

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Modera Slabtown
1417 NW 20th Avenue (Block 290)
Portland, Oregon

For
Mill Creek Residential Trust
April 23, 2019

GeoDesign Project: MillCreek-15-02

April 23, 2019

Mill Creek Residential Trust
220 NW 2nd Avenue
Portland, OR 97209

Attention: Sam Rodriguez

Phase II Environmental Site Assessment

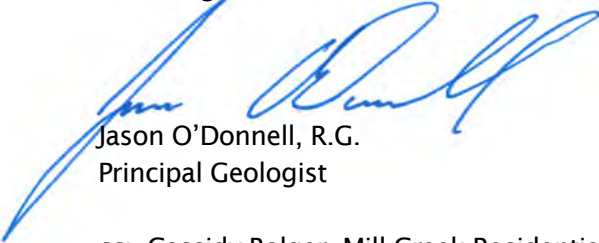
Modera Slabtown
1417 NW 20th Avenue (Block 290)
Portland, Oregon
GeoDesign Project: MillCreek-15-02

GeoDesign, Inc. is pleased to submit this report summarizing the results of a Phase II ESA conducted at the Modera Slabtown site located at 1417 NW 20th Avenue (Block 290) in Portland, Oregon. Our services were performed in accordance with our proposal dated December 21, 2018.

We appreciate the opportunity to be of service to Mill Creek Residential Trust. Please contact us if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.



Jason O'Donnell, R.G.
Principal Geologist

cc: Cassidy Bolger, Mill Creek Residential Trust (via email only)

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Attachments

One copy submitted (via email only)

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ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
BEI	Blymyer Engineers, Inc.
BGS	below ground surface
BS	blank spike
BSD	blank spike duplicate
CFSL	Clean Fill Screening Level
CMMMP	Contaminated Media Management Plan
CREC	controlled recognized environmental condition
DEQ	Oregon Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
HREC	historical recognized environmental condition
ICP-MS	inductively coupled plasma mass spectrometry
I.D.	identification
IDW	investigation-derived waste
KEI	Kane Environmental, Inc.
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
NE	not established
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PID	photoionization detector
ppm	parts per million
QC	quality control
RBC	risk-based concentration
RBDM	<i>Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites</i>
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
RPD	relative percent difference
TCA	trichloroethane
TCE	trichloroethene
TMB	trimethylbenzene
UCL	upper confidence limit
UST	underground storage tank
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the results of a Phase II ESA conducted at the Modera Slabtown site located at 1417 NW 20th Avenue (Block 290) in Portland, Oregon (project site). The 2.43-acre project site includes Tax Lot 101 of Multnomah County Tax Map 1N1E33BA and is occupied by the former Consolidated Freightways truck maintenance building and associated paved parking areas.

It is our understanding that redevelopment will include demolition of the existing former Consolidated Freightways truck maintenance building and construction of a new building and public plaza on the west portion of the project site. The proposed redevelopment will consist of a seven-story, mixed-use structure with one level of underground parking. The ground floor level will consist of retail space, a lobby and amenities, and live-work spaces. Apartments will be located on the upper levels. The east portion of the project site will become a public park and is not part of the Modera Slabtown development.

The project site is shown relative to surrounding physical features on Figure 1. The project site layout is shown on Figures 2 and 3. Acronyms and abbreviations used herein are defined above, immediately following the Table of Contents.

2.0 BACKGROUND

The project site was initially developed with residential structures and a church by 1901. Sometime between 1944 and 1950 most of the residential structures and the church were removed and the project site was redeveloped with the Consolidated Auto Truck Service and Parking facility. These facilities included various buildings, including a truck shop, offices, a truck-greasing building, and truck scales. Between 1955 and 1970 an office building/dry ice storage facility was located on the southeastern portion of the project site. In 1967 the structures were removed and the existing truck maintenance facility was subsequently constructed. Since at least 1999 the project site has remained vacant, with the exception of a brief period that it was used for car storage.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Several Phase I ESAs, subsurface environmental investigations, and hazardous building material surveys have been conducted at the project site. The results of the previously completed work have been reported under separate cover and are summarized in the Phase I ESA report prepared by GeoDesign dated February 13, 2019. The February 13, 2019 Phase I ESA identified the following environmental concerns:

- The project site has been used as a truck maintenance facility from at least 1950 to sometime prior to 1999 and is currently occupied by the former Consolidated Freightways truck maintenance facility and asphalt-paved areas. Former facilities included a truck shop; offices; a truck-greasing building; truck scales; lube pits; wash-down areas; engine repair; and numerous USTs, ASTs, and drums. The historical use of the project site was identified as a REC.

- DEQ records and building blueprints indicate that at least 14 USTs may have been installed at the project site. However, at least 11 USTs have been documented as removed or likely removed; therefore, it is possible that 3 USTs (identified as UST Nos. 3, 4, and 5 on Figure 2) could still be present beneath the project site. Although it is possible that these USTs were removed during construction of the current building basement, documentation was not discovered confirming their removal. Therefore, the possible presence of these three USTs was identified as a REC.
- Residual petroleum-impacted soil is present at the project site in the following areas: (1) in the vicinity of the former waste oil UST (identified as UST No. 6 on Figure 2) that was decommissioned by removal (former LUST File No. 26-89-0305 – closed in 2012); (2) in the vicinity of the UST nest located south of the east garage (identified as UST Nos. 7 through 14 on Figure 2) that were decommissioned by removal (former LUST File No. 26-95-0308 – closed in 1996); and (3) beneath the building ramp located at the east end of the project site structure (Figure 2). The residual soil contamination and LUST files were identified as CRECs.
- Groundwater has historically been measured between depths of approximately 44 and 65 feet BGS. Historical groundwater sampling results indicate that low concentrations of PCE and TCE have been detected in the groundwater samples collected from the four on-site monitoring wells. DEQ indicated that based on the chlorinated VOC concentrations detected in the groundwater, they would not require further assessment or remediation. The low levels of VOCs in groundwater beneath the project site was identified as an HREC. Further investigation regarding the presence of VOCs in groundwater was not deemed warranted.

3.1 SIGNIFICANT PREVIOUS SUBSURFACE INVESTIGATION RESULTS

The following sections present a brief summary of select subsurface investigations on the west portion of the project site where subsurface soil contamination was identified. The boring locations referenced in this section are shown on Figure 2. The extents of the soil contamination are shown on Figure 3.

3.1.1 BEI (1990)

In 1990 BEI advanced soil borings M1 (in the vicinity of former waste oil UST No. 6) and M2 (south of the west garage) to depths of up to 31.5 feet BGS and collected three soil samples from each boring for chemical analysis. Total petroleum hydrocarbons (by EPA Method 418.1) were detected at a concentration of 14,000 mg/kg in the soil sample collected from M1 at a depth of 10.0 to 11.5 feet BGS. Toluene, xylene, PCE, and 1,1,1-TCA were also detected in this soil sample at concentrations of 0.0026 mg/kg, 0.230 mg/kg, 0.0029 mg/kg, and 0.0043 mg/kg, respectively, less than current DEQ RBCs and CFSLs. Total petroleum hydrocarbons (by EPA Method 418.1) were detected at a concentration of 66 mg/kg in the soil sample collected from boring M2 at a depth of 25.0 to 26.5 feet BGS. VOCs were not detected above the laboratory MRLs in the sample collected from boring M2.

3.1.2 GeoDesign (2007)

In 2007 GeoDesign advanced direct-push boring GP-1 in the vicinity of former waste oil UST No. 6 to a depth of 20 feet BGS and collected one soil sample for chemical analysis. The detected concentration of gasoline-range hydrocarbons in soil sample GP-1(14-15) is greater than

the current DEQ *Vapor Intrusion into Buildings* RBC for urban residential receptors. The detected concentration of 1,2,4-TMB (17.3 mg/kg) in sample GP-1(14-15) is less than applicable DEQ RBCs, but slightly exceeds the DEQ CFSL of 16 mg/kg.

3.1.3 GeoDesign (2014)

In 2014 GeoDesign advanced eight direct-push boring (DP-1 through DP-8, Figure 2) on the west portion of the project site. Petroleum hydrocarbons and PAHs were not detected above the laboratory MRLs in the soil samples analyzed. Arsenic was detected at concentrations greater than the DEQ-established naturally occurring background concentration in the Portland Basin (the CFSL) for arsenic of 8.8 mg/kg in samples DP-1(3.5-4.5), DP-1(16.5-17.0), DP-6(8.0-9.0) and DP-7(3.5-4.5). However, the calculated average concentration of arsenic (7.6 mg/kg) was less than the DEQ CFSL of 8.8 mg/kg. Selenium was detected at concentrations greater than the DEQ-established naturally occurring background concentration in the Portland Basin (the CFSL) for selenium of 0.71 mg/kg in the soil samples collected from borings DP-1 through DP-8. Although selenium was detected at concentrations greater than the DEQ-established naturally occurring background concentration (the CFSL) of 0.71 mg/kg in soil samples collected from borings DP-1 through DP-8 during the 2014 subsurface investigation, selenium was not detected above the laboratory MRLs in any the soil borings advanced during the recent Phase II ESA.

4.0 SCOPE OF SERVICES

The purpose of the Phase II ESA was to supplement existing site soil data and further evaluate the current subsurface conditions beneath the west portion of the project site that will be redeveloped. The Phase II ESA scope of services was developed to address the RECs identified during the Phase I ESA, including: (1) the historical use of the project site; (2) the possible presence of UST Nos. 3, 4, and 5; and (3) the residual contamination associated with former LUST File No. 26-89-0305. In addition, the Phase II ESA was conducted to evaluate the soil contaminants with respect to risk to human health (by comparison to DEQ RBCs) and with respect to DEQ CFSLs to estimate the quantity of soil that may need to be disposed of as solid waste if exported during future redevelopment. The specific scope of services conducted at the project site included the following:

- Coordinated and managed the field investigation, including utility checks, project site access authorizations, access preparations, and scheduling subcontractors and GeoDesign field staff.
- Contacted the Oregon Utility Notification Center to mark the locations of public utilities beneath the rights-of-way surrounding the project site.
- Subcontracted Pacific Northwest Locating, LLC of Clackamas, Oregon, to clear an approximately 10-foot radius around each proposed boring location and mark the locations of underground pipes connected to interior floor drains and catch basins previously identified at the project site.
- Subcontracted ESN Northwest Inc. of Olympia, Washington, to advance 28 direct-push borings (DP-1 through DP-28) to a maximum depth of 30.0 feet BGS.
- Advanced three hand auger borings (HA-1 through HA-3) to a maximum depth of 5.5 feet BGS using equipment owned and operated by GeoDesign.

- Collected continuous soil samples from each boring for visual evaluation and field screening. Field screening consisted of olfactory observation, water sheen testing, and headspace vapor measurements using a hand-held PID.
- Based on the results of field screening, submitted up to two soil samples from each boring for analysis of one or more of the following:
 - Hydrocarbon Identification by Method NWTPH-HCID
 - Gasoline-range organics by Method NWTPH-Gx
 - Diesel- and oil-range organics by Method NWTPH-Dx
 - RCRA 8 total metals by EPA Methods 6020A (ICP-MS)
 - VOCs by EPA Methods 5035A/8260C
 - PAHs by EPA Method 8270D SIM
 - PCBs by EPA Method 8082A
- Following sampling, abandoned each borehole in accordance with Oregon Water Resources Department rules and regulations and repaired the ground surface, as appropriate.
- Placed soil cuttings and decontamination water in Department of Transportation-approved drums for temporary storage at the project site and pending disposal at an approved facility.
- Summarized the results of the Phase II ESA in this report.

5.0 FIELD ACTIVITIES

5.1 SUBSURFACE INVESTIGATION

Field activities were performed on January 22 through 24, 2019 and included collecting soil samples from direct-push soil borings DP-1 through DP-28 and hand auger borings HA-1 through HA-3. The direct-push borings were advanced using drilling equipment owned and operated by ESN Northwest, Inc. of Olympia, Washington, to depths of 15 feet BGS (except for borings DP-10, DP-16, DP-25, and DP-27). Boring DP-10 was advanced to a depth of 20 feet BGS, DP-16 and DP-25 were advanced to a depth of 30 feet BGS, and DP-27 was advanced to a depth of 25 feet BGS. The hand auger borings were advanced using equipment owned and operated by GeoDesign to a maximum depth of 5.5 feet BGS. The borings were located to further evaluate subsurface soil conditions in the west portion of the project site based on historical operations; potentially remaining UST Nos. 3, 4, and 5; and the residual petroleum hydrocarbon-contaminated area near former waste oil UST No. 6. The locations of borings direct-push borings DP-1 through DP-28 and hand auger borings HA-1 through HA-3 are shown on Figure 3.

A GeoDesign representative observed the drilling activities and collected soil samples from the borings for field screening purposes and potential chemical analysis. Field screening included visual and olfactory observation, water sheen screening, and headspace vapor screening using a hand-held PID. Field screening evidence of impact (sheen and a petroleum-like odor) was observed in soil collected from boring DP-5 between 1.5 and 3 feet BGS, boring DP-6 between 1 foot and 2.5 feet BGS, boring DP-7 between 11 and 13 feet BGS, and boring DP-10 between 13.5 and 15.5 feet BGS. In addition, elevated PID readings (greater than 10 ppm) were observed in soil collected from boring DP-7 between 11 and 13 feet BGS and boring DP-10 between 12.5 and 15.5 feet BGS. Field screening evidence of impact was otherwise not observed in borings DP-1 through DP-28 and HA-1 through HA-3. Field screening results for the soil samples collected from the direct-push borings are shown on the boring logs presented in Appendix A. A description of our field exploration program is also summarized in Appendix A.

5.1.1 Subsurface Conditions

Subsurface conditions generally consist of silt with varying amounts of sand underlain by sand with varying amounts of silt. Based on conclusions from previous geotechnical explorations, historical knowledge of the surrounding area, and lack of observed debris (glass, wood, and brick), it appears that the soil encountered from beneath the asphalt concrete and aggregate base material to the maximum depth explored (30 feet BGS) is native alluvium.

Groundwater was not encountered during advancement of the borings. Groundwater was encountered between approximately 44 and 66 feet BGS during previous assessments.

5.1.2 Soil Sampling

Up to two soil samples were collected from each of the 28 direct-push borings and one soil sample was collected from each of the hand auger borings and submitted for laboratory analysis. A total of 59 soil samples were collected from the borings and submitted to Apex Laboratories of Tigard, Oregon, under standard chain-of-custody protocols for one or more of the following analysis:

- Hydrocarbon Identification by Method NWTPH-HCID
- Gasoline-range organics by Method NWTPH-Gx
- Diesel- and oil-range organics by Method NWTPH-Dx
- RCRA 8 total metals by EPA Method 6020 (ICP-MS)
- VOCs by EPA Methods 5035A/8260C
- PAHs by EPA Method 8270D SIM
- PCBs by EPA Method 8082A

Soil sample designations and sample depths are shown in Tables 1 through 4. The chemical analytical program details, laboratory reports, and chain-of-custody documentation are presented in Appendix B.

6.0 REGULATORY SCREENING LEVELS

A conceptual site model was not prepared for the project as part of this assessment. However, as described above, we understand that redevelopment will consist of a mixed-use structure consisting of one level of underground parking, a ground floor with retail space, a lobby and amenities, and four live-work apartments (i.e., occupational receptors on the ground floor and urban residential receptors above the work spaces) and residential apartments above the ground floor level (i.e., urban residential receptors). The project site is currently vacant; therefore, there is no risk to human health from current site conditions.

Considering the redevelopment plans for the project site, the following DEQ RBCs were selected for comparison of soil chemical analytical results obtained during this assessment:

- *Soil Ingestion, Dermal Contact, and Inhalation*: construction worker and excavation worker receptors
- *Volatilization to Outdoor Air*: urban residential and occupational receptors
- *Vapor Intrusion into Buildings*: urban residential and occupational receptors

To facilitate characterization of soil for disposal purposes, soil chemical analytical results were also compared to established DEQ CFSLS, updated July 23, 2014. Soil that does not appear contaminated and contains contamination at levels less than DEQ CFSLS can be re-used on site or disposed of off site without restrictions. Soil containing contaminants at concentrations greater than DEQ CFSLS must be managed as solid waste and disposed of at a RCRA Subtitle D landfill if exported from the project site. As recommended in DEQ's internal management directive, updated on February 21, 2019, statistical analysis was used to evaluate arsenic and cadmium that were detected at concentrations greater than DEQ CFSLS. As noted in the directive, the calculation of a 90% UCL is often an appropriate statistical method to determine if the contaminated soil meets DEQ's clean fill criteria. The statistical software ProUCL was used for analysis to select the best fit UCL based on sample size, data distribution, and skewness.

Soil chemical analytical results are compared to the applicable DEQ RBCs and CFSLS in Tables 1 through 4. The ProUCL calculated 90% UCLs for select analytes are presented in Table 2. The ProUCL output data sheets for the calculated 90% UCLs are presented in Appendix C.

7.0 CHEMICAL ANALYTICAL RESULTS

A comparison of the Phase II ESA soil sample chemical analytical results to applicable regulatory criteria is shown in Tables 1 through 4 and discussed below. The laboratory reports are presented in Appendix B.

7.1 HYDROCARBON IDENTIFICATION

Based on field screening evidence of petroleum hydrocarbon contamination, six¹ soil samples were qualitatively analyzed for hydrocarbon identification by Method NWTPH-HCID. Gasoline-, diesel-, and oil-range hydrocarbons were qualitatively detected in soil samples DP-7(11-12) and DP-10(12.5-13.5). In addition, oil-range hydrocarbons were qualitatively detected in soil sample DP-7(6-7.5).

7.2 GASOLINE-RANGE HYDROCARBONS

Based on the qualitative results of the petroleum hydrocarbon identification analysis, soil samples DP-7(11-12) and DP-10(12.5-13.5) were submitted for quantification analysis of gasoline-range hydrocarbons by Method NWTPH-Gx. Gasoline-range hydrocarbons were detected in soil samples DP-7(11-12) and DP-10(12.5-13.5) at concentrations of 3,340 mg/kg and 1,430 mg/kg, respectively. The detected concentration of gasoline-range hydrocarbons in both soil samples are less than applicable DEQ RBCs, with the exception of the DEQ *Vapor Intrusion into Buildings* RBC for the urban residential receptors. DEQ has not established CFSLS for gasoline-range hydrocarbons.

7.3 DIESEL- AND OIL-RANGE HYDROCARBONS

Based on the qualitative results of the petroleum hydrocarbon identification analysis, soil samples DP-7(6-7.5), DP-7(11-12), and DP-10(12.5-13.5) were submitted for quantification analysis of diesel- and oil-range hydrocarbons by Method NWTPH-Dx. Diesel-range hydrocarbons were either not detected at concentrations greater than the laboratory MRLs or were detected at

¹ DP-6(5-6.5), DP-7(6-7.5), DP-7(11-12), DP-10(7-8.5), DP-10(12.5-13.5), DP-10(17-18.5)

concentrations less than applicable DEQ RBCs. Oil-range hydrocarbons were detected in the soil samples at concentrations ranging from 507 to 3,860 mg/kg. DEQ has not established RBCs for oil-range hydrocarbons or CFSLs for diesel- and oil-range hydrocarbons.

7.4 RCRA 8 TOTAL METALS

Fifty-nine soil samples were analyzed for RCRA 8 total metals by EPA Method 6020 (ICP-MS). Barium, chromium, lead, mercury, and silver were either not detected at concentrations greater than the laboratory MRLs or were detected at concentrations less than applicable DEQ RBCs and CFSLs. The laboratory MRLs for selenium exceed the corresponding DEQ CFSL of 0.71 mg/kg for the samples submitted for analysis from borings DP-1 through DP-17, DP-23 (from 1 foot to 2 feet BGS), and DP-27 (from 1 foot to 2 feet BGS). However, it is our professional opinion that since the MRLs for selenium in the remaining samples submitted for analysis are less than the DEQ CFSL, and selenium was not detected above the laboratory MRLs in the remaining samples, selenium is not a metal of concern and would not by itself necessitate the need for the soil to be managed as solid waste.

Arsenic was detected in soil sample DP-17(1-2.5) at a concentration of 17.4 mg/kg, which is greater than the DEQ *Soil Ingestion, Dermal Contact, and Inhalation* RBC for construction worker receptors of 15 mg/kg. Arsenic was also detected in 23 of the 59 soil samples at concentrations greater than the DEQ-established naturally occurring background concentration in the Portland Basin (the CFSL) for arsenic of 8.8 mg/kg. In general, concentrations of arsenic greater than the DEQ CFSL were detected in the soil samples collected from the upper fine-grained alluvium (silt with varying amounts of sand) that generally extends to depths of 5 to 7 feet BGS. Lower concentrations of arsenic (less than the DEQ CFSL) were generally detected in the soil samples collected from the underlying coarse-grained alluvium (sand with varying amounts of silt). This observed analytical trend provides evidence that the detected arsenic within two separate depositional environments is naturally occurring and not associated with anthropogenic origins.

Since both the fine-grained alluvium and the coarse-grained alluvium were naturally deposited (i.e., not fill material) and the arsenic concentrations within both depositional environments is naturally occurring, the 90% UCL concentration of arsenic was calculated using the data set from both depositional environments. The calculated 90% UCL concentration of arsenic (8.592 mg/kg) is less than the DEQ CFSL of 8.8 mg/kg. Therefore, the arsenic concentrations in the two depositional environments by themselves do not necessitate the need for the soil to be managed as solid waste and do not pose an unacceptable risk to future users of the project site.

Cadmium was detected in the 59 soil samples at concentrations less than applicable DEQ RBCs. Cadmium was also detected in 33 of the 59 soil samples at concentrations greater than the DEQ CFSL of 0.63 mg/kg. In general, concentrations of cadmium less than the DEQ CFSL were detected in the soil samples collected from the upper fine-grained alluvium (silt with varying amounts of sand) and elevated concentrations of cadmium greater than the DEQ CFSL were generally detected in the soil samples collected from the underlying coarse-grained alluvium (sand with varying amounts of silt). As with the arsenic results, this observed analytical trend provides evidence that the detected cadmium within two separate depositional environments is naturally occurring and not likely associated with anthropogenic origins.

Since both the fine-grained alluvium and the coarse-grained alluvium were naturally deposited (i.e., not fill material) and the cadmium concentrations within both depositional environments is naturally occurring, the 90% UCL concentration of cadmium was calculated using the data set from both depositional environments. The calculated 90% UCL concentration of cadmium (0.646 mg/kg) is slightly greater than the DEQ CFSL of 0.63 mg/kg. However, it is our professional opinion that the cadmium concentrations by themselves do not necessitate the need for the soil to be managed as solid waste and do not pose an unacceptable risk to future users of the project site based on the following:

- The calculated 90% UCL concentration of cadmium is only 2.5 percent greater than the DEQ CFSL of 0.63 mg/kg
- The detected cadmium is naturally occurring and not likely associated with anthropogenic origins.
- The KM mean concentration of cadmium (0.602 mg/kg) is less than the DEQ CFSL of 0.63 mg/kg.

7.5 VOCs

Fifty-nine soil samples were submitted for analysis of VOCs by EPA Methods 5035A/8260C. The laboratory MRLs for benzene and naphthalene exceed the corresponding DEQ CFSLs of 0.0093 mg/kg and 0.087 mg/kg, respectively, with the exception of sample DP-7(6-7.5). However, it is our professional opinion that benzene and naphthalene are not VOCs of concern, and by themselves would not necessitate the need for the soil to be managed as solid waste, with the possible exception of the soil represented by sample DP-25(1-2), based on the following:

- Field screening evidence of petroleum hydrocarbons was only observed in soil samples collected from borings DP-7 and DP-10.
- No other petroleum hydrocarbon-related constituents were detected in the soil samples above the laboratory MRLs, with the exception of ethylbenzene in sample DP-25(1-2).
- One-half the MRLs (typically applied to contaminants when evaluating risk for non-detected contaminants) are less than the corresponding DEQ CFSLs.

Benzene and naphthalene were detected in soil sample DP-25(1-2) at concentrations of 0.120 mg/kg and 0.723 mg/kg, respectively. These concentrations are less than applicable DEQ RBCs, but greater than the DEQ CFSLs of 0.0093 mg/kg and 0.087 mg/kg, respectively. If field screening evidence of contamination is not observed during excavation activities in the area of sample DP-25(1-2), soil in the area of this sample should be temporarily stockpiled and recharacterized to evaluate whether or not it can be considered clean fill or would require disposal at a RCRA Subtitle D landfill (such as Waste Management's Hillsboro landfill) if exported off site. Soil exhibiting field screening evidence of contamination (such as staining, odor, or sheen) must be disposed of at a RCRA Subtitle D landfill if exported off site.

All other VOCs were either not detected at concentrations greater than laboratory MRLs or were detected at concentrations less than applicable DEQ RBCs and CFSLs.

7.6 PAHs

Fifty-nine soil samples were submitted for analysis of PAHs by EPA Method 8270D SIM. PAHs were not detected at concentrations greater than laboratory MRLs.

7.7 PCBs

Fifty-nine soil samples were submitted for analysis of PCBs by EPA Method 8082A. PCBs were either not detected at concentrations greater than the laboratory MRLs or were detected at concentrations less than applicable DEQ RBCs and CFSLS.

