the concrete slab areas. The depth to groundwater in the landscape borings generally ranged between 8 to 12 ft bgs. The depth to groundwater in the concrete slab borings generally ranged between 12.5 to 16.5 ft bgs except at HSA-2A and HSA-6A where groundwater was not encountered.

SUMMARY AND RECOMMENDATIONS

In general, existing waste limit was delineated along the Eastern limit of the CSL as identified by Test Pits (TP-1 and TP-2). However, the existing waste limit along the Southern Section of the Eastern limit of CSL was not delineated due the existing structures and/or concrete lined areas. Test Pits (TP-3, TP-4 and TP-5) were advanced until the test pit encountered a structure and/or lined areas. Based on borings HSA-2A through HSA-8A, traces of waste material impeded within soil layer is present under the concrete slab within the focus area as shown in **Figure 2B**. However, the exact waste amount that maybe impeded in the soil layer located in areas under the concrete slab of the site is not known. Geosyntec recommends that field observations and monitoring services are performed by an experienced landfill engineer during the construction and/or excavation phase of the project to help further identify the limit of potential waste materials. Geosyntec also recommends that excavation and/construction activities in the areas described in this letter report are performed by a licensed Contractor with extensive experience in working in landfill environments. Proposed design features, amenities and structures should take into consideration the potential presence of waste materials in the areas described in this letter report. Furthermore, Geosyntec recommends that the design team for proposed structures and park amenities work closely with an experience landfill

engineer that can provide design input recommendation including but not limited to potential settlement, methane, drainage, irrigation and other design considerations.

LIMITATIONS

The conclusions and professional opinions presented in this letter report were prepared for the City of Huntington Beach in accordance with generally accepted geotechnical and landfill engineering principles and practices.

The subsurface conditions presented in this letter report are based on information obtained from a limited number of exploratory test pits and HSA borings advanced to evaluate lateral limits and depths of the existing waste.

The data, conclusions, and recommendation contained herein should be considered only for this specific project and locations discussed in this letter report. Geosyntec is not responsible for any conclusions or recommendations that may be made by others, unless we have been given an opportunity to review such conclusions and/or recommendations and concur with them in writing. If any changes are made in the project as outlined in this letter report, the conclusions and/or recommendations contained in this letter report shall not be valid unless the changes are reviewed and the conclusions and/or recommendations of this letter report are modified or approved in writing by Geosyntec.

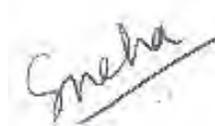
CLOSURE

We appreciate the opportunity of assisting you on this important project. If you have any questions about this letter report, or require additional information, please do not hesitate to call the undersigned at (714) 969-0800.

Sincerely,



Karthik Viswanathan, E.I.T.
Engineer



Sneha Upadhyaya, Ph.D.
Senior Staff Engineer



Yonas B. Zemuy, P.E.
Principal Engineer

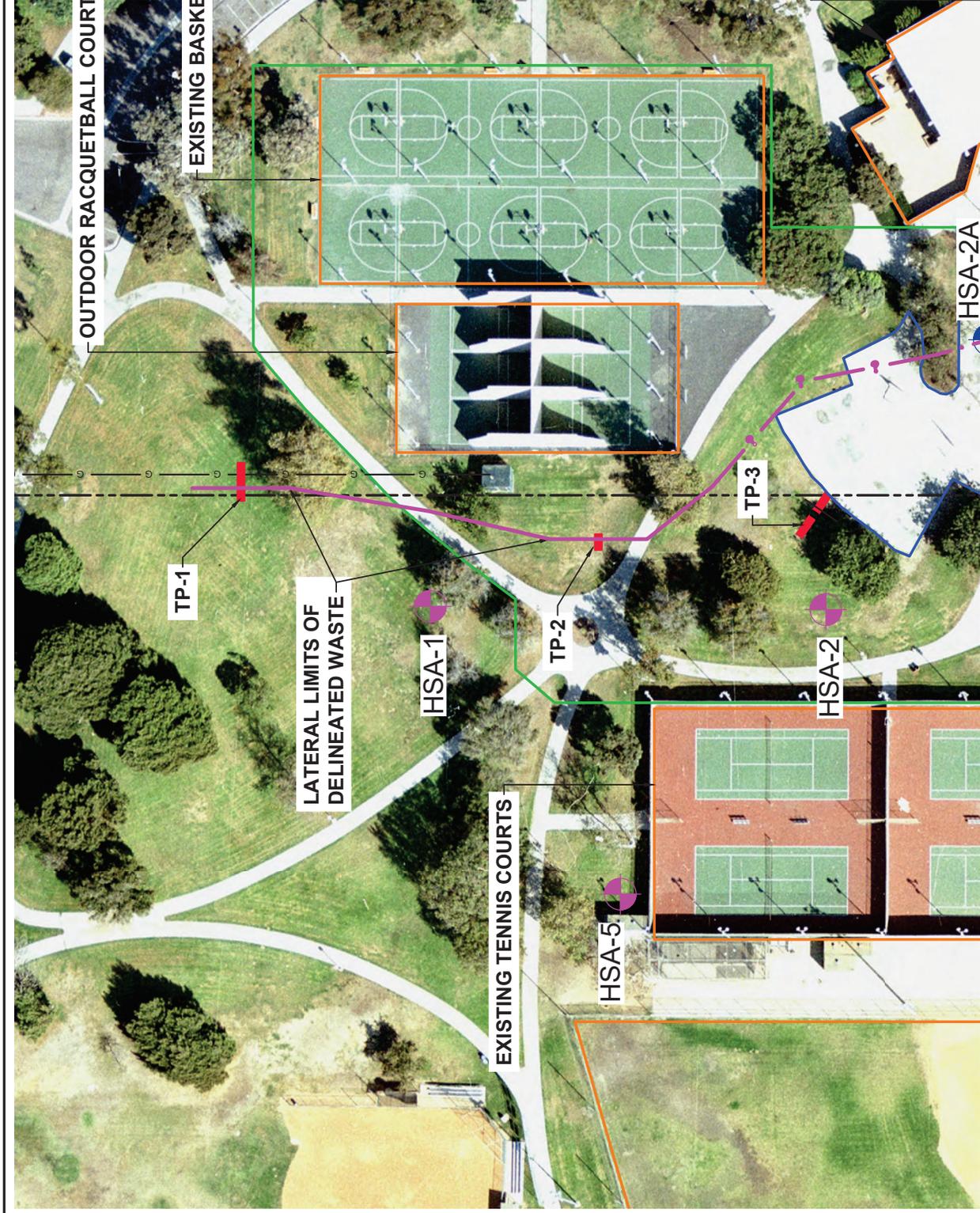
Attachments:

- Figure 1 – Site Plan
- Figure 2a – Field Investigation Locations (North)
- Figure 2b – Field Investigation Locations (South)
- Appendix A – Soil Boring Permit, DigAlert Ticket Confirmations and Geophysical Utility Clearance Field Notes
- Appendix B – SCAQMD Permit for Rule 1150
- Appendix C – Test Pit Logs
- Appendix D – Boring Logs with Key
- Appendix E – Daily Field Reports
- Appendix F – Air Monitoring Logs

REFERENCES

- Geosyntec [2018], “Feasibility Study for Edison Park Settlement Related Damage Repair,” Geosyntec Consultants, Inc., October 3, 2018.
- TRC [2001], “Environmental Site Assessment Report, Former Cannery Street Refuse Disposal Station,” prepared for the County of Orange Integrated Waste Management Department. January.

Figures



LEGEND

- APPROXIMATE LIMITS OF EXISTING CANNERY STREET FORMER REFUSE DISPOSAL STATION WASTE (TRC, 2001)
- BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2020)
- EXPLORATORY TEST PITS PERFORMED (GEOSYNTEC, 2020)
- REQUESTED INVESTIGATION AREA (2020)
- REQUESTED INVESTIGATION AREA (2021)
- EXISTING BURIED LFG HEADER PIPE
- APPROXIMATE LATERAL LIMITS OF DELINEATED WASTE
- AREAS WITH TRACES OF WASTE MATERIAL (QUERIED WHERE UNCERTAIN)



FIELD INVESTIGATION LOCATIONS (NORTH)
EDISON PARK - WASTE DELINEATION
HUNTINGTON BEACH, CALIFORNIA



FIGURE

2A

PROJECT NO: HL1685B JUNE 2021



LEGEND

- APPROXIMATE LIMITS OF EXISTING CANNERY STREET FORMER REFUSE DISPOSAL STATION WASTE [TRC, 2001]
- BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2020)
- EXPLORATORY TEST PITS PERFORMED (GEOSYNTEC, 2020)
- BORINGS PERFORMED TO DETERMINE DEPTH OF WASTE (GEOSYNTEC, 2021)
- REQUESTED INVESTIGATION AREA (2020)
- REQUESTED INVESTIGATION AREA (2021)
- EXISTING BURIED LFG HEADER PIPE
- AREAS WITH TRACES OF WASTE MATERIAL (QUERIED WHERE UNCERTAIN)

FIELD INVESTIGATION LOCATIONS (SOUTH)
 EDISON PARK - WASTE DELINEATION
 HUNTINGTON BEACH, CALIFORNIA

Geosyntec
 CONSULTANTS

PROJECT NO: HL1685B JUNE 2021

FIGURE
 2B

Appendix A

Soil Boring Permit, DigAlert Ticket Confirmations and Geophysical Utility Clearance Field Notes

Karthik Viswanathan

From: noreply@digalert.org
Sent: Friday, September 18, 2020 6:25 PM
To: Karthik Viswanathan
Subject: DigAlert Confirmation for Ticket A202620900-00A

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EMLCFM 03993A USAS 09/18/20 18:25:10 A202620900-00A NEW NORM POLY LREQ

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Ticket: A202620900 Rev: 00A Created: 09/18/20 18:24 User: BRJ Chan: 100

Work Start: 09/24/20 07:00 Legal Start: 09/24/20 07:00 Expires: 10/16/20 23:59
Response required: Y Priority: 2

Excavator Information

Company: AMERICAN INTERGRATED SERVICES
Co Addr: 1502 E OPP ST
City : WILMINGTON State: CA Zip: 90744
Created By: KARTHIK VISWANATHAN-GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA

Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: KVISWANATHAN@GEOSYNTEC.COM

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: STILWELL DR

: X/ST1: POSTON LN

:

: APPROX 65FT W/OF POSTON LN AT APPROX 250FT, 400FT, 520FT, 760FT,
: 1015FT S/OF STILWELL DR **ALL LOCATIONS WITHIN PARK** **PROPERTY OF
: EDISON COMMUNITY PARK** **MARK 25FT RADIUS ALL LOCATIONS**

Delineated Method: WHITEPAINT

Work Type: (5) TEST PITS (8FT DEPTH)

Work For : GEOSYNTEC CONSULTANTS

Permit: Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33.653755/-117.973122 33.653752/-117.972114
: 33.650862/-117.973129 33.650859/-117.972121
Excavator Provided: 33.653346/-117.972630 33.652895/-117.972609
: 33.652569/-117.972623 33.651933/-117.972633 33.651273/-117.972623

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=E4TbQYTXQXOSNVW-C

Members:

CSD91	ORANGE CO SANITATION	CONTROL CENTER	714-593-7025
HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714-861-0134
MCISOCAL	MCI (VERIZON BUSINESS) FIBE	FIBER SECURITY DEPT	800-624-9675
SCG2XN	SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
UCHTRW_C5	UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714-766-9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE	SC EDISON PERSONNEL	800-611-1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800-366-7801

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Karthik Viswanathan

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Ticket: A202620902 Rev: 00A Created: 09/18/20 18:34 User: BRJ Chan: 100

Work Start: 09/24/20 07:00 Legal Start: 09/24/20 07:00 Expires: 10/16/20 23:59
Response required: Y Priority: 2

Excavator Information

Company: ABC LIOVIN DRILLING
Co Addr: 1180 E BURNETT ST
City : SIGNAL HILL State: CA Zip: 90755
Created By: KARTHIK VISWANATHAN-GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA

Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: KVISWANATHAN@GEOSYNTEC.COM

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: STILWELL DR

: X/ST1: POSTON LN

:

: APPROX 50FT W/OF POSTON LN AT APPROX 320FT, 570FT, 745FT S/OF STILWELL

: DR; APPROX 240FT W/OF POSTON LN AT APPROX 720FT & 450FT S/OF STILWELL

: DR **ALL LOCATIONS WITHIN PARK** **PROPERTY OF EDISON COMMUNITY

: PARK** **MARK 25FT RADIUS ALL LOCATIONS**

Delineated Method: WHITEPAINT

Work Type: (5) SOIL BORINGS

Work For : GEOSYNTEC CONSULTANTS

Permit:

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33.653556/-117.973708 33.653537/-117.972127
: 33.651572/-117.973731 33.651553/-117.972151

Excavator Provided: 33.653131/-117.972625 33.652477/-117.972639
: 33.651969/-117.972632 33.652032/-117.973225 33.652770/-117.973224

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=64Co9pCk9sztws3-k

Members:

HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714-861-0134
SCG2XN	SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
UCHTRW_C5	UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714-766-9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE	SC EDISON PERSONNEL	800-611-1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800-366-7801

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Karthik Viswanathan

From: noreply@digalert.org
Sent: Monday, March 8, 2021 3:11 PM
To: Sneha Upadhyaya
Subject: DigAlert Confirmation for Ticket A210670984-00A

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

EMLCFM 04567A USAS 03/08/21 15:11:07 A210670984-00A NEW NORM POLY LREQ

Thank you for contacting Underground Service Alert of Southern California. This is an automatically generated confirmation of your DigAlert.

For your safety please excavate carefully around the marked utility lines.

For more information regarding DigAlert's web portals, mobile apps and text messaging, please visit www.digalert.org or text Services to DIGALT (344258).

This email comes from an automated program that is NOT MONITORED.
DO NOT REPLY TO THIS EMAIL.

This is not a certified copy of the ticket.

Ticket: A210670984 Rev: 00A Created: 03/08/21 15:10 User: NAN Chan: 100

Work Start: 03/12/21 07:00 Legal Start: 03/12/21 07:00 Expires: 04/05/21 23:59
Response required: Y Priority: 2

Excavator Information

Company: ABC LI OVIN DRILLING
Co Addr: 1180 E BURNETT ST
City : SIGNAL HILL State: CA Zip: 90755
Created By: KARTHIK VISWANATHAN (GEOSYNTEC Language: ENGLISH
Office Phone: 714-969-0800 SMS/Cell: 510-993-8823
Office Email: KVISWANATHAN@GEOSYNTEC.COM

Site Contact: SNEHA UPADHYAYA
Site Phone: 714-461-9911 Site SMS/Cell: 714-461-9911
Site Email: supadhyaya@geosyntec.com

Excavation Area

State: CA County: ORANGE Place: HUNTINGTON BEACH
Zip: 92646

Location: Address/Street: MAGNOLIA ST
: X/ST1: HAMILTON AVE
:
: APPROX 685FT N/OF HAMILTON AVE AT APPROX 430FT W/OF S/BOUND MAGNOLIA
: ST; APPROX 630FT N/OF HAMILTON AVE AT APPROX 370FT W/OF S/BOUND
: MAGNOLIA ST; APPROX 585FT N/OF HAMILTON AVE AT APPROX 345FT W/OF
: S/BOUND MAGNOLIA ST; APPROX 525FT N/OF HAMILTON AVE AT APPROX 335FT
: W/OF S/BOUND MAGNOLIA ST; APPROX 530FT N/OF HAMILTON AVE AT APPROX
: 375FT W/OF S/BOUND MAGNOLIA ST; APPROX 545FT N/OF HAMILTON AVE AT
: APPROX 420FT W/OF S/BOUND MAGNOLIA ST; APPROX 608FT N/OF HAMILTON AVE
: AT APPROX 375FT W/OF S/BOUND MAGNOLIA ST; **MARK 25FT RADIUS AROUND
: EACH LOCATION** **DELINEATED EACH LOCATION #1-8 IN WHITE PAINT**

Delineated Method: WHITEPAINT

Work Type: 8 SOIL BORINGS

Work For : GEOSYNTEC

Permit:

Job/Work order:

1 Year: N Boring: N Street/Sidewalk: N Vacuum: N Explosives: N

Lat/Long

Center Generated (NAD83): 33. 652888/- 117. 972945 33. 652751/- 117. 971663
: 33. 651623/- 117. 973080 33. 651486/- 117. 971798

Excavator Provided: 33. 652427/- 117. 972528 33. 652276/- 117. 972352
: 33. 652137/- 117. 972245 33. 651984/- 117. 972236 33. 651974/- 117. 972353
: 33. 652017/- 117. 972514 33. 652159/- 117. 972535 33. 652187/- 117. 972344

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=F5RZPXUXMfKaEaN-Q

Members:

HUN01	C/OF HUNTINGTON BCH-WTR	DAVID RICO	714- 861- 0134
SCG2XN	SOCALGAS DISTRIBUTION GARDEN	LEAD DISPATCHER - CHUCK	800- 603- 7060
UOCW01	UTILIQUEST 4 OR CNTY WTR DIST	SCOTT DAVIDSON / JUSTIN	714- 766- 9375xCELL
USCEOR	UTILIQUEST FOR SCE- ORANGE RE SC	EDISON PERSONNEL	800- 611- 1911
UTFTRCA01	UTILIQUEST/FRONTIER - TEL/	UTILIQUEST DISPATCH	800- 366- 7801

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Job Number: 20310

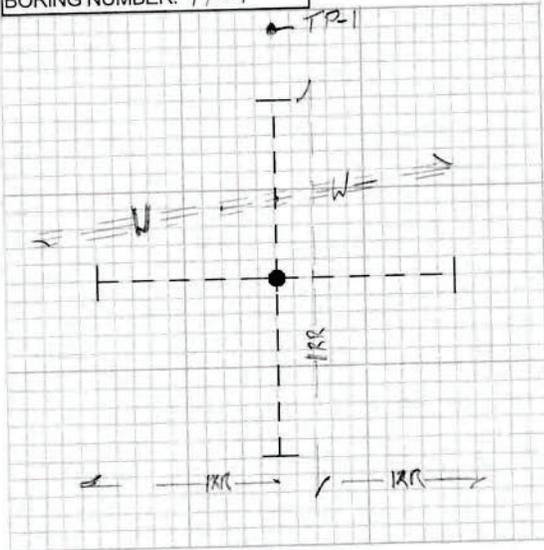
Date: 09-23-20

Client: GEO SYMTEC

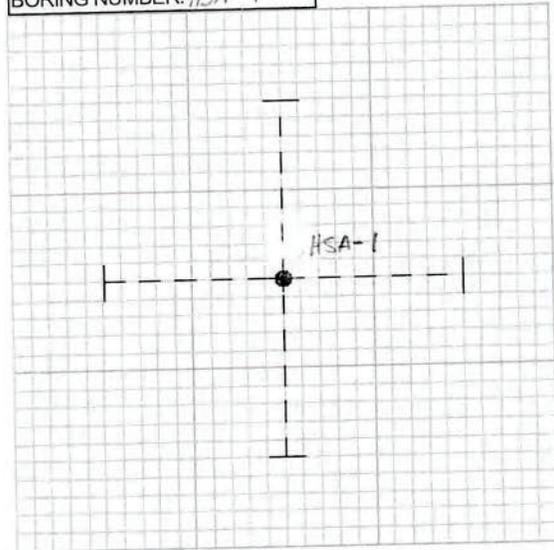
Page No. 1

Site Address: 21377 MAGNOLIA ST
HUNTINGTON BEACH, CA

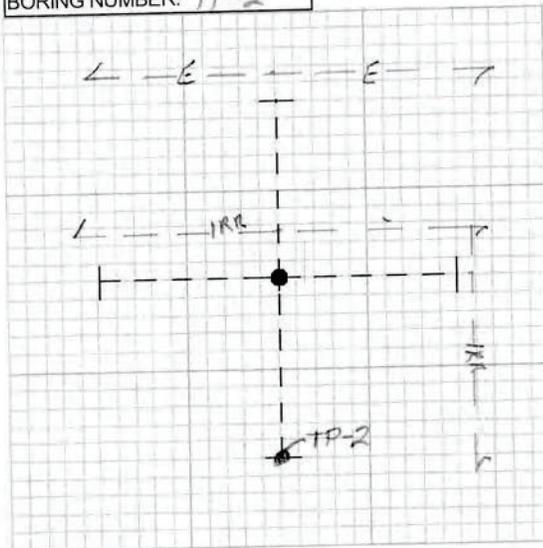
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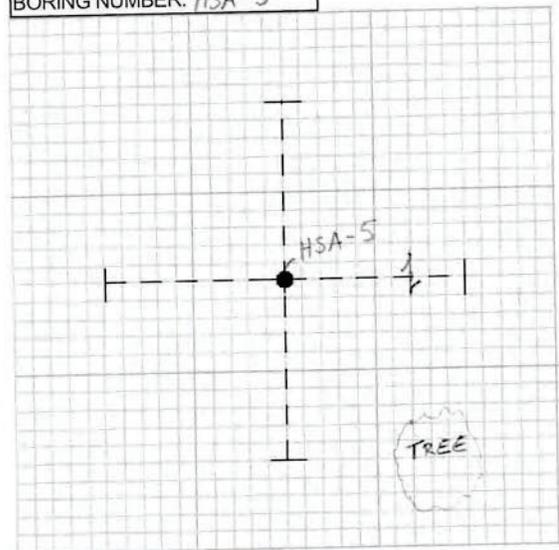
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BORING NUMBER: TP-2