8.0 CONCLUSIONS AND RECOMMENDATIONS

GeoDesign conducted a Phase II ESA on the west portion of the project site (the portion that will be redeveloped with one level of underground parking and a seven-story aboveground mixed-use facility) to address the RECs identified during the Phase I ESA including: (1) the historical use of the project site; (2) the possible presence of UST Nos. 3, 4, and 5; and (3) the residual contamination associated with former LUST File No. 26-89-0305. In addition, the Phase II ESA was conducted to evaluate the current soil contaminants with respect to risk to human health (by comparison to DEQ RBCs) and with respect to clean fill requirements (by comparison to DEQ CFSLS) to evaluate the quantity of soil that may need to be disposed of as solid waste if exported during future redevelopment. Based on the results of the Phase II ESA, the following can be concluded:

- The historical use of the project site does not appear to have significantly impacted the subsurface soil beneath the project site. Provided the soil does not exhibit field screening evidence of petroleum contamination (odor, staining, sheen, and/or elevated PID readings) during construction, the majority of the subsurface soil appears suitable for management as clean fill, with the exception of the following:
 - Petroleum-contaminated soil in the vicinity of former waste oil UST No. 6. The lateral extent of the contaminated soil is shown on Figure 3. The vertical extent of the contaminated soil in this area is between approximately 6 and 16 feet BGS. Based on the estimated lateral and vertical extents, we estimate the volume of contaminated soil in this area that will require management as non-hazardous solid waste and disposed of at a RCRA Subtitle D landfill is approximately 450 cubic yards.
 - Benzene- and naphthalene-contaminated soil represented by soil sample DP-25(1-2). If field screening evidence of contamination is not observed during excavation activities in the area of sample DP-25(1-2), soil in the area of this sample (Figure 3) should be temporarily stockpiled and recharacterized to evaluate whether or not it can be considered clean fill or would require disposal at a RCRA Subtitle D landfill if exported off site.
 - Although the detected gasoline-range hydrocarbons in soil sample GP-1 collected from 14 to 15 feet BGS during the 2006 subsurface investigation exceeded the DEQ *Vapor Intrusion into Buildings* RBC for urban residential receptors, it is anticipated that during excavation of the subgrade parking level the soil represented by this sample will be substantially removed. In addition, any future potential vapor intrusion risk will be mitigated through the parking garage ventilation system, which is required to use a high rate of air exchange per City of Portland building code.

- Although soil samples collected from borings in the vicinity of the suspected location of the remaining USTs (UST Nos. 3, 4, and 5 on Figure 2) did not encounter contamination, the possible presence of USTs in this area cannot be ruled out. In the event a UST is encountered during construction, the contractor should cease work in the area of the discovery and notify an owner's representative and a representative of the City of Portland so the UST can be decommissioned by a licensed UST service provider in accordance with current applicable DEQ rules and regulations. Additional soil sampling and characterization of potentially contaminated soil maybe necessary.

Although selenium was detected at concentrations greater than the DEQ-established naturally occurring background concentration (the CFSL) of 0.71 mg/kg in soil samples collected from borings DP-1 through DP-8 during the 2014 subsurface investigation, selenium was not detected above the laboratory MRLs in any the soil borings advanced during the recent Phase II ESA. The reason for this discrepancy is unknown; however, in our experience, low level detections of selenium (greater than CFSLs) appear to be common and artificially elevated when the laboratory uses EPA analytical Method 6010 to analyze for metals in soil (which was used during the 2014 investigation). It is GeoDesign's professional opinion that the Phase II ESA selenium results are representative of current soil conditions and that selenium is not a contaminant of concern at the project site and is likely present in soil at low concentrations consistent with naturally occurring background levels.

The analytical trends of detected arsenic and cadmium in the upper fine-grained alluvium and underlying coarser-grained alluvium (separate naturally occurring depositional environments) provides evidence that these detected metals are naturally occurring and not associated with anthropogenic origins. Although the calculated 90% UCL concentration of cadmium (0.646 mg/kg) is slightly greater than the DEQ CFSL of 0.63 mg/kg, it is our professional opinion that the cadmium concentrations by themselves do not necessitate the need for the soil to be managed as solid waste and do not pose an unacceptable risk to future users of the project site based on the following:

- The calculated 90% UCL concentration of cadmium is only 2.5 percent greater than the DEQ CFSL of 0.63 mg/kg
- The detected cadmium is naturally occurring and not likely associated with anthropogenic origins.
- The KM mean concentration of cadmium (0.602 mg/kg) is less than the DEQ CFSL of 0.63 mg/kg.

GeoDesign recommends preparation of a CMMP to provide protocol for the management of known and potentially undocumented impacted soil at the project site. The site-specific CMMP will provide the protocols for a contractor to follow when handling and/or transporting soil or other contaminated media at the project site, describe appropriate personal protective equipment to be used, and include a Health and Safety Plan. The CMMP will consist of the following elements:

- A description of areas with known impacts to soil
- Guidance on how to identify impacted soil

- Identification of actions to be taken if contaminated soil is encountered
- Description of how to manage stockpiled soil
- Identification of appropriate field safety protocols to be used by site workers in contaminated areas of the project site
- A description of proper management and disposal of impacted soil according to applicable state and federal regulations
- Protocols for the collection of soil samples for characterization purposes, as warranted

The CMMP could also be prepared to include appropriate UST management protocols if undocumented USTs are encountered during construction. Approval of the City of Portland foundation permit may be contingent on a DEQ-approved CMMP.

In addition, GeoDesign recommends properly decommissioning the on-site groundwater monitoring wells in accordance with state and local regulations prior to site redevelopment.

9.0 LIMITATIONS

This report has been prepared for Mill Creek Residential Trust. This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance by other parties must be approved by GeoDesign, Inc. in accordance with our standard contractual process for third-party reliance. Our interpretations of subsurface conditions are based on data from select soil samples collected from this limited area. The results of the analyses only indicate the presence or absence of those chemical constituents analyzed in those discrete sample locations. It is always possible that contamination could exist between the widely spaced exploration locations. Analytical data from the laboratory samples should only be considered as indicators of project site conditions and not a guarantee of the absence of subsurface impact in areas not sampled.

The conclusions presented in this report are based on our observations made during field investigations and chemical analytical data. The findings of this assessment should be considered as a professional opinion based on our evaluation of selected and limited data.

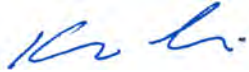
Our services have been executed in accordance with the generally accepted practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

◆ ◆ ◆

We appreciate the opportunity to be of service to Mill Creek Residential Trust. Please call if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.



Kevin Cline
Environmental Staff



Kyle R. Sattler, L.G. (Washington)
Senior Project Geologist

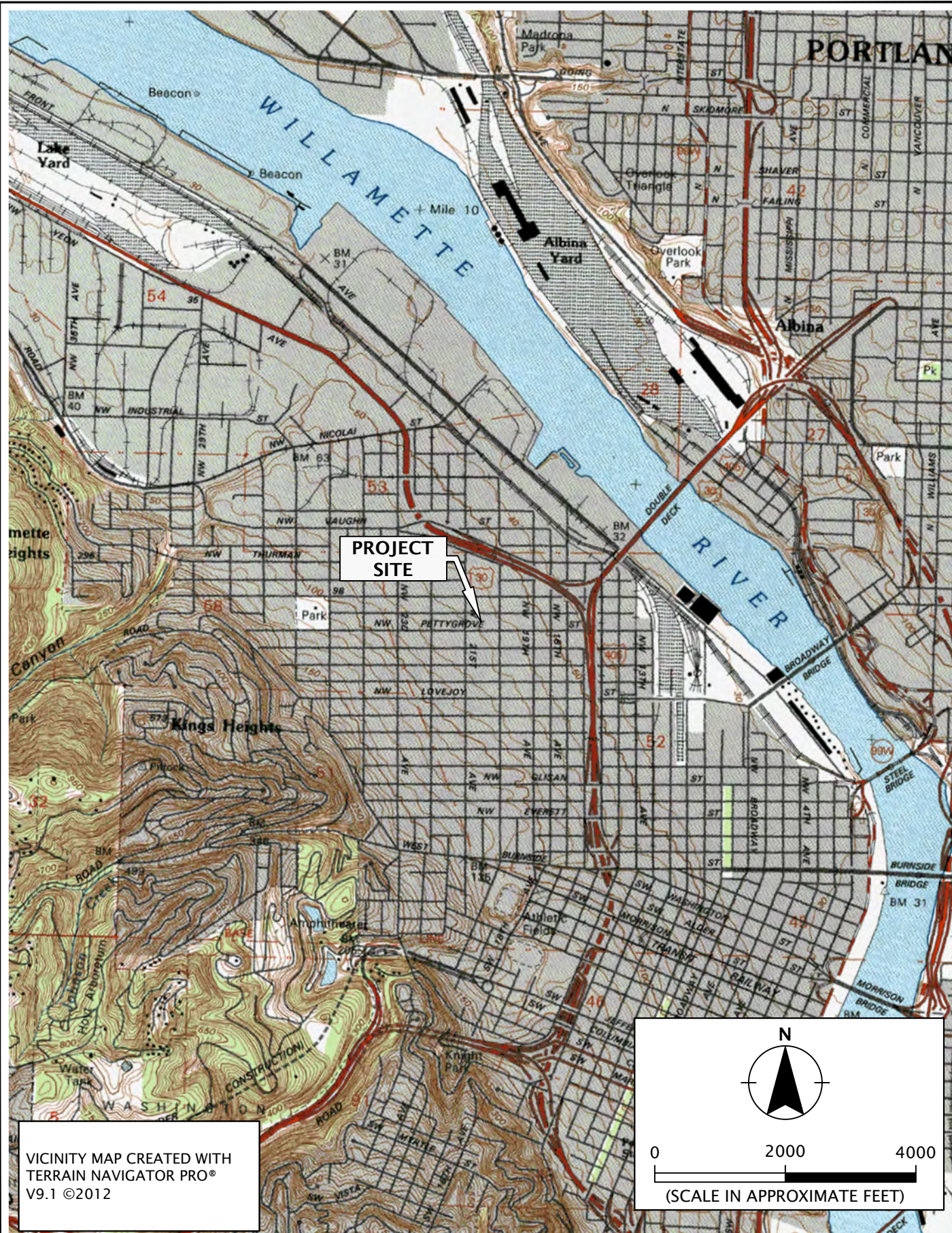


Jason O'Donnell, R.G.
Principal Geologist

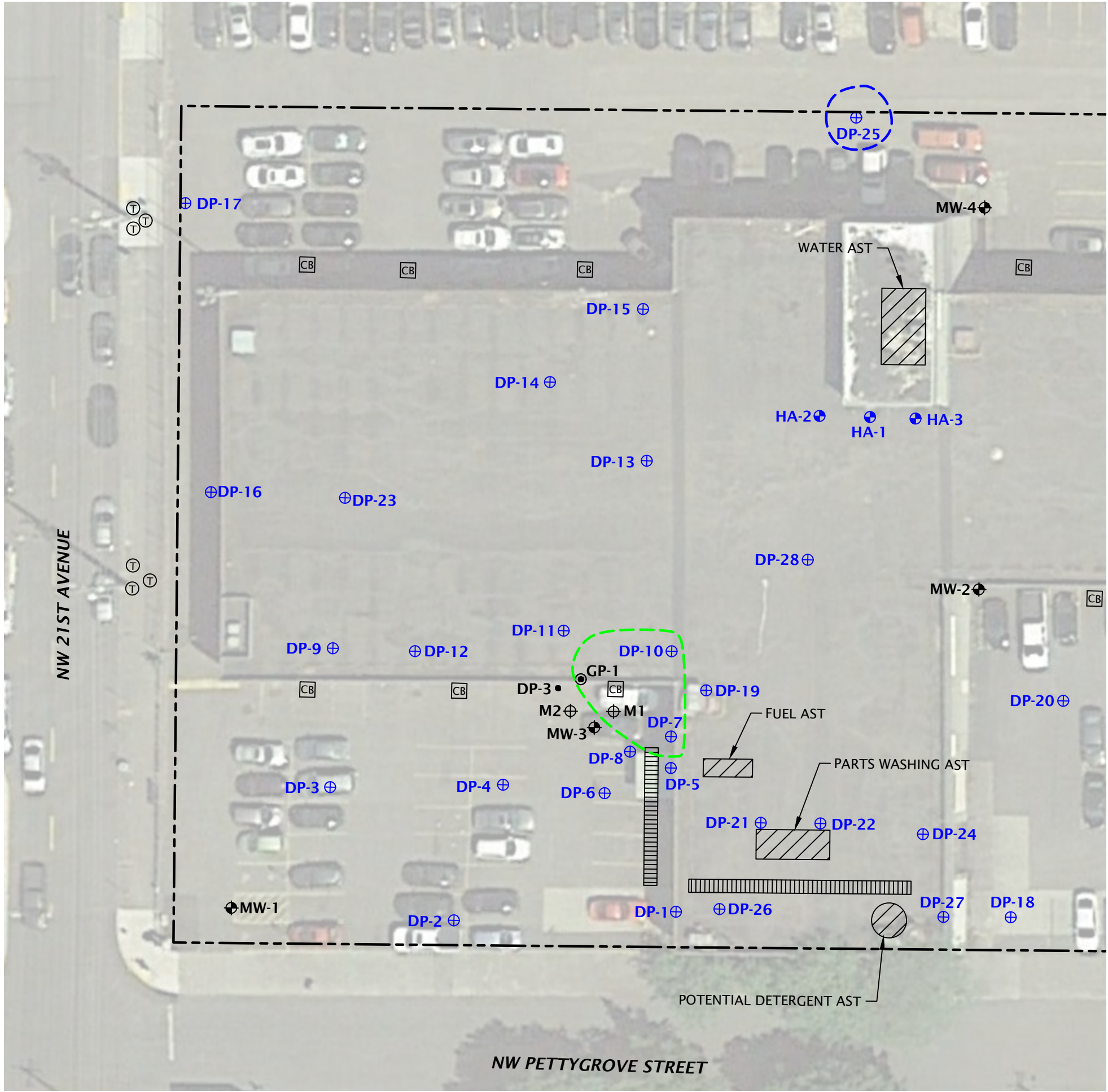


Expires 06/30/2019

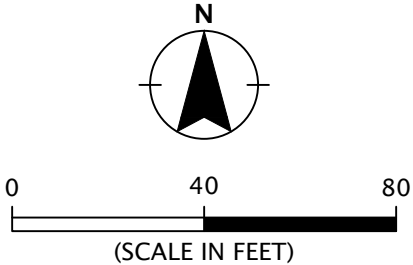
FIGURES



GEODESIGN^{INC}
9450 SW Commerce Circle - Suite 300
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- LEGEND:**
- DP-1 ⊕ DIRECT-PUSH BORING (GEODESIGN 2019)
 - HA-1 ⊕ HAND AUGER BORING (GEODESIGN 2019)
 - DP-3 • DIRECT-PUSH BORING (GEODESIGN 2014)
 - GP-1 ⊙ DIRECT-PUSH BORING (GEODESIGN 2007 - 2010)
 - MW-1 ⊕ MONITORING WELL (BEI 1991)
 - M1 ⊕ BORING (BEI 1990)
 - CB CATCH BASIN
 - T POLE-MOUNTED TRANSFORMER
 - TRENCH DRAIN
 - AST
 - ESTIMATED EXTENT OF VOC-CONTAMINATED SOIL (0 TO 2 FEET BGS)
 - ESTIMATED EXTENT OF PETROLEUM HYDROCARBON-CONTAMINATED SOIL (6 TO 16 FEET BGS)
 - PROJECT SITE BOUNDARY



SITE PLAN BASED ON AERIAL PHOTOGRAPH
OBTAINED FROM GOOGLE EARTH PRO®,
JANUARY 25, 2019

SITE PLAN - 2019 PHASE II ESA BORING LOCATIONS		FIGURE 3
MILLCREEK-15-02	APRIL 2019	MODERA SLABTOWN PORTLAND, OR
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		

TABLES

TABLE 1
Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbons
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	Hydrocarbon Identification by Method NWTPH-HCID (mg/kg)			Gasoline-Range Hydrocarbons by Method NWTPH-Gx (mg/kg)	Diesel- and Oil-Range Hydrocarbons by Method NWTPH-Dx (mg/kg)	
		Gasoline- Range	Diesel- Range	Oil- Range		Diesel- Range	Oil- Range
DP-6(5-6.5)	01/23/19	ND	ND	ND	--	--	--
DP-7(6-7.5)	01/23/19	ND	ND	DET	--	25.0 U	507
DP-7(11-12)	01/23/19	DET	DET	DET	3,340	400	3,020
DP-10(7-8.5)	01/23/19	ND	ND	ND	--	--	--
DP-10(12.5-13.5)	01/23/19	DET	DET	DET	1,430	529	3,860
DP-10(17-18.5)	01/23/19	ND	ND	ND	--	--	--
DEQ Generic RBCs¹							
<i>Soil Ingestion, Dermal Contact, and Inhalation</i>							
Construction Worker		NE	NE	NE	9,700	4,600	NE
Excavation Worker		NE	NE	NE	>Max	>Max	NE
<i>Volatilization to Outdoor Air</i>							
Urban Residential		NE	NE	NE	5,900	>Max	NE
Occupational		NE	NE	NE	69,000	>Max	NE
<i>Vapor Intrusion into Buildings</i>							
Urban Residential		NE	NE	NE	94	>Max	NE
Occupational		NE	NE	NE	>Max	>Max	NE
DEQ CFSLS²		NE	NE	NE	NE	NE	NE

TABLE 1
Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbons
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Notes:

1. DEQ Generic RBCs dated May 2018
2. DEQ CFSLS dated July 23, 2014. Where applicable, CFSL is based on updated DEQ RBCs dated May 2018.

DET: detected at a concentration greater than the reporting or detection limit

>Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.

ND: not detected at concentrations greater than the reporting or detection

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than DEQ RBCs.

--: not analyzed

TABLE 2
Summary of Soil Sample Chemical Analytical Results
RCRA 8 Total Metals
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals by EPA Method 6020A (ICP-MS) (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
DP-1(1.5-2.5)	01/23/19	13.2	183	0.294 U	21.8	15.5	0.118 U	1.47 U	0.294 U
DP-1(8-9.5)	01/23/19	4.99	159	0.629	17.2	6.86	0.113 U	1.41 U	0.281 U
DP-2(1-2)	01/23/19	12.6	214	0.273 U	24.0	13.6	0.109 U	1.36 U	0.273 U
DP-2(6.5-7.5)	01/23/19	11.3	191	0.670	20.5	13.9	0.107 U	1.33 U	0.267 U
DP-3(1.5-3)	01/23/19	12.5	157	0.297	18.1	11.7	0.112 U	1.39 U	0.279 U
DP-3(6.5-8)	01/23/19	9.16	165	0.819	19.5	11.4	0.114 U	1.42 U	0.284 U
DP-4(1.5-3)	01/23/19	10.3	213	0.298 U	19.5	14.0	0.119 U	1.49 U	0.298 U
DP-4(5-6.5)	01/23/19	4.89	138	0.823	14.8	7.35	0.103 U	1.28 U	0.256 U
DP-5(1.5-3)	01/23/19	12.3	228	0.266 U	21.3	13.9	0.106 U	1.33 U	0.266 U
DP-5(6.5-8)	01/23/19	6.57	173	0.720	22.2	7.94	0.103 U	1.29 U	0.259 U
DP-6(1-2.5)	01/23/19	8.93	197	0.278 U	20.8	12.4	0.111 U	1.39 U	0.278 U
DP-6(5-6.5)	01/23/19	5.11	155	0.795	16.2	7.93	0.108 U	1.35 U	0.271 U
DP-7(2-3)	01/23/19	3.05	86.8	0.237 U	8.86	6.42	0.0948 U	1.18 U	0.237 U
DP-7(6-7.5)	01/23/19	3.08	77.9	0.469	10.0	8.70	0.0874 U	1.09 U	0.219 U
DP-8(1-2.5)	01/23/19	11.1	206	0.285 U	21.2	12.8	0.114 U	1.43 U	0.285 U
DP-8(6-7.5)	01/23/19	3.63	128	0.595	12.9	4.01	0.0983 U	1.23 U	0.246 U
DP-9(1-2.5)	01/23/19	12.4	215	0.295 U	20.0	15.3	0.118 U	1.48 U	0.295 U
DP-9(6-7.5)	01/23/19	4.32	136	0.797	13.3	6.51	0.0961 U	1.20 U	0.240 U
DP-10(0.5-2)	01/23/19	9.07	173	0.517	21.3	18.3	0.104 U	1.30 U	0.259 U
DP-10(7-8.5)	01/23/19	5.63	158	0.321	17.7	6.80	0.0988 U	1.23 U	0.247 U
DP-11(1-2)	01/23/19	11.3	187	0.473	18.8	15.9	0.110 U	1.37 U	0.274 U
DP-11(8-9)	01/23/19	3.87	130	0.813	12.9	6.49	0.109 U	1.36 U	0.272 U
DP-12(1-2)	01/23/19	7.87	194	0.288	23.8	9.22	0.111 U	1.39 U	0.278 U
DP-12(8-9)	01/23/19	4.35	129	0.743	14.2	6.47	0.108 U	1.35 U	0.271 U
DP-13(1-2)	01/23/19	3.80	112	0.209 U	11.1	5.55	0.0835 U	1.04 U	0.209 U
DP-13(8-9.5)	01/23/19	6.25	181	0.828	18.0	8.38	0.105 U	1.31 U	0.262 U
DP-14(0.5-2)	01/23/19	2.94	101	0.228 U	10.3	5.70	0.0913 U	1.14 U	0.228 U
DP-14(8.5-10)	01/23/19	5.48	190	0.825	17.0	7.92	0.106 U	1.32 U	0.265 U
DP-15(1-2)	01/23/19	5.27	132	0.253 U	15.5	10.9	0.101 U	1.27 U	0.253 U
DP-15(8.5-10)	01/23/19	6.70	183	0.829	19.5	9.05	0.0988 U	1.23 U	0.247 U
DP-16(1-2)	01/23/19	11.7	200	0.281 U	23.9	15.2	0.112 U	1.40 U	0.281 U

TABLE 2
Summary of Soil Sample Chemical Analytical Results
RCRA 8 Total Metals
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals by EPA Method 6020A (ICP-MS) (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
DP-16(6-7.5)	01/23/19	4.44	152	0.661	16.6	5.16	0.0939 U	1.17 U	0.235 U
DP-17(1-2.5)	01/23/19	17.4 ¹	230	0.701	28.3	16.8	0.113 U	1.41 U	0.283 U
DP-17(9-10)	01/23/19	5.00	164	0.776	16.7	7.01	0.0975 U	1.22 U	0.244 U
DP-18(2-3)	01/24/19	14.9	240	0.924	26.4	14.7	0.0523 U	0.654 U	0.131 U
DP-18(6.5-8)	01/24/19	7.98	195	0.939	22.4	9.91	0.0539 U	0.673 U	0.135 U
DP-19(1-2)	01/24/19	13.2	229	0.853	24.7	13.3	0.101 U	0.633 U	0.253 U
DP-19(8-9)	01/24/19	6.29	170	0.908	23.3	8.31	0.0518 U	0.647 U	0.129 U
DP-20(1-2)	01/24/19	12.0	195	0.650	19.7	15.5	0.0562 U	0.703 U	0.141 U
DP-20(6.5-8)	01/24/19	4.87	158	0.809	15.9	6.84	0.0506 U	0.633 U	0.127 U
DP-21(0.5-1.5)	01/24/19	11.6	192	0.675	21.6	13.4	0.0547 U	0.684 U	0.137 U
DP-21(7-8)	01/24/19	4.17	153	0.884	12.7	6.97	0.0508 U	0.635 U	0.127 U
DP-22(1.5-2.5)	01/24/19	12.8	211	0.662	26.9	14.7	0.0558 U	0.697 U	0.139 U
DP-22(8-9)	01/24/19	4.75	152	0.848	15.5	6.69	0.0480 U	0.600 U	0.120 U
DP-23(1-2)	01/24/19	9.83	218	0.766	25.2	12.3	0.058 U	0.725 U	0.145 U
DP-23(8-9.5)	01/24/19	4.00	165	0.753	13.3	5.34	0.0551 U	0.689 U	0.138 U
DP-24(0.5-1.5)	01/24/19	6.89	149	0.621	16.6	9.26	0.0523 U	0.654 U	0.131 U
DP-24(7.5-8.5)	01/24/19	4.38	152	0.899	15.1	6.88	0.0516 U	0.645 U	0.129 U
DP-25(1-2)	01/24/19	9.35	214	0.543	25.9	20.6	0.0559 U	0.699 U	0.14 U
DP-25(12-13)	01/24/19	6.68	200	0.780	19.5	8.90	0.0522 U	0.652 U	0.130 U
DP-26(1-2)	01/24/19	10.3	214	0.684	21.0	15.5	0.0556 U	0.696 U	0.139 U
DP-26(7-8)	01/24/19	4.32	153	0.743	15.0	4.79	0.0482 U	0.602 U	0.120 U
DP-27(1-2)	01/24/19	14.9	236	0.807	24.2	17.7	0.0572 U	0.715 U	0.143 U
DP-27(14-15)	01/24/19	4.14	152	0.852	13.8	4.70	0.0533 U	0.677 U	0.133 U
DP-28(1-2)	01/24/19	8.38	157	0.507	19.5	12.6	0.049 U	0.613 U	0.123 U
DP-28(8-9)	01/24/19	5.92	187	0.704	18.8	7.90	0.0501 U	0.627 U	0.125 U
HA-1(0-1)	01/24/19	5.65	144	0.467	15.0	11.4	0.0478 U	0.597 U	0.119 U
HA-2(0-1)	01/24/19	2.32	86.6	0.329	9.51	4.56	0.0431 U	0.539 U	0.108 U
HA-3(0-1)	01/24/19	4.86	141	0.504	14.1	8.90	0.0447 U	0.558 U	0.112 U
90% UCL Concentration ²		8.592 ³		0.646 ⁴					

TABLE 2 Summary of Soil Sample Chemical Analytical Results RCRA 8 Total Metals Modera Slabtown 1417 NW 20th Avenue Portland, Oregon									
Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals by EPA Method 6020A (ICP-MS) (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
DEQ Generic RBCs ⁵									
<i>Soil Ingestion, Dermal Contact, and Inhalation</i>									
Construction Worker		15	69,000	350	530,000	800	110	NE	1,800
Excavation Worker		420	>Max	9,700	>Max	800	2900	NE	49,000
<i>Volatilization to Outdoor Air</i>									
Urban Residential		NV	NV	NV	NV	NV	NV	NE	NV
Occupational		NV	NV	NV	NV	NV	NV	NE	NV
<i>Vapor Intrusion into Buildings</i>									
Urban Residential		NV	NV	NV	NV	NV	NV	NE	NV
Occupational		NV	NV	NV	NV	NV	NV	NE	NV
DEQ CFSLs ⁶		8.8	790	0.63	76	28	0.23	0.71	4.2
Notes: 1. While this detected concentration of arsenic is greater than one or more RBCs and/or CFSLs, the 90% UCL concentration of the detected arsenic concentrations is within the range of naturally occurring arsenic concentrations in soil in this area. 2. Calculated 90% UCL based on data size, data distribution, and skewness, as recommended in DEQ's Internal Management Directive updated on February 21, 2019. See ProUCL Outputs for areсенic, cadmium, and lead in Appendix C. 3. ProUCL-recommended use of the Approximate Gamma 90% UCL value for this analytes dataset. 4. ProUCL-recommended use of the normal KM Student's-t 90% UCL value for this analytes dataset. 5. DEQ Generic RBCs dated May 2018 6. DEQ CFSLs dated July 23, 2014. Where applicable, CFSL is based on updated DEQ RBCs dated May 2018. >Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario. NV: chemical is considered non-volatile U: Not detected. Reporting or detection limit shown. Bolding indicates analyte detection. Italicization for non-detects indicate the MRL is less than the DEQ CFSL. Shading indicates analyte detection at a concentration greater than DEQ CFSLs.									

TABLE 3
Summary of Soil Sample Chemical Analytical Results
VOCs and PAHs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	VOCs ¹ by EPA Method 5035A/8260C (mg/kg)			PAHs ² by EPA Method 8270D SIM
		Benzene	Ethylbenzene	Naphthalene	
DP-1(1.5-2.5)	01/23/19	0.0137 U	0.0343 U	0.137 U	Varies U
DP-1(8-9.5)	01/23/19	0.0134 U	0.0335 U	0.134 U	Varies U
DP-2(1-2)	01/23/19	0.0147 U	0.0368 U	0.147 U	Varies U
DP-2(6.5-7.5)	01/23/19	0.0148 U	0.037 U	0.148 U	Varies U
DP-3(1.5-3)	01/23/19	0.0137 U	0.0342 U	0.137 U	Varies U
DP-3(6.5-8)	01/23/19	0.0155 U	0.0388 U	0.155 U	Varies U
DP-4(1.5-3)	01/23/19	0.0164 U	0.0410 U	0.164 U	Varies U
DP-4(5-6.5)	01/23/19	0.0130 U	0.0325 U	0.130 U	Varies U
DP-5(1.5-3)	01/23/19	0.0142 U	0.0355 U	0.142 U	Varies U
DP-5(6.5-8)	01/23/19	0.0137 U	0.0343 U	0.137 U	Varies U
DP-6(1-2.5)	01/23/19	0.0141 U	0.0352 U	0.141 U	Varies U
DP-6(5-6.5)	01/23/19	0.0139 U	0.0348 U	0.139 U	Varies U
DP-7(2-3)	01/23/19	0.0105 U	0.0264 U	0.105 U	Varies U
DP-7(6-7.5)	01/23/19	0.00793 U	0.0198 U	0.0793 U	Varies U
DP-8(1-2.5)	01/23/19	0.0172 U	0.0430 U	0.172 U	Varies U
DP-8(6-7.5)	01/23/19	0.0116 U	0.0291 U	0.116 U	Varies U
DP-9(1-2.5)	01/23/19	0.0147 U	0.0367 U	0.147 U	Varies U
DP-9(6-7.5)	01/23/19	0.0149 U	0.0374 U	0.149 U	Varies U
DP-10(0.5-2)	01/23/19	0.0137 U	0.0342 U	0.137 U	Varies U
DP-10(7-8.5)	01/23/19	0.0129 U	0.0323 U	0.129 U	Varies U
DP-11(1-2)	01/23/19	0.0147 U	0.0366 U	0.147 U	Varies U
DP-11(8-9)	01/23/19	0.0137 U	0.0343 U	0.137 U	Varies U
DP-12(1-2)	01/23/19	0.0141 U	0.0354 U	0.141 U	Varies U
DP-12(8-9)	01/23/19	0.0126 U	0.0315 U	0.126 U	Varies U
DP-13(1-2)	01/23/19	0.0102 U	0.0254 U	0.102 U	Varies U
DP-13(8-9.5)	01/23/19	0.0131 U	0.0327 U	0.131 U	Varies U
DP-14(0.5-2)	01/23/19	0.0108 U	0.0270 U	0.108 U	Varies U

TABLE 3
Summary of Soil Sample Chemical Analytical Results
VOCs and PAHs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	VOCs ¹ by EPA Method 5035A/8260C (mg/kg)			PAHs ² by EPA Method 8270D SIM
		Benzene	Ethylbenzene	Naphthalene	
DP-14(8.5-10)	01/23/19	0.0140 U	0.0349 U	0.140 U	Varies U
DP-15(1-2)	01/23/19	0.0120 U	0.0301 U	0.120 U	Varies U
DP-15(8.5-10)	01/23/19	0.0132 U	0.0329 U	0.132 U	Varies U
DP-16(1-2)	01/23/19	0.0150 U	0.0375 U	0.150 U	Varies U
DP-16(6-7.5)	01/23/19	0.0131 U	0.0328 U	0.131 U	Varies U
DP-17(1-2.5)	01/23/19	0.0152 U	0.0381 U	0.152 U	Varies U
DP-17(9-10)	01/23/19	0.0121 U	0.0302 U	0.121 U	Varies U
DP-18(2-3)	01/24/19	0.0147 U	0.0368 U	0.147 U	Varies U
DP-18(6.5-8)	01/24/19	0.0137 U	0.0343 U	0.137 U	Varies U
DP-19(1-2)	01/24/19	0.0136 U	0.0340 U	0.136 U	Varies U
DP-19(8-9)	01/24/19	0.0145 U	0.0361 U	0.145 U	Varies U
DP-20(1-2)	01/24/19	0.0137 U	0.0343 U	0.137 U	Varies U
DP-20(6.5-8)	01/24/19	0.0127 U	0.0319 U	0.127 U	Varies U
DP-21(0.5-1.5)	01/24/19	0.0146 U	0.0365 U	0.146 U	Varies U
DP-21(7-8)	01/24/19	0.0120 U	0.0301 U	0.120 U	Varies U
DP-22(1.5-2.5)	01/24/19	0.0136 U	0.0340 U	0.136 U	Varies U
DP-22(8-9)	01/24/19	0.0121 U	0.0302 U	0.121 U	Varies U
DP-23(1-2)	01/24/19	0.0162 U	0.0404 U	0.162 U	Varies U
DP-23(8-9.5)	01/24/19	0.0140 U	0.035 U	0.140 U	Varies U
DP-24(0.5-1.5)	01/24/19	0.0124 U	0.0310 U	0.124 U	Varies U
DP-24(7.5-8.5)	01/24/19	0.0127 U	0.0318 U	0.127 U	Varies U
DP-25(1-2)	01/24/19	0.120	0.0764	0.723	Varies U
DP-25(12-13)	01/24/19	0.0135 U	0.0337 U	0.135 U	Varies U
DP-26(1-2)	01/24/19	0.0143 U	0.0357 U	0.143 U	Varies U
DP-26(7-8)	01/24/19	0.0112 U	0.0281 U	0.112 U	Varies U
DP-27(1-2)	01/24/19	0.0138 U	0.0345 U	0.138 U	Varies U
DP-27(14-15)	01/24/19	0.0126 U	0.0314 U	0.126 U	Varies U

TABLE 3
Summary of Soil Sample Chemical Analytical Results
VOCs and PAHs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	VOCs ¹ by EPA Method 5035A/8260C (mg/kg)			PAHs ² by EPA Method 8270D SIM
		Benzene	Ethylbenzene	Naphthalene	
DP-28(1-2)	01/24/19	0.0168 U	0.0420 U	0.168 U	Varies U
DP-28(8-9)	01/24/19	0.0166 U	0.0414 U	0.166 U	Varies U
HA-1(0-1)	01/24/19	0.0136 U	0.0341 U	0.136 U	Varies U
HA-2(0-1)	01/24/19	0.0108 U	0.0270 U	0.108 U	Varies U
HA-3(0-1)	01/24/19	0.0112 U	0.0280 U	0.112 U	Varies U
DEQ Generic RBCs³					
Soil Ingestion, Dermal Contact, and Inhalation					
Construction Worker		380	1,700	580	Varies
Excavation Worker		11,000	49,000	16,000	Varies
Volatilization to Outdoor Air					
Urban Residential		27	85	15	Varies
Occupational		50	160	83	Varies
Vapor Intrusion into Buildings					
Urban Residential		0.38	3.0	15	Varies
Occupational		2.1	17	83	Varies
DEQ CFSLS⁴		0.0093	0.16	0.087	Varies

Notes:

1. Only VOCs detected during this investigation are listed. For a complete listing of VOCs, refer to the laboratory report in Appendix B.

2. For a complete listing of PAHs, refer to the laboratory report in Appendix B.

3. DEQ Generic RBCs dated May 2018

4. DEQ CFSLS dated July 23, 2014. Where applicable, CFSL is based on updated DEQ RBCs dated May 2018.

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than DEQ CFSLS.

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs by EPA Method 8082A (mg/kg)									
		Aroclor 1016		Aroclor 1221		Aroclor 1232		Aroclor 1242		Aroclor 1248	
DP-1(1.5-2.5)	01/23/19	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U
DP-1(8-9.5)	01/23/19	0.0122	U	0.0122	U	0.0122	U	0.0122	U	0.0122	U
DP-2(1-2)	01/23/19	0.0130	U	0.0130	U	0.0130	U	0.0130	U	0.0130	U
DP-2(6.5-7.5)	01/23/19	0.0134	U	0.0134	U	0.0134	U	0.0134	U	0.0134	U
DP-3(1.5-3)	01/23/19	0.0117	U	0.0117	U	0.0117	U	0.0117	U	0.0117	U
DP-3(6.5-8)	01/23/19	0.0128	U	0.0128	U	0.0128	U	0.0128	U	0.0128	U
DP-4(1.5-3)	01/23/19	0.0129	U	0.0129	U	0.0129	U	0.0129	U	0.0129	U
DP-4(5-6.5)	01/23/19	0.0115	U	0.0115	U	0.0115	U	0.0115	U	0.0115	U
DP-5(1.5-3)	01/23/19	0.0126	U	0.0126	U	0.0126	U	0.0126	U	0.0126	U
DP-5(6.5-8)	01/23/19	0.0125	U	0.0125	U	0.0125	U	0.0125	U	0.0125	U
DP-6(1-2.5)	01/23/19	0.0114	U	0.0114	U	0.0114	U	0.0114	U	0.0114	U
DP-6(5-6.5)	01/23/19	0.0119	U	0.0119	U	0.0119	U	0.0119	U	0.0119	U
DP-7(2-3)	01/23/19	0.0104	U	0.0104	U	0.0104	U	0.0104	U	0.0104	U
DP-7(6-7.5)	01/23/19	0.0105	U	0.0105	U	0.0105	U	0.0105	U	0.0105	U
DP-8(1-2.5)	01/23/19	0.0126	U	0.0126	U	0.0126	U	0.0126	U	0.0126	U
DP-8(6-7.5)	01/23/19	0.0109	U	0.0109	U	0.0109	U	0.0109	U	0.0109	U
DP-9(1-2.5)	01/23/19	0.0133	U	0.0133	U	0.0133	U	0.0133	U	0.0133	U
DP-9(6-7.5)	01/23/19	0.0114	U	0.0114	U	0.0114	U	0.0114	U	0.0114	U
DP-10(0.5-2)	01/23/19	0.0122	U	0.0122	U	0.0122	U	0.0122	U	0.0122	U
DP-10(7-8.5)	01/23/19	0.0125	U	0.0125	U	0.0125	U	0.0125	U	0.0125	U
DP-11(1-2)	01/23/19	0.0127	U	0.0127	U	0.0127	U	0.0127	U	0.0127	U

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs by EPA Method 8082A (mg/kg)							
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
DP-11(8-9)	01/23/19	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	
DP-12(1-2)	01/23/19	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	
DP-12(8-9)	01/23/19	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	
DP-13(1-2)	01/23/19	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	
DP-13(8-9.5)	01/23/19	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	
DP-14(0.5-2)	01/23/19	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	
DP-14(8.5-10)	01/23/19	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	
DP-15(1-2)	01/23/19	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105 U	
DP-15(8.5-10)	01/23/19	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	
DP-16(1-2)	01/23/19	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	
DP-16(6-7.5)	01/23/19	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	
DP-17(1-2.5)	01/23/19	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	
DP-17(9-10)	01/23/19	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	
DP-18(2-3)	01/24/19	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	
DP-18(6.5-8)	01/24/19	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	
DP-19(1-2)	01/24/19	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.0126 U	
DP-19(8-9)	01/24/19	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	
DP-20(1-2)	01/24/19	0.0127 U	0.0127 U	0.0127 U	0.0127 U	0.0127 U	0.0127 U	0.0127 U	
DP-20(6.5-8)	01/24/19	0.0108 U	0.0108 U	0.0108 U	0.0108 U	0.0108 U	0.0108 U	0.0108 U	
DP-21(0.5-1.5)	01/24/19	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	
DP-21(7-8)	01/24/19	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs by EPA Method 8082A (mg/kg)							
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
DP-22(1.5-2.5)	01/24/19	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.0122 U	
DP-22(8-9)	01/24/19	0.0115 U	0.0115 U	0.0115 U	0.0115 U	0.0115 U	0.0115 U	0.0115 U	
DP-23(1-2)	01/24/19	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.0128 U	
DP-23(8-9.5)	01/24/19	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	
DP-24(0.5-1.5)	01/24/19	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0121 U	
DP-24(7.5-8.5)	01/24/19	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	
DP-25(1-2)	01/24/19	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	
DP-25(12-13)	01/24/19	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	
DP-26(1-2)	01/24/19	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	
DP-26(7-8)	01/24/19	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	
DP-27(1-2)	01/24/19	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	
DP-27(14-15)	01/24/19	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	
DP-28(1-2)	01/24/19	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	
DP-28(8-9)	01/24/19	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	
HA-1(0-1)	01/24/19	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0180
HA-2(0-1)	01/24/19	0.00988 U	0.00988 U	0.00988 U	0.00988 U	0.00988 U	0.00988 U	0.00988 U	0.00988 U
HA-3(0-1)	01/24/19	0.00944 U	0.00944 U	0.00944 U	0.00944 U	0.00944 U	0.00944 U	0.00944 U	0.0169

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
Modera Slabtown
1417 NW 20th Avenue
Portland, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs by EPA Method 8082A (mg/kg)						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
DEQ Generic RBCs ¹								
Soil Ingestion, Dermal Contact, and Inhalation								
Construction Worker		4.9						
Excavation Worker		140						
Volatilization to Outdoor Air								
Urban Residential		>Csat						
Occupational		>Csat						
Vapor Intrusion into Buildings								
Urban Residential		>Csat						
Occupational		>Csat						
DEQ CFSLS ²		0.2						

Notes:

1. DEQ Generic RBCs dated May 2018

2. DEQ CFSLS dated July 23, 2014. Where applicable, CFSL is based on updated DEQ RBCs dated May 2018.

>Csat: This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to Appendix D of DEQ's RBDM guidance document for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present.

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

APPENDIX A

APPENDIX A

FIELD PROCEDURES

GENERAL

Field activities were performed on January 22, 23, and 24, 2019 and included collecting soil samples from 28 direct-push borings (DP-1 through DP-28) and 3 hand auger borings (HA-1 through HA-3). The direct-push borings were completed using drilling equipment owned and operated by ESN Northwest, Inc. of Olympia, Washington. The hand auger borings were completed using equipment owned and operated by GeoDesign. The borings were advanced to the following depths:

- DP-1 through DP-9, DP-11 through DP-15, DP-17 through DP-24, DP-26, and DP-28 were advanced to 15.0 feet BGS.
- DP-10 was advanced to 20.0 feet BGS.
- DP-16 and DP-25 were advanced to 30.0 feet BGS.
- DP-27 was advanced to 25.0 feet BGS.
- HA-1 and HA-2 were advanced to 1.0 foot BGS.
- HA-3 was advanced to 5.5 feet BGS.

The locations of the borings are shown on Figure 3. A GeoDesign field representative observed the drilling activities and collected soil samples from the borings. The soil encountered in the borings was visually classified in general accordance with ASTM D2488.

SOIL SAMPLING

Continuous soil samples were collected from the direct-push borings. Soil samples collected from the direct-push borings were collected from 2-inch-diameter, 60-inch-long samplers lined with acrylic sleeves. Soil samples collected from the hand-augered borings were collected directly from the sampling bucket. Soil samples were placed in laboratory-supplied containers and immediately placed in an ice chest and kept cool until delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

SOIL SAMPLE FIELD SCREENING METHODS

A GeoDesign representative performed field screening tests on select soil samples collected from the direct-push borings. Field screening results aided in the selection of soil samples for chemical analysis. Screening methods included visual examination, water sheen screening, and headspace vapor screening using a MiniRAE 3000 PID.

Visual screening consisted of inspecting the soil for discoloration indicative of the presence of petroleum contamination in the sample. Water sheen screening involved placing soil in water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen	No visible sheen on the water surface.
Slight Sheen	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening is performed by placing a soil sample in a plastic bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a MiniRAE 3000 PID is inserted into the bag, and the MiniRAE PID measures VOC vapor concentrations in units of ppm. The MiniRAE 3000 PID is calibrated to isobutylene. The MiniRAE PID is designed to quantify VOC vapor concentrations in the range between 10 and 2,000 ppm with an accuracy of 2 percent of the reading and between 2,000 and 10,000 ppm with an accuracy of 20 percent of the reading.

Field screening results are site and exploration specific. The results may vary with temperature, soil moisture content, soil type, and type of contaminant.

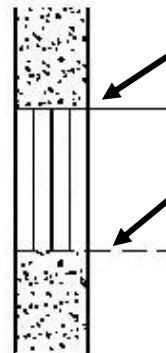
DECONTAMINATION

All sampling equipment used in the collection of samples was decontaminated prior to use. Decontamination was performed on all sample re-usable processing equipment that came into contact with sampling media, including tools, stainless steel implements, trowels, etc. Decontamination was performed prior to sampling each location using the following procedures:

1. Rinsed with tap water and scrubbed with a scrub brush until free of large particles (e.g., sediment or soil)
2. Washed with phosphate-free (Alconox™) detergent solution
3. Rinsed with tap water
4. Rinsed with distilled water

IDW MANAGEMENT

IDW from the borings (soil cuttings and decontamination water) was placed into a 55-gallon drum and left on the project site pending disposal.

SYMBOL	SAMPLING DESCRIPTION		
	Location of sample collected in general accordance with ASTM D1586 using Standard Penetration Test with recovery		
	Location of sample collected using thin-wall Shelby tube or Geoprobe® sampler in general accordance with ASTM D1587 with recovery		
	Location of sample collected using Dames & Moore sampler and 300-pound hammer or pushed with recovery		
	Location of sample collected using Dames & Moore sampler and 140-pound hammer or pushed with recovery		
	Location of sample collected using 3-inch-O.D. California split-spoon sampler and 140-pound hammer with recovery		
	Location of grab sample		
	Rock coring interval		
	Water level during drilling		
	Water level taken on date shown		
Graphic Log of Soil and Rock Types  Observed contact between soil or rock units (at depth indicated) Inferred contact between soil or rock units (at approximate depths indicated)			
GEOTECHNICAL TESTING EXPLANATIONS			
ATT	Atterberg Limits	P	Pushed Sample
CBR	California Bearing Ratio	PP	Pocket Penetrometer
CON	Consolidation	P200	Percent Passing U.S. Standard No. 200 Sieve
DD	Dry Density		
DS	Direct Shear	RES	Resilient Modulus
HYD	Hydrometer Gradation	SIEV	Sieve Gradation
MC	Moisture Content	TOR	Torvane
MD	Moisture-Density Relationship	UC	Unconfined Compressive Strength
NP	Non-Plastic	VS	Vane Shear
OC	Organic Content	kPa	Kilopascal
ENVIRONMENTAL TESTING EXPLANATIONS			
CA	Sample Submitted for Chemical Analysis	ND	Not Detected
P	Pushed Sample	NS	No Visible Sheen
PID	Photoionization Detector Headspace Analysis	SS	Slight Sheen
		MS	Moderate Sheen
ppm	Parts per Million	HS	Heavy Sheen
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		EXPLORATION KEY	
		TABLE A-1	

RELATIVE DENSITY - COARSE-GRAINED SOIL									
Relative Density		Standard Penetration Resistance		Dames & Moore Sampler (140-pound hammer)		Dames & Moore Sampler (300-pound hammer)			
Very Loose		0 – 4		0 – 11		0 – 4			
Loose		4 – 10		11 – 26		4 – 10			
Medium Dense		10 – 30		26 – 74		10 – 30			
Dense		30 – 50		74 – 120		30 – 47			
Very Dense		More than 50		More than 120		More than 47			
CONSISTENCY - FINE-GRAINED SOIL									
Consistency		Standard Penetration Resistance		Dames & Moore Sampler (140-pound hammer)		Dames & Moore Sampler (300-pound hammer)		Unconfined Compressive Strength (tsf)	
Very Soft		Less than 2		Less than 3		Less than 2		Less than 0.25	
Soft		2 – 4		3 – 6		2 – 5		0.25 – 0.50	
Medium Stiff		4 – 8		6 – 12		5 – 9		0.50 – 1.0	
Stiff		8 – 15		12 – 25		9 – 19		1.0 – 2.0	
Very Stiff		15 – 30		25 – 65		19 – 31		2.0 – 4.0	
Hard		More than 30		More than 65		More than 31		More than 4.0	
PRIMARY SOIL DIVISIONS				GROUP SYMBOL		GROUP NAME			
COARSE-GRAINED SOIL (more than 50% retained on No. 200 sieve)		GRAVEL (more than 50% of coarse fraction retained on No. 4 sieve)		CLEAN GRAVEL (< 5% fines)		GW or GP		GRAVEL	
				GRAVEL WITH FINES (≥ 5% and ≤ 12% fines)		GW-GM or GP-GM		GRAVEL with silt	
						GW-GC or GP-GC		GRAVEL with clay	
				GRAVEL WITH FINES (> 12% fines)		GM		silty GRAVEL	
						GC		clayey GRAVEL	
						GC-GM		silty, clayey GRAVEL	
		SAND (50% or more of coarse fraction passing No. 4 sieve)		CLEAN SAND (<5% fines)		SW or SP		SAND	
				SAND WITH FINES (≥ 5% and ≤ 12% fines)		SW-SM or SP-SM		SAND with silt	
						SW-SC or SP-SC		SAND with clay	
				SAND WITH FINES (> 12% fines)		SM		silty SAND	
						SC		clayey SAND	
						SC-SM		silty, clayey SAND	
				FINE-GRAINED SOIL (50% or more passing No. 200 sieve)		Liquid limit less than 50		ML	
CL		CLAY							
CL-ML		silty CLAY							
OL		ORGANIC SILT or ORGANIC CLAY							
Liquid limit 50 or greater		MH				SILT			
		CH				CLAY			
		OH				ORGANIC SILT or ORGANIC CLAY			
		PT				PEAT			
HIGHLY ORGANIC SOIL									
MOISTURE CLASSIFICATION			ADDITIONAL CONSTITUENTS						
Term		Field Test		Secondary granular components or other materials such as organics, man-made debris, etc.					
				Silt and Clay In:		Sand and Gravel In:			
dry		very low moisture, dry to touch		Percent		Fine-Grained Soil		Coarse-Grained Soil	
				Percent		Fine-Grained Soil		Coarse-Grained Soil	
moist		damp, without visible moisture		< 5		trace		trace	
				5 – 12		minor		with	
wet		visible free water, usually saturated		> 12		some		silty/clayey	
				> 30		sandy/gravelly		Indicate %	
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com			SOIL CLASSIFICATION SYSTEM					TABLE A-2	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (6.0 inches). AGGREGATE BASE (2.0 inches). Brown SILT with sand (ML); moist.	0.5 0.7	CA	P		NS DP-1(1.5-2.5) NS PID = 0.3 ppm PID = 0.3 ppm NS PID = 0.3 ppm
5		trace gravel at 6.0 feet Brown SAND with silt (SP-SM); moist.	7.0	CA	P		NS PID = 0.3 ppm NS PID = 0.6 ppm DP-1(8-9.5) PID = 0.6 ppm NS
10		Brown, silty SAND (SM); moist.	11.0		P		NS PID = 0.4 ppm NS PID = 0.5 ppm NS PID = 0.8 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-1				
		APRIL 2019	MODERA SLABTOWN PORTLAND, OR		FIGURE A-1		

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19-KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (6.0 inches).					
0.5		AGGREGATE BASE (6.0 inches).	0.5	CA			DP-2(1-2) NS PID = 0.3 ppm
1.0		Brown SILT with sand (ML); moist.	1.0		P		NS PID = 0.3 ppm
5							
6.5		Brown, silty SAND (SM); moist.	6.5	CA	P		NS PID = 0.2 ppm DP-2(6.5-7.5) NS PID = 0.2 ppm
10							NS PID = 0.2 ppm
11.0		Brown SAND (SP); moist.	11.0		P		NS PID = 0.1 ppm NS PID = 0.1 ppm NS PID = 0.1 ppm NS PID = 0.2 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-2				
APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-2		

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (4.0 inches).					
		Brown SILT with sand (ML); moist.	0.3	CA			NS PID = 0.2 ppm DP-3(1.5-3) NS PID = 0.2 ppm
		trace clay at 2.5 feet			P		PID = 0.2 ppm
		without clay at 4.5 feet					
5							
		Brown, silty SAND (SM); moist.	6.5	CA			NS PID = 0.2 ppm DP-3(6.5-8) NS PID = 0.2 ppm NS PID = 0.2 ppm
					P		
10							
		Brown SILT with sand (ML); moist.	12.0		P		NS PID = 0.1 ppm NS PID = 0.1 ppm
		Brown, silty SAND (SM); moist.	13.0				NS PID = 0.2 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
GEODESIGN INC 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02		BORING DP-3			
APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-3			

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (4.0 inches).	0.3	CA			DP-4(1.5-3) NS PID = 0.2 ppm
5		Brown SILT with sand (ML), trace clay; moist.	5.0	CA			NS PID = 0.2 ppm
10		Brown, silty SAND (SM); moist.					DP-4(5-6.5) NS PID = 0.1 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				NS PID = 0.1 ppm
20							NS PID = 0.1 ppm
25							PID = 0.1 ppm
30							Surface elevation was not measured at the time of exploration.
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
GEODESIGN 9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02		BORING DP-4			
APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-4			