BORING NUMBER: HSA-5



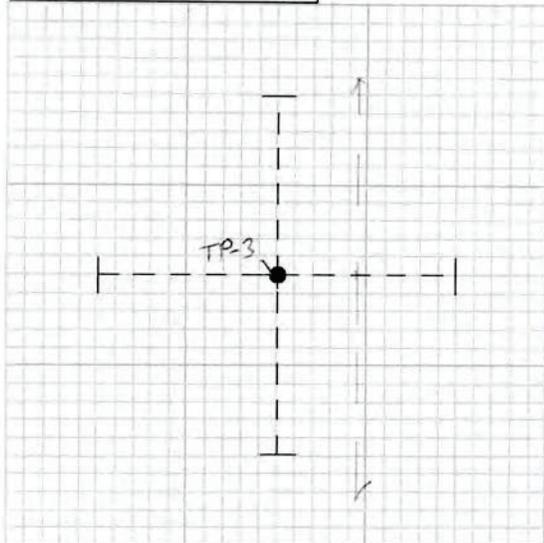
LEGEND

- Proposed Boring Location
- GPR Traverse with File Number
- Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line

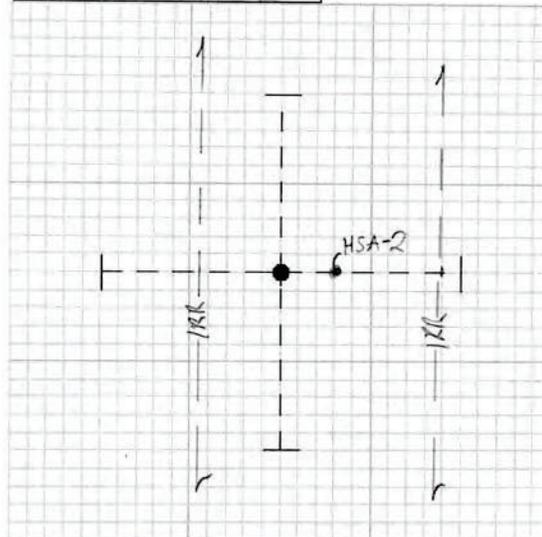


NOTE: All Geophysical methods have limitations dependant on: instrumentation used, soil conditions, and local cultural noise and other interference. The geophysical conditions interpretation presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

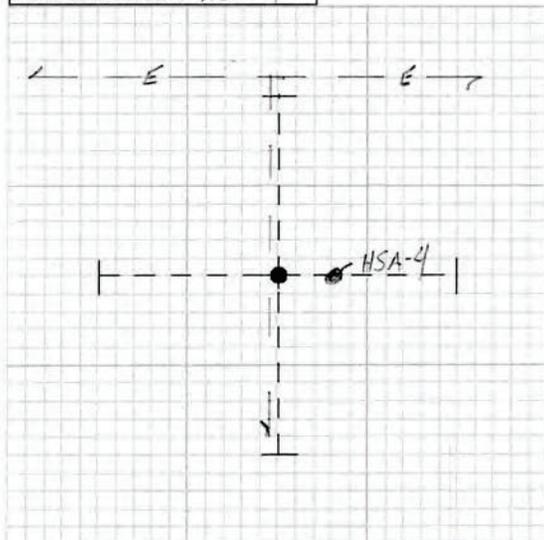
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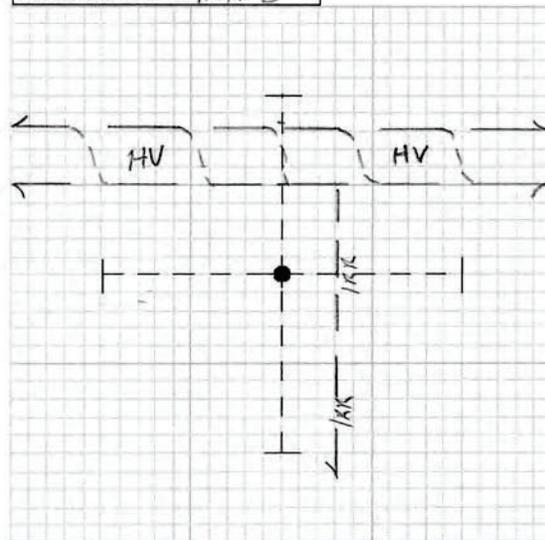
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BORING NUMBER: HSA-4

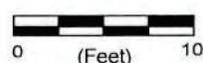


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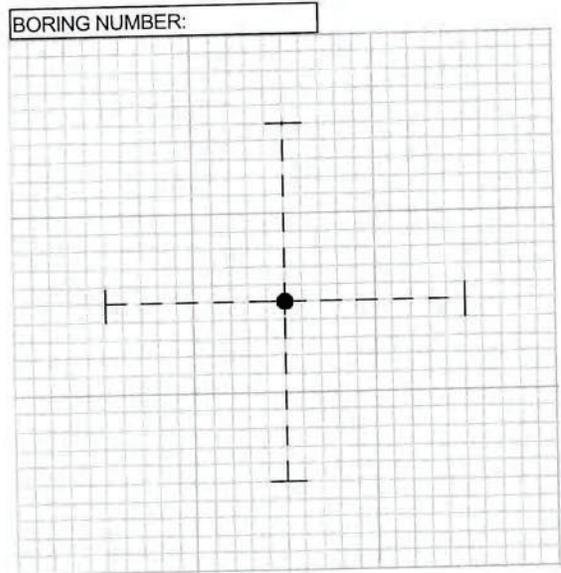
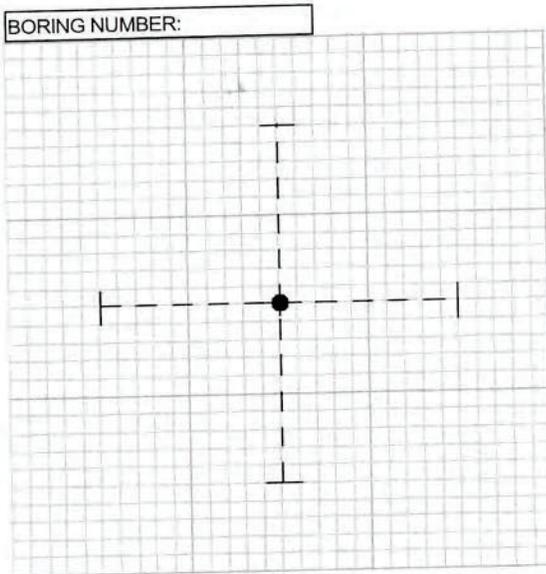
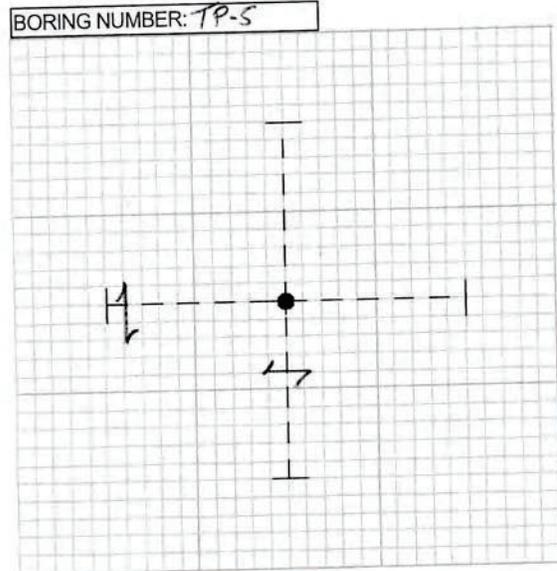
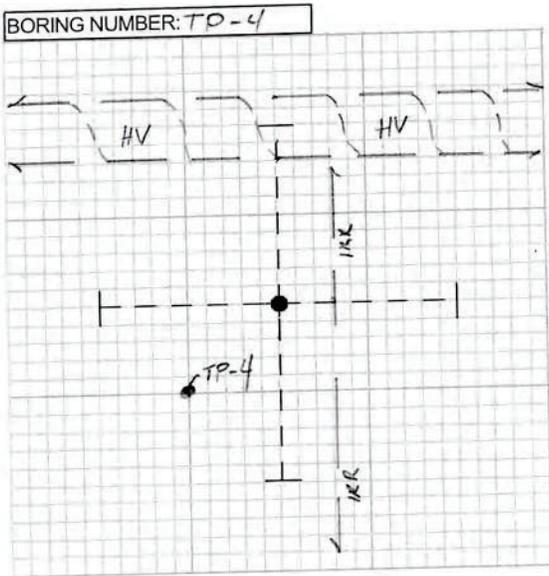
LEGEND

- Proposed Boring Location
- 1328 — | GPR Traverse with File Number
- ← NG → Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W= Water, C = Unknown Line



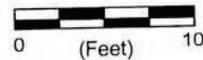
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Job Number: 20310 Date: 9-23-20
 Client: GEO SYNTEC Page No. _____
 Site Address: 21377 MAGADLIA ST
HUNTINGTON BEACH, CA



LEGEND

- Proposed Boring Location
- 1328 — | GPR Traverse with File Number
- ← NG → Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line



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Date: 3-11-21

Job No. 21070

DAILY FIELD SUMMARY

Sheet: 1 of 3

Client: Geosyntec

Location: 21377 magnolia ST

Huntington Beach, CA

Description	Hours
Arrived @ 7:00	
Safety tailgate meeting	
Cleared eight Boring Locations B1, B2, B3, B4	
B5, B6, B7, and B8 for all detectable	
Utilities.	
Using the RD 8000, Fisher TW-6, GO HD2	
sir 3000 GPR and walk in tandem.	
Hand Auger 5'	
	Total:

GV Personnel: JF

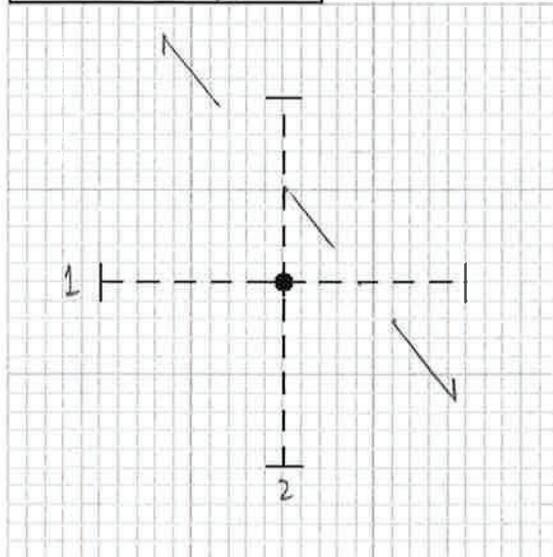
GV Field Supervisor: [Signature]

Date: 3-11-21

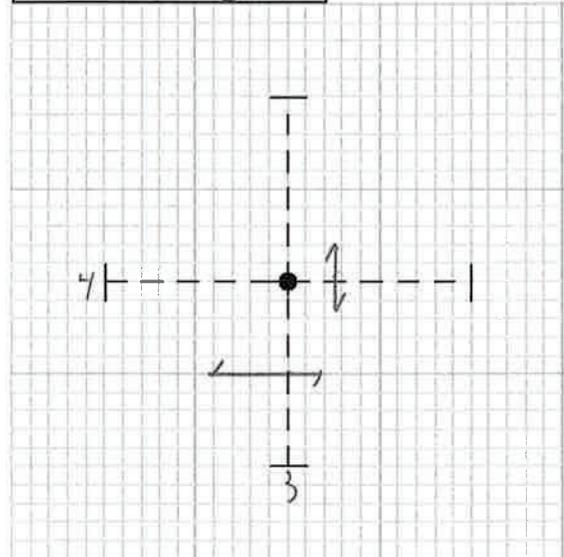
Client Approval: [Signature]

Date: 3-11-21

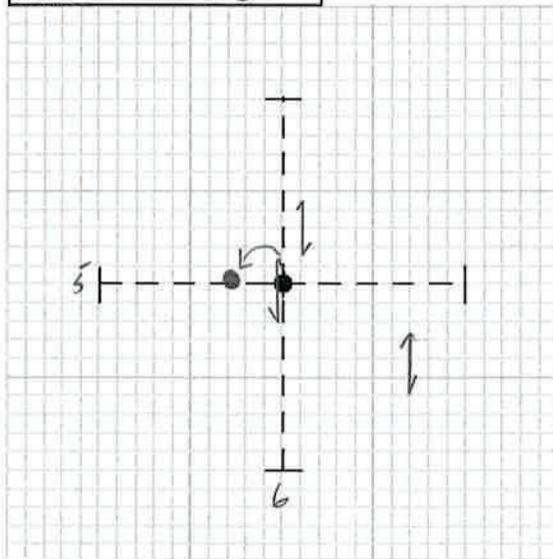
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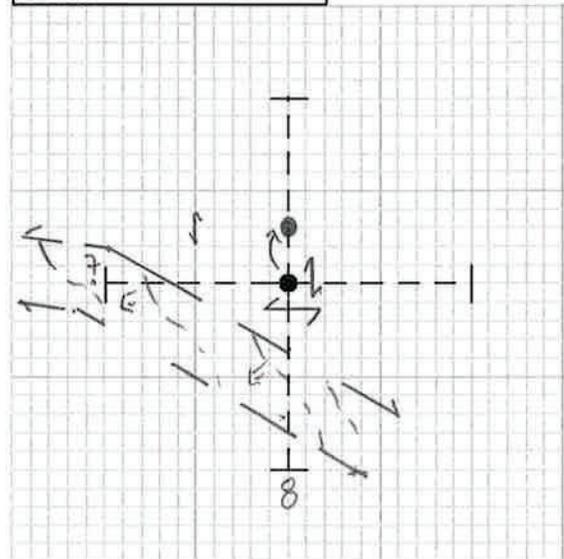
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BORING NUMBER: B3

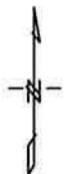


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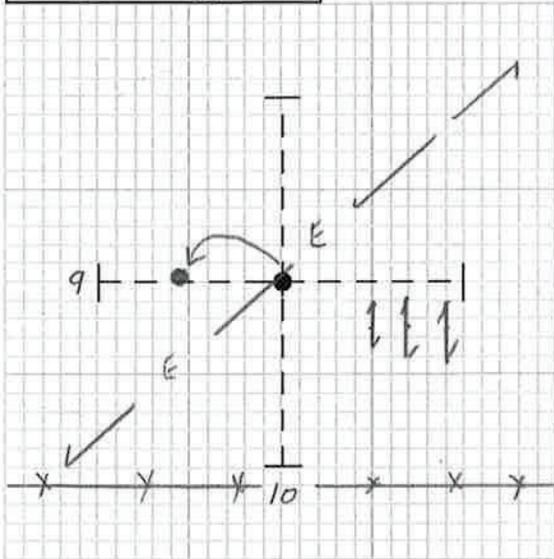
LEGEND

-  Proposed Boring Location
-  1328 — | GPR Traverse with File Number
-  \leftarrow NG \rightarrow Utility: E= Electrical, T= Telepone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line

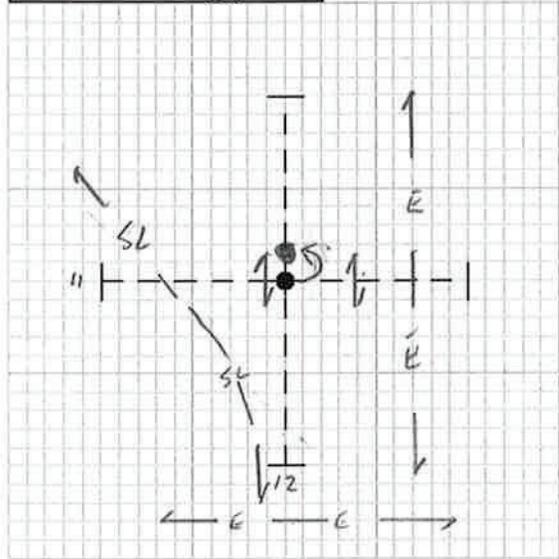


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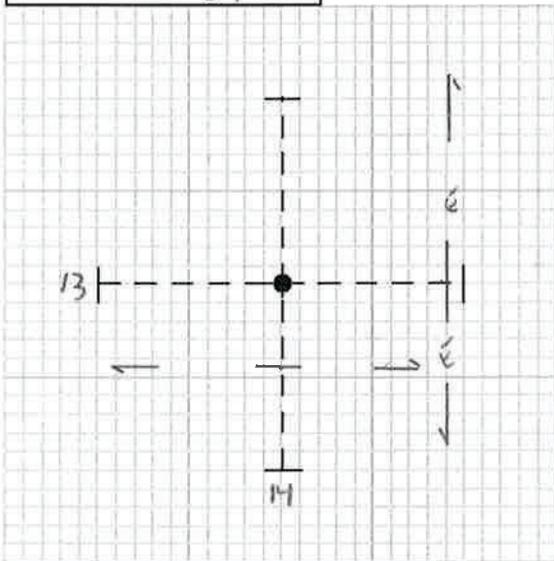
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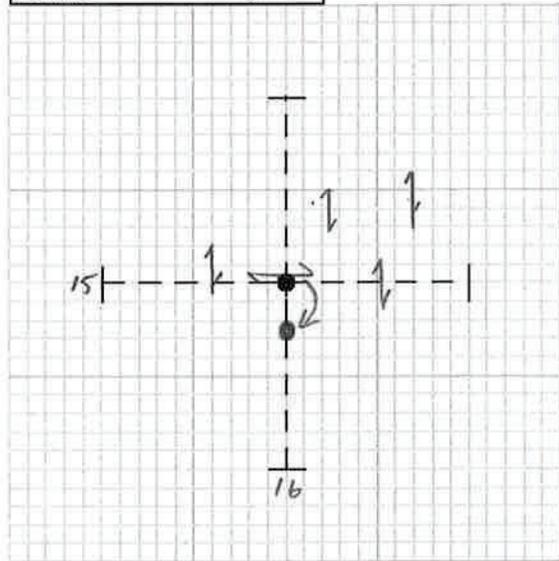
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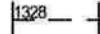
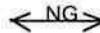
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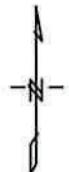


BORING NUMBER: B8



LEGEND

-  Proposed Boring Location
-  GPR Traverse with File Number
-  Utility: E= Electrical, T= Telephone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line



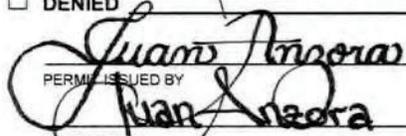
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APPLICATION FOR WELL CONSTRUCTION PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION

1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

(714) 433-6000
FAX: (714) 433-6481

CITY HUNTINGTON BEACH		DATE 08/24/2020	WELL PERMIT NUMBER 20-08-22 <i>Permit expires on 08.26.2021.</i>
WELL LOCATION (ADDRESS IF AVAILABLE) Edison Park - 21377 Magnolia St, Huntington Beach, CA 92646			
NAME OF WELL OWNER City of Huntington Beach - Community Services Dept.		TYPE OF WELL (CHECK) PRIVATE DOMESTIC <input type="checkbox"/> PROBE SURVEY <input type="checkbox"/> PUBLIC DOMESTIC <input type="checkbox"/> MONITORING <input type="checkbox"/> IRRIGATION <input type="checkbox"/> SOIL BORING <input checked="" type="checkbox"/> CATHODIC <input type="checkbox"/> OTHER _____ <input type="checkbox"/> TOTAL NUMBER <u>5</u>	
ADDRESS 2000 Main Street			
CITY Huntington Beach	ZIP 92648	TELEPHONE 714-536-5486	
NAME OF CONSULTING FIRM Geosyntec Consultants, Inc.		A. WELLS - SUBMIT A WELL CONSTRUCTION DIAGRAM (INCLUDE DIMENSIONS) B. SOIL BORINGS AND PROBES - TOTAL DEPTH <u>30 feet</u> ✓ SEALING MATERIAL <u>Hydrated Bentonite Chips</u> C. PROPOSED START DATE <u>9/1/2020</u>	
BUSINESS ADDRESS 2100 Main Street, Suite 150			
CITY Huntington Beach	ZIP 92648		
NAME OF DRILLING CO. Martini Drilling Corp.		C-57 LICENSE NO. 831982	
CITY Garden Grove	ZIP 92843	TELEPHONE 714-715-2715	
DIAGRAM OF WELL SITE (Use additional sheets and/or attachments)		<p><i>I hereby agree to comply in every respect with all requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones.</i></p> <p style="text-align: right;"> APPLICANT'S SIGNATURE</p> <p style="text-align: right;">08/24/2020 DATE</p> <p style="text-align: center;">Karthik Viswanathan PRINT NAME</p> <p>714-465-1250 714-969-0820 PHONE NUMBER FAX NUMBER</p>	
<input checked="" type="checkbox"/> SITE PLAN ATTACHED			
FOR ACCOUNTING USE ONLY: HSO NO. <u>406892</u> CHECK NO. <u>5803 dated 08/25/20</u> DATE <u>08/27/20</u> AMOUNT <u>\$1,009.00</u> INTL. <u>gm</u>		DISPOSITION OF PERMIT (DO NOT FILL IN): <input checked="" type="checkbox"/> APPROVED SUBJECT TO THE FOLLOWING CONDITIONS: A. NOTIFY THIS AGENCY AT LEAST 48 HOURS <input checked="" type="checkbox"/> PRIOR TO START. <i>Notify of any changes.</i> <input type="checkbox"/> PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF THE CONDUCTOR CASING. B. <input checked="" type="checkbox"/> SUBMIT TO THE AGENCY WITHIN 30 DAYS AFTER COMPLETION OF WORK, A WELL COMPLETION REPORT AND/OR DRILLING LOGS. PLEASE REFERENCE PERMIT NO. C. <input type="checkbox"/> SECURE ALL MONITORING WELLS TO PREVENT TAMPERING. D. <input checked="" type="checkbox"/> OTHER <i>Notify when all work is complete and include the depth to 1st water.</i> <input type="checkbox"/> DENIED	
APPROVAL BY OTHER AGENCIES: JURISDICTION _____ REMARKS _____ _____ _____ _____		PERMIT ISSUED BY <u></u> DATE <u>08.25.2020</u> PRINT NAME <u>Juan Ingora</u> PHONE NUMBER <u>7144336287</u>	
AUTHORIZED SIGNATURE _____ DATE _____			

WHEN SIGNED BY ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A PERMIT.