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (4.0 inches). AGGREGATE BASE (4.0 inches). Brown SILT with sand (ML); moist.	0.3 0.7	CA	P		PID = 0.1 ppm DP-5(1.5-3) SS SS PID = 0.1 ppm
5		Brown, silty SAND (SM); moist.	6.5	CA	P		PID = 0.1 ppm NS PID = 0.1 ppm DP-5(6.5-8) NS NS PID = 0.1 ppm
10					P		NS PID = 0.1 ppm NS PID = 0.1 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				PID = 0.1 ppm Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-5				
APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-5			

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (6.0 inches).	0.5				
0.5		AGGREGATE BASE (6.0 inches).	1.0	CA	P		DP-6(1-2.5) SS PID = 2.7 ppm
1.0		Brown SILT with sand (ML), trace clay; moist. brown with gray mottles at 2.5 feet					PID = 3.6 ppm
5		Brown, silty SAND (SM); moist.	5.0	CA	P		DP-6(5-6.5) NS PID = 0.2 ppm
10					P		NS PID = 0.2 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0		P		NS PID = 0.1 ppm NS PID = 0.1 ppm PID = 0.1 ppm
20							Surface elevation was not measured at the time of exploration.
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-6				
		APRIL 2019	MODERA SLABTOWN PORTLAND, OR				
		FIGURE A-6					

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		ASPHALT CONCRETE (6.0 inches).					
0.5		AGGREGATE BASE (6.0 inches).	0.5				
1.0		Brown SILT with sand (ML); moist.	1.0	CA	P		PID = 0.2 ppm DP-7(2-3) NS PID = 0.6 ppm
1.5		Brown, sandy SILT with gravel (MH); moist.	1.5				
5		layer of GRAVEL (6 inches thick) at 5.5 feet		CA	P		NS PID = 0.4 ppm DP-7(6-7.5) NS PID = 0.4 ppm
10		Gray SILT with sand (ML), trace clay; moist.	11.0	CA	P		SS PID = 412 ppm DP-7(11-12) SS PID = 880 ppm SS PID = 232 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/22/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-7				
		APRIL 2019	MODERA SLABTOWN PORTLAND, OR		FIGURE A-7		

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT MOISTURE CONTENT % RQD% CORE REC%			INSTALLATION AND COMMENTS		
						0	50	100			
0		ASPHALT CONCRETE (6.0 inches). AGGREGATE BASE (6.0 inches). Brown SILT with sand (ML), trace clay; moist.	0.5 1.0	CA					DP-8(1-2.5) NS PID = 0.4 ppm PID = 0.4 ppm NS PID = 0.4 ppm		
5		Brown, silty SAND (SM); moist.	6.0	CA					PID = 0.2 ppm DP-8(6-7.5) NS NS PID = 0.2 ppm		
10											NS PID = 0.3 ppm PID = 0.4 ppm
15											Surface elevation was not measured at the time of exploration.
20		Exploration completed at a depth of 15.0 feet.	15.0								
25											
30											
35											
40											
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge			COMPLETED: 01/22/19						
BORING METHOD: direct push (see document text)					BORING BIT DIAMETER: 2 1/4 inches						
GEODESIGN INC		MILLCREEK-15-02		BORING DP-8							
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-8				

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT		MOISTURE CONTENT %		INSTALLATION AND COMMENTS		
						RQD%	CORE REC%					
0		CONCRETE (6.0 inches).	0.5	CA	P					DP-9(1-2.5) NS PID = 0.1 ppm		
		AGGREGATE BASE (6.0 inches).	1.0									
5		Brown SILT with sand (ML); moist.		CA	P					PID = 0.1 ppm		
		Brown, silty SAND (SM); moist.	6.0									
10				CA	P					DP-9(6-7.5) NS PID = 0.1 ppm		
15		Exploration completed at a depth of 15.0 feet.	15.0	CA	P					NS PID = 0.1 ppm		
20				CA	P					NS PID = 0.1 ppm		
25				CA	P					NS PID = 0.1 ppm		
30				CA	P					NS PID = 0.1 ppm		
35				CA	P					NS PID = 0.1 ppm		
40				CA	P					NS PID = 0.1 ppm		

DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19	
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches	
GEODESIGN INC		MILLCREEK-15-02		BORING DP-9	
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR	
				FIGURE A-9	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (7.0 inches).					
0.6		Brown SAND (SP); moist.	0.6	CA			DP-10(0.5-2)
1.0		Brown SILT with sand (ML); moist.	1.0		P		PID = 0.3 ppm
5							
6.5		Brown, silty SAND (SM); moist.	6.5	CA	P		NS PID = 0.3 ppm PID = 0.4 ppm NS DP-10(7-8.5) NS PID = 0.8 ppm
10							
12.5		Gray SILT with sand (ML); moist.	12.5	CA	P		NS PID = 0.3 ppm
13.5		Brown, silty SAND (SM); moist.	13.5				PID = 633 ppm DP-10(12.5-13.5) SS NS PID = 64 ppm
15		Brown SAND with silt (SP-SM); moist.	15.0	CA	P		SS PID = 529 ppm NS PID = 9.0 ppm DP-10(17-18.5) NS PID = 1.1 ppm NS PID = 1.1 ppm
20		Exploration completed at a depth of 20.0 feet.	20.0				Surface elevation was not measured at the time of exploration.
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
		MILLCREEK-15-02	BORING DP-10				
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019	MODERA SLABTOWN PORTLAND, OR			FIGURE A-10	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (7.0 inches).					
0.6		Brown SAND with silt and gravel (SP-SM); moist.	0.6	CA			DP-11(1-2) NS PID = 1.9 ppm
1.0		Brown SILT with sand (ML); moist.	1.0		P		
3.5		Brown, silty SAND (SM); moist.	3.5				PID = 1.2 ppm
6.0		Brown SAND with silt (SP-SM); moist.	6.0	CA	P		NS PID = 0.4 ppm
10					P		NS PID = 0.3 ppm DP-11(8-9) NS PID = 0.4 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0		P		PID = 1.8 ppm
20							Surface elevation was not measured at the time of exploration.
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-11				
		APRIL 2019	MODERA SLABTOWN PORTLAND, OR				FIGURE A-11

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS
						0	100	
0		CONCRETE (7.0 inches).						
0.6		Brown, silty SAND (SM); moist.	0.6	CA				DP-12(1-2)
1.0		Brown SILT with sand (ML); moist.	1.0		P			NS PID = 0.2 ppm
2.0		Brown, silty SAND (SM); moist.	2.0					PID = 0.2 ppm
5								NS PID = 0.3 ppm
10				CA	P			NS PID = 0.2 ppm DP-12(8-9) NS PID = 0.2 ppm
12.0		Brown SAND with silt (SP-SM); moist.	12.0					NS PID = 0.3 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0					PID = 0.4 ppm Surface elevation was not measured at the time of exploration.
20								
25								
30								
35								
40								
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19				
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches				
GEODESIGN INC 9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02		BORING DP-12				
		APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-12		

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT		MOISTURE CONTENT %		RQD%	CORE REC%	INSTALLATION AND COMMENTS
						▲	●					
0		CONCRETE (7.0 inches).										
0.6		Brown, silty SAND (SM); moist.	0.6	CA								DP-13(1-2) NS PID = 0.4 ppm
1.5		Brown SILT with sand (ML); moist.	1.5		P							PID = 0.2 ppm
5												
6.0		Brown, silty SAND (SM), trace gravel; moist.	6.0		P							NS PID = 0.1 ppm
7.0		Brown SILT with sand (ML); moist.	7.0	CA								DP-13(8-9.5) NS PID = 0.4 ppm
8.5		Brown, silty SAND (SM); moist.	8.5									NS PID = 0.1 ppm
10		trace gravel at 10.5 feet										PID = 0.4 ppm
12.5		Brown SAND with silt and gravel (SP- SM); moist.	12.5		P							Surface elevation was not measured at the time of exploration.
15		Exploration completed at a depth of 15.0 feet.	15.0									
20												
25												
30												
35												
40												
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/23/19												
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches												
GEODESIGN INC.		MILLCREEK-15-02		BORING DP-13								
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR					FIGURE A-13			

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS
						0	100	
0		CONCRETE (7.0 inches).						
		Gray-brown, silty SAND (SM); moist.	0.6	CA				DP-14(0.5-2)
		Brown SILT with sand (ML); moist.	2.5		P			
5								NS PID = 0.2 ppm
		Brown, silty SAND (SM); moist.	8.5	CA	P			DP-14(8.5-10)
10		trace gravel at 11.0 feet						NS PID = 0.2 ppm
		Brown SAND with silt and gravel (SP-SM); moist.	12.0		P			
15		Exploration completed at a depth of 15.0 feet.	15.0					Surface elevation was not measured at the time of exploration.
20								
25								
30								
35								
40								
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/23/19								
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches								
GEODESIGN INC		MILLCREEK-15-02		BORING DP-14				
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-14	

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19-KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (7.0 inches).					
0.6		Brown, silty SAND (SM); moist.	0.6	CA			DP-15(1-2) NS PID = 0.1 ppm
1.5		Brown SILT with sand (ML); moist.	1.5		P		PID = 0.1 ppm NS PID = 0.1 ppm
5							NS PID = 0.1 ppm
8.5		Brown, silty SAND (SM); moist.	8.5	CA	P		PID = 0.1 ppm NS DP-15(8.5-10) NS PID = 0.3 ppm NS PID = 0.3 ppm
13.0		Brown SAND with silt (SP-SM); moist.	13.0		P		NS PID = 0.3 ppm
15.0		Exploration completed at a depth of 15.0 feet.	15.0				PID = 0.3 ppm Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
GEODESIGN 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02		BORING DP-15			
APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-15			

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT			MOISTURE CONTENT %			INSTALLATION AND COMMENTS	
						RQD%			CORE REC%				
0		ASPHALT CONCRETE (2.0 inches).	0.2	CA	P							DP-16(1-2) NS PID = 0.3 ppm PID = 0.3 ppm	
		AGGREGATE BASE (8.0 inches).	0.8										
		Brown SILT with sand (ML); moist.											
5				CA	P							NS PID = 0.2 ppm DP-16(6-7.5) NS NS PID = 0.2 ppm NS PID = 0.2 ppm	
		Brown, silty SAND (SM); moist.	6.0										
		Brown SAND with silt (SP-SM); moist.	7.5										
10				P	P							NS PID = 0.2 ppm NS PID = 0.3 ppm PID = 0.3 ppm	
15				P	P							NS PID = 0.2 ppm NS PID = 0.3 ppm PID = 0.4 ppm	
		wet at 16.0 feet											
20				P	P							PID = 0.3 ppm PID = 0.2 ppm PID = 0.4 ppm	
25				P	P							PID = 0.4 ppm PID = 0.4 ppm PID = 0.4 ppm	
30		Brown SILT with sand (ML); moist.	28.5									PID = 0.4 ppm Surface elevation was not measured at the time of exploration.	
		Exploration completed at a depth of 30.0 feet.	30.0										
35													
40													
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/23/19									
BORING METHOD: direct push (see document text)		BORING BIT DIAMETER: 2 1/4 inches											
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-16									
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR					FIGURE A-16				

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS
						0	100	
0		ASPHALT CONCRETE (6.0 inches). AGGREGATE BASE (6.0 inches). Gray SILT with sand (ML); moist. brown with red mottles at 2.0 feet	0.5 1.0	CA				DP-17(1-2.5) NS PID = 0.3 ppm
5								NS PID = 0.3 ppm PID = 0.1 ppm
								NS PID = 0.1 ppm
								NS PID = 0.2 ppm
10		Brown, silty SAND (SM); moist.	8.5	CA				DP-17(9-10) NS PID = 0.1 ppm
		Brown SILT with sand (ML); moist.	10.0					NS PID = 0.1 ppm NS PID = 0.1 ppm
		Brown, silty SAND (SM); moist.	12.5					PID = 0.1 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0					Surface elevation was not measured at the time of exploration.
20								
25								
30								
35								
40								
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/24/19								
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches								
GEODESIGN INC.		MILLCREEK-15-02		BORING DP-17				
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-17	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%			INSTALLATION AND COMMENTS
0						0	50	100	
		ASPHALT CONCRETE (5.0 inches). Brown SILT with sand (ML); moist. brown with red mottles at 2.5 feet	0.4	CA	P				NS PID = 0.1 ppm DP-18(2-3) PID = 0.1 ppm
5									NS PID = 0.1 ppm
		Brown, silty SAND (SM); moist.	6.5	CA	P				NS PID = 0.1 ppm DP-18(6.5-8) NS PID = 0.1 ppm PID = 0.1 ppm
10									NS PID = 0.1 ppm NS PID = 0.1 ppm
		lens of gravel at 11.0 feet			P				PID = 0.2 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0						Surface elevation was not measured at the time of exploration.
20									
25									
30									
35									
40									
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/24/19									
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches									
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-18					
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR				FIGURE A-18	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT		MOISTURE CONTENT %		RQD%	CORE REC%	INSTALLATION AND COMMENTS
						▲	●					
0		CONCRETE (6.0 inches).										
0.5		Brown SILT with sand (ML); moist.	0.5	CA								NS DP-19(1-2) NS PID = 0.0 ppm
		trace to without sand at 3.0 feet										PID = 0.0 ppm
5												
6.0		Brown SAND with silt (SP-SM); moist.	6.0	CA								NS PID = 0.0 ppm
												DP-19(8-9) NS PID = 0.0 ppm
10		Gray SAND (SP), trace silt; moist.	10.0									NS PID = 0.0 ppm
		wet at 12.5 feet moist at 13.0 feet										PID = 0.0 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0									Surface elevation was not measured at the time of exploration.
20												
25												
30												
35												
40												
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/24/19												
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches												
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-19								
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR					FIGURE A-19			

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19-KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS
						0	100	
0		ASPHALT CONCRETE (6.0 inches).						
0.5		Brown SILT with sand (ML); moist. brown with red mottles at 1.5 feet	0.5	CA	P			DP-20(1-2) NS PID = 0.3 ppm PID = 0.1 ppm
5								
6.5		Brown, silty SAND (SM); moist.	6.5	CA	P			NS PID = 0.2 ppm DP-20(6.5-8) BS PID = 0.2 ppm NS PID = 0.2 ppm
10					P			NS PID = 0.3 ppm NS PID = 0.2 ppm PID = 0.3 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0					Surface elevation was not measured at the time of exploration.
20								
25								
30								
35								
40								
DRILLED BY: ESN Northwest, Inc. LOGGED BY: A. DeJonge COMPLETED: 01/24/19								
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches								
GEODESIGN INC		MILLCREEK-15-02		BORING DP-20				
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR				FIGURE A-20

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	BLOW COUNT MOISTURE CONTENT % RQD% CORE REC%			INSTALLATION AND COMMENTS
						0	50	100	
0		CONCRETE (6.0 inches).							
0.5		Brown with gray mottled SILT (ML), minor sand; moist. brown at 2.0 feet	0.5	CA	P				DP-21(0.5-1.5) NS PID = 0.0 ppm
5		Brown, silty SAND (SM); moist.	5.0	CA	P				NS PID = 0.0 ppm
10					P				DP-21(7-8) NS PID = 0.0 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0		P				NS PID = 0.0 ppm
20									PID = 0.0 ppm
25									NS
30									
35									
40									
DRILLED BY: ESN Northwest, Inc. LOGGED BY: T. Hainley COMPLETED: 01/24/19									
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches									
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-21					
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR				FIGURE A-21	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS
						0	100	
0		CONCRETE (6.0 inches).						
0.5		Gray-brown with orange mottled SILT (ML), trace sand; moist.	0.5	CA				NS PID = 0.0 ppm DP-22(1.5-2.5) NS NS PID = 1.5 ppm
5		gray-brown at 5.0 feet						
8.0		Brown SAND with silt (SP-SM); moist.	8.0	CA				NS PID = 0.0 ppm DP-22(8-9) NS PID = 1.0 ppm
11.5		wet at 11.5 feet						NS PID = 0.0 ppm
12.0		moist at 12.0 feet						NS PID = 0.0 ppm
13.0		Brown SAND (SP); moist.	13.0					PID = 1.3 ppm
15.0		Exploration completed at a depth of 15.0 feet.	15.0					Surface elevation was not measured at the time of exploration.
20								
25								
30								
35								
40								
DRILLED BY: ESN Northwest, Inc. LOGGED BY: T. Hainley COMPLETED: 01/24/19								
BORING METHOD: direct push (see document text) BORING BIT DIAMETER: 2 1/4 inches								
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-22				
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-22	

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (6.0 inches).					
0.6		AGGREGATE BASE (5.0 inches).	0.6	CA			DP-23(1-2) NS PID = 0.2 ppm
0.9		Brown SILT with sand (ML); moist.	0.9		P		
5		Brown, silty SAND (SM); moist.	4.0				NS PID = 0.2 ppm
							PID = 0.2 ppm
				CA	P		NS PID = 0.3 ppm DP-23(8-9.5) NS PID = 0.2 ppm
10					P		NS PID = 0.3 ppm NS PID = 0.3 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				PID = 0.2 ppm Surface elevation was not measured at the time of exploration.
20							
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/24/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-23				
APRIL 2019		MODERA SLABTOWN PORTLAND, OR				FIGURE A-23	

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (6.0 inches).					
0.5		Brown with gray mottled SILT with sand (ML); moist.	0.5	CA			DP-24(0.5-1.5) NS PID = 0.0 ppm
5		brown at 2.5 feet					PID = 0.5 ppm
9.5		Gray-brown, silty SAND (SM); moist.	9.5	CA			DP-24(7.5-8.5) NS PID = 0.4 ppm
15		Exploration completed at a depth of 15.0 feet.	15.0				NS PID = 0.0 ppm
15							PID = 0.0 ppm
20							Surface elevation was not measured at the time of exploration.
25							
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: T. Hainley		COMPLETED: 01/24/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
GEODESIGN INC 9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		MILLCREEK-15-02	BORING DP-24				
		APRIL 2019	MODERA SLABTOWN PORTLAND, OR		FIGURE A-24		

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%			INSTALLATION AND COMMENTS
						0	50	100	
0		ASPHALT CONCRETE (6.0 inches).							
0.5		AGGREGATE BASE (6.0 inches).	0.5	CA					DP-25(1-2) NS PID = 2.4 ppm
1.0		Gray-blue SILT with sand (ML); moist.	1.0		P				NS PID = 2.2 ppm
5									PID = 2.3 ppm PID = 1.7 ppm
					P				NS PID = 1.5 ppm
10		brown at 9.5 feet							PID = 1.4 ppm PID = 1.3 ppm
				CA	P				DP-25(12-13) NS PID = 1.2 ppm
12.0		Brown, silty SAND (SM); moist.	12.0						NS PID = 0.8 ppm
15.0		Gray-blue SILT with sand (ML); moist.	15.0						PID = 1.1 ppm
17.0		Brown, silty SAND (SM); moist.	17.0		P				NS PID = 1.1 ppm
20									NS PID = 1.3 ppm NS PID = 1.4 ppm
		Brown SILT with sand (ML); moist to wet.	21.0						NS PID = 1.2 ppm
		Brown, silty SAND (SM); moist.	22.0		P				NS PID = 1.1 ppm NS PID = 1.3 ppm NS PID = 1.2 ppm NS PID = 1.1 ppm NS PID = 1.3 ppm
25		wet at 26.0 feet							NS PID = 1.3 ppm NS PID = 1.2 ppm
					P				NS PID = 1.1 ppm NS PID = 1.3 ppm
30		Gray-blue GRAVEL with silt and sand (GP-GM); moist.	29.5						NS PID = 1.3 ppm NS PID = 1.2 ppm
30.0		Exploration completed at a depth of 30.0 feet.	30.0						Surface elevation was not measured at the time of exploration.
35									
40									
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/24/19					
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches					
GEO DESIGN INC.		MILLCREEK-15-02		BORING DP-25					
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR				FIGURE A-25	

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%			INSTALLATION AND COMMENTS
0		Gray GRAVEL with sand (GP); dry - FILL. Brown with gray mottled SILT (ML); moist.	0.5	CA		0	50	100	NS PID = 0.0 ppm DP-26(1-2) NS PID = .00 ppm
5		Brown, silty SAND (SM); moist.	5.0						NS PID = 0.0 ppm
		Brown SAND with silt (SP-SM); moist.	6.5	CA					DP-26(7-8) NS PID = 0.0 ppm
10		Brown, silty SAND (SM); wet. moist at 11.5 feet	11.0						PID = 0.0 ppm PID = 0.0 ppm
15		Exploration completed at a depth of 15.0 feet	15.0						Surface elevation was not measured at the time of exploration.
20									
25									
30									
35									
40									
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: T. Hainley			COMPLETED: 01/24/19				
BORING METHOD: direct push (see document text)					BORING BIT DIAMETER: 2 1/4 inches				
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-26					
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR			FIGURE A-26		

BORING LOG MILLCREEK-15-02-DP1_28.GPJ GEODESIGN.GDT PRINT DATE: 4/22/19:KM:KT

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%	INSTALLATION AND COMMENTS
0		CONCRETE (6.0 inches).					
0.5		Brown with orange mottled SILT (ML); moist.	0.5	CA			DP-27(1-2) NS PID = 0.0 ppm
		brown at 2.0 feet					
		trace sand at 3.0 feet					
5		with gravel at 5.5 feet					PID = 0.0 ppm
							PID = 0.0 ppm
		Brown, silty SAND (SM); moist.	8.0				PID = 0.1 ppm
10		Brown SILT (ML), trace to minor sand; moist.	10.5				
		Brown, silty SAND (SM); wet.	12.0				
				CA			DP-27(14-15) NS PID = 0.0 ppm
15							PID = 0.0 ppm
		moist at 19.0 feet					
20		Brown SAND with silt and gravel (SP-SM); moist.	20.0				NS PID = 0.0 ppm
		Brown, silty SAND (SM); moist.	21.0				PID = 0.0 ppm
25		Exploration completed at a depth of 25.0 feet.	25.0				Surface elevation was not measured at the time of exploration.
30							
35							
40							
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: T. Hainley		COMPLETED: 01/24/19			
BORING METHOD: direct push (see document text)				BORING BIT DIAMETER: 2 1/4 inches			
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-27			
9450 SW Commerce Circle - Suite 300 Wilsonville OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-27	

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC%		INSTALLATION AND COMMENTS		
						0	100			
0		CONCRETE (6.0 inches).	0.5	CA	P			DP-28(1-2) NS PID = 1.0 ppm NS PID = 0.9 ppm PID = 1.0 ppm		
		AGGREGATE BASE (6.0 inches).	1.0							
		Brown SAND (SP); moist.	1.5							
		Brown SILT with sand (ML); moist.								
5										
		Gray-brown GRAVEL with silt and sand (GP-GM); moist.	5.5	CA	P			NS PID = 0.1 ppm NS PID = 0.2 ppm NS PID = 0.1 ppm DP-28(8-9) NS PID = 0.7 ppm		
		Brown, silty SAND (SM); moist.	7.0							
10										
		Brown SILT with sand (ML); moist.	10.0							
		Gray-brown GRAVEL with silt and sand (GP-GM); moist.	10.5		P			NS PID = 0.2 ppm NS PID = 0.2 ppm NS PID = 0.2 ppm NS PID = 0.2 ppm NS PID = 0.2 ppm		
		Brown SILT with sand (ML); moist.	11.5							
		Gray-brown GRAVEL with silt and sand (GP-GM); moist.	12.0							
		Brown, silty SAND (SM); moist.	12.5							
15		Exploration completed at a depth of 15.0 feet.	15.0					Surface elevation was not measured at the time of exploration.		
20										
25										
30										
35										
40										
DRILLED BY: ESN Northwest, Inc.		LOGGED BY: A. DeJonge		COMPLETED: 01/24/19						
BORING METHOD: direct push (see document text)						BORING BIT DIAMETER: 2 1/4 inches				
GEO DESIGN INC		MILLCREEK-15-02		BORING DP-28						
9450 SW Commerce Circle - Suite 300 Wilsonville, OR 97070 503.968.8787 www.geodesigninc.com		APRIL 2019		MODERA SLABTOWN PORTLAND, OR		FIGURE A-28				

APPENDIX B

APPENDIX B

CHEMICAL ANALYTICAL PROGRAM

GENERAL

Chain-of-custody procedures were followed during handling and transport of the soil samples to the analytical laboratory. The laboratory holds the samples in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference, and laboratory QC records are presented in this appendix. The analytical results also are summarized in the tables of this report.

REVIEW OF ANALYTICAL DATA

The analytical laboratories used for this project maintain an internal quality assurance programs consisting of a combination of the following:

Blanks: Blanks are laboratory-prepared water samples that are free of contaminants. The blanks are carried through the analysis procedure along with the field samples to document that contaminants were not introduced to the samples during sample handling and analysis.

Surrogate Recoveries: Surrogates are organic compounds that are similar in nature to the analytes of concern but are not normally found in nature. The surrogates are added to QC and field samples prior to analysis. The percent recovery of the surrogate is calculated to demonstrate acceptable method performance.

Duplicates: Duplicates are obtained by splitting a sample into two parts. The two separate parts are carried through the analyses. The analytical results are then compared by calculating the RPD between the samples.

MS/MSD Recoveries: An MS sample is a sample that has been split into a second portion. The MSD is obtained by further splitting the MS sample. A known concentration of the analyte of interest is added to the MS and MSD samples. The analytical results for both samples are then compared for RPD and percent recovery to demonstrate acceptable method performance.

BS/BSD Recoveries: BS and BSD samples are obtained and analyzed in the same procedure as the MS/MSD samples; however, the laboratory blank sample is used to obtain the BS/BSD samples. The percent recovery and RPD of the known concentration of analyte of interest added to the BS/BSD sample is calculated after chemical analyses to demonstrate acceptable method performance.

SUMMARY OF ANALYTICAL DATA REVIEW

GeoDesign reviewed the attached analytical data reports for data quality exceptions and deviations from acceptable method performance criteria. Based on our review of the analytical reports, the analytical data appear acceptable for their intended use.



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Thursday, February 14, 2019

Kyle Sattler
GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

RE: A9A0689 - Modera Slabtown - MillCreek-15-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9A0689, which was received by the laboratory on 1/23/2019 at 5:42:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.8 degC	Cooler #2	1.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**Apex Laboratories, LLC**

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-1(1.5-2.5)	A9A0689-01	Soil	01/22/19 10:45	01/23/19 17:42
DP-1(8-9.5)	A9A0689-03	Soil	01/22/19 10:45	01/23/19 17:42
DP-2(1-2)	A9A0689-05	Soil	01/22/19 11:15	01/23/19 17:42
DP-2(6.5-7.5)	A9A0689-07	Soil	01/22/19 11:15	01/23/19 17:42
DP-3(1.5-3)	A9A0689-09	Soil	01/22/19 12:15	01/23/19 17:42
DP-3(6.5-8)	A9A0689-11	Soil	01/22/19 12:15	01/23/19 17:42
DP-4(1.5-3)	A9A0689-13	Soil	01/22/19 13:00	01/23/19 17:42
DP-4(5-6.5)	A9A0689-15	Soil	01/22/19 13:00	01/23/19 17:42
DP-5(1.5-3)	A9A0689-17	Soil	01/22/19 13:45	01/23/19 17:42
DP-5(6.5-8)	A9A0689-19	Soil	01/22/19 13:45	01/23/19 17:42
DP-6(1-2.5)	A9A0689-21	Soil	01/22/19 14:30	01/23/19 17:42
DP-6(5-6.5)	A9A0689-23	Soil	01/22/19 14:30	01/23/19 17:42
DP-7(2-3)	A9A0689-26	Soil	01/22/19 15:15	01/23/19 17:42
DP-7(6-7.5)	A9A0689-27	Soil	01/22/19 15:15	01/23/19 17:42
DP-7(11-12)	A9A0689-28	Soil	01/22/19 15:15	01/23/19 17:42
DP-8(1-2.5)	A9A0689-29	Soil	01/22/19 16:00	01/23/19 17:42
DP-8(6-7.5)	A9A0689-31	Soil	01/22/19 16:00	01/23/19 17:42
DP-9(1-2.5)	A9A0689-33	Soil	01/22/19 16:45	01/23/19 17:42
DP-9(6-7.5)	A9A0689-35	Soil	01/22/19 16:45	01/23/19 17:42
DP-10(0.5-2)	A9A0689-37	Soil	01/23/19 10:00	01/23/19 17:42
DP-10(7-8.5)	A9A0689-39	Soil	01/23/19 10:00	01/23/19 17:42
DP-10(12.5-13.5)	A9A0689-40	Soil	01/23/19 10:00	01/23/19 17:42
DP-10(17-18.5)	A9A0689-41	Soil	01/23/19 10:00	01/23/19 17:42
DP-11(1-2)	A9A0689-42	Soil	01/23/19 11:00	01/23/19 17:42
DP-11(8-9)	A9A0689-44	Soil	01/23/19 11:00	01/23/19 17:42
DP-12(1-2)	A9A0689-46	Soil	01/23/19 11:30	01/23/19 17:42
DP-12(8-9)	A9A0689-48	Soil	01/23/19 11:30	01/23/19 17:42
DP-13(1-2)	A9A0689-50	Soil	01/23/19 12:00	01/23/19 17:42
DP-13(8-9.5)	A9A0689-52	Soil	01/23/19 12:00	01/23/19 17:42
DP-14(0.5-2)	A9A0689-54	Soil	01/23/19 12:45	01/23/19 17:42
DP-14(8.5-10)	A9A0689-56	Soil	01/23/19 12:45	01/23/19 17:42
DP-15(1-2)	A9A0689-58	Soil	01/23/19 13:15	01/23/19 17:42
DP-15(8.5-10)	A9A0689-60	Soil	01/23/19 13:15	01/23/19 17:42

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9450 SW Commerce Circle
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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-16(1-2)	A9A0689-62	Soil	01/23/19 14:30	01/23/19 17:42
DP-16(6-7.5)	A9A0689-64	Soil	01/23/19 14:30	01/23/19 17:42
DP-17(1-2.5)	A9A0689-69	Soil	01/23/19 15:15	01/23/19 17:42
DP-17(9-10)	A9A0689-71	Soil	01/23/19 15:15	01/23/19 17:42

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Hydrocarbon Identification Screen by NWTPH-HCID**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	ND	---	24.3	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	ND	---	60.8	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	ND	---	122	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery:</i>	95 %	<i>Limits:</i>	50-150 %	1	01/29/19	NWTPH-HCID
<i>4-Bromofluorobenzene (Surr)</i>			95 %		50-150 %	1	01/29/19	NWTPH-HCID
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	ND	---	20.4	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	ND	---	51.0	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	DET	---	102	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery:</i>	87 %	<i>Limits:</i>	50-150 %	1	01/29/19	NWTPH-HCID
<i>4-Bromofluorobenzene (Surr)</i>			86 %		50-150 %	1	01/29/19	NWTPH-HCID
DP-7(11-12) (A9A0689-28)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	DET	---	25.5	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	DET	---	63.7	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	DET	---	127	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery:</i>	60 %	<i>Limits:</i>	50-150 %	1	01/29/19	NWTPH-HCID
<i>4-Bromofluorobenzene (Surr)</i>			175 %		50-150 %	1	01/29/19	NWTPH-HCID S-02
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	ND	---	24.2	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	ND	---	60.6	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	ND	---	121	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery:</i>	90 %	<i>Limits:</i>	50-150 %	1	01/29/19	NWTPH-HCID
<i>4-Bromofluorobenzene (Surr)</i>			89 %		50-150 %	1	01/29/19	NWTPH-HCID
DP-10(12.5-13.5) (A9A0689-40)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	DET	---	28.1	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	DET	---	70.3	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	DET	---	141	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery:</i>	99 %	<i>Limits:</i>	50-150 %	1	01/29/19	NWTPH-HCID
<i>4-Bromofluorobenzene (Surr)</i>			12 %		50-150 %	1	01/29/19	NWTPH-HCID S-02

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Hydrocarbon Identification Screen by NWTPH-HCID**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(17-18.5) (A9A0689-41)				Matrix: Soil		Batch: 9011074		
Gasoline Range Organics	ND	---	22.4	mg/kg dry	1	01/29/19	NWTPH-HCID	
Diesel Range Organics	ND	---	56.1	mg/kg dry	1	01/29/19	NWTPH-HCID	
Oil Range Organics	ND	---	112	mg/kg dry	1	01/29/19	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>01/29/19</i>	<i>NWTPH-HCID</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>75 %</i>		<i>50-150 %</i>	<i>1</i>	<i>01/29/19</i>	<i>NWTPH-HCID</i>	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9020335		
Diesel	ND	---	25.0	mg/kg dry	1	02/04/19	NWTPH-Dx	
Oil	507	---	50.0	mg/kg dry	1	02/04/19	NWTPH-Dx	Q-42
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	02/04/19	NWTPH-Dx	
DP-7(11-12) (A9A0689-28)				Matrix: Soil		Batch: 9020335		
Diesel	400	---	272	mg/kg dry	10	02/05/19	NWTPH-Dx	F-19
Oil	3020	---	543	mg/kg dry	10	02/05/19	NWTPH-Dx	F-16
Surrogate: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %	10	02/05/19	NWTPH-Dx	
DP-10(12.5-13.5) (A9A0689-40)				Matrix: Soil		Batch: 9020335		
Diesel	529	---	285	mg/kg dry	10	02/05/19	NWTPH-Dx	F-19
Oil	3860	---	571	mg/kg dry	10	02/05/19	NWTPH-Dx	F-16
Surrogate: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %	10	02/05/19	NWTPH-Dx	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(11-12) (A9A0689-28)				Matrix: Soil		Batch: 9020321		
Gasoline Range Organics	3340	---	1390	mg/kg dry	10000	02/04/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 114 %		Limits: 50-150 %	1	02/04/19	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)		92 %		50-150 %	1	02/04/19	NWTPH-Gx (MS)	
DP-10(12.5-13.5) (A9A0689-40)				Matrix: Soil		Batch: 9020321		
Gasoline Range Organics	1430	---	778	mg/kg dry	5000	02/04/19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 119 %		Limits: 50-150 %	1	02/04/19	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)		92 %		50-150 %	1	02/04/19	NWTPH-Gx (MS)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.37	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011023		
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011023		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	01/24/19	5035A/8260C		
Toluene-d8 (Surr)		95 %	80-120 %	1	01/24/19	5035A/8260C		
4-Bromofluorobenzene (Surr)		103 %	80-120 %	1	01/24/19	5035A/8260C		
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.34	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0134	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.335	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.335	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011023		
1,2-Dichloroethane (EDC)	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.335	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.671	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.335	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.335	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.134	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011023		
1,3,5-Trimethylbenzene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0671	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0335	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
Toluene-d8 (Surr)		96 %		80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		103 %		80-120 %	1	01/24/19	5035A/8260C	
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.47	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.368	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.368	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011023		
1,3-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.368	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.736	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.368	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.368	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011023		
Trichloroethene (TCE)	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0736	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0368	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			95 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/24/19	5035A/8260C
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.48	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0148	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.370	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011023		
1,2-Dibromo-3-chloropropane	ND	---	0.370	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.370	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.739	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011023		
1,2,3-Trichlorobenzene	ND	---	0.370	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.370	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.148	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0739	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0370	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	100 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			97 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.37	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011023		
Chloromethane	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.685	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011023		
1,1,1,2-Tetrachloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0685	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>100 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.55	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0155	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011023		
Carbon tetrachloride	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.388	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.388	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.388	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.776	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011023		
Methyl tert-butyl ether (MTBE)	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.388	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.388	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.155	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0776	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0388	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			97 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C

DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.64	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0164	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011023		
n-Butylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.410	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.410	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011023		
Isopropylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.410	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.820	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.410	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.410	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.164	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0820	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0410	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	01/24/19	5035A/8260C
Toluene-d8 (Surr)			96 %		80-120 %	1	01/24/19	5035A/8260C
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	01/24/19	5035A/8260C

DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.30	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0130	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011023		
Bromodichloromethane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.325	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.325	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011023		
trans-1,3-Dichloropropene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.325	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.650	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.325	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.325	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.130	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0650	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0325	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
Toluene-d8 (Surr)		97 %		80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		103 %		80-120 %	1	01/24/19	5035A/8260C	

DP-5(1.5-3) (A9A0689-17)**Matrix: Soil****Batch: 9011023**

Acetone	ND	---	1.42	mg/kg dry	50	01/24/19	5035A/8260C

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011023		
Acrylonitrile	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0142	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.355	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.355	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011023		
1,3-Dichloropropane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.355	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.709	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.355	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.355	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.142	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0709	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0355	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	

Apex Laboratories

Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011023		
Surrogate: Toluene-d8 (Surr)			Recovery: 97 %	Limits: 80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	01/24/19	5035A/8260C	
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.37	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011023		
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.686	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011023		
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0686	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.41	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0141	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.352	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.352	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011023		
1,4-Dichlorobenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.352	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.704	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.352	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.352	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011023		
Trichlorofluoromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0704	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0352	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			97 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			101 %		80-120 %	1	01/24/19	5035A/8260C
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.39	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0139	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.348	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.348	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011023		
1,2-Dibromoethane (EDB)	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.348	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.696	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.348	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011023		
1,2,4-Trichlorobenzene	ND	---	0.348	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.139	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0696	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0348	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	102 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			96 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	1.05	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0105	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.264	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011023		
2-Chlorotoluene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.264	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.264	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.527	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011023		
1,1,2,2-Tetrachloroethane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.264	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.264	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.105	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0527	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0264	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
Toluene-d8 (Surr)		96 %		80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		103 %		80-120 %	1	01/24/19	5035A/8260C	
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011023		
Acetone	ND	---	0.793	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.00793	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011023		
Chlorobenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.198	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.198	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.198	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.397	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011023		
Naphthalene	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.198	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.198	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.0793	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0397	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0198	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			96 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C

DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.72	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0172	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011039		
sec-Butylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.430	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.430	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011039		
4-Isopropyltoluene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.430	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.859	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.430	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.430	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.172	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0859	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0430	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	104 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			100 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C

DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.16	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0116	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011039		
Bromoform	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.291	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.291	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011039		
Ethylbenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.291	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.582	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.291	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.291	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.116	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0582	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0291	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
Toluene-d8 (Surr)		100 %		80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		104 %		80-120 %	1	01/24/19	5035A/8260C	
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.47	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011039		
Benzene	ND	---	0.0147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.367	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.367	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011039		
2,2-Dichloropropane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.367	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.734	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.367	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.367	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0734	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0367	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011039		
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.49	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0149	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.374	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.374	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011039		
cis-1,2-Dichloroethene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.374	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.747	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.374	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.374	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.149	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011039		
m,p-Xylene	ND	---	0.0747	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0374	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>106 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.37	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011039		
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.683	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011039		
1,2,3-Trichloropropane	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0683	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0342	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	106 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			100 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			103 %		80-120 %	1	01/24/19	5035A/8260C
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.29	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0129	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.323	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.323	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011039		
Dibromomethane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.323	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.647	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.323	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.323	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

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9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011039		
1,1,1-Trichloroethane	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.129	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0647	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0323	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>106 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>105 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>	
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.47	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.366	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011039		
4-Chlorotoluene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.366	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.366	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.733	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011039		
Tetrachloroethene (PCE)	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.366	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.366	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.147	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0733	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0366	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>108 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>105 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.37	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011039		
Chloroethane	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.687	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011039		
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0687	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0343	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	103 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			104 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/24/19	5035A/8260C

DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.41	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0141	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011039		
tert-Butylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.354	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.354	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011039		
Methylene chloride	ND	---	0.354	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.707	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.354	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.354	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.141	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0707	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0354	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	107 %	<i>Limits:</i>	80-120 %	1	01/24/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			101 %		80-120 %	1	01/24/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/24/19	5035A/8260C

DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.26	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0126	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011039		
Bromomethane	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.315	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.315	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011039		
Hexachlorobutadiene	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.315	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.629	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.315	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.315	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.126	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0629	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0315	mg/kg dry	50	01/24/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>107 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/24/19</i>	<i>5035A/8260C</i>

DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.02	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0102	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011039		
Bromobenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.254	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.254	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011039		
1,1-Dichloropropene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.254	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.509	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.254	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.254	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.102	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0509	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0254	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	01/24/19	5035A/8260C
Toluene-d8 (Surr)			101 %		80-120 %	1	01/24/19	5035A/8260C
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	01/24/19	5035A/8260C

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.31	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0131	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.327	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.327	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011039		
1,2-Dichloropropane	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.327	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.654	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.327	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.327	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.131	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0654	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0327	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011039		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %	Limits: 80-120 %	1	01/24/19	5035A/8260C		
Toluene-d8 (Surr)		100 %	80-120 %	1	01/24/19	5035A/8260C		
4-Bromofluorobenzene (Surr)		103 %	80-120 %	1	01/24/19	5035A/8260C		
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.08	mg/kg dry	50	01/24/19	5035A/8260C	
Acrylonitrile	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
Benzene	ND	---	0.0108	mg/kg dry	50	01/24/19	5035A/8260C	
Bromobenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Bromochloromethane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Bromoform	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
Bromomethane	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon disulfide	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Chlorobenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroethane	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
Chloroform	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Chloromethane	ND	---	0.270	mg/kg dry	50	01/24/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromochloromethane	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.270	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Dibromomethane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011039		
1,2-Dichloroethane (EDC)	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Ethylbenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
2-Hexanone	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Methylene chloride	ND	---	0.270	mg/kg dry	50	01/24/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.541	mg/kg dry	50	01/24/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Naphthalene	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Styrene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Toluene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.108	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011039		
1,3,5-Trimethylbenzene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
Vinyl chloride	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
m,p-Xylene	ND	---	0.0541	mg/kg dry	50	01/24/19	5035A/8260C	
o-Xylene	ND	---	0.0270	mg/kg dry	50	01/24/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %	1	01/24/19	5035A/8260C	
Toluene-d8 (Surr)		101 %		80-120 %	1	01/24/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		104 %		80-120 %	1	01/24/19	5035A/8260C	
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.40	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0140	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.349	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.349	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011039		
1,3-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.349	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.699	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.349	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.349	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011039		
Trichloroethene (TCE)	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.140	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0699	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0349	mg/kg dry	50	01/25/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	107 %	<i>Limits:</i>	80-120 %	1	01/25/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			100 %		80-120 %	1	01/25/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/25/19	5035A/8260C
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.20	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0120	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.301	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011039		
1,2-Dibromo-3-chloropropane	ND	---	0.301	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.301	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.602	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011039		
1,2,3-Trichlorobenzene	ND	---	0.301	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.301	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.120	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0602	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0301	mg/kg dry	50	01/25/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	109 %	<i>Limits:</i>	80-120 %	1	01/25/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			101 %		80-120 %	1	01/25/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/25/19	5035A/8260C
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.32	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0132	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011039		
Chloromethane	ND	---	0.329	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.329	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.329	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.658	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011039		
1,1,1,2-Tetrachloroethane	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.132	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0658	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0329	mg/kg dry	50	01/25/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>109 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.50	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0150	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011039		
Carbon tetrachloride	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.375	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.375	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.375	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.750	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011039		
Methyl tert-butyl ether (MTBE)	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.375	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.375	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.150	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0750	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0375	mg/kg dry	50	01/25/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>103 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>110 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/25/19</i>	<i>5035A/8260C</i>

DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.31	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0131	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011039		
n-Butylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.328	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.328	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011039		
Isopropylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.328	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.656	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.328	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.328	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.131	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0656	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0328	mg/kg dry	50	01/25/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	109 %	<i>Limits:</i>	80-120 %	1	01/25/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			101 %		80-120 %	1	01/25/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/25/19	5035A/8260C

DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011039		
Acetone	ND	---	1.52	mg/kg dry	50	01/25/19	5035A/8260C	
Acrylonitrile	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0152	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011039		
Bromodichloromethane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.381	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.381	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011039		
trans-1,3-Dichloropropene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.381	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.762	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.381	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.381	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.152	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0762	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0381	mg/kg dry	50	01/25/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %	1	01/25/19	5035A/8260C	
Toluene-d8 (Surr)		101 %		80-120 %	1	01/25/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		101 %		80-120 %	1	01/25/19	5035A/8260C	

DP-17(9-10) (A9A0689-71)**Matrix: Soil****Batch: 9011039**

Acetone	ND	---	1.21	mg/kg dry	50	01/25/19	5035A/8260C

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011039		
Acrylonitrile	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
Benzene	ND	---	0.0121	mg/kg dry	50	01/25/19	5035A/8260C	
Bromobenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Bromochloromethane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Bromoform	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
Bromomethane	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon disulfide	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Chlorobenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroethane	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
Chloroform	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Chloromethane	ND	---	0.302	mg/kg dry	50	01/25/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromochloromethane	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.302	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Dibromomethane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011039		
1,3-Dichloropropane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Ethylbenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
2-Hexanone	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Methylene chloride	ND	---	0.302	mg/kg dry	50	01/25/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.604	mg/kg dry	50	01/25/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Naphthalene	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Styrene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Toluene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.302	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.302	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.121	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
Vinyl chloride	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
m,p-Xylene	ND	---	0.0604	mg/kg dry	50	01/25/19	5035A/8260C	
o-Xylene	ND	---	0.0302	mg/kg dry	50	01/25/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %	1	01/25/19	5035A/8260C	

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Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011039		
Surrogate: Toluene-d8 (Surr)		Recovery:	113 %	Limits:	80-120 %	1	01/25/19	5035A/8260C
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	01/25/19	5035A/8260C

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GeoDesign, Inc.

9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0120	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 77 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 65 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0130	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 83 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1242	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0134	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 74 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0117	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 82 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 70 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1260	ND	---	0.0129	mg/kg dry	1	02/04/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/04/19</i>	<i>EPA 8082A</i>		
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0115	mg/kg dry	1	01/30/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8082A</i>		
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 84 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/04/19</i>	<i>EPA 8082A</i>		
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0125	mg/kg dry	1	01/30/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8082A</i>		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 81 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 89 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0104	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 86 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1242	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	0.0246	---	0.0105	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 93 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0126	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 79 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0109	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 92 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1260	ND	---	0.0133	mg/kg dry	1	02/04/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 78 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/04/19</i>	<i>EPA 8082A</i>		
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1242	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 75 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8082A</i>		
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	0.0162	---	0.0122	mg/kg dry	1	02/01/19	EPA 8082A	P-09
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 83 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/01/19</i>	<i>EPA 8082A</i>		
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0125	mg/kg dry	1	02/01/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/01/19</i>	<i>EPA 8082A</i>		

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0127	mg/kg dry	1	02/01/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 89 %		Limits: 60-125 %	1	02/01/19	EPA 8082A	
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1242	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 81 %		Limits: 60-125 %	1	01/31/19	EPA 8082A	
DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0112	mg/kg dry	1	02/01/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 77 %		Limits: 60-125 %	1	02/01/19	EPA 8082A	
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1242	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0114	mg/kg dry	1	01/31/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 86 %		Limits: 60-125 %	1	01/31/19	EPA 8082A	
DP-13(1-2) (A9A0689-50RE1)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0102	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 95 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 89 %		Limits: 60-125 %	1	01/30/19	EPA 8082A	
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1260	ND	---	0.0101	mg/kg dry	1	02/01/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 92 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/01/19</i>	<i>EPA 8082A</i>		
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1221	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1232	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1242	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1248	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1254	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
Aroclor 1260	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 91 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8082A</i>		
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0105	mg/kg dry	1	02/01/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 93 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/01/19</i>	<i>EPA 8082A</i>		
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1242	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0125	mg/kg dry	1	01/31/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 78 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8082A</i>		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0134	mg/kg dry	1	02/01/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %	1	02/01/19	EPA 8082A	
DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1242	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0109	mg/kg dry	1	01/31/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 90 %		Limits: 60-125 %	1	01/31/19	EPA 8082A	
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011066		C-07
Aroclor 1016	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1221	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1232	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1242	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1248	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1254	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Aroclor 1260	ND	---	0.0119	mg/kg dry	1	02/01/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 79 %		Limits: 60-125 %	1	02/01/19	EPA 8082A	
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1016	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011054		C-07
Aroclor 1242	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 60-125 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8082A</i>	

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0129	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 78 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>88 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	

DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011042		
Dibenzofuran	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	73 %	<i>Limits:</i>	44-120 %	1	01/27/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			83 %		54-127 %	1	01/27/19	EPA 8270D (SIM)
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0130	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	79 %	<i>Limits:</i>	44-120 %	1	01/27/19	EPA 8270D (SIM)

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011042		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 82 %</i>	<i>Limits: 54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>		
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0132	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>		
<i>p-Terphenyl-d14 (Surr)</i>		<i>81 %</i>	<i>54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>		
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011117		
Chrysene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 76 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		78 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011042		
Pyrene	ND	---	0.0128	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	79 %	<i>Limits:</i>	44-120 %	1	01/27/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			85 %		54-127 %	1	01/27/19	EPA 8270D (SIM)
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	73 %	<i>Limits:</i>	44-120 %	1	01/29/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			77 %		54-127 %	1	01/29/19	EPA 8270D (SIM)
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011042		
Benzo(k)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 78 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		90 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011117		
Naphthalene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0118	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 76 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		79 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0125	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 71 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		73 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011117		
Benzo(a)pyrene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0127	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>		<i>75 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>
<i>p-Terphenyl-d14 (Surr)</i>				<i>79 %</i>	<i>54-127 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>

DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011042		
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 70 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		77 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0107	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 80 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		87 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-7(6-7.5) (A9A0689-27RE1)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(6-7.5) (A9A0689-27RE1)				Matrix: Soil		Batch: 9011117		
Anthracene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0143	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	R-02
Benzo(a)pyrene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0143	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	R-02
Dibenz(a,h)anthracene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0102	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 79 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		84 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	

DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011117		
Fluorene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0120	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 76 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		81 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0111	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 79 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		86 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011117		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0131	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>79 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>	

DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011042		
Dibenzofuran	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0119	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	76 %	<i>Limits:</i>	44-120 %	1	01/27/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			85 %		54-127 %	1	01/27/19	EPA 8270D (SIM)
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0119	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	72 %	<i>Limits:</i>	44-120 %	1	01/29/19	EPA 8270D (SIM)

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011117		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 79 %</i>	<i>Limits: 54-127 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>		
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 65 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>		
<i>p-Terphenyl-d14 (Surr)</i>		<i>70 %</i>	<i>54-127 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>		
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011117		
Chrysene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0123	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 59 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		62 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011042		
Pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	71 %	<i>Limits:</i>	44-120 %	1	01/27/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			72 %		54-127 %	1	01/27/19	EPA 8270D (SIM)
DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0112	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	66 %	<i>Limits:</i>	44-120 %	1	01/29/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			71 %		54-127 %	1	01/29/19	EPA 8270D (SIM)
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011042		
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 70 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		72 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

Apex Laboratories

Philip Nerenberg, Lab Director

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**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011117		
Naphthalene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.00934	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 69 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		73 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0113	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 51 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		83 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011117		
Benzo(a)pyrene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.00929	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>69 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/29/19</i>	<i>EPA 8270D (SIM)</i>	

DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011042		
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 50 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		70 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0103	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 73 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		79 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011042		
Anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0123	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>70 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	

DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011117		
Acenaphthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011117		
Fluorene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0126	mg/kg dry	1	01/29/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 66 %		Limits: 44-120 %	1	01/29/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		67 %		54-127 %	1	01/29/19	EPA 8270D (SIM)	
DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 71 %		Limits: 44-120 %	1	01/27/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		78 %		54-127 %	1	01/27/19	EPA 8270D (SIM)	
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011042		

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0127	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>68 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	

DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011042		
Acenaphthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil	Batch: 9011042			
Dibenzofuran	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0118	mg/kg dry	1	01/27/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 67 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>75 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/27/19</i>	<i>EPA 8270D (SIM)</i>	