APPLICATION FOR WELL CONSTRUCTION PERMIT

RECEIVED HCA/ACCOUNTING

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION

1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

(714) 433-6000
FAX: (714) 433-6481

CITY Huntington Beach		DATE MAR 03 2021 03/02/2021	WELL PERMIT NUMBER 21-03-07 permit expires on 3/3/2022	
WELL LOCATION (ADDRESS IF AVAILABLE) Edison Park - 21377 Magnolia St., Huntington Beach, CA 92646				
NAME OF WELL OWNER City of Huntington Beach - Community Services Dept.		TYPE OF WELL (CHECK)		PROBE SURVEY <input type="checkbox"/>
ADDRESS 2000 Main Street		PRIVATE DOMESTIC <input type="checkbox"/>		MONITORING <input type="checkbox"/>
CITY Huntington Beach	ZIP 92648	PUBLIC DOMESTIC <input type="checkbox"/>		SOIL BORING <input checked="" type="checkbox"/>
TELEPHONE 714-536-5486		IRRIGATION <input type="checkbox"/>		OTHER _____ <input type="checkbox"/>
NAME OF CONSULTING FIRM Geosyntec Consultants, Inc.		CATHODIC <input type="checkbox"/>		TOTAL NUMBER 5 ✓
BUSINESS ADDRESS 2100 Main Street, Suite 150		A. WELLS – SUBMIT A WELL CONSTRUCTION DIAGRAM (INCLUDE DIMENSIONS)		
CITY Huntington Beach	ZIP 92648	B. SOIL BORINGS AND PROBES – TOTAL DEPTH 15 feet		
TELEPHONE 714-969-0800		SEALING MATERIAL Hydrated Bentonite Chips ✓		
NAME OF DRILLING CO. ✓ ABC Liovin Drilling Inc.		C. PROPOSED START DATE 3/12/2021		
C-57 LICENSE NO. ✓ 422904				
CITY Signal Hill	ZIP 90755			
TELEPHONE 562-981-8575				
DIAGRAM OF WELL SITE (Use additional sheets and/or attachments)		I hereby agree to comply in every respect with all requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones.		
<input checked="" type="checkbox"/> SITE PLAN ATTACHED		 APPLICANT'S SIGNATURE		
		3/2/2021 DATE		
		Karthik Viswanathan PRINT NAME		
		714-465-1250 PHONE NUMBER	714-333-4275 FAX NUMBER	
FOR ACCOUNTING USE ONLY: HSO NO. <u>410427</u> CHECK NO. <u>5826</u> DATE <u>3/3/21</u> AMOUNT <u>1009 -</u> INTL. <u>KV</u> CK: <u>3/2/21</u>		DISPOSITION OF PERMIT (DO NOT FILL IN): <input checked="" type="checkbox"/> APPROVED SUBJECT TO THE FOLLOWING CONDITIONS: A. NOTIFY THIS AGENCY AT LEAST 48 HOURS <input checked="" type="checkbox"/> PRIOR TO START. <u>notify of any changes</u> <input type="checkbox"/> PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF THE CONDUCTOR CASING. B. <input checked="" type="checkbox"/> SUBMIT TO THE AGENCY WITHIN 30 DAYS AFTER COMPLETION OF WORK, A WELL COMPLETION REPORT AND/OR DRILLING LOGS. PLEASE REFERENCE PERMIT NO. C. <input type="checkbox"/> SECURE ALL MONITORING WELLS TO PREVENT TAMPERING. D. <input checked="" type="checkbox"/> OTHER <u>notify when work is completed and include the depth to first water</u> <input type="checkbox"/> DENIED		
APPROVAL BY OTHER AGENCIES: JURISDICTION _____ REMARKS _____ _____ _____ _____		PERMIT ISSUED BY <u>Jane Noyen</u> DATE <u>3/2/2021</u> PRINT NAME PHONE NUMBER <u>714-433-6285</u>		

WHEN SIGNED BY ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A PERMIT.

Appendix B

SCAQMD Permit for Rule 1150



South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
COMPLIANCE PLAN

Page 1 of 5
Plan No.
612262

Certain compliance plan pursuant to Rule 306 (h) are subject to annual renewal fees unless the equipment is moved or changes operator.

Plan Issue Date: 9/11/2020

ID: 189921

Company: CITY OF HUNTINGTON BEACH
2100 MAIN ST, STE 150
HUNTINGTON BEACH, CA 92648

Site Location: 21377 MAGNOLIA ST, HUNTINGTON BEACH, CA 92646

Plan Description:

Excavation is required to perform subsurface investigation to evaluate the approximate lateral limits of existing waste along portion of the eastern edge of the Cannery Street Refuse Disposal Station at Edison Park.

Conditions :

1. This excavation shall be conducted in compliance with all plans and specifications submitted with the application under which this Rule 1150 Excavation Management Plan is issued unless otherwise noted below.
2. The excavation plan shall expire on October 31, 2021.
3. The South Coast AQMD shall be notified at least two (2) days prior to the excavation commencement and within five (5) days after its completion. The notification shall be made by emailing Rule1150Notification@aqmd.gov. The subject line of the email shall contain "Rule 1150 Notification." The body of the email shall contain the following information:
 - A. Company Name and Company ID.
 - B. Plan Number.
 - C. Site Address.
 - D. Notification Type (2 days prior or 5 days after).
 - E. Estimated Excavation Start Date and Completion Date.
 - F. Caller Name and Contact Information.
4. This excavation management plan is valid for the re-disposal of less than 50 cubic yards of refuse and contaminated material.
5. Excavation shall not be conducted whenever any excavation at the Ascon Landfill is underway.
6. Excavation shall not be conducted between the hours of 6:00 p.m. and 6:00 a.m. or on weekends and legal holidays unless otherwise approved in writing by the South Coast AQMD.

ORIGINAL



7. Excavation shall not be conducted on days when South Coast AQMD forecasts first, second, or third stage episodes for area number 18 or when the South Coast AQMD requires companies in area number 18 to implement their first, second or third stage episode plans. Episode forecasts for the following day can be obtained by calling (800) 288-7664.
8. Upwind and downwind PM monitoring shall be conducted every 60 minutes throughout the workday when soil handling or excavation is in progress at locations identified in "[Attachment A: Site Plan and Excavation Areas Edison Park - Waste Delineation Huntington Beach, California]" (sent via email on 8/19/2020 from Geosyntec). If dust levels exceed 0.05 mg/m³ above background all excavation work shall cease until mitigation measures are implemented and the levels are below 0.05 mg/m³.
9. During excavation, continuous monitoring and recording of the wind speed and directions shall be conducted using a South Coast AQMD approved handheld monitoring device.
10. Excavation shall not be conducted when the wind speed is greater than 15 mph (averaged over 15 minutes) or the wind speed instantaneously exceeds 25 mph.
11. During excavation, all working excavation areas, excavated material and unpaved roadways shall be watered down until the surface is moist and then maintained in a moist condition to minimize dust and emissions without creating a safety hazard condition.
12. If a distinct odor (level III or greater) resulting from the excavation is detected at or beyond the property line, the excavation shall cease and the approved mitigation measures implemented immediately. Excavation shall not resume until the levels return to the background level.

Odor Scale	Description of Odor Intensity
0	No odor detected.
1	Very light odor detected.
2	Light odor detected, distinguishable.
3	Moderate odor, very distinguishable.
4	Strong odor, very distinguishable, irritable.
5	Very strong odor, very distinguishable, overpowering and intolerable.

Approved mitigation measures:

- A. Excavation shall be limited to one location at a time.
- B. Limiting excavation workface area.
- C. Minimizing soil disturbance/transfer.
- D. Limiting working hours.

ORIGINAL



- E. Using long duration foams, plastic sheeting, or 6 inches of clean dirt cover.
 - F. Using water and/or odor neutralizing products containing no VOC.
 - G. Cleaning and covering of haul trucks.
 - H. Good housekeeping.
13. VOC contaminated soil (as defined by Rule 1166) shall not be spread onsite or offsite if it results in uncontrolled evaporation of VOC to the atmosphere. VOC contaminated soil shall not be used for landfill cover.
 14. During excavation, monitoring for Total Organic Compounds as methane using an Organic Vapor Analyzer (OVA) or other monitor approved by the South Coast AQMD shall be conducted continuously at the working face of the excavation and at the downwind property line or other approved locations. The maximum sustained readings (greater than 15 seconds) shall be recorded every 15 minutes. The OVA or other approved monitor shall be calibrated each day in accordance with manufacturers' specifications.
 15. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) of 500 ppmv or greater at the working face, the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.
 16. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) or 200 ppmv or greater downwind from the site at the property line (or other approved locations), the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.
 17. The excavation workface, which exposes refuse or other emission generating material to the atmosphere, shall not exceed 300 square feet, without prior written approval from the South Coast AQMD.
 18. The topsoil material that is excavated for each test pit shall be placed directly back in the test pit following the completion of the excavation of each test pit.
 19. Stockpiles shall not exceed a height greater than 8 feet and shall be maintained so as to avoid steep sides.
 20. Daily inspections shall be conducted of all covered stockpiles to ensure the integrity of the plastic cover. An inspection log shall be maintained.
 21. All refuse/emission generating materials that are excavated/exposed to the atmosphere shall either be:
 - A. Immediately covered (with either a minimum of 6" of clean soil, approved foam, or heavy duty plastic sheeting) whenever the excavation is not actively in progress, and at the end of each working day. Foam by itself shall not be used as a night cover if it is raining or rain is predicted by the National Weather Service prior to the next scheduled day of excavation.
 - B. Immediately containerized in 55 gallon drums for offsite transport and disposal.
 22. The exterior of haul trucks or trailers including the tires shall be cleaned off prior to leaving the excavation site.

ORIGINAL



23. All materials that are listed as hazardous by a federal or state agency shall be considered "hazardous materials" for the purpose of this plan.
24. All excavated hazardous material shall be transported in such a manner as to prevent any emissions of hazardous materials.
25. All hazardous materials shall be transported in containers clearly marked as to the type of material contained and what procedures should be followed in case of accidental spills.
26. Excavated liquid hazardous materials with the potential to cause air emission shall be encapsulated or enclosed in containers with sealed lids before loading into the transport vehicles.
27. Excavation, handling, and stockpiling activities shall comply with the applicable requirements of Rule 403.
28. All records of excavation working hours monitoring results, daily amounts of materials excavated and relocated or hauled offsite, and other records required by this compliance plan shall be kept on file for at least two years and made available to the South Coast AQMD upon request.
29. Mitigation measures, other than those indicated in these conditions, which are deemed appropriate by South Coast AQMD personnel as necessary to protect the comfort, repose, health, and safety of the public, shall be implemented upon request.
30. This compliance plan or a copy of this compliance plan shall be present at the excavation site.

ORIGINAL



NOTICE

This plan does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

A copy of this plan shall be displayed in the vicinity of the equipment subject to this plan.

Executive Officer

A handwritten signature in black ink, appearing to read "Amir Dejbaksh", written in a cursive style.

By AMIR DEJBAKSH

9/11/2020

ORIGINAL

Appendix C

Test Pit Logs

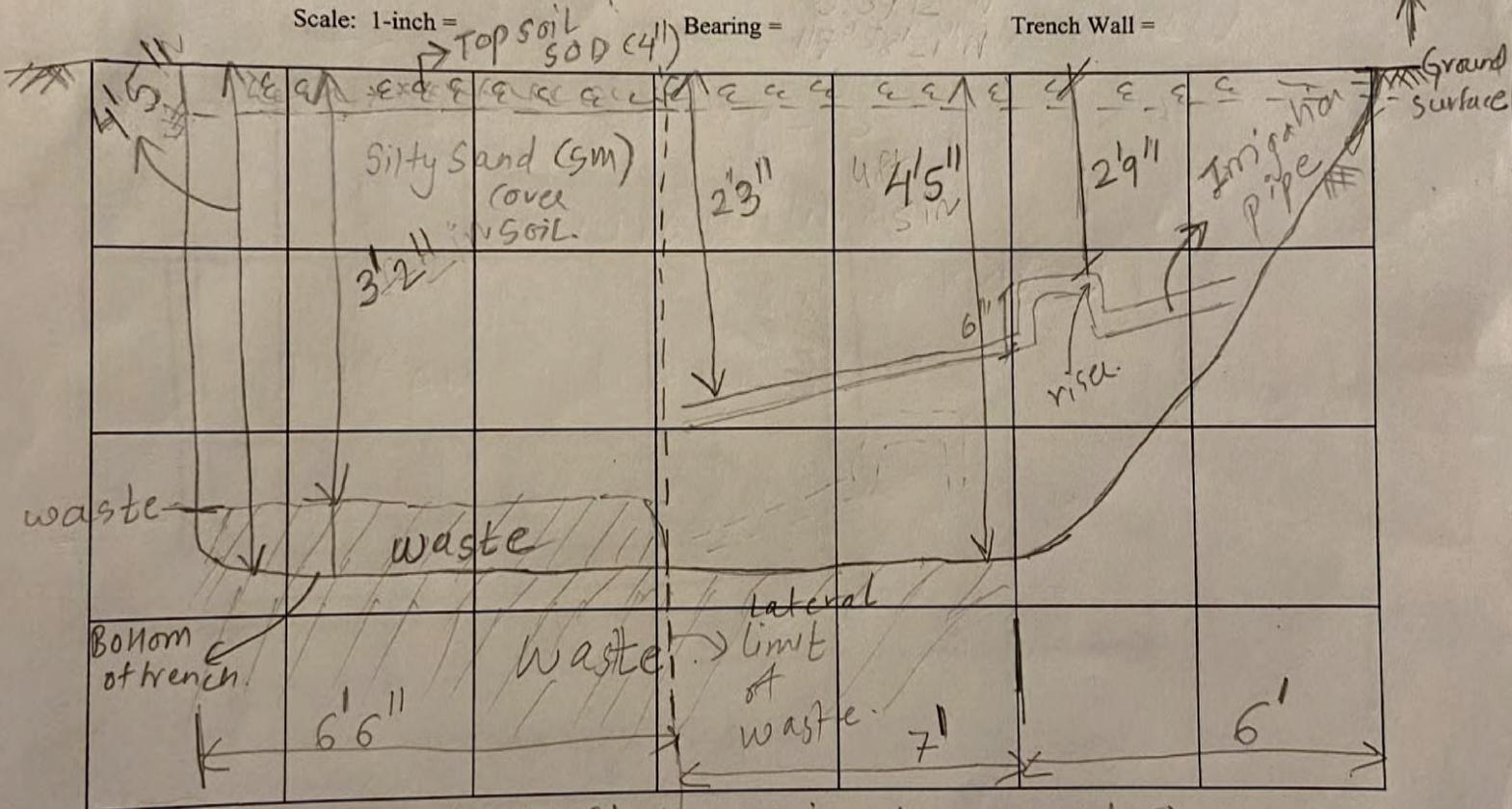
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch =

Bearing =

Trench Wall =



Waste: mostly AC debris (dark grey in color, no odor)

Test Pit Number: TP-1

Date: 9/24/2020

Geosyntec
consultants

Location: Edison Park

Equipment: CASE 580
Super N

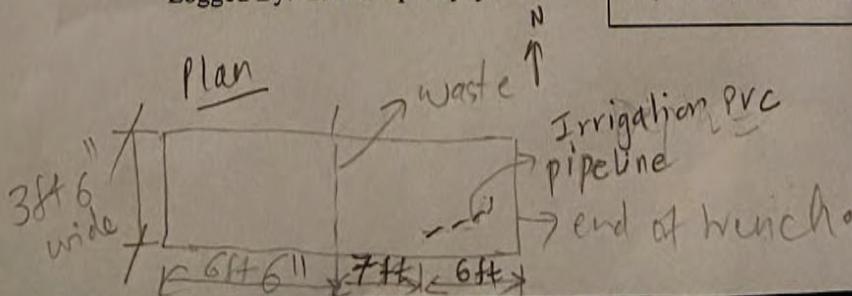
Project: Edison Park Waste Delineation

Northing, Easting:

33° 39' 12" N
117° 58' 21" W

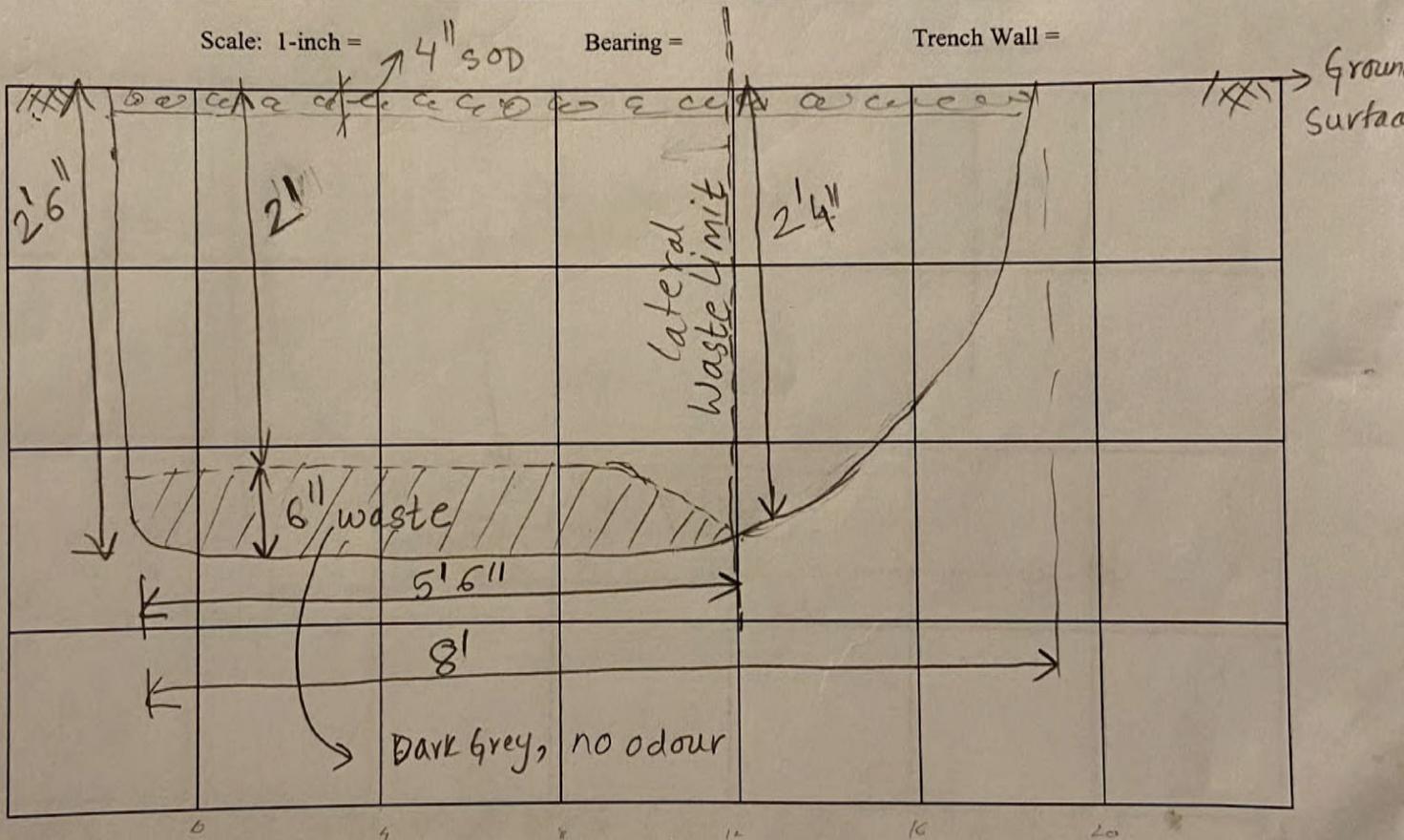
Logged By: Sneha Upadhyaya

Project No.: HL1685A



TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	N ↑	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =				



Test Pit Number: **TP-2**

Date: **9/24/2020**

Geosyntec[®]
consultants

Location: Edison Park

Equipment: **CASE 580, Super N**

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

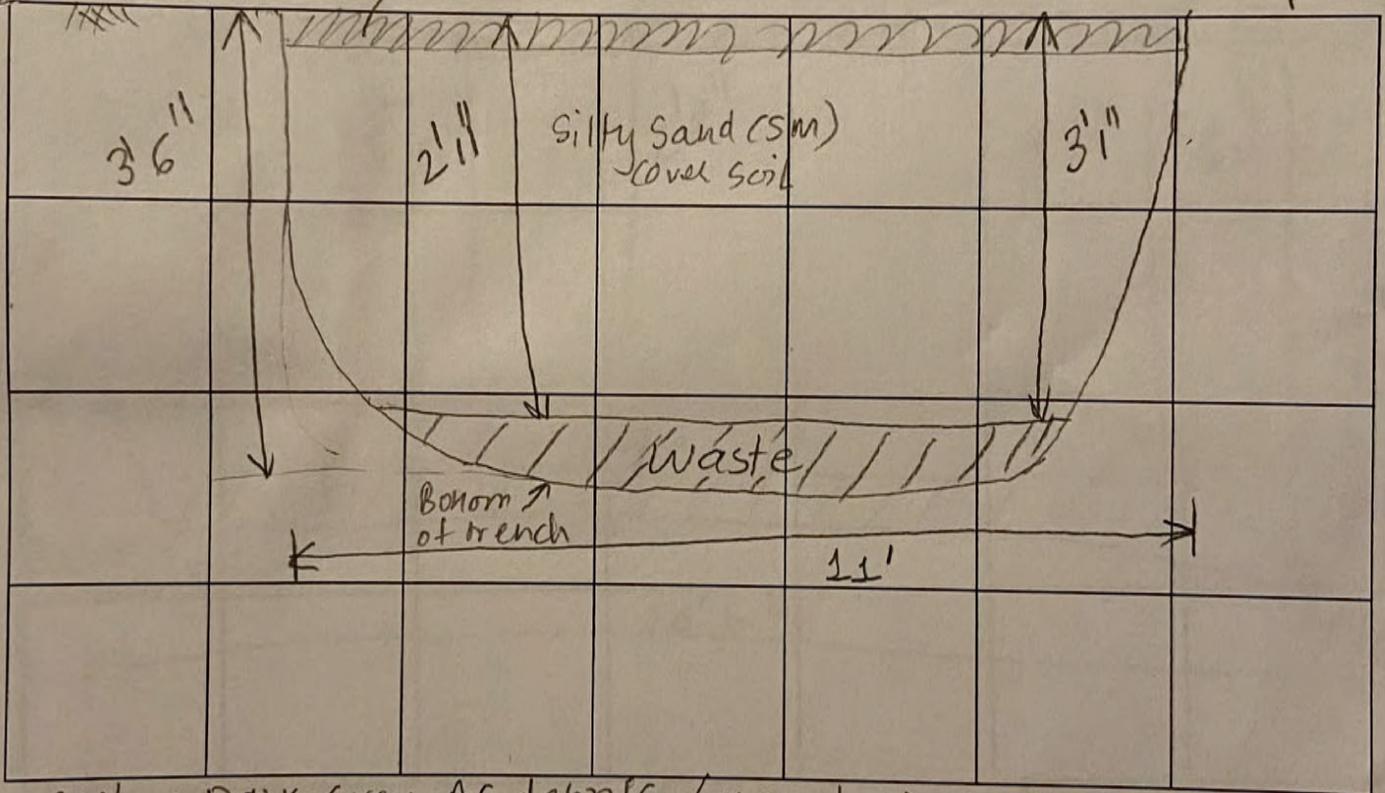
Project No.: HL1685A

iPhone GPS: 33°39'10" N
117°58'22" W
(at the ^{horz} waste limit)

TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch = 4" SOD top Bearing = Trench Wall = ↑ N



Waste: Dark Grey, AC debris (no odor)

Test Pit Number: **TP-3**

Date: **9/24/2020**

Geosyntec
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Note: Excavation stopped due to proximity to ~~at~~ ^{marked} electric utility line (2' away from the eastern edge of trench). To continue tomorrow 2 ft away from the marked utility line.

TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

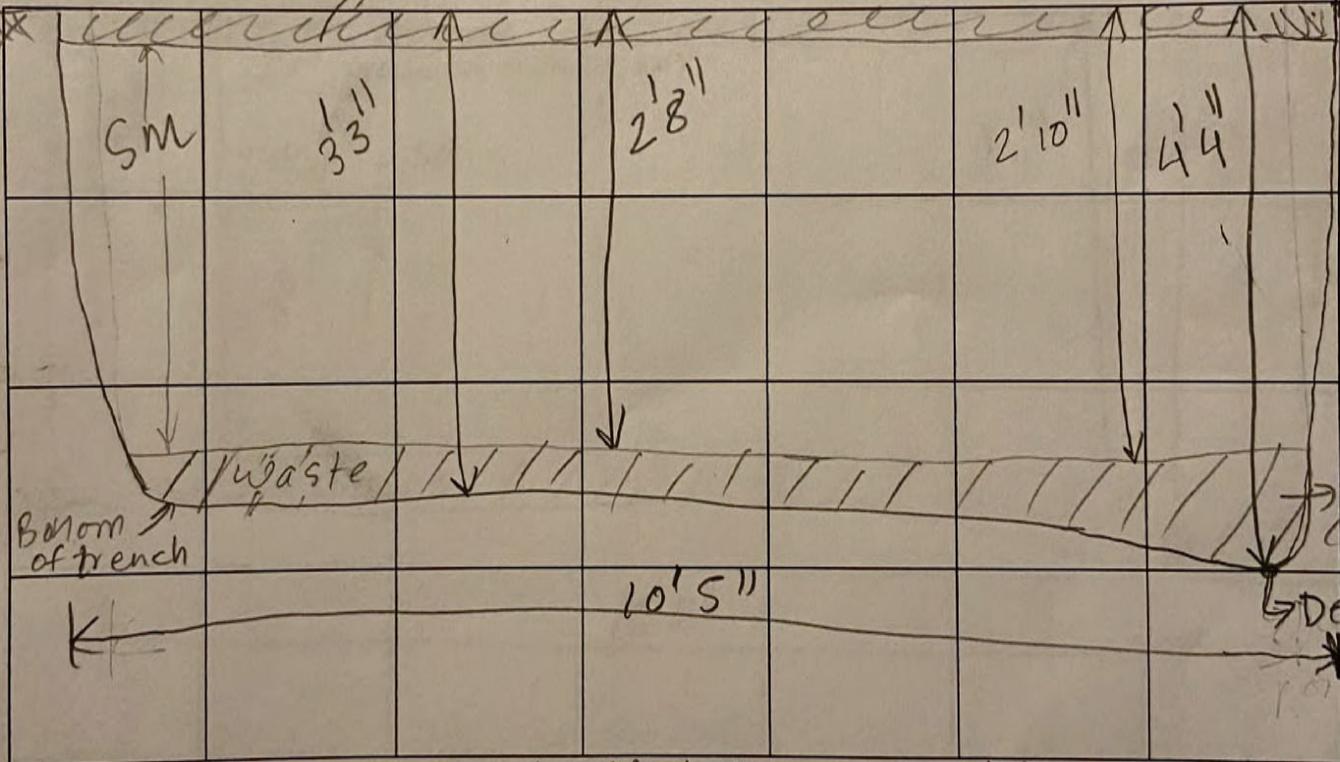
Scale: 1-inch = 4" SOD

Bearing =

Trench Wall =



Concrete slab



waste: Dark grey, mostly Asphalt-concrete debris, no odor.

Test Pit Number: TP-3 (cont..) Date: 9/25/2020

Geosyntec
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Note: Couldn't determine the lateral extent of waste. (Reached the concrete slab on the east side)

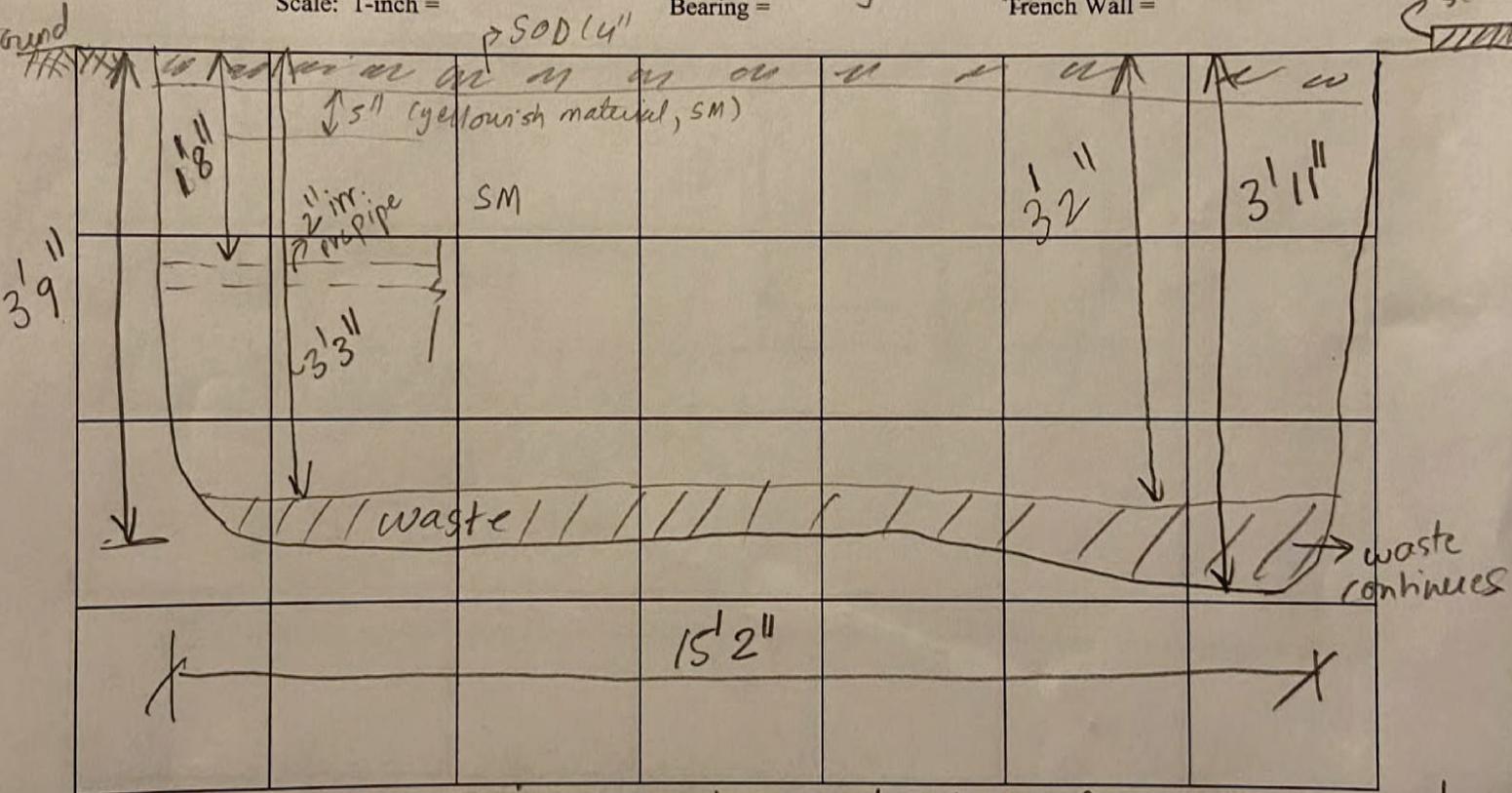
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =	marked utility		

Scale: 1-inch =

Bearing =

French Wall =



Notes: lateral limit of waste could not be found (reached close to concrete slab and utility lines)

Test Pit Number: TP-4

Date: 9/25/2020

Geosyntec
consultants

Location: Edison Park

Equipment: 580 CASE
Super N

Project: Edison Park Waste Delineation

Northing, Easting:
33° 39' 7" N
117° 58' 21" W

Logged By: Sneha Upadhyaya

Project No.: HL1685A

waste: Dark grey, AC debris (chunks of AC observed)

Top soil: silty sand (SM); some areas w/ loose clean sand (SP)

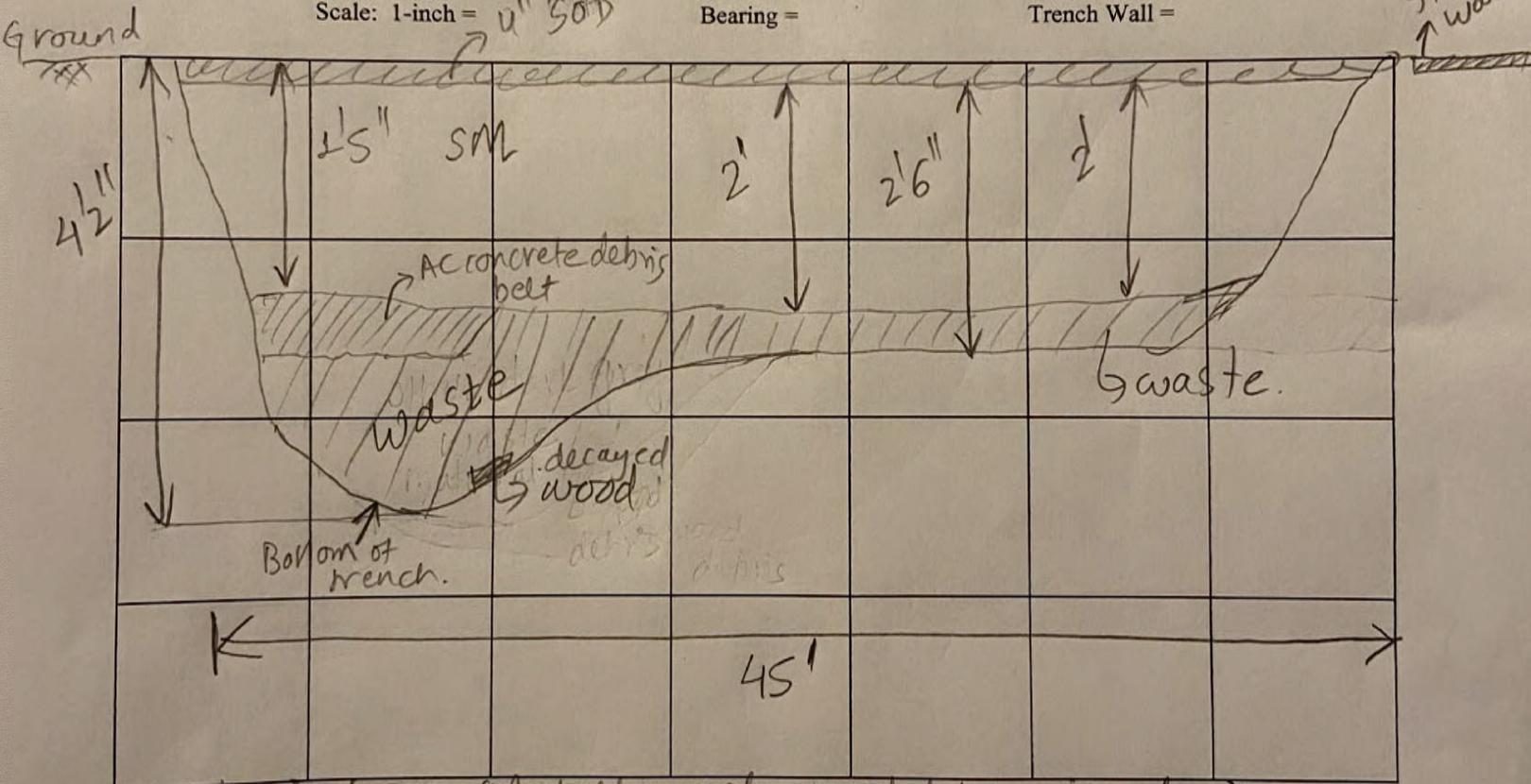
TEST PIT LOG

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
		TD =			

Scale: 1-inch = 2' 50D

Bearing =

Trench Wall =



Waste: Dark grey (Asphalt concrete, wood debris with odor)

Test Pit Number: TP-5

Date: 9/25/2020

Geosyntec[®]
consultants

Location: Edison Park

Equipment: CASE 580
Super N

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

33° 39' 5" N
117° 58' 21" W

TEST PIT LOG

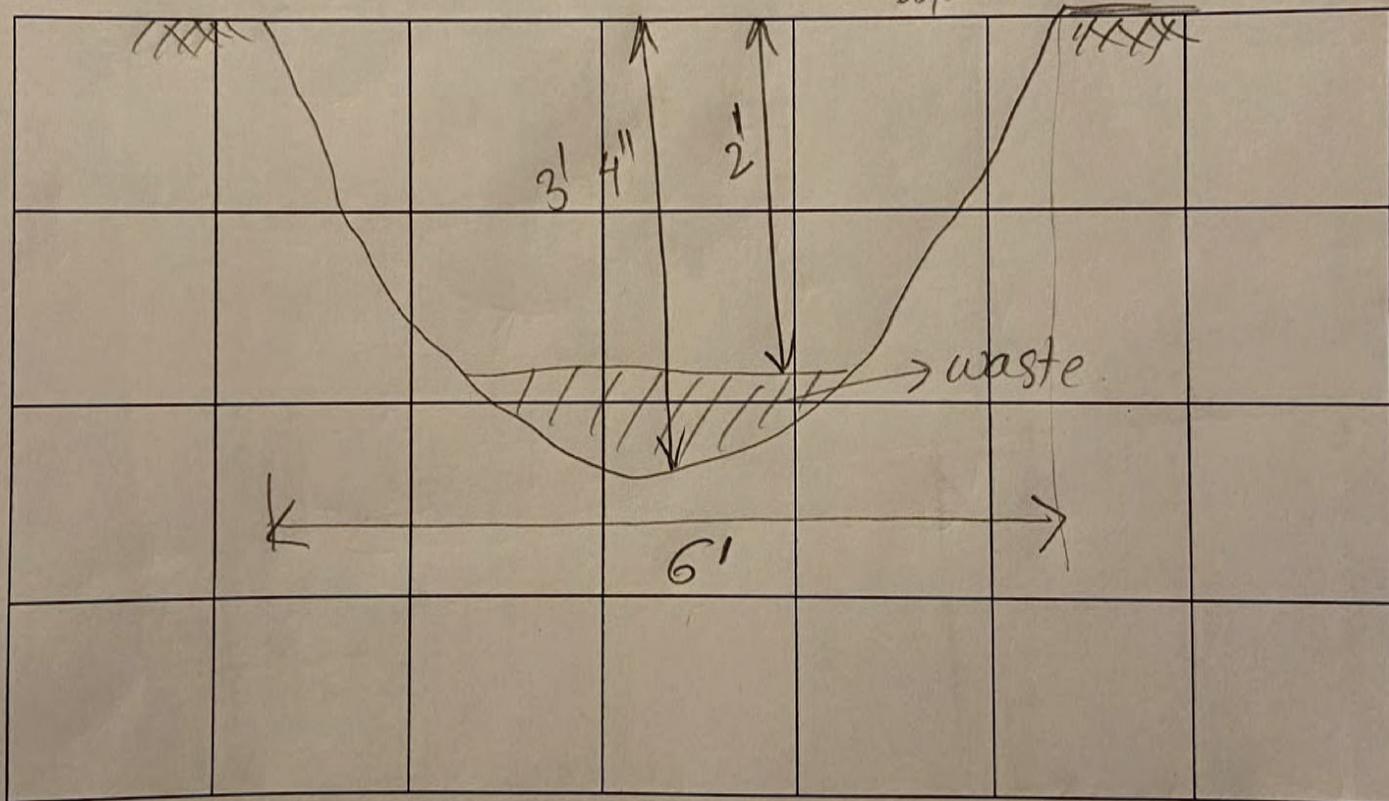
CTP-5, pothole

Formation	Bedding Attitude	Depth BGS (feet)	Description	Opt. Moist. Content (%)	Max. Dry Density (pcf)
			Pothole 35' from the edge of TP-5 towards the east (past the sidewalk lamp post)		
		TD =			

Scale: 1-inch =

Bearing =

Antenna Trench Wall = box.