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Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01) Matrix: Soil								
Batch: 9011113								
Arsenic	13.2	---	1.47	mg/kg dry	10	01/30/19	EPA 6020A	
Barium	183	---	1.47	mg/kg dry	10	01/30/19	EPA 6020A	
Cadmium	ND	---	0.294	mg/kg dry	10	01/30/19	EPA 6020A	
Chromium	21.8	---	1.47	mg/kg dry	10	01/30/19	EPA 6020A	
Lead	15.5	---	0.294	mg/kg dry	10	01/30/19	EPA 6020A	
Mercury	ND	---	0.118	mg/kg dry	10	01/30/19	EPA 6020A	
Selenium	ND	---	1.47	mg/kg dry	10	01/30/19	EPA 6020A	
Silver	ND	---	0.294	mg/kg dry	10	01/30/19	EPA 6020A	
DP-1(8-9.5) (A9A0689-03) Matrix: Soil								
Batch: 9011058								
Arsenic	4.99	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	159	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.629	---	0.281	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	17.2	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	6.86	---	0.281	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.113	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.281	mg/kg dry	10	01/25/19	EPA 6020A	
DP-2(1-2) (A9A0689-05) Matrix: Soil								
Batch: 9011113								
Arsenic	12.6	---	1.36	mg/kg dry	10	01/30/19	EPA 6020A	
Barium	214	---	1.36	mg/kg dry	10	01/30/19	EPA 6020A	
Cadmium	ND	---	0.273	mg/kg dry	10	01/30/19	EPA 6020A	
Chromium	24.0	---	1.36	mg/kg dry	10	01/30/19	EPA 6020A	
Lead	13.6	---	0.273	mg/kg dry	10	01/30/19	EPA 6020A	
Mercury	ND	---	0.109	mg/kg dry	10	01/30/19	EPA 6020A	
Selenium	ND	---	1.36	mg/kg dry	10	01/30/19	EPA 6020A	
Silver	ND	---	0.273	mg/kg dry	10	01/30/19	EPA 6020A	
DP-2(6.5-7.5) (A9A0689-07) Matrix: Soil								
Batch: 9011058								

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-2(6.5-7.5) (A9A0689-07) Matrix: Soil								
Arsenic	11.3	---	1.33	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	191	---	1.33	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.670	---	0.267	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	20.5	---	1.33	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	13.9	---	0.267	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.107	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.33	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.267	mg/kg dry	10	01/25/19	EPA 6020A	
DP-3(1.5-3) (A9A0689-09) Matrix: Soil								
Batch: 9011113								
Arsenic	12.5	---	1.39	mg/kg dry	10	01/30/19	EPA 6020A	
Barium	157	---	1.39	mg/kg dry	10	01/30/19	EPA 6020A	
Cadmium	0.297	---	0.279	mg/kg dry	10	01/30/19	EPA 6020A	
Chromium	18.1	---	1.39	mg/kg dry	10	01/30/19	EPA 6020A	
Lead	11.7	---	0.279	mg/kg dry	10	01/30/19	EPA 6020A	
Mercury	ND	---	0.112	mg/kg dry	10	01/30/19	EPA 6020A	
Selenium	ND	---	1.39	mg/kg dry	10	01/30/19	EPA 6020A	
Silver	ND	---	0.279	mg/kg dry	10	01/30/19	EPA 6020A	
DP-3(6.5-8) (A9A0689-11) Matrix: Soil								
Batch: 9011058								
Arsenic	9.16	---	1.42	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	165	---	1.42	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.819	---	0.284	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	19.5	---	1.42	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	11.4	---	0.284	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.114	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.42	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.284	mg/kg dry	10	01/25/19	EPA 6020A	
DP-4(1.5-3) (A9A0689-13) Matrix: Soil								
Batch: 9011113								
Arsenic	10.3	---	1.49	mg/kg dry	10	01/30/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-4(1.5-3) (A9A0689-13) Matrix: Soil								
Barium	213	---	1.49	mg/kg dry	10	01/30/19	EPA 6020A	
Cadmium	ND	---	0.298	mg/kg dry	10	01/30/19	EPA 6020A	
Chromium	19.5	---	1.49	mg/kg dry	10	01/30/19	EPA 6020A	
Lead	14.0	---	0.298	mg/kg dry	10	01/30/19	EPA 6020A	
Mercury	ND	---	0.119	mg/kg dry	10	01/30/19	EPA 6020A	
Selenium	ND	---	1.49	mg/kg dry	10	01/30/19	EPA 6020A	
Silver	ND	---	0.298	mg/kg dry	10	01/30/19	EPA 6020A	
DP-4(5-6.5) (A9A0689-15) Matrix: Soil								
Batch: 9011058								
Arsenic	4.89	---	1.28	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	138	---	1.28	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.823	---	0.256	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	14.8	---	1.28	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	7.35	---	0.256	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.103	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.28	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.256	mg/kg dry	10	01/25/19	EPA 6020A	
DP-5(1.5-3) (A9A0689-17) Matrix: Soil								
Batch: 9011113								
Arsenic	12.3	---	1.33	mg/kg dry	10	01/30/19	EPA 6020A	
Barium	228	---	1.33	mg/kg dry	10	01/30/19	EPA 6020A	
Cadmium	ND	---	0.266	mg/kg dry	10	01/30/19	EPA 6020A	
Chromium	21.3	---	1.33	mg/kg dry	10	01/30/19	EPA 6020A	
Lead	13.9	---	0.266	mg/kg dry	10	01/30/19	EPA 6020A	
Mercury	ND	---	0.106	mg/kg dry	10	01/30/19	EPA 6020A	
Selenium	ND	---	1.33	mg/kg dry	10	01/30/19	EPA 6020A	
Silver	ND	---	0.266	mg/kg dry	10	01/30/19	EPA 6020A	
DP-5(6.5-8) (A9A0689-19) Matrix: Soil								
Batch: 9011058								
Arsenic	6.57	---	1.29	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	173	---	1.29	mg/kg dry	10	01/25/19	EPA 6020A	

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Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(6.5-8) (A9A0689-19) Matrix: Soil								
Cadmium	0.720	---	0.259	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	22.2	---	1.29	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	7.94	---	0.259	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.103	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.29	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.259	mg/kg dry	10	01/25/19	EPA 6020A	
DP-6(1-2.5) (A9A0689-21) Matrix: Soil								
Batch: 9011113								
Arsenic	8.93	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	197	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	20.8	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	12.4	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.111	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
DP-6(5-6.5) (A9A0689-23) Matrix: Soil								
Batch: 9011058								
Arsenic	5.11	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	155	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.795	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	16.2	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	7.93	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.108	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
DP-7(2-3) (A9A0689-26) Matrix: Soil								
Batch: 9011113								
Arsenic	3.05	---	1.18	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	86.8	---	1.18	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.237	mg/kg dry	10	01/31/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(2-3) (A9A0689-26) Matrix: Soil								
Chromium	8.86	---	1.18	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	6.42	---	0.237	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.0948	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.18	mg/kg dry	10	01/31/19	EPA 6020A	A-03, Q-42
Silver	ND	---	0.237	mg/kg dry	10	01/31/19	EPA 6020A	
DP-7(6-7.5) (A9A0689-27) Matrix: Soil								
Batch: 9011178								
Arsenic	3.08	---	1.09	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	77.9	---	1.09	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	0.469	---	0.219	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	10.0	---	1.09	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	8.70	---	0.219	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.0874	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.09	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.219	mg/kg dry	10	01/31/19	EPA 6020A	
DP-8(1-2.5) (A9A0689-29) Matrix: Soil								
Batch: 9011178								
Arsenic	11.1	---	1.43	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	206	---	1.43	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.285	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	21.2	---	1.43	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	12.8	---	0.285	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.43	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.285	mg/kg dry	10	01/31/19	EPA 6020A	
DP-8(1-2.5) (A9A0689-29RE1) Matrix: Soil								
Batch: 9011178								
Mercury	ND	---	0.114	mg/kg dry	10	02/01/19	EPA 6020A	
DP-8(6-7.5) (A9A0689-31) Matrix: Soil								
Batch: 9011058								
Arsenic	3.63	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	128	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-8(6-7.5) (A9A0689-31) Matrix: Soil								
Cadmium	0.595	---	0.246	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	12.9	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	4.01	---	0.246	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.0983	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.246	mg/kg dry	10	01/25/19	EPA 6020A	
DP-9(1-2.5) (A9A0689-33) Matrix: Soil								
Batch: 9011178								
Arsenic	12.4	---	1.48	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	215	---	1.48	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.295	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	20.0	---	1.48	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	15.3	---	0.295	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.118	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.48	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.295	mg/kg dry	10	01/31/19	EPA 6020A	
DP-9(6-7.5) (A9A0689-35) Matrix: Soil								
Batch: 9011058								
Arsenic	4.32	---	1.20	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	136	---	1.20	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.797	---	0.240	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	13.3	---	1.20	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	6.51	---	0.240	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.0961	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.20	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.240	mg/kg dry	10	01/25/19	EPA 6020A	
DP-10(0.5-2) (A9A0689-37RE1) Matrix: Soil								
Batch: 9011178								
Arsenic	9.07	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	173	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.517	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-10(0.5-2) (A9A0689-37RE1) Matrix: Soil								
Chromium	21.3	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	18.3	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.104	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	
DP-10(7-8.5) (A9A0689-39) Matrix: Soil								
Batch: 9011178								
Arsenic	5.63	---	1.23	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	158	---	1.23	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	0.321	---	0.247	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	17.7	---	1.23	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	6.80	---	0.247	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.0988	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.23	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.247	mg/kg dry	10	01/31/19	EPA 6020A	
DP-11(1-2) (A9A0689-42RE1) Matrix: Soil								
Batch: 9011178								
Arsenic	11.3	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	187	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.473	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	18.8	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	15.9	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.110	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
DP-11(8-9) (A9A0689-44) Matrix: Soil								
Batch: 9011058								
Arsenic	3.87	---	1.36	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	130	---	1.36	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.813	---	0.272	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	12.9	---	1.36	mg/kg dry	10	01/25/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(8-9) (A9A0689-44) Matrix: Soil								
Lead	6.49	---	0.272	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.109	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.36	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.272	mg/kg dry	10	01/25/19	EPA 6020A	
DP-12(1-2) (A9A0689-46) Matrix: Soil								
Batch: 9011178								
Arsenic	7.87	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	194	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	0.288	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	23.8	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	9.22	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.111	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.39	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.278	mg/kg dry	10	01/31/19	EPA 6020A	
DP-12(8-9) (A9A0689-48) Matrix: Soil								
Batch: 9011058								
Arsenic	4.35	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	129	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.743	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	14.2	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	6.47	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.108	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.35	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.271	mg/kg dry	10	01/25/19	EPA 6020A	
DP-13(1-2) (A9A0689-50) Matrix: Soil								
Batch: 9011178								
Arsenic	3.80	---	1.04	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	112	---	1.04	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.209	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	11.1	---	1.04	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	5.55	---	0.209	mg/kg dry	10	01/31/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-13(1-2) (A9A0689-50) Matrix: Soil								
Mercury	ND	---	0.0835	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.04	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.209	mg/kg dry	10	01/31/19	EPA 6020A	
DP-13(8-9.5) (A9A0689-52) Matrix: Soil								
Batch: 9011058								
Arsenic	6.25	---	1.31	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	181	---	1.31	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.828	---	0.262	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	18.0	---	1.31	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	8.38	---	0.262	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.105	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.31	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.262	mg/kg dry	10	01/25/19	EPA 6020A	
DP-14(0.5-2) (A9A0689-54) Matrix: Soil								
Batch: 9011178								
Arsenic	2.94	---	1.14	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	101	---	1.14	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.228	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	10.3	---	1.14	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	5.70	---	0.228	mg/kg dry	10	01/31/19	EPA 6020A	
Mercury	ND	---	0.0913	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.14	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.228	mg/kg dry	10	01/31/19	EPA 6020A	
DP-14(8.5-10) (A9A0689-56) Matrix: Soil								
Batch: 9011058								
Arsenic	5.48	---	1.32	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	190	---	1.32	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.825	---	0.265	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	17.0	---	1.32	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	7.92	---	0.265	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.106	mg/kg dry	10	01/25/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-14(8.5-10) (A9A0689-56) Matrix: Soil								
Selenium	ND	---	1.32	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.265	mg/kg dry	10	01/25/19	EPA 6020A	
DP-15(1-2) (A9A0689-58) Matrix: Soil								
Batch: 9011178								
Arsenic	5.27	---	1.27	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	132	---	1.27	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.253	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	15.5	---	1.27	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	10.9	---	0.253	mg/kg dry	10	01/31/19	EPA 6020A	
Selenium	ND	---	1.27	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.253	mg/kg dry	10	01/31/19	EPA 6020A	
DP-15(1-2) (A9A0689-58RE1) Matrix: Soil								
Batch: 9011178								
Mercury	ND	---	0.101	mg/kg dry	10	02/01/19	EPA 6020A	
DP-15(8.5-10) (A9A0689-60) Matrix: Soil								
Batch: 9011058								
Arsenic	6.70	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	183	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.829	---	0.247	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	19.5	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	9.05	---	0.247	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.0988	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.23	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.247	mg/kg dry	10	01/25/19	EPA 6020A	
DP-16(1-2) (A9A0689-62) Matrix: Soil								
Batch: 9011178								
Arsenic	11.7	---	1.40	mg/kg dry	10	01/31/19	EPA 6020A	
Barium	200	---	1.40	mg/kg dry	10	01/31/19	EPA 6020A	
Cadmium	ND	---	0.281	mg/kg dry	10	01/31/19	EPA 6020A	
Chromium	23.9	---	1.40	mg/kg dry	10	01/31/19	EPA 6020A	
Lead	15.2	---	0.281	mg/kg dry	10	01/31/19	EPA 6020A	

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-16(1-2) (A9A0689-62) Matrix: Soil								
Selenium	ND	---	1.40	mg/kg dry	10	01/31/19	EPA 6020A	
Silver	ND	---	0.281	mg/kg dry	10	01/31/19	EPA 6020A	
DP-16(1-2) (A9A0689-62RE1) Matrix: Soil								
Batch: 9011178								
Mercury	ND	---	0.112	mg/kg dry	10	02/01/19	EPA 6020A	
DP-16(6-7.5) (A9A0689-64) Matrix: Soil								
Batch: 9011058								
Arsenic	4.44	---	1.17	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	152	---	1.17	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.661	---	0.235	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	16.6	---	1.17	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	5.16	---	0.235	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.0939	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.17	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.235	mg/kg dry	10	01/25/19	EPA 6020A	
DP-17(1-2.5) (A9A0689-69) Matrix: Soil								
Batch: 9011058								
Arsenic	17.4	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	230	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.701	---	0.283	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	28.3	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Lead	16.8	---	0.283	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.113	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.41	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.283	mg/kg dry	10	01/25/19	EPA 6020A	
DP-17(9-10) (A9A0689-71) Matrix: Soil								
Batch: 9011058								
Arsenic	5.00	---	1.22	mg/kg dry	10	01/25/19	EPA 6020A	
Barium	164	---	1.22	mg/kg dry	10	01/25/19	EPA 6020A	
Cadmium	0.776	---	0.244	mg/kg dry	10	01/25/19	EPA 6020A	
Chromium	16.7	---	1.22	mg/kg dry	10	01/25/19	EPA 6020A	

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Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil				
Lead	7.01	---	0.244	mg/kg dry	10	01/25/19	EPA 6020A	
Mercury	ND	---	0.0975	mg/kg dry	10	01/25/19	EPA 6020A	
Selenium	ND	---	1.22	mg/kg dry	10	01/25/19	EPA 6020A	
Silver	ND	---	0.244	mg/kg dry	10	01/25/19	EPA 6020A	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(1.5-2.5) (A9A0689-01)				Matrix: Soil		Batch: 9011063		
% Solids	73.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-1(8-9.5) (A9A0689-03)				Matrix: Soil		Batch: 9011063		
% Solids	75.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-2(1-2) (A9A0689-05)				Matrix: Soil		Batch: 9011063		
% Solids	72.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-2(6.5-7.5) (A9A0689-07)				Matrix: Soil		Batch: 9011063		
% Solids	72.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-3(1.5-3) (A9A0689-09)				Matrix: Soil		Batch: 9011063		
% Solids	76.0	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-3(6.5-8) (A9A0689-11)				Matrix: Soil		Batch: 9011063		
% Solids	74.4	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-4(1.5-3) (A9A0689-13)				Matrix: Soil		Batch: 9011063		
% Solids	71.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-4(5-6.5) (A9A0689-15)				Matrix: Soil		Batch: 9011063		
% Solids	83.2	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-5(1.5-3) (A9A0689-17)				Matrix: Soil		Batch: 9011063		
% Solids	73.4	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-5(6.5-8) (A9A0689-19)				Matrix: Soil		Batch: 9011063		
% Solids	75.1	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-6(1-2.5) (A9A0689-21)				Matrix: Soil		Batch: 9011063		
% Solids	74.8	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-6(5-6.5) (A9A0689-23)				Matrix: Soil		Batch: 9011063		
% Solids	79.0	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011063		

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(2-3) (A9A0689-26)				Matrix: Soil		Batch: 9011063		
% Solids	86.3	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-7(6-7.5) (A9A0689-27)				Matrix: Soil		Batch: 9011018		
% Solids	90.6	---	1.00	% by Weight	1	01/25/19	EPA 8000C	
DP-7(11-12) (A9A0689-28)				Matrix: Soil		Batch: 9011063		
% Solids	73.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-8(1-2.5) (A9A0689-29)				Matrix: Soil		Batch: 9011018		
% Solids	75.3	---	1.00	% by Weight	1	01/25/19	EPA 8000C	
DP-8(6-7.5) (A9A0689-31)				Matrix: Soil		Batch: 9011063		
% Solids	87.3	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-9(1-2.5) (A9A0689-33)				Matrix: Soil		Batch: 9011063		
% Solids	72.0	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-9(6-7.5) (A9A0689-35)				Matrix: Soil		Batch: 9011063		
% Solids	80.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-10(0.5-2) (A9A0689-37)				Matrix: Soil		Batch: 9011063		
% Solids	78.3	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-10(7-8.5) (A9A0689-39)				Matrix: Soil		Batch: 9011063		
% Solids	77.9	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-10(12.5-13.5) (A9A0689-40)				Matrix: Soil		Batch: 9011063		
% Solids	70.1	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-10(17-18.5) (A9A0689-41)				Matrix: Soil		Batch: 9011063		
% Solids	83.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-11(1-2) (A9A0689-42)				Matrix: Soil		Batch: 9011063		
% Solids	74.4	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011063		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****ANALYTICAL SAMPLE RESULTS****Percent Dry Weight**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-11(8-9) (A9A0689-44)				Matrix: Soil		Batch: 9011063		
% Solids	79.8	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-12(1-2) (A9A0689-46)				Matrix: Soil		Batch: 9011063		
% Solids	78.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-12(8-9) (A9A0689-48)				Matrix: Soil		Batch: 9011063		
% Solids	80.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-13(1-2) (A9A0689-50)				Matrix: Soil		Batch: 9011063		
% Solids	92.7	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-13(8-9.5) (A9A0689-52)				Matrix: Soil		Batch: 9011063		
% Solids	81.8	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-14(0.5-2) (A9A0689-54)				Matrix: Soil		Batch: 9011063		
% Solids	93.0	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-14(8.5-10) (A9A0689-56)				Matrix: Soil		Batch: 9011063		
% Solids	81.7	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-15(1-2) (A9A0689-58)				Matrix: Soil		Batch: 9011063		
% Solids	83.8	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-15(8.5-10) (A9A0689-60)				Matrix: Soil		Batch: 9011063		
% Solids	79.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-16(1-2) (A9A0689-62)				Matrix: Soil		Batch: 9011063		
% Solids	72.6	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-16(6-7.5) (A9A0689-64)				Matrix: Soil		Batch: 9011063		
% Solids	84.5	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-17(1-2.5) (A9A0689-69)				Matrix: Soil		Batch: 9011063		
% Solids	75.3	---	1.00	% by Weight	1	01/28/19	EPA 8000C	
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011018		

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-17(9-10) (A9A0689-71)				Matrix: Soil		Batch: 9011018		
% Solids	81.9	---	1.00	% by Weight	1	01/25/19	EPA 8000C	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Hydrocarbon Identification Screen by NWTPH-HCID**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011074 - NWTPH-HCID (Soil)						Soil						
Blank (9011074-BLK1)			Prepared: 01/25/19 13:13 Analyzed: 01/29/19 08:18									
NWTPH-HCID												
Gasoline Range Organics	ND	---	18.2	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	45.5	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	90.9	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery:		133 %		Limits:		50-150 %		Dilution: 1x		
4-Bromofluorobenzene (Surr)				131 %				50-150 %		"		
Duplicate (9011074-DUP1)			Prepared: 01/25/19 13:13 Analyzed: 01/29/19 09:03									
QC Source Sample: DP-6(5-6.5) (A9A0689-23)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	24.2	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	60.4	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	121	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery:		94 %		Limits:		50-150 %		Dilution: 1x		
4-Bromofluorobenzene (Surr)				93 %				50-150 %		"		

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
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QUALITY CONTROL (QC) SAMPLE RESULTS**Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9020335 - EPA 3546 (Fuels)						Soil						
Blank (9020335-BLK1)			Prepared: 02/04/19 13:18		Analyzed: 02/04/19 23:15							
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
LCS (9020335-BS1)			Prepared: 02/04/19 13:18		Analyzed: 02/04/19 23:36							
NWTPH-Dx												
Diesel	112	---	25.0	mg/kg wet	1	125	---	90	76-115%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (9020335-DUP1)			Prepared: 02/04/19 13:18		Analyzed: 02/05/19 00:16							
QC Source Sample: DP-7(6-7.5) (A9A0689-27)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	716	---	50.0	mg/kg dry	1	---	507	---	---	34	30%	Q-04
Surr: o-Terphenyl (Surr)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (9020335-DUP2)			Prepared: 02/04/19 13:18		Analyzed: 02/05/19 01:37							
QC Source Sample: Non-SDG (A9B0047-09)												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	mg/kg dry	1	---	33.9	---	---	***	30%	
Surr: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9020321 - EPA 5035A						Soil						
Blank (9020321-BLK1)			Prepared: 02/04/19 10:00		Analyzed: 02/04/19 12:47							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	94 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			92 %		50-150 %			"				
LCS (9020321-BS2)												
			Prepared: 02/04/19 10:00		Analyzed: 02/04/19 12:20							
NWTPH-Gx (MS)												
Gasoline Range Organics	22.3	---	5.00	mg/kg wet	50	25.0	---	89	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	92 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			93 %		50-150 %			"				
Duplicate (9020321-DUP1)												
			Prepared: 01/31/19 14:45		Analyzed: 02/04/19 16:33							
QC Source Sample: Non-SDG (A9B0049-01)												
Gasoline Range Organics	398	---	57.5	mg/kg dry	500	---	732	---	---	59	30%	Q-04
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			93 %		50-150 %			"				
Duplicate (9020321-DUP2)												
			Prepared: 01/31/19 09:43		Analyzed: 02/04/19 21:02							
QC Source Sample: Non-SDG (A9B0049-11)												
Gasoline Range Organics	ND	---	5.52	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			99 %		50-150 %			"				

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Blank (9011023-BLK1)			Prepared: 01/24/19 09:30 Analyzed: 01/24/19 11:36									
5035A/8260C												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Blank (9011023-BLK1)			Prepared: 01/24/19 09:30		Analyzed: 01/24/19 11:36							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Blank (9011023-BLK1)			Prepared: 01/24/19 09:30		Analyzed: 01/24/19 11:36							
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (9011023-BS1)			Prepared: 01/24/19 09:30		Analyzed: 01/24/19 10:42							
5035A/8260C												
Acetone	2.10	---	1.00	mg/kg wet	50	2.00	---	105	80-120%	---	---	
Acrylonitrile	1.08	---	0.100	mg/kg wet	50	1.00	---	108	80-120%	---	---	
Benzene	0.995	---	0.0100	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Bromobenzene	1.12	---	0.0250	mg/kg wet	50	1.00	---	112	80-120%	---	---	
Bromochloromethane	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80-120%	---	---	
Bromodichloromethane	0.912	---	0.0500	mg/kg wet	50	1.00	---	91	80-120%	---	---	
Bromoform	0.866	---	0.100	mg/kg wet	50	1.00	---	87	80-120%	---	---	
Bromomethane	1.16	---	0.500	mg/kg wet	50	1.00	---	116	80-120%	---	---	
2-Butanone (MEK)	2.08	---	0.500	mg/kg wet	50	2.00	---	104	80-120%	---	---	
n-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
sec-Butylbenzene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
tert-Butylbenzene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Carbon disulfide	1.13	---	0.500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
Carbon tetrachloride	0.884	---	0.0500	mg/kg wet	50	1.00	---	88	80-120%	---	---	
Chlorobenzene	0.985	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Chloroethane	0.882	---	0.500	mg/kg wet	50	1.00	---	88	80-120%	---	---	
Chloroform	0.990	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Chloromethane	0.911	---	0.250	mg/kg wet	50	1.00	---	91	80-120%	---	---	
2-Chlorotoluene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
4-Chlorotoluene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Dibromochloromethane	0.885	---	0.100	mg/kg wet	50	1.00	---	88	80-120%	---	---	
1,2-Dibromo-3-chloropropane	0.820	---	0.250	mg/kg wet	50	1.00	---	82	80-120%	---	---	
1,2-Dibromoethane (EDB)	0.923	---	0.0500	mg/kg wet	50	1.00	---	92	80-120%	---	---	
Dibromomethane	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
1,2-Dichlorobenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,3-Dichlorobenzene	0.994	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,4-Dichlorobenzene	0.951	---	0.0250	mg/kg wet	50	1.00	---	95	80-120%	---	---	
Dichlorodifluoromethane	0.916	---	0.100	mg/kg wet	50	1.00	---	92	80-120%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
LCS (9011023-BS1)						Prepared: 01/24/19 09:30 Analyzed: 01/24/19 10:42						
1,1-Dichloroethane	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80-120%	---	---	
1,2-Dichloroethane (EDC)	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
1,1-Dichloroethene	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
cis-1,2-Dichloroethene	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
trans-1,2-Dichloroethene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
1,2-Dichloropropane	1.00	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,3-Dichloropropane	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
2,2-Dichloropropane	0.998	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,1-Dichloropropene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
cis-1,3-Dichloropropene	0.853	---	0.0500	mg/kg wet	50	1.00	---	85	80-120%	---	---	
trans-1,3-Dichloropropene	0.854	---	0.0500	mg/kg wet	50	1.00	---	85	80-120%	---	---	
Ethylbenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Hexachlorobutadiene	0.943	---	0.100	mg/kg wet	50	1.00	---	94	80-120%	---	---	
2-Hexanone	1.87	---	0.500	mg/kg wet	50	2.00	---	94	80-120%	---	---	
Isopropylbenzene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80-120%	---	---	
4-Isopropyltoluene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Methylene chloride	0.972	---	0.250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2.05	---	0.500	mg/kg wet	50	2.00	---	103	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	0.992	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Naphthalene	0.870	---	0.100	mg/kg wet	50	1.00	---	87	80-120%	---	---	
n-Propylbenzene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Styrene	0.936	---	0.0500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.882	---	0.0250	mg/kg wet	50	1.00	---	88	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
Tetrachloroethene (PCE)	0.998	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Toluene	0.926	---	0.0500	mg/kg wet	50	1.00	---	93	80-120%	---	---	
1,2,3-Trichlorobenzene	1.02	---	0.250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,2,4-Trichlorobenzene	0.996	---	0.250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,1,1-Trichloroethane	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
1,1,2-Trichloroethane	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Trichloroethene (TCE)	0.996	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Trichlorofluoromethane	1.00	---	0.100	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,2,3-Trichloropropane	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039**GeoDesign, Inc.**