Test Pit Number: TP-5 pothole Date: 9/25/2020

Geosyntec[®]
consultants

Location: Edison Park

Equipment:

Project: Edison Park Waste Delineation

Northing, Easting:

Logged By: Sneha Upadhyaya

Project No.: HL1685A

Appendix D

Borings Logs with Key

KEY SHEET - CLASSIFICATIONS AND SYMBOLS

GS FORM:
KEY/SYMBOLS 01/04

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N60 VALUES *

	N60 VALUE * (BLOWS/FT)	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TONS/SQ FT)		N60 VALUE * (BLOWS/FT)	RELATIVE DENSITY
FINE GRAINED SOILS	0 - 2	VERY SOFT	<0.25	COARSE GRAINED SOILS	0 - 4	VERY LOOSE
	3 - 4	SOFT	0.25 - 0.50		5 - 10	LOOSE
	5 - 8	FIRM	0.50 - 1.00		11 - 30	MEDIUM DENSE
	9 - 15	STIFF	1.00 - 2.00		31 - 50	DENSE
	16 - 30	VERY STIFF	2.00 - 4.00		>50	VERY DENSE
	31 - 50	HARD	>4.00			
	>50	VERY HARD				

* ASTM D 1586; NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 IN. O.D., 1.4 IN. I.D. SAMPLER ONE FOOT, CORRECTED FOR HAMMER EFFICIENCY.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS		SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
		SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP
MORE THAN 50% OF MATERIAL COARSER THAN NO. 200 SIEVE SIZE	SANDS WITH FINES APPRECIABLE AMOUNT OF FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
		SC	CLAYEY SANDS, SAND-CLAY MIXTURES
		FINE GRAINED SOILS	SILTS AND CLAYS
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS		
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
MORE THAN 50% OF MATERIAL FINER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS		
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT

NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

PARTICLE SIZE IDENTIFICATION

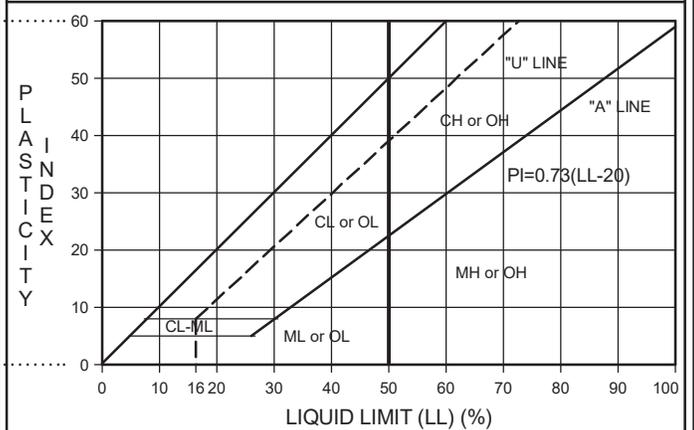
USCS (SOILS ONLY) *		SEDIMENTARY (ROCK ONLY)	
BOULDER	>300 mm	BOULDER	>256 mm
COBBLE	75 - 300 mm	COBBLE	64 - 256 mm
GRAVEL: COARSE	20 - 75 mm	PEBBLE	4 - 64 mm
GRAVEL: FINE	4.75 - 20 mm	GRANULE	2 - 4 mm
SAND: COARSE	2 - 4.75 mm	SAND: V. COARSE	1 - 2 mm
SAND: MEDIUM	0.42 - 2 mm	SAND: COARSE	0.5 - 1 mm
SAND: FINE	0.074 - 0.42 mm	SAND: MEDIUM	0.25 - 0.5 mm
		SAND: FINE	0.125 - 0.25 mm
SILT/CLAY	<0.074 mm	SAND: V. FINE	0.063 - 0.125 mm
		SILT	0.004 - 0.063 mm
		CLAY	<0.004 mm

* WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES

* POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING

PERCENTAGE OF PARTICLE TYPE IN DECREASING ORDER OF PARTICLE SIZE (GRAVEL, SAND, FINES), BASED ON VISUAL OBSERVATION

PLASTICITY CHART



OTHER MATERIAL SYMBOLS

	Conglomerate		Sandy Claystone		Marker Bed
	Sandstone		Granitic/Intrusive		
	Silty Sandstone		Volcanic/Extrusive		Artificial Fill
	Clayey Sandstone		Metamorphic		Refuse
	Sandy Siltstone		Limestone		Concrete/Asphalt
	Siltstone		Dolomite		
	Claystone		Glacial Till		
	Clayey Siltstone/ Silty Claystone		Landslide Debris		

WELL SYMBOLS

	CONCRETE
	GROUT
	BENTONITE SEAL
	TRANSITION SAND
	SAND PACK
	GRAVEL PACK
	NATIVE/SLUFF
	CENTRALIZER

SAMPLE TYPE AND OTHER SYMBOLS

	BULK SAMPLE		Water Level at Time Drilling, or as Shown
	STANDARD PENETRATION TEST		Static Water Level
	MODIFIED CALIFORNIA SAMPLE		Pump Inlet
	CORE SAMPLE		Loss of Drilling Fluid
	SHELBY TUBE		MSL: Mean Sea Level
	DRIVE SAMPLE		AGS: Above Ground Surface
			BGS: Below Ground Surface
			BTOC: Below Top of Casing
			HSA: Hollow Stem Auger



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-1
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 11
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
10	Silty SAND (SM): brown; dry; fine sand; [0,80,20]; non-plastic.		10							16:20	Hand augered to 5 ft bgs.
5	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							16:30	
10	Silty SAND (SM): grey; wet; fine sand; [0,80,20]; low plastic.		0							16:45	First depth to groundwater.
11.5	Terminate boring at 11.5-ft below ground surface (bgs).									16:55	

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65306
EASTING -117.97278
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-3
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 7
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.		5							13:55	Hand augered to 5 ft bgs.
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							14:05	
5			0								
10			-5								14:20 First depth to groundwater.
15			-10								
20	Poorly-graded SAND with Silt (SP-SM): grey; wet; predominantly fine sand; [0,90,10]; non-plastic.		-15								14:30
	Terminate boring at 21.5-ft below ground surface (bgs).		-15								14:40
			-15								14:45
25			-20								
30			-25								

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Liovin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97250
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-4
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 2
ELEVATION DATA:
GROUND SURF. 5
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)										1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.									10:50	Hand augered to 5 ft bgs.
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.									10:55	
5			0								
										11:10	First depth to groundwater.
10			-5								
										11:15	Hard drilling observed.
15			-10								
										11:20	
20			-15								
										11:30	Hard drilling observed.
25			-20								
30			-25								

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Liovin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97306
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-4
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 2 OF 2
ELEVATION DATA:
GROUND SURF. 5
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
		[Hatched Pattern]								12:00	Very hard drilling, little to no spoils.
35	Terminate boring at 34-ft below ground surface (bgs) due to refusal.		-30							12:40	Refusal; auger plugged with wood. Wood chunks observed in the spoils as the auger was retracted.
40			-35								
45			-40								
50			-45								
55			-50								
60			-55								

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya

NORTHING 33.65194
EASTING -117.97306
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-5
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 1 OF 2
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane	
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
	Silty SAND (SM): brown; dry; fine sand; [5,75,20]; non-plastic; 1/4-in. to 1/2-in. gravel.									07:45	Hand augered to 5 ft bgs.
	LANDFILL MAERIAL: dark grey; moist; no odor; wood pieces, asphalt concrete debris.		5							08:00	
5	organic odor.		0							08:20	
10			-5							08:25	
15	becomes wet.		-10							08:30	
20			-15								
25			-20								
30			-25								

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

CONTRACTOR ABC Liovin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya
NORTHING 33.65278
EASTING -117.97333
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main St
Suite 150
Huntington Beach, CA 92648
Tel: (714) 969-0800
Fax: (714) 333-4275

BORING HSA-5
START DRILL DATE Sep 28, 20
FINISH DRILL DATE Sep 28, 20
LOCATION Huntington Beach, CA
PROJECT Edison Park Waste Delineation
NUMBER HL1685A

SHEET 2 OF 2
ELEVATION DATA:
GROUND SURF. 9
TOP OF CASING
DATUM ft +MSL

GS FORM:
GEOTECH1 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Soil Name (USCS Sym.) 2) Color 3) Moisture 4) Grain Size 5) Percentage 6) Plasticity 7) Density/Consistency 8) Other (Mineral Content, Discoloration, Odor, etc.)	GRAPHIC LOG	ELEV. (ft)	SAMPLE						COMMENTS 1) Rig Behavior 2) Air Monitoring 3) Pocket Pen 4) Tor Vane
				SAMPLE NO.	TYPE	BLOWS PER 6"	N VALUE	RECOVERY (%)	PID READING (ppm)	
35			-25							09:00 Hard drilling (rattling of auger) observed.
										09:30 No recovery. Hard drilling observed.
40			-30							09:32 No recovery.
										09:35
										09:45
45			-35							
50			-40							
55			-45							
60			-50							

Silty SAND (SM): grey; wet; fine sand; [0,80,20]; non-plastic.
Terminate boring at 41.5-ft below ground surface (bgs).

CONTRACTOR ABC Livin
EQUIPMENT CME 85
DRILL MTHD Hollow Stem Auger
DIAMETER 8-inch
LOGGER S. Upadhyaya
NORTHING 33.65278
EASTING -117.97333
COORDINATE SYSTEM:
REVIEWER Y. Zemuy, P. E.

NOTES: Borehole backfilled with hydrated bentonite chips. Logging of soils completed in general accordance with ASTM D2488 and ASTM D1586.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

02-GEOTECH1 HL1685A.GPJ GEOSNTEC.GDT 10/25/20

KEY SHEET - CLASSIFICATIONS AND SYMBOLS

GS FORM:
KEY/SYMBOLS 01/04

EMPIRICAL CORRELATIONS WITH STANDARD PENETRATION RESISTANCE N60 VALUES *

	N60 VALUE * (BLOWS/FT)	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TONS/SQ FT)		N60 VALUE * (BLOWS/FT)	RELATIVE DENSITY
FINE GRAINED SOILS	0 - 2	VERY SOFT	<0.25	COARSE GRAINED SOILS	0 - 4	VERY LOOSE
	3 - 4	SOFT	0.25 - 0.50		5 - 10	LOOSE
	5 - 8	FIRM	0.50 - 1.00		11 - 30	MEDIUM DENSE
	9 - 15	STIFF	1.00 - 2.00		31 - 50	DENSE
	16 - 30	VERY STIFF	2.00 - 4.00		>50	VERY DENSE
	31 - 50	HARD	>4.00			
	>50	VERY HARD				

* ASTM D 1586; NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30 INCHES TO DRIVE A 2 IN. O.D., 1.4 IN. I.D. SAMPLER ONE FOOT, CORRECTED FOR HAMMER EFFICIENCY.

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISIONS		SYMBOLS	DESCRIPTIONS	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GM	SILTY GRAVELS, GRAVEL- SAND-SILT MIXTURES	
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GC	CLAYEY GRAVELS, GRAVEL- SAND-CLAY MIXTURES	
		SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
MORE THAN 50% OF MATERIAL COARSER THAN NO. 200 SIEVE SIZE	SM	SILTY SANDS, SAND-SILT MIXTURES		
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES		
	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY		
FINE GRAINED SOILS	SILTS AND CLAYS	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT	
	MORE THAN 50% OF MATERIAL FINER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT
HIGHLY ORGANIC SOILS				

NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

PARTICLE SIZE IDENTIFICATION

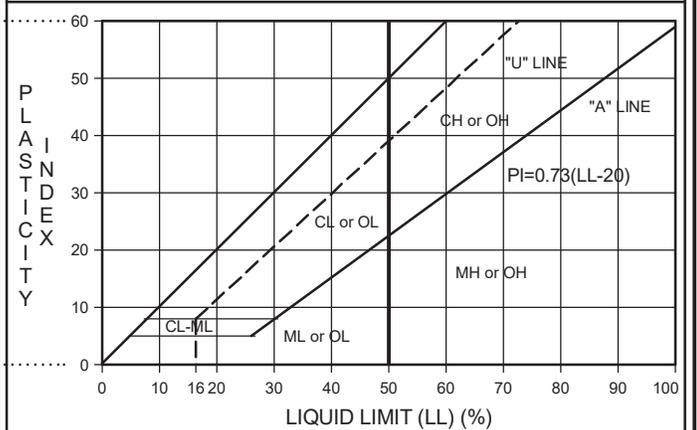
USCS (SOILS ONLY) *		SEDIMENTARY (ROCK ONLY)	
BOULDER	>300 mm	BOULDER	>256 mm
COBBLE	75 - 300 mm	COBBLE	64 - 256 mm
GRAVEL: COARSE	20 - 75 mm	PEBBLE	4 - 64 mm
GRAVEL: FINE	4.75 - 20 mm	GRANULE	2 - 4 mm
SAND: COARSE	2 - 4.75 mm	SAND: V. COARSE	1 - 2 mm
SAND: MEDIUM	0.42 - 2 mm	SAND: COARSE	0.5 - 1 mm
SAND: FINE	0.074 - 0.42 mm	SAND: MEDIUM	0.25 - 0.5 mm
SILT/CLAY	<0.074 mm	SAND: FINE	0.125 - 0.25 mm
		SAND: V. FINE	0.063 - 0.125 mm
		SILT	0.004 - 0.063 mm
		CLAY	<0.004 mm

* WELL GRADED - HAVING WIDE RANGE OF GRAIN SIZES AND APPRECIABLE AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES

* POORLY GRADED - PREDOMINANTLY ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING

PERCENTAGE OF PARTICLE TYPE IN DECREASING ORDER OF PARTICLE SIZE (GRAVEL, SAND, FINES), BASED ON VISUAL OBSERVATION

PLASTICITY CHART



OTHER MATERIAL SYMBOLS

Conglomerate	Sandy Claystone	Marker Bed
Sandstone	Granitic/Intrusive	
Silty Sandstone	Volcanic/Extrusive	Artificial Fill
Clayey Sandstone	Metamorphic	Refuse
Sandy Siltstone	Limestone	Concrete/Asphalt
Siltstone	Dolomite	
Claystone	Glacial Till	
Clayey Siltstone/ Silty Claystone	Landslide Debris	

WELL SYMBOLS

CONCRETE
GROUT
BENTONITE SEAL
TRANSITION SAND
SAND PACK
GRAVEL PACK
NATIVE/SLUFF
CENTRALIZER

SAMPLE TYPE AND OTHER SYMBOLS

BULK SAMPLE	Water Level at Time Drilling, or as Shown
STANDARD PENETRATION TEST	Static Water Level
MODIFIED CALIFORNIA SAMPLE	Pump Inlet
CORE SAMPLE	Loss of Drilling Fluid
SHELBY TUBE	MSL: Mean Sea Level
DRIVE SAMPLE	AGS: Above Ground Surface
	BGS: Below Ground Surface
	BTCO: Below Top of Casing
	HSA: Hollow Stem Auger

OI 6i h) ;
 Owi SwFhc - ck m

BOREHOLE LOG

(wBSH Mtl bgs:	(wI FhzBSi p c: loyPa, e MI FI I N : T: Foar 7:) oysture m Orayn l ye 5: BerPentage	P: BastyRjN W(ensyNFonsystenRN] : i tGer M] yneraFFontent2 (ysRb/araton2i detor2R:	Oh DBHF 3i O	w3w" . Mt:	SAMPLE						Fi)) wp Si c: h yG YeGalyr T: Dy) onyoryng 7: BoRLet Ben m Sor" ane
					I D) B3w pi .	S4Bw	Y3i %I Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
	Fi p FhwSw l yANI Dp(M) : ; bro[n0, oystOfyne sand082 - 2:5L0 nonlEastyRtraRe ckln. to ckTln. gra1eA									c7;-5 c7;c5	Hand augered to 5 ft bgs.
5	6at F3D4 M H: ; darUgreND, oyst0traRe fyne sand0 822C- L0, edyu, to GgGEastyRjN dsAgG organyRodor0 traRe bryRUdebrs EjeRes.									c7;T5	
c-	6at F3D4 [yGI and M H: ; darUgreND, oystOfyne sand08 0T- Q - L0, edyu, to GgGEastyRjN									c7;m	
c5	l andNI zBS M] 3: ; darUgreND[etOfyne sand08 2m 2P- L0 none to A[EastyRjN Ser, yrate boryng at cP.5ft beA[ground surfaRe Mgs:.									c7;m6	
T-										c7;5-	
T5											
7-											

CONTRACTOR DYF 3yo1yn
EQUIPMENT F) w] 5
DRILL MTHD HoA[l te, Duger
DIAMETER] l ynRG
LOGGER I . / EadGnaNa
NORTHING 77.P5TTW
EASTING lccWCV7c-
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: Oround[ater [as not enRountered. YoreGoA baRufyAd [yG
 GNtrated bentonite RQEs. 3ogging of soys Rb, EAted yn generaAaRRordanRe
 [yGDI S) (Trj] and DI S) (c5] P.
 I ww9w4 l HwwS6i h l 4) Yi 3l Dp(DYYhw" zS3 pl

-TIOwi SwFhc H3cPJ 5Y.OBZ Owi l pSwF.O(S mKQtc



Tc--) ayl t
 l uye c5-
 Huntyngton YearRQ2FD CTPnj
 SeAMvcm CPQI-] --
 6ax; Mwcm 777ImTW5

BORING HSA-3A
START DRILL DATE) ar cT2Tc
FINISH DRILL DATE) ar cT2Tc
LOCATION Huntyngton YearRQ2FD
PROJECT wdyson BarU%aste (eAneaton
NUMBER H3cPJ 5Y

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF.]
TOP OF CASING
DATUM ft +) | 3

OI 6i h) ;
 OwI SwFhc - ck m

BOREHOLE LOG

(wBSH Mtl bgs:	(wI FhzBSi p c: loyApa, e MI FI I N : T: Foer 7:) oysture m Orayn l y6 5: BerFentage P: BastyRjN W(ensyNFonsystenRN] : i tGer M] yneraFontent2 (ysRbratyon2i dor2etr:	OhDBH/F 3i O	w3w' . Mt:	SAMPLE						Fi)) wp Si c: h yG YeGalyr T: Dy) onyoryng 7: BoRlet Ben m Sor " ane
				I D) B3w pi .	S4Bw	Y3i %I Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
Fi p FhwSw l yANI Dp (M) :: brof n0, oystofyne sand082 - 2:5L0 nonlEastyRtraRe cklyn. to ckTlyn. gra1eA									cc;T- cc;75	Hand augered to 5 ft bgs.
6at F3D4 MFH:; darUgreNO, oystotraRe fyne sand0 8 2525L0, edyu, to GgGEastyRjNsAgG organyRodor0 traRe asEGAd debrys EyeRes.									cc;m5	
6at F3D4 [yGI and MFH:; darUgreNO, oystofyne sand08 0T50V5L0, edyu, to GgGEastyRjN									cT;-	
l yANI Dp (M) :: greNO[etofyne sand08 2P- 2n l0none to A[EastyRjN									cT;-	6yst deEtGto ground[ater.
Ser, yrate boryng at cP.5ift beA[ground surfaRe Mgs:.									cT;T-	

-TIOwI SwFhc H3cPJ 5Y.OBZ OwI l p SwF.O(S mKtC

CONTRACTOR DYF 3yo1yn
EQUIPMENT F) w] 5
DRILL MTHD HoA[l te, Duger
DIAMETER] l ynRG
LOGGER l . / EadGnaNa
NORTHING 77.P5Tc7P
EASTING lccWcWT5-
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: YoreGoA baRlyAd [yGGNtrated bentonyte RQEs. 3oggyng of
 soyA Rb, Eated yn generaAaRrdanRe [yGDl S) (Trj] and Dl S)
 (c5] P.
 l ww9w4 l HwwS6i h l 4) Yi 3l Dp(DYYhw" zS3 pl

OI 6i h) ;
 Owi SwFhc - ck m

BOREHOLE LOG

(wBSH Mtl bgs:	(w l Fh zBSi p c: l oyApa, e MI FI I N : T: FoAr 7:) oysture m Orayn l yE 5: BerFentage P: BAsyRjN W(ensyNFonsystenRN] : i tGer M yneraFfontent2 (ysRbAratyon2i dor2etR:	Oh DBHF 3i O	w3w' . M:	SAMPLE						Fi)) wp Sl c: h yG YeCa1yr T: Dy) onyoryng 7: BoRlet Ben m Sor " ane
				I D) B3w pl .	S4Bw	Y3i %l Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
Fi p FhwSw l yNI Dp (M) ; ; brof n0, oystOfyne sand052/52T- l0 nonlEAsyRtraRe cklny. to ckTln. gra1eA									cm7- cm7m	Hand augered to 5 ft bgs.
6at F3D4 MFH: ; darUgreN0, oyst0traRe fyne sand0 852C- l0, edyu, to GgGEAsyRjN sAgG organyRodor0 [ood debrys0traRe bryRUdebrys EyeRes. fe bryRUdebrys EyeRes.										
5 6at F3D4 MFH: ; darUgreN0, oyst0fe fyne sand0 8 0c- (C- l0, edyu, to GgGEAsyRjN traRe sea sCeA.									cm5-	
c- beRb, es [et08 0505L								c- -	c5;c5	
l andNI zBSMl 3: ; greN0[et0fyne sand0M0n P- :0A[to, edyu, EAsyRjN										
c5 6at F3D4 MFH: ; greN0[et0fe fyne sand08 2- 2C- l0 , edyu, to GgGEAsyRjN								c- -	c5;T5	6yst deEGto ground[ater.
Ser, yrate boryng at cP.5lft beA[ground surfaRe Mgs:.									c5;7-	
T- T5 7-										

-TIOwi SwFhc H3cPJ 5Y.OBZ Owi l p SwF.O(S mKtc

CONTRACTOR DYF 3y01yn
EQUIPMENT F) w] 5
DRILL MTHD HoA[l te, Duger
DIAMETER] l ynRG
LOGGER l . / EadGNaNa
NORTHING 77.P5c0W
EASTING lccW0WTC
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: YoreGoA baRlyAd [yGNtrated bentonyte RGEs. 3oggyng of
 soyA Rb, EAsed yn generaAaRJordanRe [yGDl S) (Trj] and Dl S)
 (c5] P.
 l ww9w4 l HwwS6i h l 4) Yi 3l Dp(DYYhw" zSs pl

OI 6i h) ;
 Owi SwFhc - ck m

BOREHOLE LOG

Borehole ID	Description	Depth (ft)	SAMPLE						Remarks
			Sample ID	Sample Type	Sample Description	Sample Location	Sample Date	Sample Status	
0	Hand augered to 5 ft bgs.	0 - 5							
5	6 at F3D4 MFH; darUgreNO, oystotraRe fyne sand082/52T-10 8 25C5L0, edyu, to GgGEAsyRjNsAgG organyRodor.	5 - 10							
10	Hand augered to 5 ft bgs.	10 - 15							
15	Hand augered to 5 ft bgs.	15 - 20							
20	Hand augered to 5 ft bgs.	20 - 25							
25	Hand augered to 5 ft bgs.	25 - 30							
30	Hand augered to 5 ft bgs.	30 - 35							
35	Hand augered to 5 ft bgs.	35 - 40							
40	Hand augered to 5 ft bgs.	40 - 45							
45	Hand augered to 5 ft bgs.	45 - 50							
50	Hand augered to 5 ft bgs.	50 - 55							
55	Hand augered to 5 ft bgs.	55 - 60							
60	Hand augered to 5 ft bgs.	60 - 65							
65	Hand augered to 5 ft bgs.	65 - 70							
70	Hand augered to 5 ft bgs.	70 - 75							
75	Hand augered to 5 ft bgs.	75 - 80							
80	Hand augered to 5 ft bgs.	80 - 85							
85	Hand augered to 5 ft bgs.	85 - 90							
90	Hand augered to 5 ft bgs.	90 - 95							
95	Hand augered to 5 ft bgs.	95 - 100							

CONTRACTOR DYF 3y01yn
EQUIPMENT F) w] 5
DRILL MTHD HoA] l te, Duger
DIAMETER] l ynRG
LOGGER I . / EadGnNa
NORTHING 77.P5cC5c
EASTING lccWcW7P-
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: YoreGoA baRlyAd [yGNtrated bentonyte RQEs. 3oggyng of soyA Rb, Eated yn generaAaRrdanRe [yGDl S) (Trj] and Dl S) (c5] P.
 I ww9w4 l HwwS6i h l 4) Yi 3l Dp (DYYhw" zS3 pl

-TIOwi SwFhc H3cPJ 5Y.OBZ.Owi l pSwF.O(S mKtc

OI 6i h) ;
 OwI SwFhc - ck m

BOREHOLE LOG

(wBSH Mtl bgs:	(wI FhzBSi p c: loyPa, e MI FI I N : T: Foar 7:) oysture m Orayl y6 5: BerFentage P: BastyRjN W(ensyNFonsystenRN] : i tGer M] yneraFotent2 (ysRaratyon2i dor2etR:	OhDBHZF 3i O	w3w' . Mt:	SAMPLE						Fi)) wp Si c: h yG YeGalyr T: Dy) onyoryng 7: BoRLet Ben m Sor " ane
				I D) B3w pl .	S4Bw	Y3i %I Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
Fi p FhwSw l yANI Dp (M) ; ; brof n0, oystofyne sand082 - 2:5L0 nonlEastyRtraRe ckriyn. to ckTly. gra1eA									cV7c- cW7c5	Hand augered to 5 ft bgs.
6at F3D4 MFH: ; darUgreN0, oystotraRe fyne sand0 8 25L0, eduy, to GgGEastyRjNsAgG organyRodor.									cW7-	
8 Q- (C- L)no odor.									cW75	
I andNI zS M] 3: ; darUgreN0[etofyne sand08 27- 2V L0 none to A[EastyRjN									cW7b	
Ser, yrate boryng at cP.5ft beA[ground surfaRe Mgs:.									cW75-	

CONTRACTOR DYF 3yo1yn
EQUIPMENT F) w] 5
DRILL MTHD HoA[l te, Duger
DIAMETER] l ynRG
LOGGER 9. " ys[anatGan

NORTHING 77.P5T- 77
EASTING lccWCVT5c-
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: Oround[ater [as not enRountered. YoreGoA baRufyAed [yG
 GNitrated bentonite RGEs. 3oggyng of soys Rb, EAted yn generaAaRRordanRe
 [yGDI S) (Trj] and DI S) (c5] P.
 I ww9w4 I HwwS6i h l 4) Yi 3l Dp(DYYhw" zS3 pl

-TIOwI SwFhc H3cPJ 5Y.OBZ OwI l pSwF.O(S mKQtc

OI 6i h) ;
 Owi SwFHc - ck m

BOREHOLE LOG

(wBSH Mtl bgs:	(w l FhzBSi p c: l oyPa, e MI FI l N : T: Foar 7:) oysture m Oray l y6 5: BerPentage	P: BastyRjN W(ensyNFonsystenRN] : i tGer l yneraFfontent2 (ysRbratyon2i dor2etr:	OhDBHF 3i O	w3w" . Mt:	SAMPLE						Fi)) wp Sl c: h yG YeGalyr T: Dy) onyoryng 7: BoRlet Ben m Sor" ane
					I D) B3w pl .	S4Bw	Y3i %l Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
	Fi p FhwSw l yNI Dp (M) : ; brof n0, oystOfyne sand082 - 2:5L0 none to A[EastyRjN traRe chny. to ckTly. gra1eA										Hand augered to 5 ft bgs.
5	6at F3D4 MFH: ; darUgreNO, oystOtraRe fyne sand0 8 225L0, edyu, to GgGEastyRjN SasG organyRodor.										
c-	l andNI zBS Ml 3: ; darUbrof n0[etOfyne sand0 MOn OP: 0A[to, edyu, EastyRjN										
c5	6at F3D4 MFH: ; greNO[etOfel fyne sand08 2- 2C L0 , edyu, to GgGEastyRjN										6yst deEGto ground[ater.
T-	Ser, yate boryng at c] . - lft beA[ground surfaRe Nlgs:.										
T5											
7-											

-TIOwi SwFHc H3cPJ 5Y.OBZ Owi l p SwF.O(S mKQtc

CONTRACTOR DYF 3yo1yn
EQUIPMENT F) w] 5
DRILL MTHD HoA[l te, Duger
DIAMETER] l ynRG
LOGGER l . / EadGnaNa
NORTHING 77.P5TcVY
EASTING lccWCVT5T-
COORDINATE SYSTEM:
REVIEWER 4. Ke, uN2B. w.

NOTES: YoreGoA baRlyAd [yGGNtrated bentonyte RQEs. 3oggyng of
 soyA Rb, Eated yn generaAaRJordanRe [yGDl S) (Trj] and Dl S)
 (c5] P.
 l ww9w4 l HwwS6i h l 4) Yi 3l Dp (DYyh w" zSs pl

OI 6i h) ;
 OwI SwFhc - ck m

BOREHOLE LOG

Elevation (ft)	Description	Soil Type	SAMPLE						Remarks
			ID	S4Bw	Y3l %l Bwh Pv	p " D3/ w	hwFi " wh4 M :	Bx h wD(p O ME, :	
0	Surface								
0.5	0.5 ft below surface								
1.0	1.0 ft below surface								
1.5	1.5 ft below surface								
2.0	2.0 ft below surface								
2.5	2.5 ft below surface								
3.0	3.0 ft below surface								
3.5	3.5 ft below surface								
4.0	4.0 ft below surface								
4.5	4.5 ft below surface								
5.0	5.0 ft below surface								
5.5	5.5 ft below surface								
6.0	6.0 ft below surface								
6.5	6.5 ft below surface								
7.0	7.0 ft below surface								

CONTRACTOR DYF 3y1n
EQUIPMENT F) w] 5
DRILL MTHD HoA] l te, Duger
DIAMETER] l yRG
LOGGER I . / EadGnaNa
NORTHING 77.P5Tc] c
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NOTES: YoreGoA baRlyAd [yGGNtrated bentonite RGEs. 3oggyng of soyA Rb, Eated yn generaAaRrdanRe [yGDl S) (Trj] and Dl S) (c5] P.
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Appendix E

Daily Field Reports



DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		

Time	Field Work Activities
0700	Arrived on site and met with GEOVision field crew Martin Garcia and Christopher Collins.
0705	Held a brief tailgate safety meeting. GEOVision crew acknowledged the THA.
0710	Performed a site walk with GEOVision crew to observe the proposed investigation locations (HSA-1 through HSA-5; TP-1 through TP-5).
0730	GEOVision started utility clearance survey at location of TP-1 test pit. Some utilities (likely irrigation and main water line) were encountered within 5 ft of TP-1. GEOVision marked a new location 14 ft north of the existing TP-1 location.
0800	GEOVision performed utility clearance survey at location of HSA-1 boring. No conflicts were found at HSA-1 location.
0810	GEOVision performed utility clearance survey at location of TP-2. Electrical and irrigation utility lines were located within 3 ft of TP-2 location. GEOVision marked a new TP-2 location 10 ft south of the existing location.
0820	GEOVision performed utility clearance survey at location of HSA-5 boring. No conflicts were found at HSA-5 location.
0835	GEOVision performed utility clearance survey at locations of TP-3 and HSA-2. Some utilities (likely irrigation lines) were encountered within 5 ft of HSA-2 and TP-3 location. GEOVision marked a new HAS-2 location 3 ft east of the existing location.
0850	GEOVision performed utility clearance survey at location of HSA-4. Some utilities were encountered within 2 ft of the HSA-4 location. GEOVision marked a new location 3 ft east of the existing location.
0900	GEOVision performed utility clearance survey at locations of TP-4 and HSA-3. Electrical and irrigation utility lines were encountered within 5-10 ft of TP-4 and HSA-3 locations. No conflict at HSA-3. GEOVision marked a new location 15 ft southwest of the existing TP-4 location.
0920	GEOVision performed utility clearance survey at TP-5 location. No conflicts were found at TP-5.
0945	Geosyntec and GEOVision departed the site for the day.

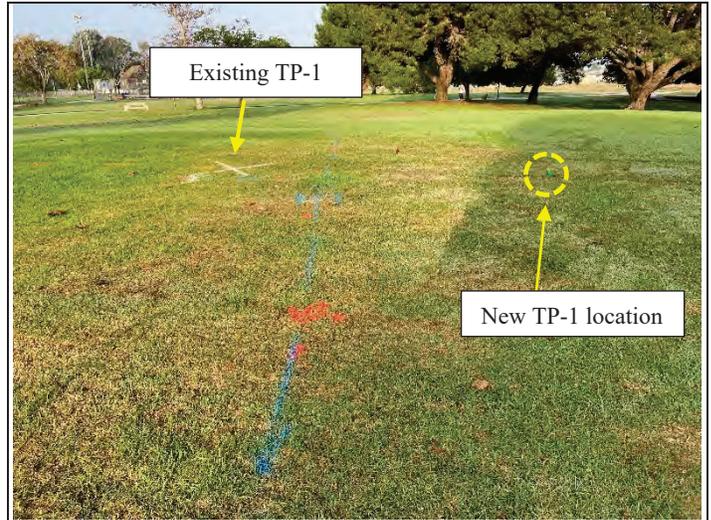
DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		



GEOVision crew performing utility clearance survey at location TP-1 (looking west)



Utility markings at TP-1 and the new TP-1 location (looking west)



Location HSA-1 cleared of utilities (looking north)



GEOVision crew performing utility clearance survey at location TP-2 (looking north)

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:001

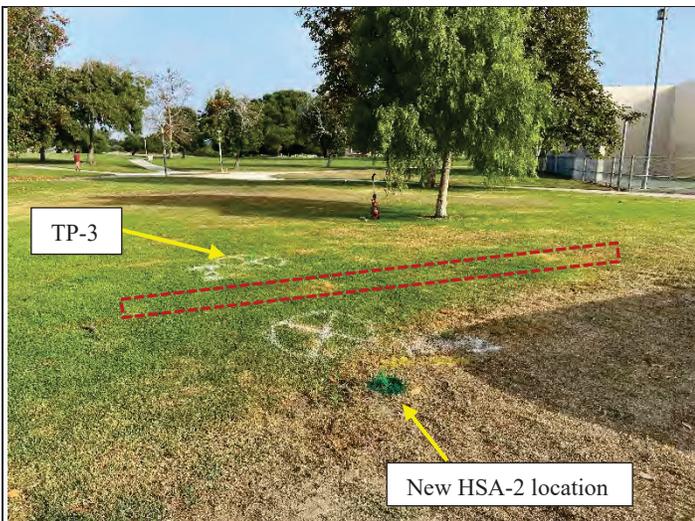
PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>		CONTRACTOR: <u>GEOVision, Inc.,</u>
DAY OF WEEK: <u>Wednesday</u>		DATE: <u>September 23, 2020</u>
WEATHER: <u>Sunny, High 72° Low 64°</u>		



Electrical utility markings at existing TP-2 and the new TP-2 location (looking north)



Location HSA-5 cleared of utilities (looking south)



Utility markings at existing TP-3 and HSA-2 locations and the new HSA-2 location (looking northwest)



Utility markings at existing HSA-4 location and the new HSA-4 location (looking northwest)

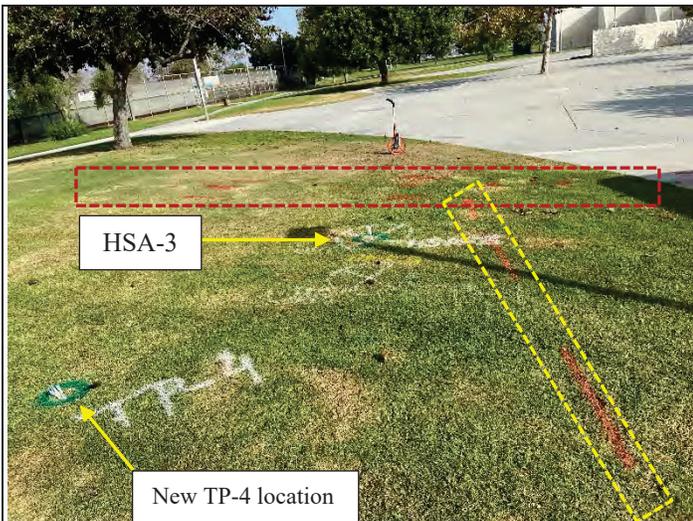
Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Wednesday</u>	DATE: <u>September 23, 2020</u>	
WEATHER: <u>Sunny, High 72° Low 64°</u>		



Utility markings (electrical and irrigation lines) at TP-4 and HSA-3 locations and the new TP-4 location (looking north)



Location TP-5 cleared of utilities (looking northwest). The anomalies located are likely roots.



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		

Time	Field Work Activities
0645	Geosyntec air monitoring staff Eric Garcia arrived on site.
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0700	Met with American Integrated Services (AIS) field crew (Geoff Harris, Antonio Sanchez, Jose Avila, and Brandon Duncan) and Geosyntec Air Monitoring field staff (Eric Garcia). Discussed the plan for the day with AIS field crew.
0710	AIS unloaded the drums at the parking lot.
0720	AIS mobilized the field equipment to proposed TP-1 exploratory test pit location. Plywood panels were placed on the ground to prevent potential rutting of the vegetation from the backhoe tires.
0730	Conducted a brief tailgate safety meeting.
0740	Fence panels with wind screens were placed around the excavation area. Plastic tarps were placed for temporarily staging the excavated soil.
0745	Started excavation activities at TP-1 location using a backhoe (CASE 580 Super N) with 36 inches wide bucket. About 4 inches of sod and topsoil was removed carefully.
0750	Continued excavating through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)]
0810	Encountered a 1 ft long metallic object at 2 ft below the ground surface (bgs).
0820	Encountered waste at approximately 3.5 ft bgs. Continued excavation to delineate the lateral limit of the waste.
0825	Geosyntec engineer Karthik Viswanathan arrived on-site.
0830	Encountered an underground irrigation pipe at approximately 3.0 ft bgs(1.5-inch PVC pipe). Minor damage caused during excavation was observed on the pipe.
0900	A section of the irrigation pipe was cut for repair. Excavation was continued towards the east to delineate the lateral limit of waste.
0930	Observed the lateral limit of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
0950	AIS repaired the damaged section of the irrigation pipe.
1010	AIS went to fill up the water trailer.
1050	Started backfilling the test pit (TP-1) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1130	City of Huntington Beach personnel (Farhad Bolourchi) arrived on-site. Geosyntec provided an update to Mr. Bolourchi on TP-1 excavation activities.
1140	Geosyntec Senior Engineer (Yonas Zemuy) arrived on-site. Mr. Zemuy and Mr. Bolourchi performed a site walk.
1200	Backfilling activities were completed at TP-1.
1210	AIS field crew stopped for lunch break.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		

1250	Mobilized to TP-2 location.
1300	Excavation activities started at TP-2 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1315	Encountered waste at approximately 2 ft bgs at TP-2. Continued excavation towards the east to delineate the lateral limit of the waste.
1320	Observed the lateral limit of the waste at TP-2. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
1330	Started backfilling the test pit (TP-2) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1350	Backfilling activities were completed at TP-2.
1355	Mobilized to TP-3 location.
1410	Excavation activities started at TP-3 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1420	Encountered waste at approximately 3 ft bgs at TP-3. Continued excavation towards the east to delineate the lateral limit of the waste.
1430	Could not reach the lateral limit of the waste due to proximity to electric utility lines toward the east. Geosyntec field staff contacted Karthik Viswanathan (Geosyntec) and discussed about backfilling the excavated test-pit at TP-3 and starting a new test-pit the following day at 2 ft away from the marked electric lines (towards the east).
1440	Started backfilling the test pit (TP-3) with the excavated materials. The excavated material was returned into the test-pit and compacted to a firm condition.
1510	Backfilling activities were completed at TP-3. AIS to excavate a new test-pit at TP-3 tomorrow.
1515	AIS started moving the field equipment to the parking lot. Drums, plywood panels, and other equipment were secured within the fence panels at the parking lot.
1520	Geosyntec air monitoring staff Eric Garcia departed the site.
1545	Geosyntec field staff Sneha U. departed the site.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Start of excavation at TP-1 location (looking south).



Waste encountered at TP-1. Also indicated is the exposed underground irrigation pipeline (looking southeast).



Lateral limit of waste at TP-1 (looking south)



Backfilling at TP-1(looking northeast)

DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Start of excavation at TP-2 location (looking north).



Waste encountered at TP-2 and the lateral limit of waste (looking northeast).



Backfilling at TP-2; placing the vegetation back (looking northeast).



Start of excavation at TP-3 location (looking southeast).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>September 24, 2020</u>	
WEATHER: <u>Sunny, High 76° Low 64°</u>		



Waste encountered at TP-3 (looking east).



Backfilling at TP-3 (looking southeast).



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya and Eric Garcia arrived on site.
0700	Met with American Integrated Services (AIS) field crew and mobilized the equipment to TP-3 location to resume trenching activities at TP-3. Note that the trenching activities were discontinued at TP-3 on September 24 due to proximity to marked electric utility line.
0710	Plywood panels were placed on the ground to prevent potential rutting of the vegetation from the backhoe tires. Fence panels with wind screens were placed around the excavation area. Plastic tarps were placed for temporarily staging the excavated soil.
0715	Started excavation activities at TP-3 location 2 ft east of the marked electric utility line. Approximately 4 inches of sod and topsoil was removed carefully.
0720	Encountered the electric line at approximately 3.5 ft east of the marked utility line (1.5 ft from the western edge of the trench). Continued trenching from 1.5 ft away from the actual electric line (towards east).
0730	Encountered waste at about 3 ft bgs (dark grey Asphalt concrete debris, no odor). Continued excavation to delineate the lateral limit of the waste.
0810	Trench extended up to the edge of the concrete slab. Waste was observed to extent underneath the concrete slab. Unable to delineate the lateral extent of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
0815	Started backfilling the test pit (TP-3) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
0830	Backfilling activities completed at TP-3.
0840	Mobilized to proposed TP-4 location.
0850	Excavation activities started at TP-4 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
0855	Traces of Asphalt concrete observed at approximately 1.5 ft bgs. Some poorly graded fine sand (SP) was also observed at about 2 ft bgs (likely pipe bedding material).
0900	Encountered irrigation line (2-in. PVC pipe) at approximately 1 ft 8 in bgs. The irrigation pipe was damaged during excavation activities.
0915	Started another test pit 1 ft south of the existing test-pit at TP-4.
0930	Encountered waste at about 3 ft 3 inches bgs at TP-4 (dark grey Asphalt concrete debris, no odor). Continued excavation towards the east to delineate the lateral limit of the waste.
1025	Excavation was discontinued at approximately 3.5 ft away from the concrete slab due to close proximity to the marked utilities lines along the edge of the concrete slab. Unable to delineate the lateral extent of the waste. Geosyntec took field measurements, prepared a log of the test-pit to include the field sketch of the exploratory test-pit wall.
1030	AIS fixed the damaged irrigation pipe.