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
LCS (9011023-BS1)			Prepared: 01/24/19 09:30		Analyzed: 01/24/19 10:42							
1,3,5-Trimethylbenzene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
Vinyl chloride	1.13	---	0.0250	mg/kg wet	50	1.00	---	113	80-120%	---	---	
m,p-Xylene	2.10	---	0.0500	mg/kg wet	50	2.00	---	105	80-120%	---	---	
o-Xylene	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		107 %		80-120 %		"						

Duplicate (9011023-DUP1)

Prepared: 01/16/19 11:30 Analyzed: 01/24/19 14:45

QC Source Sample: Non-SDG (A9A0542-03)

Acetone	ND	---	1.20	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.0120	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.300	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.300	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Duplicate (9011023-DUP1)			Prepared: 01/16/19 11:30		Analyzed: 01/24/19 14:45							
QC Source Sample: Non-SDG (A9A0542-03)												
1,2-Dichlorobenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	Q-05
1,3-Dichlorobenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0300	mg/kg dry	50	---	0.0255	---	---	***	30%	
trans-1,2-Dichloroethene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.300	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.600	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.300	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.300	mg/kg dry	50	---	ND	---	---	---	30%	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Duplicate (9011023-DUP1)			Prepared: 01/16/19 11:30 Analyzed: 01/24/19 14:45									
QC Source Sample: Non-SDG (A9A0542-03)												
1,1,1-Trichloroethane	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.120	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0600	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0300	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

Matrix Spike (9011023-MS1)

Prepared: 01/22/19 15:15 Analyzed: 01/24/19 22:19

T-02**QC Source Sample: DP-7(6-7.5) (A9A0689-27)****5035A/8260C**

Acetone	2.04	---	0.793	mg/kg dry	50	1.59	ND	129	36-164%	---	---	
Acrylonitrile	0.971	---	0.0793	mg/kg dry	50	0.795	ND	122	65-134%	---	---	
Benzene	0.837	---	0.00793	mg/kg dry	50	0.795	ND	105	77-121%	---	---	
Bromobenzene	0.854	---	0.0198	mg/kg dry	50	0.795	ND	107	78-121%	---	---	
Bromochloromethane	0.966	---	0.0397	mg/kg dry	50	0.795	ND	122	78-125%	---	---	
Bromodichloromethane	0.755	---	0.0397	mg/kg dry	50	0.795	ND	95	75-127%	---	---	
Bromoform	0.697	---	0.0793	mg/kg dry	50	0.795	ND	88	67-132%	---	---	
Bromomethane	1.07	---	0.397	mg/kg dry	50	0.795	ND	134	53-143%	---	---	
2-Butanone (MEK)	1.92	---	0.397	mg/kg dry	50	1.59	ND	121	51-148%	---	---	
n-Butylbenzene	0.724	---	0.0397	mg/kg dry	50	0.795	ND	91	70-128%	---	---	
sec-Butylbenzene	0.819	---	0.0397	mg/kg dry	50	0.795	ND	103	73-126%	---	---	
tert-Butylbenzene	0.762	---	0.0397	mg/kg dry	50	0.795	ND	96	73-125%	---	---	
Carbon disulfide	0.930	---	0.397	mg/kg dry	50	0.795	ND	117	63-132%	---	---	
Carbon tetrachloride	0.722	---	0.0397	mg/kg dry	50	0.795	ND	91	70-135%	---	---	
Chlorobenzene	0.820	---	0.0198	mg/kg dry	50	0.795	ND	103	79-120%	---	---	
Chloroethane	0.770	---	0.397	mg/kg dry	50	0.795	ND	97	59-139%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Matrix Spike (9011023-MS1)			Prepared: 01/22/19 15:15		Analyzed: 01/24/19 22:19		T-02					
QC Source Sample: DP-7(6-7.5) (A9A0689-27)												
Chloroform	0.848	---	0.0397	mg/kg dry	50	0.795	ND	107	78-123%	---	---	
Chloromethane	0.762	---	0.198	mg/kg dry	50	0.795	ND	96	50-136%	---	---	
2-Chlorotoluene	0.830	---	0.0397	mg/kg dry	50	0.795	ND	104	75-122%	---	---	
4-Chlorotoluene	0.827	---	0.0397	mg/kg dry	50	0.795	ND	104	72-124%	---	---	
Dibromochloromethane	0.696	---	0.0793	mg/kg dry	50	0.795	ND	88	74-126%	---	---	
1,2-Dibromo-3-chloropropane	0.613	---	0.198	mg/kg dry	50	0.795	ND	77	61-132%	---	---	
1,2-Dibromoethane (EDB)	0.783	---	0.0397	mg/kg dry	50	0.795	ND	99	78-122%	---	---	
Dibromomethane	0.933	---	0.0397	mg/kg dry	50	0.795	ND	117	78-125%	---	---	
1,2-Dichlorobenzene	0.781	---	0.0198	mg/kg dry	50	0.795	ND	98	78-121%	---	---	
1,3-Dichlorobenzene	0.789	---	0.0198	mg/kg dry	50	0.795	ND	99	77-121%	---	---	
1,4-Dichlorobenzene	0.747	---	0.0198	mg/kg dry	50	0.795	ND	94	75-120%	---	---	
Dichlorodifluoromethane	0.753	---	0.0793	mg/kg dry	50	0.795	ND	95	29-149%	---	---	
1,1-Dichloroethane	0.923	---	0.0198	mg/kg dry	50	0.795	ND	116	76-125%	---	---	
1,2-Dichloroethane (EDC)	0.916	---	0.0198	mg/kg dry	50	0.795	ND	115	73-128%	---	---	
1,1-Dichloroethene	0.912	---	0.0198	mg/kg dry	50	0.795	ND	115	70-131%	---	---	
cis-1,2-Dichloroethene	0.868	---	0.0198	mg/kg dry	50	0.795	ND	109	77-123%	---	---	
trans-1,2-Dichloroethene	0.881	---	0.0198	mg/kg dry	50	0.795	ND	111	74-125%	---	---	
1,2-Dichloropropane	0.873	---	0.0198	mg/kg dry	50	0.795	ND	110	76-123%	---	---	
1,3-Dichloropropane	0.841	---	0.0397	mg/kg dry	50	0.795	ND	106	77-121%	---	---	
2,2-Dichloropropane	0.699	---	0.0397	mg/kg dry	50	0.795	ND	88	67-133%	---	---	
1,1-Dichloropropene	0.847	---	0.0397	mg/kg dry	50	0.795	ND	107	76-125%	---	---	
cis-1,3-Dichloropropene	0.639	---	0.0397	mg/kg dry	50	0.795	ND	80	74-126%	---	---	
trans-1,3-Dichloropropene	0.676	---	0.0397	mg/kg dry	50	0.795	ND	85	71-130%	---	---	
Ethylbenzene	0.814	---	0.0198	mg/kg dry	50	0.795	ND	102	76-122%	---	---	
Hexachlorobutadiene	0.725	---	0.0793	mg/kg dry	50	0.795	ND	91	61-135%	---	---	
2-Hexanone	1.53	---	0.397	mg/kg dry	50	1.59	ND	96	53-145%	---	---	
Isopropylbenzene	0.877	---	0.0397	mg/kg dry	50	0.795	ND	110	68-134%	---	---	
4-Isopropyltoluene	0.796	---	0.0397	mg/kg dry	50	0.795	ND	100	73-127%	---	---	
Methylene chloride	0.835	---	0.198	mg/kg dry	50	0.795	ND	105	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	1.81	---	0.397	mg/kg dry	50	1.59	ND	114	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	0.826	---	0.0397	mg/kg dry	50	0.795	ND	104	73-125%	---	---	
Naphthalene	0.618	---	0.0793	mg/kg dry	50	0.795	ND	78	62-129%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011023 - EPA 5035A						Soil						
Matrix Spike (9011023-MS1)			Prepared: 01/22/19 15:15		Analyzed: 01/24/19 22:19						T-02	
QC Source Sample: DP-7(6-7.5) (A9A0689-27)												
n-Propylbenzene	0.817	---	0.0198	mg/kg dry	50	0.795	ND	103	73-125%	---	---	
Styrene	0.787	---	0.0397	mg/kg dry	50	0.795	ND	99	76-124%	---	---	
1,1,1,2-Tetrachloroethane	0.715	---	0.0198	mg/kg dry	50	0.795	ND	90	78-125%	---	---	
1,1,2,2-Tetrachloroethane	0.872	---	0.0397	mg/kg dry	50	0.795	ND	110	70-124%	---	---	
Tetrachloroethene (PCE)	0.775	---	0.0198	mg/kg dry	50	0.795	ND	97	73-128%	---	---	
Toluene	0.754	---	0.0397	mg/kg dry	50	0.795	ND	95	77-121%	---	---	
1,2,3-Trichlorobenzene	0.737	---	0.198	mg/kg dry	50	0.795	ND	93	66-130%	---	---	
1,2,4-Trichlorobenzene	0.695	---	0.198	mg/kg dry	50	0.795	ND	88	67-129%	---	---	
1,1,1-Trichloroethane	0.868	---	0.0198	mg/kg dry	50	0.795	ND	109	73-130%	---	---	
1,1,2-Trichloroethane	0.864	---	0.0198	mg/kg dry	50	0.795	ND	109	78-121%	---	---	
Trichloroethene (TCE)	0.835	---	0.0198	mg/kg dry	50	0.795	ND	105	77-123%	---	---	
Trichlorofluoromethane	0.877	---	0.0793	mg/kg dry	50	0.795	ND	110	62-140%	---	---	
1,2,3-Trichloropropane	0.843	---	0.0397	mg/kg dry	50	0.795	ND	106	73-125%	---	---	
1,2,4-Trimethylbenzene	0.814	---	0.0397	mg/kg dry	50	0.795	ND	102	75-123%	---	---	
1,3,5-Trimethylbenzene	0.818	---	0.0397	mg/kg dry	50	0.795	ND	103	73-124%	---	---	
Vinyl chloride	0.981	---	0.0198	mg/kg dry	50	0.795	ND	123	56-135%	---	---	
m,p-Xylene	1.72	---	0.0397	mg/kg dry	50	1.59	ND	108	77-124%	---	---	
o-Xylene	0.854	---	0.0198	mg/kg dry	50	0.795	ND	107	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Blank (9011039-BLK1)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 16:52							
5035A/8260C												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Blank (9011039-BLK1)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 16:52							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Blank (9011039-BLK1)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 16:52							
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (9011039-BS3)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 15:58							
5035A/8260C												
Acetone	1.81	---	1.00	mg/kg wet	50	2.00	---	91	80-120%	---	---	
Acrylonitrile	1.03	---	0.100	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Benzene	1.04	---	0.0100	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Bromobenzene	0.945	---	0.0250	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Bromochloromethane	0.906	---	0.0500	mg/kg wet	50	1.00	---	91	80-120%	---	---	
Bromodichloromethane	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Bromoform	0.868	---	0.100	mg/kg wet	50	1.00	---	87	80-120%	---	---	
Bromomethane	0.906	---	0.500	mg/kg wet	50	1.00	---	91	80-120%	---	---	
2-Butanone (MEK)	2.02	---	0.500	mg/kg wet	50	2.00	---	101	80-120%	---	---	
n-Butylbenzene	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
sec-Butylbenzene	0.957	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
tert-Butylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Carbon disulfide	1.11	---	0.500	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Carbon tetrachloride	1.16	---	0.0500	mg/kg wet	50	1.00	---	116	80-120%	---	---	
Chlorobenzene	0.951	---	0.0250	mg/kg wet	50	1.00	---	95	80-120%	---	---	
Chloroethane	0.814	---	0.500	mg/kg wet	50	1.00	---	81	80-120%	---	---	
Chloroform	0.938	---	0.0500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Chloromethane	0.978	---	0.250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
2-Chlorotoluene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
4-Chlorotoluene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
Dibromochloromethane	0.881	---	0.100	mg/kg wet	50	1.00	---	88	80-120%	---	---	
1,2-Dibromo-3-chloropropane	0.973	---	0.250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,2-Dibromoethane (EDB)	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Dibromomethane	0.965	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
1,2-Dichlorobenzene	0.988	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,3-Dichlorobenzene	1.00	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,4-Dichlorobenzene	0.923	---	0.0250	mg/kg wet	50	1.00	---	92	80-120%	---	---	
Dichlorodifluoromethane	0.855	---	0.100	mg/kg wet	50	1.00	---	86	80-120%	---	---	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
LCS (9011039-BS3)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 15:58							
1,1-Dichloroethane	0.993	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,2-Dichloroethane (EDC)	0.902	---	0.0250	mg/kg wet	50	1.00	---	90	80-120%	---	---	
1,1-Dichloroethene	0.943	---	0.0250	mg/kg wet	50	1.00	---	94	80-120%	---	---	
cis-1,2-Dichloroethene	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,2-Dichloropropane	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
1,3-Dichloropropane	0.999	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
2,2-Dichloropropane	1.19	---	0.0500	mg/kg wet	50	1.00	---	119	80-120%	---	---	
1,1-Dichloropropene	1.11	---	0.0500	mg/kg wet	50	1.00	---	111	80-120%	---	---	
cis-1,3-Dichloropropene	0.971	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
trans-1,3-Dichloropropene	0.954	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
Ethylbenzene	0.977	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Hexachlorobutadiene	1.01	---	0.100	mg/kg wet	50	1.00	---	101	80-120%	---	---	
2-Hexanone	2.35	---	0.500	mg/kg wet	50	2.00	---	118	80-120%	---	---	
Isopropylbenzene	0.951	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
4-Isopropyltoluene	0.956	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Methylene chloride	0.974	---	0.250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.99	---	0.500	mg/kg wet	50	2.00	---	99	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Naphthalene	0.965	---	0.100	mg/kg wet	50	1.00	---	96	80-120%	---	---	
n-Propylbenzene	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Styrene	0.903	---	0.0500	mg/kg wet	50	1.00	---	90	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.946	---	0.0250	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Tetrachloroethene (PCE)	0.998	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Toluene	0.945	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,2,3-Trichlorobenzene	1.01	---	0.250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	1.02	---	0.250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,1,1-Trichloroethane	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,1,2-Trichloroethane	0.981	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Trichloroethene (TCE)	0.968	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Trichlorofluoromethane	0.640	---	0.100	mg/kg wet	50	1.00	---	64	80-120%	---	---	Q-55
1,2,3-Trichloropropane	0.983	---	0.0500	mg/kg wet	50	1.00	---	98	80-120%	---	---	
1,2,4-Trimethylbenzene	0.957	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
LCS (9011039-BS3)			Prepared: 01/24/19 13:00		Analyzed: 01/24/19 15:58							
1,3,5-Trimethylbenzene	0.957	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Vinyl chloride	0.862	---	0.0250	mg/kg wet	50	1.00	---	86	80-120%	---	---	
m,p-Xylene	1.89	---	0.0500	mg/kg wet	50	2.00	---	95	80-120%	---	---	
o-Xylene	0.957	---	0.0250	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						

Duplicate (9011039-DUP1)

Prepared: 01/22/19 16:00 Analyzed: 01/24/19 18:13

QC Source Sample: DP-8(1-2.5) (A9A0689-29)**5035A/8260C**

Acetone	ND	---	1.39	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.0139	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.348	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.348	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Duplicate (9011039-DUP1)			Prepared: 01/22/19 16:00		Analyzed: 01/24/19 18:13							
QC Source Sample: DP-8(1-2.5) (A9A0689-29)												
Dibromomethane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.348	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.695	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.348	mg/kg dry	50	---	ND	---	---	---	30%	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Duplicate (9011039-DUP1)			Prepared: 01/22/19 16:00		Analyzed: 01/24/19 18:13							
QC Source Sample: DP-8(1-2.5) (A9A0689-29)												
1,2,4-Trichlorobenzene	ND	---	0.348	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.139	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0695	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0348	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						

Matrix Spike (9011039-MS1)

Prepared: 01/23/19 15:15 Analyzed: 01/25/19 03:13

QC Source Sample: DP-17(9-10) (A9A0689-71)**5035A/8260C**

Acetone	2.93	---	1.21	mg/kg dry	50	2.41	ND	121	36-164%	---	---
Acrylonitrile	1.46	---	0.121	mg/kg dry	50	1.21	ND	121	65-134%	---	---
Benzene	1.37	---	0.0121	mg/kg dry	50	1.21	ND	114	77-121%	---	---
Bromobenzene	1.17	---	0.0302	mg/kg dry	50	1.21	ND	97	78-121%	---	---
Bromochloromethane	1.33	---	0.0604	mg/kg dry	50	1.21	ND	110	78-125%	---	---
Bromodichloromethane	1.35	---	0.0604	mg/kg dry	50	1.21	ND	112	75-127%	---	---
Bromoform	1.06	---	0.121	mg/kg dry	50	1.21	ND	88	67-132%	---	---
Bromomethane	1.49	---	0.604	mg/kg dry	50	1.21	ND	123	53-143%	---	---
2-Butanone (MEK)	2.97	---	0.604	mg/kg dry	50	2.41	ND	123	51-148%	---	---
n-Butylbenzene	1.33	---	0.0604	mg/kg dry	50	1.21	ND	110	70-128%	---	---
sec-Butylbenzene	1.17	---	0.0604	mg/kg dry	50	1.21	ND	97	73-126%	---	---
tert-Butylbenzene	1.28	---	0.0604	mg/kg dry	50	1.21	ND	106	73-125%	---	---
Carbon disulfide	1.57	---	0.604	mg/kg dry	50	1.21	ND	130	63-132%	---	---
Carbon tetrachloride	1.50	---	0.0604	mg/kg dry	50	1.21	ND	124	70-135%	---	---
Chlorobenzene	1.24	---	0.0302	mg/kg dry	50	1.21	ND	102	79-120%	---	---

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A						Soil						
Matrix Spike (9011039-MS1)			Prepared: 01/23/19 15:15		Analyzed: 01/25/19 03:13							
QC Source Sample: DP-17(9-10) (A9A0689-71)												
Chloroethane	1.38	---	0.604	mg/kg dry	50	1.21	ND	115	59-139%	---	---	
Chloroform	1.26	---	0.0604	mg/kg dry	50	1.21	ND	105	78-123%	---	---	
Chloromethane	1.40	---	0.302	mg/kg dry	50	1.21	ND	116	50-136%	---	---	
2-Chlorotoluene	1.26	---	0.0604	mg/kg dry	50	1.21	ND	105	75-122%	---	---	
4-Chlorotoluene	1.35	---	0.0604	mg/kg dry	50	1.21	ND	112	72-124%	---	---	
Dibromochloromethane	1.12	---	0.121	mg/kg dry	50	1.21	ND	93	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1.17	---	0.302	mg/kg dry	50	1.21	ND	97	61-132%	---	---	
1,2-Dibromoethane (EDB)	1.29	---	0.0604	mg/kg dry	50	1.21	ND	107	78-122%	---	---	
Dibromomethane	1.31	---	0.0604	mg/kg dry	50	1.21	ND	109	78-125%	---	---	
1,2-Dichlorobenzene	1.22	---	0.0302	mg/kg dry	50	1.21	ND	101	78-121%	---	---	
1,3-Dichlorobenzene	1.24	---	0.0302	mg/kg dry	50	1.21	ND	103	77-121%	---	---	
1,4-Dichlorobenzene	1.15	---	0.0302	mg/kg dry	50	1.21	ND	95	75-120%	---	---	
Dichlorodifluoromethane	1.20	---	0.121	mg/kg dry	50	1.21	ND	99	29-149%	---	---	
1,1-Dichloroethane	1.39	---	0.0302	mg/kg dry	50	1.21	ND	115	76-125%	---	---	
1,2-Dichloroethane (EDC)	1.24	---	0.0302	mg/kg dry	50	1.21	ND	103	73-128%	---	---	
1,1-Dichloroethene	1.33	---	0.0302	mg/kg dry	50	1.21	ND	110	70-131%	---	---	
cis-1,2-Dichloroethene	1.38	---	0.0302	mg/kg dry	50	1.21	ND	114	77-123%	---	---	
trans-1,2-Dichloroethene	1.35	---	0.0302	mg/kg dry	50	1.21	ND	112	74-125%	---	---	
1,2-Dichloropropane	1.38	---	0.0302	mg/kg dry	50	1.21	ND	114	76-123%	---	---	
1,3-Dichloropropane	1.31	---	0.0604	mg/kg dry	50	1.21	ND	109	77-121%	---	---	
2,2-Dichloropropane	1.14	---	0.0604	mg/kg dry	50	1.21	ND	95	67-133%	---	---	
1,1-Dichloropropene	1.44	---	0.0604	mg/kg dry	50	1.21	ND	119	76-125%	---	---	
cis-1,3-Dichloropropene	1.13	---	0.0604	mg/kg dry	50	1.21	ND	93	74-126%	---	---	
trans-1,3-Dichloropropene	1.18	---	0.0604	mg/kg dry	50	1.21	ND	98	71-130%	---	---	
Ethylbenzene	1.28	---	0.0302	mg/kg dry	50	1.21	ND	106	76-122%	---	---	
Hexachlorobutadiene	1.13	---	0.121	mg/kg dry	50	1.21	ND	94	61-135%	---	---	
2-Hexanone	3.17	---	0.604	mg/kg dry	50	2.41	ND	131	53-145%	---	---	
Isopropylbenzene	1.18	---	0.0604	mg/kg dry	50	1.21	ND	98	68-134%	---	---	
4-Isopropyltoluene	1.15	---	0.0604	mg/kg dry	50	1.21	ND	95	73-127%	---	---	
Methylene chloride	1.37	---	0.302	mg/kg dry	50	1.21	ND	113	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2.64	---	0.604	mg/kg dry	50	2.41	ND	109	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1.36	---	0.0604	mg/kg dry	50	1.21	ND	113	73-125%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011039 - EPA 5035A							Soil					
Matrix Spike (9011039-MS1)			Prepared: 01/23/19 15:15		Analyzed: 01/25/19 03:13							
QC Source Sample: DP-17(9-10) (A9A0689-71)												
Naphthalene	1.11	---	0.121	mg/kg dry	50	1.21	ND	92	62-129%	---	---	Q-54
n-Propylbenzene	1.30	---	0.0302	mg/kg dry	50	1.21	ND	108	73-125%	---	---	
Styrene	1.17	---	0.0604	mg/kg dry	50	1.21	ND	97	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1.20	---	0.0302	mg/kg dry	50	1.21	ND	99	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1.17	---	0.0604	mg/kg dry	50	1.21	ND	97	70-124%	---	---	
Tetrachloroethene (PCE)	1.27	---	0.0302	mg/kg dry	50	1.21	ND	105	73-128%	---	---	
Toluene	1.23	---	0.0604	mg/kg dry	50	1.21	ND	102	77-121%	---	---	
1,2,3-Trichlorobenzene	1.19	---	0.302	mg/kg dry	50	1.21	ND	99	66-130%	---	---	
1,2,4-Trichlorobenzene	1.12	---	0.302	mg/kg dry	50	1.21	ND	92	67-129%	---	---	
1,1,1-Trichloroethane	1.35	---	0.0302	mg/kg dry	50	1.21	ND	112	73-130%	---	---	
1,1,2-Trichloroethane	1.28	---	0.0302	mg/kg dry	50	1.21	ND	106	78-121%	---	---	
Trichloroethene (TCE)	1.30	---	0.0302	mg/kg dry	50	1.21	ND	108	77-123%	---	---	
Trichlorofluoromethane	0.989	---	0.121	mg/kg dry	50	1.21	ND	82	62-140%	---	---	
1,2,3-Trichloropropane	1.21	---	0.0604	mg/kg dry	50	1.21	ND	100	73-125%	---	---	
1,2,4-Trimethylbenzene	1.18	---	0.0604	mg/kg dry	50	1.21	ND	97	75-123%	---	---	
1,3,5-Trimethylbenzene	1.20	---	0.0604	mg/kg dry	50	1.21	ND	99	73-124%	---	---	
Vinyl chloride	1.29	---	0.0302	mg/kg dry	50	1.21	ND	107	56-135%	---	---	
m,p-Xylene	2.48	---	0.0604	mg/kg dry	50	2.41	ND	103	77-124%	---	---	
o-Xylene	1.22	---	0.0302	mg/kg dry	50	1.21	ND	101	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 9011054 - EPA 3546													
Soil													
Blank (9011054-BLK1)			Prepared: 01/25/19 07:03		Analyzed: 01/30/19 17:51		C-07						
EPA 8082A													
Aroclor 1016	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1221	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1232	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1242	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1248	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1254	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1260	ND	---	0.00364	mg/kg wet	1	---	---	---	---	---	---		
Surr: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %		Dilution: 1x							
LCS (9011054-BS1)													
Prepared: 01/25/19 07:03			Analyzed: 01/30/19 18:09		C-07								
EPA 8082A													
Aroclor 1016	0.174	---	0.00400	mg/kg wet	1	0.250	---	70	47-134%	---	---		
Aroclor 1260	0.191	---	0.00400	mg/kg wet	1	0.250	---	77	53-140%	---	---		
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x							
Duplicate (9011054-DUP3)													
Prepared: 01/25/19 07:03			Analyzed: 02/01/19 18:40		C-07								
QC Source Sample: Non-SDG (A9A0514-BYRE2)													
Aroclor 1016	ND	---	0.235	mg/kg dry	50	---	ND	---	---	---	30%		
Aroclor 1221	ND	---	0.235	mg/kg dry	50	---	ND	---	---	---	30%		
Aroclor 1232	ND	---	0.235	mg/kg dry	50	---	ND	---	---	---	30%		
Aroclor 1242	ND	---	0.235	mg/kg dry	50	---	ND	---	---	---	30%		
Aroclor 1248	ND	---	0.235	mg/kg dry	50	---	ND	---	---	---	30%		
Aroclor 1254	3.33	---	0.235	mg/kg dry	50	---	3.38	---	---	2	30%	P-10	
Aroclor 1260	2.48	---	0.235	mg/kg dry	50	---	2.07	---	---	18	30%	P-10	
Surr: Decachlorobiphenyl (Surr)		Recovery: 119 %		Limits: 60-125 %		Dilution: 50x							S-05
Matrix Spike (9011054-MS1)													
Prepared: 01/25/19 07:03			Analyzed: 01/30/19 21:15		C-07								
QC Source Sample: Non-SDG (A9A0514-CKRE1)													
EPA 8082A													
Aroclor 1016	0.169	---	0.00375	mg/kg wet	1	0.234	ND	72	47-134%	---	---		
Aroclor 1260	0.182	---	0.00375	mg/kg wet	1	0.234	0.00206	77	53-140%	---	---		
Surr: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %		Dilution: 1x							