Printed Name: Sneha Upadhyaya

Signature





DAILY FIELD REPORT

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DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		

1055	Started backfilling at TP-4 with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1140	Backfilling activities were completed at TP-2. AIS stopped for lunch.
1215	AIS returned from lunch.
1220	City of Huntington Beach Park Development Division officials arrived at the site (Chris Slama et al.).
1230	Mobilized to proposed TP-5 location.
1250	Excavation activities started at TP-5 location. The sod and topsoil were carefully removed. Excavation continued through the cover soil [visual classification in general accordance with ASTM D2488: Silty SAND (SM)].
1300	Encountered waste (Asphalt concrete debris) at 1 ft 8 in bgs.
1310	Decayed wood pieces encountered at 4 ft 2 in bgs (mild organic odor).
1330	Excavation activities were continued towards the east. Waste was observed consistently at about 2 ft below the ground surface along the length of the trench.
1400	Excavation activities were continued until the edge of concrete sidewalk was reached (45 ft from the western edge of the trench). Excavation activities were discontinued. Unable to determine the lateral extent of the waste.
1410	Started backfilling the test pit (TP-5) with the excavated materials. The excavated material was backfilled into the test-pit and compacted to a firm condition.
1500	Backfilling activities were completed at the excavated trench at TP-5.
1530	A pothole was excavated at about 35 ft away from the eastern edge of the TP-5 trench (past the sidewalks). Waste was observed at 2 ft bgs.
1540	Backfilled the pothole.
1545	AIS started demobilization activities.
1600	AIS and Geosyntec departed the site.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Resumption of excavation at TP-3 location (looking south).



Electric utility pipe encountered at TP-3 (looking south).



Waste encountered at TP-3, waste continues underneath the concrete slab (looking east)



Backfilling at TP-3 (looking east)



DAILY FIELD REPORT

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DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Start of excavation at TP-4 location (looking northeast).



Damaged irrigation pipe at TP-4 (looking northeast).



DAILY FIELD REPORT

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DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Excavation of second trench adjacent to the first trench at TP-4 (looking southeast).



Waste encountered at TP-4 (looking east).

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
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WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste observed to continue underneath the concrete slab at TP-4 (looking south).



AIS repairing the damaged irrigation pipe at TP-4 (looking northwest).



Start of excavation at TP-5 (looking southeast).



Waste encountered at TP-5 (looking south).



DAILY FIELD REPORT

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DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste materials at TP-5 (looking south).

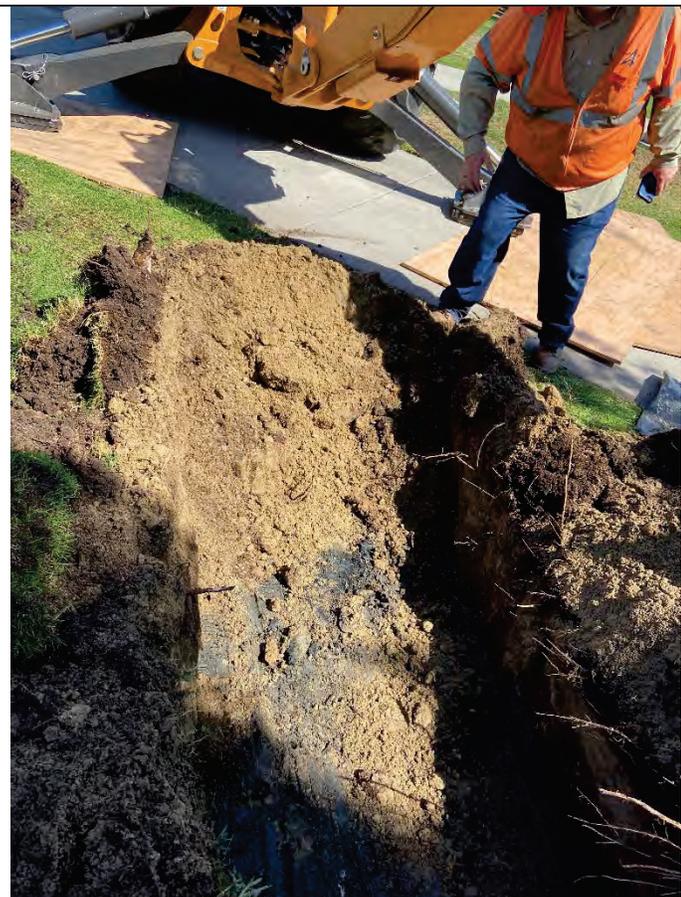


Trench wall face at TP-5 (looking south).

DAILY FIELD REPORT

Report Sequence No.:003

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DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Waste material encountered at TP-5 (looking south).



Pothole 35 ft east of excavated trench at TP-5 and observation of waste (looking west).

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:003

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Trenching and Backfilling</u>	CONTRACTOR: <u>American Integrated Services, Inc.</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>September 25, 2020</u>	
WEATHER: <u>Sunny, High 78° Low 64°</u>		



Backfilling the pothole at TP-5 (looking northwest).



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0655	Geosyntec air monitoring staff Eric Garcia arrived on site.
0705	ABC Liovin Drilling (ABC) arrived on site. Met with ABC crew Julio Gutierrez and Jimmy Candelaria.
0710	Discussed the plan for the day and walked to the first hollow stem auger location (HSA-5) to check the equipment access route.
0715	Conducted a brief safety meeting with ABC. ABC acknowledged the THA.
0730	Mobilized to proposed HSA-5 location.
0750	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil.
0800	Encountered waste at approximately 2.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
0820	Started HSA drilling with CME85 drill rig. Mild organic odor at 8 ft bgs.
0825	Hard drilling observed at approximately 12 ft bgs. Some brick debris observed in the spoil.
0830	Observed wet spoil at approximately 18 ft indicative of reaching the ground water table (GWT). Measured the depth to the GWT to approximately 12 ft bgs.
0845	ABC project manager Bill Borgo on site.
0900	First split spoon sample collected at 30 – 31.5 ft bgs. Sample indicative of the presence of waste (dark gray, wet, with pieces of decayed wood, mild organic odor).
0905	Observed hard drilling (rattling of auger) at approximately 32 ft bgs. Advanced through the hard material at approximately 34 ft bgs.
0920	City of Huntington Beach Park Development Division official Farhad Bolourchi arrived at the site.
0930	Unsuccessful attempt to collect a split spoon sample at 35 to 36.5 ft bgs (no recovery, sample too soft). Second attempt was made to collect sample at 38-39.5 ft bgs, still unsuccessful.
0935	Third attempt was made to collect the sample at 40 to 41.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 40.5 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
0940	HSA drilling terminated at 41.5 ft bgs.
0945	Geosyntec Senior Engineer Yonas Zemuy arrived at the site.
0950	Started backfilling the borehole at HSA-5 with hydrated bentonite chips.
1015	Mr. Bolourchi departed the site.
1025	Mr. Zemuy departed the site.
1030	Completed backfilling the borehole at HSA-5. The upper 6 inches were covered with top soil and vegetation. Mr. Borgo departed the site.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

1035	Mobilized to proposed HSA-4 location.
1050	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-4.
1055	Encountered waste at approximately 2 ft bgs (dark gray asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1105	Started HSA drilling with CME85 drill rig.
1110	Encountered GWT; the depth to GWT was measured to be approximately 8 ft bgs.
1115	Hard drilling (rattling and rumbling of auger) observed starting at approximately 16 ft bgs.
1130	Hard drilling continues at approximately 25 ft bgs. Auger tilting observed. Little to no spoil observed starting at this depth.
1140	Damage to the wire connecting the sampling barrel assembly to the lead auger.
1150	ABC repaired the wire damage and continued drilling.
1200	Hard drilling continues at 30 ft bgs, little to no spoil observed at the ground surface.
1215	Continued attempt to drill past 30 ft bgs. Very slow advancement of the auger.
1235	At 34 ft bgs, auger tilting observed. Unable to drill past 34 ft.
1240	Terminated boring at 34 ft bgs.
1245	Retrieved the auger. The lead auger was plugged with wood. The wood had mild organic odor.
1300	Started backfilling the borehole at HSA-4 with hydrated bentonite chips.
1335	Completed backfilling the borehole at HSA-4. The upper 6 inches were covered with top soil and vegetation.
1345	Mobilized to HSA-3.
1355	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-3.
1405	Encountered waste at approximately 2.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1415	Started HSA drilling with CME85 drill rig.
1420	Encountered GWT; the depth to GWT was measured to be approximately 11 ft bgs.
1430	First split spoon sample collected at 15 – 16.5 ft bgs. Observed material with a different texture than the overlying waste material (Visual classification: Sandy CLAY, dark gray, wet, medium to high plasticity, no odor), likely an interim soil cover layer.
1440	Second split spoon sample collected at 20 to 21.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 20.5 ft bgs. Native soil was visually classified as Poorly graded SAND with silt (SP-SM) in general accordance with ASTM D2488.
1445	Terminated boring HSA-3 at 21.5 ft bgs.
1450	Started backfilling the borehole at HSA-3 with hydrated bentonite chips.
1510	Completed backfilling the borehole at HSA-3. The upper 6 inches were covered with top soil and vegetation.

Printed Name: Sneha Upadhyaya

Signature



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		

1515	Mobilized to proposed HSA-2 location.
1530	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-2.
1535	Encountered waste at approximately 2.7 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1540	Started HSA drilling at HSA-2 with CME85 drill rig.
1545	Split spoon sample collected at 15 – 16.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 15.5 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
1550	Terminated boring HSA-2 at 16.5 ft bgs. Started backfilling at HSA-2.
1600	Completed backfilling HSA-2.
1615	Mobilized to HSA-1.
1620	ABC carefully removed the top soil and vegetation. Hand augered the top 5 ft of soil at HSA-1.
1630	Encountered waste at approximately 3.5 ft bgs (dark gray Asphalt concrete debris, no odor). Continued hand augering. The soil cuttings were placed in 55-gallon drums.
1640	Started HSA drilling at HSA-1 with CME85 drill rig.
1645	Split spoon sample collected at 10 – 11.5 ft bgs. The sample indicated the end of waste and beginning of native soil at approximately 10.3 ft bgs. Native soil was visually classified as Silty SAND (SM) in general accordance with ASTM D2488.
1650	Depth to GWT measured to be at approximately 10.5 ft bgs.
1655	Terminated boring HSA-1 at 11.5 ft bgs.
1700	Started backfilling at HSA-1.
1710	Completed backfilling at HSA-1.
1715	Geosyntec air monitoring staff Eric G. departed the site.
1720	ABC crew Julio G. departed the site.
1730	ABC crew Jimmy C. helped store the drums at the backyard of Edison Park Community Center, pending analysis and disposal.
1740	ABC crew Jimmy departed the site.
1745	Geosyntec field staff Sneha Upadhyaya departed the site

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Removal of top soil and vegetation at HSA-5 (looking northeast).



Waste encountered at HSA-5 (looking northwest).



Piece of wood

First split spoon sample collected at 30 – 31.5 ft bgs at HSA-5. Sample indicates of the presence of waste.



Split spoon sample collected at 40 – 41.5 ft bgs at HSA-5. The interface between the waste and native soil is indicated.



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Backfilling the borehole at HSA-5 (looking northeast).



Waste encountered at HSA-4 (looking northwest).

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Damage to the wire connecting the sampling barrel assembly to the lead auger at HSA-4; ABC fixing the wire (looking west).



Tilting of auger at HSA-4 (looking west).

Printed Name: Sneha Upadhyaya

Signature

Sneha



DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Spoil (wood debris) retrieved from the auger at HSA-4.



Wood plugged in the lead auger at HSA-4.

Printed Name: Sneha Upadhyaya

Signature

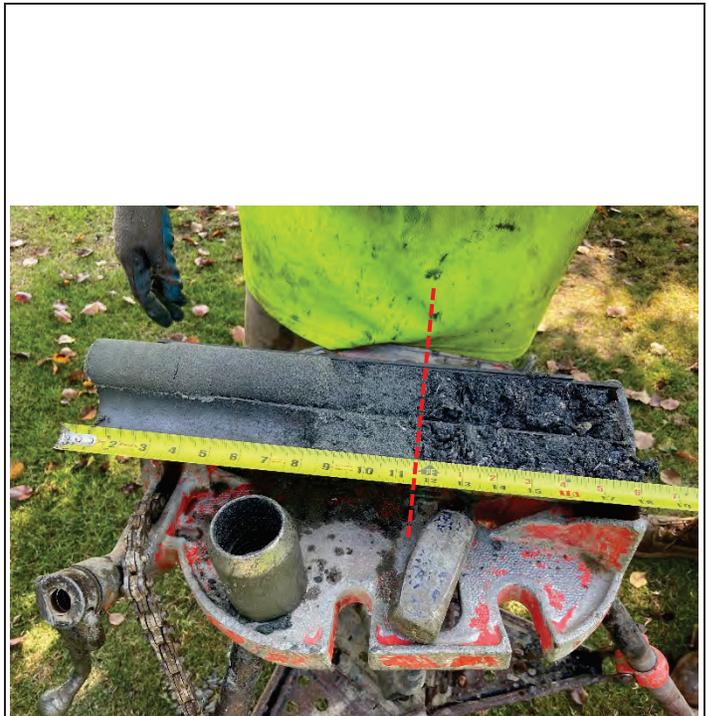
DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Waste observed in the soil cuttings at HSA-3 (looking northeast).



Split spoon sample collected at 20 to 21.5 ft bgs at HSA-3. The interface between the waste and native soil is indicated.

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:004

PROJECT: <u>Edison Park Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685A</u>	TASK NO.: <u>02</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Monday</u>	DATE: <u>September 28, 2020</u>	
WEATHER: <u>Sunny, High 82° Low 64°</u>		



Waste material observed in the spoil at HSA-2 (looking northeast).



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-2. The interface between the waste and native soil is indicated.



Waste material observed at HSA-1 (looking northwest).



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-1. The interface between the waste and native soil is indicated.



DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>March 11, 2021</u>	
WEATHER: <u>Sunny, High 64° Low 55°</u>		

Time	Field Work Activities
0700	Arrived on site and met with GEOVision field crew J. Weiss and J. Foster.
0705	Held a brief tailgate safety meeting. GEOVision crew acknowledged the THA.
0710	Performed a site walk with GEOVision crew to observe the proposed investigation locations (HSA-1A through HSA-8A).
0720	GEOVision started utility clearance survey at proposed location of HSA-1A using the RD 8000 electromagnetic utility locator, Fisher TW-6 deep search pipe locator/metal detector, 60 HDZ, SIR3000 Ground Penetrating Radar, and walk in tandem. No conflicts were found at HSA-1A.
0730	GEOVision performed utility clearance survey at proposed location of HSA-2A boring. No conflicts were found at HSA-2A location.
0745	GEOVision performed utility clearance survey at location of HSA-3A. Unknown anomalies were detected at the location of HSA-3A. GEOVision marked a new HSA-3A location 3 ft west of the existing location.
0800	GEOVision performed utility clearance survey at proposed location of HSA-4A boring. High voltage electrical lines and other unknown anomalies were detected within 5 ft of HSA-4A location. GEOVision marked a new HSA-4A location 3 ft north of the existing location.
0815	GEOVision performed utility clearance survey at proposed location of HSA-5A. Electrical lines were detected conflicting with the proposed HSA-5A location. GEOVision marked a new HSA-5A location 5.5 ft west of the existing location.
0825	GEOVision performed utility clearance survey at proposed location of HSA-6A. Some anomalies were detected within 5 ft of the HSA-6A location. GEOVision marked a new location 1.5 ft north of the existing location.
0840	GEOVision performed utility clearance survey at proposed location of HSA-7A. No conflicts were found at HSA-7A location.
0850	GEOVision performed utility clearance survey at HSA-8A location. Unknown utilities were detected conflicting with the HSA-8A location. GEOVision marked a new location 2.5 ft south of the existing location
0915	Geosyntec and GEOVision departed the site for the day.

DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>March 11, 2021</u>	
WEATHER: <u>Sunny, High 64° Low 55°</u>		



Location HSA-1A cleared of utilities (looking north)



Location HSA-2A cleared of utilities (looking north)



Marked anomalies at HSA-3A and the new HSA-3A location (looking north)



Marked utilities at HSA-4A and the new HSA-4A location (looking north)

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:001

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Geophysical Survey for Locating Utilities</u>	CONTRACTOR: <u>GEOVision, Inc.,</u>	
DAY OF WEEK: <u>Thursday</u>	DATE: <u>March 11, 2021</u>	
WEATHER: <u>Sunny, High 64° Low 55°</u>		



Electrical utility markings at existing HSA-5A and the new HSA-5A location (looking north)



Marked anomalies at HSA-6A and the new HSA-6A location (looking north)



Location HSA-7A cleared of utilities (looking north)



Marked anomalies at HSA-8 and the new HSA-8A location (looking north)

Printed Name: Sneha Upadhyaya

Signature

DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

Time	Field Work Activities
0650	Geosyntec field staff Sneha Upadhyaya arrived on site.
0705	ABC Liovin Drilling (ABC) arrived on site. Met with ABC crew N. De La Torres and C. Villicana.
0715	Conducted a brief safety meeting with ABC. ABC acknowledged the THA. Discussed the scope of work and plan for the day.
0720	Mobilized to proposed HSA-7A location.
0750	ABC started drilling through the concrete at HSA-7A. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
0810	Started HSA drilling with CME85 drill rig.
0825	Split spoon sample collected at 10 – 11.5 ft bgs.
0830	Encountered GWT; the depth to GWT was measured to be approximately 13.5 ft bgs.
0835	Terminated boring HSA-7A at approximately 18 ft bgs.
0850	Backfilled the borehole at HSA-7A with hydrated bentonite chips and patched the surface with rapid setting concrete.
0900	Bill Borgo from ABC arrived at the site.
0915	Mobilized to proposed HSA-8A location.
0920	Bill Borgo departed the site.
0925	ABC started drilling through the concrete and noticed 2 distinct layers of concrete. ABC informed that this could be indicative of potential utilities underneath the concrete slab and this decided to move the drilling location approximately 5 ft south of the originally proposed HSA-8A location.
0950	ABC started drilling through the concrete at the new HSA-8A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1015	Started HSA drilling at HSA-8A with CME85 drill rig.
1020	First split spoon sample collected at 10 – 11.5 ft bgs.
1025	Encountered GWT; the depth to GWT was measured to be approximately 12.5 ft bgs.
1030	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1035	Terminated boring HSA-8A at 16.5 ft bgs.
1100	Backfilled the borehole at HSA-8A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1115	Mobilized to HSA-3A.
1120	ABC started drilling through the concrete at the HSA-3A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1145	Started HSA drilling at HSA-3A with CME85 drill rig.
1200	First split spoon sample collected at 10 – 11.5 ft bgs.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature




DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

1210	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1215	Encountered GWT; the depth to GWT was measured to be approximately 15 ft bgs.
1220	Terminated boring HSA-3A at 16.5 ft bgs.
1240	Backfilled the borehole at HSA-3A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1250	Mobilized to HSA-2A.
1305	ABC started drilling through the concrete at the HSA-2A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1325	Started HSA drilling at HSA-2A with CME85 drill rig.
1340	First split spoon sample collected at 10 – 11.5 ft bgs.
1345	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1350	Terminated boring HSA-2A at 16.5 ft bgs. No groundwater was encountered at this location.
1410	Backfilled the borehole at HSA-2A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1420	Mobilized to HSA-4A.
1430	ABC started drilling through the concrete at the HSA-4A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1450	Started HSA drilling at HSA-4A with CME85 drill rig.
15:15	First split spoon sample collected at 10 – 11.5 ft bgs.
15:20	Encountered GWT; the depth to GWT was measured to be approximately 14.1 ft bgs.
15:25	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1530	Terminated boring HSA-4A at 16.5 ft bgs.
1545	Backfilled the borehole at HSA-4A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1555	Mobilized to HSA-5A.
1600	ABC started drilling through the concrete at the HSA-5A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1625	Started HSA drilling at HSA-4A with CME85 drill rig.
1630	K. Viswanathan (Geosyntec) arrived on-site.
1645	First split spoon sample collected at 10 – 11.5 ft bgs.
1650	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1655	Encountered GWT; the depth to GWT was measured to be approximately 16.6 ft bgs.
1700	Terminated boring HSA-5A at 17 ft bgs.
1710	Mobilized to HSA-6A.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature






DAILY FIELD REPORT

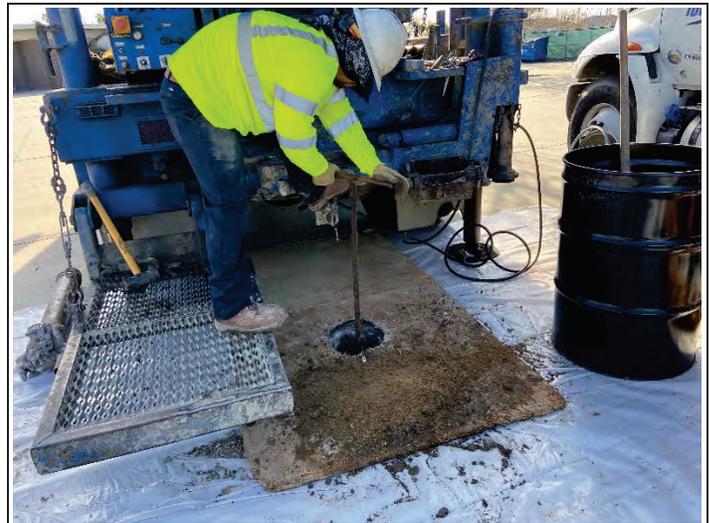
Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		

1715	Backfilled the borehole at HSA-5A with hydrated bentonite chips and patched the surface with rapid setting concrete. ABC started drilling through the concrete at the HSA-6A location. Hand augered the top 5 ft of soil. The soil cuttings were placed in 55-gallon drums.
1720	S. Upadhyaya (Geosyntec) departed the site.
1730	Started HSA drilling at HSA-3A with CME85 drill rig.
1735	First split spoon sample collected at 10 – 11.5 ft bgs.
1745	A second split spoon sample was collected at 15 – 16.5 ft bgs.
1800	Terminated boring HSA-6A at 16.5 ft bgs. No groundwater was encountered at this location.
1805	Backfilled the borehole at HSA-5A with hydrated bentonite chips and patched the surface with rapid setting concrete.
1830	ABC moved the 55-gallon drums (7 drums) within the fenced construction area south of the investigation area.
1845	Geosyntec and ABC personnel departed the site.



Drilling through concrete slab at HSA-7A (looking southeast)



Hand augering at HSA-7A (looking east)

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Change in material observed in the drill cuttings at HSA-7A (looking east)



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-7A.



Backfilling the borehole at HSA-7A with hydrated bentonite chips (looking southeast)



Surface patching with rapid set concrete at HSA-7A (looking southwest)

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature

Sneha

Karthik



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Change in material observed in the drill cuttings at HSA-8A at approximately 2.5 ft bgs



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-8A.



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-3A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-3A.



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>		CONTRACTOR: <u>ABC Liovin Drilling</u>
DAY OF WEEK: <u>Friday</u>		DATE: <u>March 12, 2021</u>
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-2A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-2A.



Wood debris observed in the drill cuttings at HSA-4A



Brick pieces observed in the drill cuttings at HSA-4A

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>	CONTRACTOR: <u>ABC Liovin Drilling</u>	
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-4A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-4A.



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-5A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-5A.

Printed Name: Sneha Upadhyaya and Karthik Viswanathan

Signature



DAILY FIELD REPORT

Report Sequence No.:002

PROJECT: <u>Edison Park Additional Waste Delineation</u>		
LOCATION: <u>Huntington Beach, California</u>	PROJECT NO.: <u>HL1685B</u>	TASK NO.: <u>01</u>
DESCRIPTION: <u>Hollow-Stem Auger (HSA) drilling</u>		CONTRACTOR: <u>ABC Liovin Drilling</u>
DAY OF WEEK: <u>Friday</u>	DATE: <u>March 12, 2021</u>	
WEATHER: <u>Sunny, High 68° Low 52°</u>		



Split spoon sample collected at 10 – 11.5 ft bgs at HSA-6A.



Split spoon sample collected at 15 – 16.5 ft bgs at HSA-6A.

Appendix F

Air Monitoring Logs

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/24/2020

Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}	Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}
8:00	65	3.5	W	14:00	77	2.4	NW
8:20	65	5.1	W	14:15	77	2.7	NW
8:35	66	3.6	W	14:30	77	5.8	NW
8:50	66	1.8	W	14:45	77	5.4	NW
9:00	66	1.7	NW	15:00	77	4	NW
9:15	66	1.9	NW				
9:30	67	0.8	E				
9:45	67	1.3	E				
10:00	69	1.6	E				
10:15	70	2.4	NW				
10:30	70	2.4	W				
10:45	71	3.1	W				
11:00	72	3.9	NW				
11:15	72	4.1	NW				
11:30	74	3.5	NW				
11:45	74	5.3	NW				
12:00	74	3.1	NW				
12:15	74	3.4	W				
12:30	73	3	W				
12:45	73	2.8	W				
13:00	74	4.4	NW				
13:15	76	2.8	NW				
13:30	77	1.9	NW				
13:45	78	1.5	NW				

1 - Pacific Daylight Time (PDT)

2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static

3 - Wind Direction from KCAHUNT143 weather station

4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/25/2020

Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}	Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}
7:15	65	2	NW	13:15	77	6.4	N
7:30	65	0.9	NW	13:30	76	5.4	N
7:45	66	2.1	W	13:45	76	5.1	NW
8:00	67	2.7	SW	14:00	75	4.8	NW
8:15	67	0.9	NW	14:15	75	6.7	NE
8:30	67	1.4	NW	14:30	74	6.1	NE
8:45	67	2.3	NW	14:45	74	5.4	NE
9:00	68	3.1	NW	15:00	74	4.5	NE
9:15	68	1.5	SW	15:15	74	4.8	NE
9:30	69	2.6	NW	15:30	74	5.1	N
9:45	69	2.1	NW				
10:00	70	3.5	NW				
10:15	72	3.6	NW				
10:30	72	2.6	NW				
10:45	72	3.4	NW				
11:00	72	2.7	SW				
11:15	72	2.1	W				
11:30	74	2.5	NW				
11:45	75	3.9	NW				
12:00	75	3	NW				
12:15	75	3.8	NW				
12:30	76	3.5	NW				
12:45	76	6	NW				
13:00	76	5.2	N				

1 - Pacific Daylight Time (PDT)

2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static

3 - Wind Direction from KCAHUNT143 weather station

4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Local Weather Monitoring Log - 09/28/2020

Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}	Time ^{1,4}	Ambient Temp ^{2,4}	Wind Speed ^{2,4}	Wind Direction ^{3,4}
7:45	66	1	E	13:45	81	5.7	NE
8:00	66	1.2	E	14:00	81	5.1	NE
8:15	66	1.3	E	14:15	81	9	NE
8:30	68	1.7	NE	14:30	80	7.7	NE
8:45	70	1.9	NW	14:45	79	7.5	NE
9:00	70	2.2	NW	15:00	79	8.9	NE
9:15	70	2.5	W	15:15	78	3.3	NE
9:30	72	1.4	W	15:30	77	4.4	NE
9:45	72	2.5	SW	15:45	77	9.2	NE
10:00	72	1.2	SW	16:00	76	5.4	NE
10:15	73	1.8	SW	16:15	76	8	NE
10:30	73	2.1	SW	16:30	76	7.9	NE
10:45	73	2.5	NE	16:45	76	7.4	NE
11:00	74	4.2	NE	17:00	75	5.4	NE
11:15	75	3.8	NE				
11:30	75	3.4	NE				
11:45	75	3	NE				
12:00	78	5.5	NE				
12:15	78	4.8	NE				
12:30	81	6.5	NE				
12:45	81	5.4	NE				
13:00	81	5.2	NE				
13:15	81	4.4	NE				
13:30	81	5.2	NE				

1 - Pacific Daylight Time (PDT)

2 - Ambient Temperature (°F), and Wind Speed (miles/hour) - measured using Kestrel 4000 and from KCAHUNT143 weather static

3 - Wind Direction from KCAHUNT143 weather station

4 - Collect Readings Every 15 Minutes

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Particulate Matter (PM) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (mg/m ³) ⁴	Comments
24-Sep-20	8:00	TP-1	FA02926	EG	0.113	Background
24-Sep-20	8:05	UW	FA02926	EG	0.089	
24-Sep-20	8:12	DW	FA02926	EG	0.093	
24-Sep-20	9:00	UW	FA02926	EG	0.055	
24-Sep-20	9:10	DW	FA02926	EG	0.075	
24-Sep-20	10:00	UW	FA02926	EG	0.061	
24-Sep-20	10:10	DW	FA02926	EG	0.059	
24-Sep-20	11:00	UW	FA02926	EG	0.023	
24-Sep-20	11:05	DW	FA02926	EG	0.062	
24-Sep-20	11:15					Stop excavating
24-Sep-20	13:10	DW	FA02926	EG	0.036	
24-Sep-20	13:20	UW	FA02926	EG	0.037	Stop excavating mob to TP-3
24-Sep-20	14:20	DW	FA02926	EG	0.027	
24-Sep-20	14:25	UW	FA02926	EG	0.022	Stop excavating
25-Sep-20	7:15	TP-3	FA02926	EG	0.059	Background
25-Sep-20	7:21	UW	FA02926	EG	0.039	
25-Sep-20	7:26	DW	FA02926	EG	0.041	
25-Sep-20	8:15					Stop excavation at TP-2
25-Sep-20	8:53					Start excavation at TP-4
25-Sep-20	8:58	DW	FA02926	EG	0.043	
25-Sep-20	9:03	UW	FA02926	EG	0.041	
25-Sep-20	9:58	DW	FA02926	EG	0.053	
25-Sep-20	10:05	UW	FA02926	EG	0.047	
25-Sep-20	11:08	DW	FA02926	EG	0.048	
25-Sep-20	11:18	UW	FA02926	EG	0.035	Start backfilling at TP-4
25-Sep-20	12:50					Start excavating TP-5
25-Sep-20	12:55	DW	FA02926	EG	0.039	
25-Sep-20	13:00	UW	FA02926	EG	0.045	
25-Sep-20	14:05	DW	FA02926	EG	0.037	
25-Sep-20	14:15	UW	FA02926	EG	0.058	
25-Sep-20	15:10	DW	FA02926	EG	0.041	
25-Sep-20	15:20	UW	FA02926	EG	0.049	
28-Sep-20	7:45	DW	FA02926	EG	0.081	Background
28-Sep-20	7:50	UW	FA02926	EG	0.088	
28-Sep-20	8:00	DW	FA02926	EG	0.095	
28-Sep-20	8:08	UW	FA02926	EG	0.097	
28-Sep-20	9:05	DW	FA02926	EG	0.076	
28-Sep-20	9:10	UW	FA02926	EG	0.09	

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Particulate Matter (PM) Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading (mg/m ³) ⁴	Comments
28-Sep-20	9:35					Stop boring at HSA5
28-Sep-20	10:55					Start boring at HSA4
28-Sep-20	11:00	DW	FA02926	EG	0.099	
28-Sep-20	11:05	UW	FA02926	EG	0.097	
28-Sep-20	12:00	DW	FA02926	EG	0.088	
28-Sep-20	12:08	UW	FA02926	EG	0.092	
28-Sep-20	13:05					Stop boring at HSA4
28-Sep-20	14:15	DW	FA02926	EG	0.059	
28-Sep-20	14:25	UW	FA02926	EG	0.078	
28-Sep-20	15:20	UW	FA02926	EG	0.058	
28-Sep-20	15:30	DW	FA02926	EG	0.065	
28-Sep-20	15:45					Stop boring at HSA2
28-Sep-20	16:45	DW	FA02926	EG	0.078	
28-Sep-20	16:50	UW	FA02926	EG	0.052	

Notes:

- 1 - Pacific Daylight Time (PDT)
- 2 - Upwind or Downwind (perimeter)
- 3 - DustTRAK DRX Handheld Aerosol
- 4 - Recorded every 60 minutes, when soil handling or excavation is in progress

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Total Organic Compounds T C Monitoring Log

Date	Time ¹	Location ²	E uipment D ³	E uipment perator	eading ppm ⁴	Comments
24- e -20	8:00	TP-1	A02533	E	0	
24- e -20	8:12	DW	A02533	E	0	
24- e -20	8:20	TP-1	A02533	E	0	
24- e -20	8:28	DW	A02533	E	0	
24- e -20	8:35	TP-1	A02533	E	0	
24- e -20	8:40	DW	A02533	E	0	
24- e -20	8:47	TP-1	A02533	E	0	
24- e -20	8:55	DW	A02533	E	0	
24- e -20	9:00	TP-1	A02533	E	0	
24- e -20	9:10	DW			0	
24- e -20	9:15	TP-1	A02533	E	0	
24- e -20	9:20	DW	A02533	E	0	
24- e -20	9:30	TP-1	A02533	E	0	
24- e -20	9:35	DW	A02533	E	0	
24- e -20	9:45	TP-1	A02533	E	0	
24- e -20	9:55	DW	A02533	E	0.2	
24- e -20	10:00	TP-1	A02533	E	0.1	
24- e -20	10:10	DW	A02533	E	0	
24- e -20	10:15	TP-1	A02533	E	0.1	
24- e -20	10:30	DW	A02533	E	0.1	
24- e -20	10:35	TP-1	A02533	E	0.1	
24- e -20	10:45	DW	A02533	E	0.1	
24- e -20	10:50	TP-1	A02533	E	0.1	
24- e -20	11:05	DW	A02533	E	0.1	
24- e -20	11:15	TP-1	A02533	E	0.1	
24- e -20	11:25	DW	A02533	E	0.1	
24- e -20	11:30	TP-1	A02533	E	0.1	
24- e -20	11:40	DW	A02533	E	0.1	
24- e -20	11:45	TP-1	A02533	E	0.1	
24- e -20	11:50					to e cavation
24- e -20	13:05	TP-2	A02533	E	0	
24- e -20	13:10	DW	A02533	E	0	
24- e -20	13:20	TP-2	A02533	E	0	
24- e -20	13:30	DW	A02533	E	0	
24- e -20	13:35	TP-2	A02533	E	0	
24- e -20	13:45	DW	A02533	E	0.1	

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Total Organic Compounds T C Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading ppm ⁴	Comments
24- e -20	13:50	TP-2	A02533	E	0.1	to e cavation mo to TP-3
24- e -20	14:15	TP-3	A02533	E	0.1	
24- e -20	14:20	DW	A02533	E	0.1	
24- e -20	14:30	TP-3	A02533	E	0.1	
24- e -20	14:40	DW	A02533	E	0.1	
24- e -20	14:45	TP-3	A02533	E	0.1	
24- e -20	14:55	DW	A02533	E	0	
24- e -20	15:00	TP-3	A02533	E	0.1	to e cavation at TP-3
25- e -20	7:15	TP-3	A02533	E	0.1	start e cavation at TP-3
25- e -20	7:26	DW	A02533	E	0.1	
25- e -20	7:30	TP-3	A02533	E	0.2	
25- e -20	7:35	DW	A02533	E	0.3	
25- e -20	7:45	TP-3	A02533	E	0.1	
25- e -20	7:50	DW	A02533	E	0.2	
25- e -20	8:00	TP-3	A02533	E	0.1	
25- e -20	8:10	DW	A02533	E	0.1	
25- e -20	8:15	TP-3	A02533	E	0.1	to e cavation at TP-3. Mo to TP-4
25- e -20	8:53	TP-4	A02533	E	0.2	
25- e -20	8:58	DW	A02533	E	0.2	
25- e -20	9:10	TP-4	A02533	E	0.2	
25- e -20	9:15	DW	A02533	E	0.1	
25- e -20	9:25	TP-4	A02533	E	0.2	
25- e -20	9:30	DW	A02533	E	0.1	
25- e -20	9:40	TP-4	A02533	E	0.2	
25- e -20	9:45	DW	A02533	E	0.2	
25- e -20	9:55	TP-4	A02533	E	0.2	
25- e -20	10:00	DW	A02533	E	0.1	
25- e -20	10:15	TP-4	A02533	E	0.1	
25- e -20	10:20	DW	A02533	E	0.1	
25- e -20	10:30	TP-4	A02533	E	0.1	to e cavation at TP-4 and egin ac filling
25- e -20	10:55	TP-4	A02533	E	0.1	
25- e -20	11:00	DW	A02533	E	0.1	
25- e -20	11:05	TP-4	A02533	E	0.1	
25- e -20	11:15	DW	A02533	E	0.1	
25- e -20	12:50	TP-4	A02533	E	0.1	
25- e -20	12:55	DW	A02533	E	0.1	inished ac filling TP-4

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Total Organic Compounds T C Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading ppm ⁴	Comments
25- e -20	13:05	TP-5	A02533	E	0.1	start excavation at TP-5
25- e -20	13:10	DW	A02533	E	0.1	
25- e -20	13:20	TP-5	A02533	E	0.2	
25- e -20	13:30	DW	A02533	E	0.1	
25- e -20	13:35	TP-5	A02533	E	0.2	
25- e -20	13:50	DW	A02533	E	0.1	
25- e -20	13:55	TP-5	A02533	E	0.2	
25- e -20	14:05	DW	A02533	E	0.1	
25- e -20	14:10	TP-5	A02533	E	0.2	begin back filling at TP-5
25- e -20	14:25	DW	A02533	E	0.1	
25- e -20	14:40	TP-5	A02533	E	0.1	
25- e -20	15:15	TP-5	A02533	E	0.1	Excavate small trench
25- e -20	15:25	DW	A02533	E	0.1	
25- e -20	15:30	TP-5	A02533	E	0.1	back fill done
28- e -20	7:45	DW	A02533	E	0.1	
28- e -20	7:55	H A5	A02533	E	0.1	
28- e -20	8:00	DW	A02533	E	0.2	
28- e -20	8:10	H A5	A02533	E	0.2	
28- e -20	8:15	DW	A02533	E	0.2	
28- e -20	8:25	H A5	A02533	E	0.4	
28- e -20	8:30	DW	A02533	E	0.2	
28- e -20	8:40	H A5	A02533	E	0.4	
28- e -20	8:50	DW	A02533	E	0.2	
28- e -20	8:55	H A5	A02533	E	0.3	
28- e -20	9:05	DW	A02533	E	0.2	
28- e -20	9:15	H A5	A02533	E	0.3	
28- e -20	9:20	DW	A02533	E	0.1	tooring H A5
28- e -20	9:30	H A5	A02533	E	0.3	start tooring H A4
28- e -20	9:35	DW	A02533	E	0.1	
28- e -20	10:55	H A4	A02533	E	0.1	
28- e -20	11:00	DW	A02533	E	0.2	
28- e -20	11:10	H A4	A02533	E	0.2	
28- e -20	11:15	DW	A02533	E	0.2	
28- e -20	11:20	H A4	A02533	E	0.3	
28- e -20	11:35	DW	A02533	E	0.2	
28- e -20	11:45	H A4	A02533	E	0.3	

Edison Park Waste Delineation Project
Edison Park
21379 Magnolia Street, Huntington Beach, CA 92647

Daily Total Organic Compounds T C Monitoring Log

Date	Time ¹	Location ²	Equipment ID ³	Equipment Operator	Reading ppm ⁴	Comments
28- e -20	11:50	DW	A02533	E	0.5	
28- e -20	12:00	H A4	A02533	E	0.3	
28- e -20	12:05	DW	A02533	E	0.2	
28- e -20	12:15	H A4	A02533	E	0.3	
28- e -20	12:20	DW	A02533	E	0.2	
28- e -20	12:30	H A4	A02533	E	0.3	
28- e -20	12:35	DW	A02533	E	0.2	
28- e -20	12:45	H A4	A02533	E	0.3	
28- e -20	12:50	DW	A02533	E	0.2	
28- e -20	13:00	H A4	A02533	E	0.3	
28- e -20	14:20	H A3	A02533	E	0.1	
28- e -20	14:25	DW	A02533	E	0.1	
28- e -20	14:35	H A3	A02533	E	0.3	
28- e -20	14:40	DW	A02533	E	0.1	
28- e -20	14:50	H A3	A02533	E	0.3	
28- e -20	14:55	DW	A02533	E	0.1	
28- e -20	14:58					begin ac filling at H A3
28- e -20	15:20					begin boring at H A2
28- e -20	15:25	H A2	A02533	E	0.3	
28- e -20	15:35	DW	A02533	E	0.1	
28- e -20	15:40	H A2	A02533	E	0.3	
28- e -20	15:45					to boring at H A2 and ac fill
28- e -20	16:30					begin boring at H A1
28- e -20	16:35	H A1	A02533	E	0.4	
28- e -20	16:45	DW	A02533	E	0.1	to boring at H A1

Notes:

- 1 - Pacific Daylight Time (PDT)
- 2 - E cavation face or Perimeter (downwind)
- 3 - P D Monitor Rae
- 4 - 15 seconds sustained readings recorded every 15 minutes