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011054 - EPA 3546							Soil					

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011066 - EPA 3546												
Soil												
Blank (9011066-BLK1)			Prepared: 01/25/19 11:07		Analyzed: 02/01/19 16:16		C-07					
EPA 8082A												
Aroclor 1016	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)												
		Recovery: 87 %		Limits: 60-125 %		Dilution: 1x						
LCS (9011066-BS1)												
Prepared: 01/25/19 11:07			Analyzed: 02/01/19 16:35		C-07							
EPA 8082A												
Aroclor 1016	0.173	---	0.00400	mg/kg wet	1	0.250	---	69	47-134%	---	---	
Aroclor 1260	0.203	---	0.00400	mg/kg wet	1	0.250	---	81	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)												
		Recovery: 89 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (9011066-DUP1)												
Prepared: 01/25/19 11:07			Analyzed: 02/01/19 19:03		C-07							
QC Source Sample: Non-SDG (A9A0514-CLRE1)												
Aroclor 1016	ND	---	0.363	mg/kg wet	100	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	0.363	mg/kg wet	100	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.363	mg/kg wet	100	---	ND	---	---	---	30%	
Aroclor 1242	1.71	---	0.363	mg/kg wet	100	---	2.72	---	---	46	30%	P-10, Q-17
Aroclor 1248	ND	---	0.363	mg/kg wet	100	---	ND	---	---	---	30%	
Aroclor 1254	7.30	---	0.363	mg/kg wet	100	---	6.77	---	---	7	30%	P-10
Aroclor 1260	3.47	---	0.363	mg/kg wet	100	---	4.58	---	---	27	30%	P-10
Surr: Decachlorobiphenyl (Surr)												
		Recovery: 181 %		Limits: 60-125 %		Dilution: 100x						
S-05												
Matrix Spike (9011066-MS1)												
Prepared: 01/25/19 11:07			Analyzed: 02/04/19 10:01		C-07							
QC Source Sample: Non-SDG (A9A0514-DMRE2)												
EPA 8082A												
Aroclor 1016	0.155	---	0.00394	mg/kg wet	1	0.246	ND	63	47-134%	---	---	
Aroclor 1260	0.163	---	0.00394	mg/kg wet	1	0.246	0.00422	64	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)												
		Recovery: 71 %		Limits: 60-125 %		Dilution: 1x						

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011066 - EPA 3546							Soil					

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QUALITY CONTROL (QC) SAMPLE RESULTS**Polychlorinated Biphenyls by EPA 8082A**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011099 - EPA 3546						Soil						
Blank (9011099-BLK1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 18:35						C-07			
EPA 8082A												
Aroclor 1016	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 81 %		Limits: 60-125 %		Dilution: 1x						
LCS (9011099-BS1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 18:54						C-07			
EPA 8082A												
Aroclor 1016	0.167	---	0.00400	mg/kg wet	1	0.250	---	67	47-134%	---	---	
Aroclor 1260	0.190	---	0.00400	mg/kg wet	1	0.250	---	76	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (9011099-DUP1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 19:50						C-07			
QC Source Sample: Non-SDG (A9A0514-19RE2)												
Aroclor 1016	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1242	0.00755	---	0.00350	mg/kg wet	1	---	0.00736	---	---	3	30%	P-10
Aroclor 1248	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1254	0.00564	---	0.00350	mg/kg wet	1	---	0.00890	---	---	45	30%	P-10, Q-05
Aroclor 1260	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 64 %		Limits: 60-125 %		Dilution: 1x						
Matrix Spike (9011099-MS1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 20:27						C-07			
QC Source Sample: Non-SDG (A9A0514-19RE2)												
EPA 8082A												
Aroclor 1016	0.125	---	0.00351	mg/kg wet	1	0.219	ND	57	47-134%	---	---	
Aroclor 1260	0.123	---	0.00351	mg/kg wet	1	0.219	ND	56	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 68 %		Limits: 60-125 %		Dilution: 1x						

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011099 - EPA 3546							Soil					

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QUALITY CONTROL (QC) SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011042 - EPA 3546						Soil						
Blank (9011042-BLK1)			Prepared: 01/24/19 13:38 Analyzed: 01/27/19 10:43									
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 91 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		101 %		54-127 %		"						

LCS (9011042-BS1) Prepared: 01/24/19 13:38 Analyzed: 01/27/19 11:09

EPA 8270D (SIM)												
Acenaphthene	0.753	---	0.0100	mg/kg wet	1	0.800	---	94	40-122%	---	---	
Acenaphthylene	0.769	---	0.0100	mg/kg wet	1	0.800	---	96	32-132%	---	---	
Anthracene	0.748	---	0.0100	mg/kg wet	1	0.800	---	93	47-123%	---	---	
Benz(a)anthracene	0.781	---	0.0100	mg/kg wet	1	0.800	---	98	49-126%	---	---	
Benzo(a)pyrene	0.759	---	0.0100	mg/kg wet	1	0.800	---	95	45-129%	---	---	
Benzo(b)fluoranthene	0.765	---	0.0100	mg/kg wet	1	0.800	---	96	45-132%	---	---	
Benzo(k)fluoranthene	0.744	---	0.0100	mg/kg wet	1	0.800	---	93	47-132%	---	---	
Benzo(g,h,i)perylene	0.805	---	0.0100	mg/kg wet	1	0.800	---	101	43-134%	---	---	
Chrysene	0.770	---	0.0100	mg/kg wet	1	0.800	---	96	50-124%	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011042 - EPA 3546						Soil						
LCS (9011042-BS1)			Prepared: 01/24/19 13:38		Analyzed: 01/27/19 11:09							
Dibenz(a,h)anthracene	0.774	---	0.0100	mg/kg wet	1	0.800	---	97	45-134%	---	---	
Dibenzofuran	0.762	---	0.0100	mg/kg wet	1	0.800	---	95	44-120%	---	---	
Fluoranthene	0.731	---	0.0100	mg/kg wet	1	0.800	---	91	50-127%	---	---	
Fluorene	0.763	---	0.0100	mg/kg wet	1	0.800	---	95	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.784	---	0.0100	mg/kg wet	1	0.800	---	98	45-133%	---	---	
1-Methylnaphthalene	0.741	---	0.0100	mg/kg wet	1	0.800	---	93	40-120%	---	---	
2-Methylnaphthalene	0.731	---	0.0100	mg/kg wet	1	0.800	---	91	38-122%	---	---	
Naphthalene	0.728	---	0.0100	mg/kg wet	1	0.800	---	91	35-123%	---	---	
Phenanthrene	0.758	---	0.0100	mg/kg wet	1	0.800	---	95	50-121%	---	---	
Pyrene	0.746	---	0.0100	mg/kg wet	1	0.800	---	93	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 90 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		91 %		54-127 %		"						

Duplicate (9011042-DUP1) Prepared: 01/24/19 13:46 Analyzed: 01/27/19 12:28**QC Source Sample: Non-SDG (A9A0322-01)**

Acenaphthene	ND	---	0.461	mg/kg dry	5	---	ND	---	---	---	30%	R-02
Acenaphthylene	ND	---	0.162	mg/kg dry	5	---	ND	---	---	---	30%	R-02
Anthracene	ND	---	0.193	mg/kg dry	5	---	ND	---	---	---	30%	R-02
Benz(a)anthracene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Chrysene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	0.629	mg/kg dry	5	---	ND	---	---	---	30%	R-02
Fluoranthene	0.0659	---	0.0623	mg/kg dry	5	---	0.0545	---	---	19	30%	
Fluorene	1.20	---	0.0623	mg/kg dry	5	---	1.16	---	---	3	30%	
Indeno(1,2,3-cd)pyrene	ND	---	0.0623	mg/kg dry	5	---	ND	---	---	---	30%	
1-Methylnaphthalene	3.83	---	0.0623	mg/kg dry	5	---	4.25	---	---	10	30%	
2-Methylnaphthalene	3.70	---	0.0623	mg/kg dry	5	---	4.21	---	---	13	30%	
Naphthalene	ND	---	0.0997	mg/kg dry	5	---	ND	---	---	---	30%	R-02
Phenanthrene	2.13	---	0.0623	mg/kg dry	5	---	1.88	---	---	12	30%	
Pyrene	0.243	---	0.0623	mg/kg dry	5	---	0.203	---	---	18	30%	M-02

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011042 - EPA 3546						Soil						
Duplicate (9011042-DUP1)			Prepared: 01/24/19 13:46 Analyzed: 01/27/19 12:28									
QC Source Sample: Non-SDG (A9A0322-01)												
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 85 %		Limits: 44-120 %		Dilution: 5x						
p-Terphenyl-d14 (Surr)		100 %		54-127 %		"						
Matrix Spike (9011042-MS1)			Prepared: 01/24/19 13:46 Analyzed: 01/27/19 13:20									
QC Source Sample: DP-17(9-10) (A9A0689-71)												
EPA 8270D (SIM)												
Acenaphthene	0.690	---	0.0118	mg/kg dry	1	0.947	ND	73	40-122%	---	---	
Acenaphthylene	0.697	---	0.0118	mg/kg dry	1	0.947	ND	74	32-132%	---	---	
Anthracene	0.695	---	0.0118	mg/kg dry	1	0.947	ND	73	47-123%	---	---	
Benz(a)anthracene	0.727	---	0.0118	mg/kg dry	1	0.947	ND	77	49-126%	---	---	
Benzo(a)pyrene	0.695	---	0.0118	mg/kg dry	1	0.947	ND	73	45-129%	---	---	
Benzo(b)fluoranthene	0.707	---	0.0118	mg/kg dry	1	0.947	ND	75	45-132%	---	---	
Benzo(k)fluoranthene	0.685	---	0.0118	mg/kg dry	1	0.947	ND	72	47-132%	---	---	
Benzo(g,h,i)perylene	0.723	---	0.0118	mg/kg dry	1	0.947	ND	76	43-134%	---	---	
Chrysene	0.713	---	0.0118	mg/kg dry	1	0.947	ND	75	50-124%	---	---	
Dibenz(a,h)anthracene	0.708	---	0.0118	mg/kg dry	1	0.947	ND	75	45-134%	---	---	
Dibenzofuran	0.699	---	0.0118	mg/kg dry	1	0.947	ND	74	44-120%	---	---	
Fluoranthene	0.684	---	0.0118	mg/kg dry	1	0.947	ND	72	50-127%	---	---	
Fluorene	0.709	---	0.0118	mg/kg dry	1	0.947	ND	75	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.711	---	0.0118	mg/kg dry	1	0.947	ND	75	45-133%	---	---	
1-Methylnaphthalene	0.683	---	0.0118	mg/kg dry	1	0.947	ND	72	40-120%	---	---	
2-Methylnaphthalene	0.675	---	0.0118	mg/kg dry	1	0.947	ND	71	38-122%	---	---	
Naphthalene	0.656	---	0.0118	mg/kg dry	1	0.947	ND	69	35-123%	---	---	
Phenanthrene	0.702	---	0.0118	mg/kg dry	1	0.947	ND	74	50-121%	---	---	
Pyrene	0.695	---	0.0118	mg/kg dry	1	0.947	ND	73	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 66 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		71 %		54-127 %		"						

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011117 - EPA 3546						Soil						
Blank (9011117-BLK1)			Prepared: 01/28/19 15:12 Analyzed: 01/29/19 11:10									
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 84 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		86 %		54-127 %		"						

LCS (9011117-BS1) Prepared: 01/28/19 15:12 Analyzed: 01/29/19 11:37

EPA 8270D (SIM)

Acenaphthene	0.670	---	0.0100	mg/kg wet	1	0.800	---	84	40-122%	---	---
Acenaphthylene	0.680	---	0.0100	mg/kg wet	1	0.800	---	85	32-132%	---	---
Anthracene	0.682	---	0.0100	mg/kg wet	1	0.800	---	85	47-123%	---	---
Benz(a)anthracene	0.698	---	0.0100	mg/kg wet	1	0.800	---	87	49-126%	---	---
Benzo(a)pyrene	0.693	---	0.0100	mg/kg wet	1	0.800	---	87	45-129%	---	---
Benzo(b)fluoranthene	0.666	---	0.0100	mg/kg wet	1	0.800	---	83	45-132%	---	---
Benzo(k)fluoranthene	0.704	---	0.0100	mg/kg wet	1	0.800	---	88	47-132%	---	---
Benzo(g,h,i)perylene	0.667	---	0.0100	mg/kg wet	1	0.800	---	83	43-134%	---	---
Chrysene	0.704	---	0.0100	mg/kg wet	1	0.800	---	88	50-124%	---	---

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011117 - EPA 3546						Soil						
LCS (9011117-BS1)			Prepared: 01/28/19 15:12		Analyzed: 01/29/19 11:37							
Dibenz(a,h)anthracene	0.696	---	0.0100	mg/kg wet	1	0.800	---	87	45-134%	---	---	
Dibenzofuran	0.687	---	0.0100	mg/kg wet	1	0.800	---	86	44-120%	---	---	
Fluoranthene	0.692	---	0.0100	mg/kg wet	1	0.800	---	86	50-127%	---	---	
Fluorene	0.694	---	0.0100	mg/kg wet	1	0.800	---	87	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.676	---	0.0100	mg/kg wet	1	0.800	---	85	45-133%	---	---	
1-Methylnaphthalene	0.682	---	0.0100	mg/kg wet	1	0.800	---	85	40-120%	---	---	
2-Methylnaphthalene	0.673	---	0.0100	mg/kg wet	1	0.800	---	84	38-122%	---	---	
Naphthalene	0.664	---	0.0100	mg/kg wet	1	0.800	---	83	35-123%	---	---	
Phenanthrene	0.674	---	0.0100	mg/kg wet	1	0.800	---	84	50-121%	---	---	
Pyrene	0.696	---	0.0100	mg/kg wet	1	0.800	---	87	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 81 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		79 %		54-127 %		"						

Duplicate (9011117-DUP1)

Prepared: 01/28/19 15:12 Analyzed: 01/29/19 13:22

QC Source Sample: DP-3(1.5-3) (A9A0689-09)**EPA 8270D (SIM)**

Acenaphthene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Acenaphthylene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Anthracene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Benz(a)anthracene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(a)pyrene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(b)fluoranthene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(k)fluoranthene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(g,h,i)perylene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Chrysene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Dibenz(a,h)anthracene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Dibenzofuran	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Fluoranthene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Fluorene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Indeno(1,2,3-cd)pyrene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
1-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
2-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Naphthalene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%
Phenanthrene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011117 - EPA 3546						Soil						
Duplicate (9011117-DUP1)			Prepared: 01/28/19 15:12 Analyzed: 01/29/19 13:22									
QC Source Sample: DP-3(1.5-3) (A9A0689-09)												
Pyrene	ND	---	0.0119	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 75 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		78 %		54-127 %		"						

Matrix Spike (9011117-MS1)

Prepared: 01/28/19 15:12 Analyzed: 01/29/19 14:15

QC Source Sample: Non-SDG (A9A0758-BD)**EPA 8270D (SIM)**

Acenaphthene	0.654	---	0.0118	mg/kg dry	1	0.944	ND	69	40-122%	---	---	
Acenaphthylene	0.670	---	0.0118	mg/kg dry	1	0.944	ND	71	32-132%	---	---	
Anthracene	0.665	---	0.0118	mg/kg dry	1	0.944	ND	70	47-123%	---	---	
Benzo(a)anthracene	0.669	---	0.0118	mg/kg dry	1	0.944	ND	71	49-126%	---	---	
Benzo(a)pyrene	0.664	---	0.0118	mg/kg dry	1	0.944	ND	70	45-129%	---	---	
Benzo(b)fluoranthene	0.638	---	0.0118	mg/kg dry	1	0.944	ND	68	45-132%	---	---	
Benzo(k)fluoranthene	0.669	---	0.0118	mg/kg dry	1	0.944	ND	71	47-132%	---	---	
Benzo(g,h,i)perylene	0.621	---	0.0118	mg/kg dry	1	0.944	ND	66	43-134%	---	---	
Chrysene	0.671	---	0.0118	mg/kg dry	1	0.944	ND	71	50-124%	---	---	
Dibenz(a,h)anthracene	0.667	---	0.0118	mg/kg dry	1	0.944	ND	71	45-134%	---	---	
Dibenzofuran	0.670	---	0.0118	mg/kg dry	1	0.944	ND	71	44-120%	---	---	
Fluoranthene	0.673	---	0.0118	mg/kg dry	1	0.944	ND	71	50-127%	---	---	
Fluorene	0.675	---	0.0118	mg/kg dry	1	0.944	ND	72	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.640	---	0.0118	mg/kg dry	1	0.944	ND	68	45-133%	---	---	
1-Methylnaphthalene	0.674	---	0.0118	mg/kg dry	1	0.944	ND	71	40-120%	---	---	
2-Methylnaphthalene	0.659	---	0.0118	mg/kg dry	1	0.944	ND	70	38-122%	---	---	
Naphthalene	0.654	---	0.0118	mg/kg dry	1	0.944	ND	69	35-123%	---	---	
Phenanthrene	0.663	---	0.0118	mg/kg dry	1	0.944	ND	70	50-121%	---	---	
Pyrene	0.674	---	0.0118	mg/kg dry	1	0.944	ND	71	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 66 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		68 %		54-127 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011058 - EPA 3051A												
Soil												
Blank (9011058-BLK1)												
Prepared: 01/25/19 08:32 Analyzed: 01/25/19 17:35												
EPA 6020A												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
LCS (9011058-BS1)												
Prepared: 01/25/19 08:32 Analyzed: 01/25/19 17:30												
EPA 6020A												
Arsenic	52.3	---	1.00	mg/kg wet	10	50.0	---	105	80-120%	---	---	
Barium	52.7	---	1.00	mg/kg wet	10	50.0	---	105	80-120%	---	---	
Cadmium	49.2	---	0.200	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Chromium	51.5	---	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Lead	51.4	---	0.200	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Mercury	0.982	---	0.0800	mg/kg wet	10	1.00	---	98	80-120%	---	---	
Selenium	24.2	---	1.00	mg/kg wet	10	25.0	---	97	80-120%	---	---	
Silver	24.4	---	0.200	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Duplicate (9011058-DUP1)												
Prepared: 01/25/19 08:32 Analyzed: 01/25/19 18:15												
QC Source Sample: DP-3(6.5-8) (A9A0689-11)												
EPA 6020A												
Arsenic	8.37	---	1.39	mg/kg dry	10	---	9.16	---	---	9	40%	
Barium	160	---	1.39	mg/kg dry	10	---	165	---	---	3	40%	
Cadmium	0.735	---	0.278	mg/kg dry	10	---	0.819	---	---	11	40%	
Chromium	21.6	---	1.39	mg/kg dry	10	---	19.5	---	---	10	40%	
Lead	9.25	---	0.278	mg/kg dry	10	---	11.4	---	---	21	40%	
Mercury	ND	---	0.111	mg/kg dry	10	---	ND	---	---	---	40%	
Selenium	ND	---	1.39	mg/kg dry	10	---	ND	---	---	---	40%	
Silver	ND	---	0.278	mg/kg dry	10	---	ND	---	---	---	40%	
Matrix Spike (9011058-MS1)												
Prepared: 01/25/19 08:32 Analyzed: 01/25/19 18:19												

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011058 - EPA 3051A						Soil						
Matrix Spike (9011058-MS1)			Prepared: 01/25/19 08:32 Analyzed: 01/25/19 18:19									
QC Source Sample: DP-3(6.5-8) (A9A0689-11)												
EPA 6020A												
Arsenic	88.4	---	1.44	mg/kg dry	10	72.1	9.16	110	75-125%	---	---	
Barium	237	---	1.44	mg/kg dry	10	72.1	165	100	75-125%	---	---	
Cadmium	73.1	---	0.288	mg/kg dry	10	72.1	0.819	100	75-125%	---	---	
Chromium	104	---	1.44	mg/kg dry	10	72.1	19.5	117	75-125%	---	---	
Lead	84.1	---	0.288	mg/kg dry	10	72.1	11.4	101	75-125%	---	---	
Mercury	1.38	---	0.115	mg/kg dry	10	1.44	ND	96	75-125%	---	---	
Selenium	35.2	---	1.44	mg/kg dry	10	36.0	ND	98	75-125%	---	---	
Silver	35.5	---	0.288	mg/kg dry	10	36.0	ND	98	75-125%	---	---	
Matrix Spike (9011058-MS2)			Prepared: 01/25/19 08:32 Analyzed: 01/25/19 20:06									
QC Source Sample: Non-SDG (A9A0723-01)												
EPA 6020A												
Arsenic	121	---	2.15	mg/kg dry	10	108	2.08	111	75-125%	---	---	
Barium	270	---	2.15	mg/kg dry	10	108	143	118	75-125%	---	---	
Cadmium	114	---	0.431	mg/kg dry	10	108	1.11	105	75-125%	---	---	
Chromium	147	---	2.15	mg/kg dry	10	108	24.3	114	75-125%	---	---	
Lead	141	---	0.431	mg/kg dry	10	108	17.1	115	75-125%	---	---	
Mercury	2.25	---	0.172	mg/kg dry	10	2.15	ND	104	75-125%	---	---	
Selenium	52.7	---	2.15	mg/kg dry	10	53.8	ND	98	75-125%	---	---	
Silver	55.1	---	0.431	mg/kg dry	10	53.8	ND	102	75-125%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011113 - EPA 3051A												
Soil												
Blank (9011113-BLK1)												
Prepared: 01/28/19 13:34 Analyzed: 01/30/19 21:48												
EPA 6020A												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
LCS (9011113-BS1)												
Prepared: 01/28/19 13:34 Analyzed: 01/30/19 21:53												
EPA 6020A												
Arsenic	48.6	---	1.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Barium	50.4	---	1.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.7	---	0.200	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Chromium	51.5	---	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Lead	49.8	---	0.200	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Mercury	0.999	---	0.0800	mg/kg wet	10	1.00	---	100	80-120%	---	---	
Selenium	22.1	---	1.00	mg/kg wet	10	25.0	---	88	80-120%	---	---	
Silver	25.4	---	0.200	mg/kg wet	10	25.0	---	102	80-120%	---	---	
Duplicate (9011113-DUP1)												
Prepared: 01/28/19 13:34 Analyzed: 01/30/19 22:20												
QC Source Sample: Non-SDG (A9A0582-18)												
Mercury	ND	---	0.0871	mg/kg dry	10	---	ND	---	---	---	40%	
Duplicate (9011113-DUP2)												
Prepared: 01/28/19 13:34 Analyzed: 02/04/19 14:42												
QC Source Sample: Non-SDG (A9A0582-18)												
Arsenic	4.99	---	1.09	mg/kg dry	10	---	3.93	---	---	24	40%	Q-16
Barium	24.6	---	1.09	mg/kg dry	10	---	23.0	---	---	7	40%	Q-16
Cadmium	ND	---	0.218	mg/kg dry	10	---	ND	---	---	---	40%	Q-16
Chromium	8.24	---	1.09	mg/kg dry	10	---	7.74	---	---	6	40%	Q-16
Lead	7.56	---	1.09	mg/kg dry	10	---	6.36	---	---	17	40%	Q-16
Selenium	ND	---	1.09	mg/kg dry	10	---	ND	---	---	---	40%	Q-16

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011113 - EPA 3051A						Soil						
Duplicate (9011113-DUP2)			Prepared: 01/28/19 13:34 Analyzed: 02/04/19 14:42									
QC Source Sample: Non-SDG (A9A0582-18)												
Silver	ND	---	0.218	mg/kg dry	10	---	ND	---	---	---	40%	Q-16
Matrix Spike (9011113-MS1)			Prepared: 01/28/19 13:34 Analyzed: 01/30/19 22:26									
QC Source Sample: Non-SDG (A9A0582-18)												
EPA 6020A												
Arsenic	58.1	---	1.12	mg/kg dry	10	56.2	3.93	96	75-125%	---	---	Q-04
Barium	90.8	---	1.12	mg/kg dry	10	56.2	23.0	121	75-125%	---	---	
Cadmium	55.8	---	0.225	mg/kg dry	10	56.2	ND	99	75-125%	---	---	
Chromium	81.4	---	1.12	mg/kg dry	10	56.2	7.74	131	75-125%	---	---	
Lead	60.6	---	0.225	mg/kg dry	10	56.2	6.36	96	75-125%	---	---	
Mercury	1.06	---	0.0899	mg/kg dry	10	1.12	ND	94	75-125%	---	---	
Selenium	26.4	---	1.12	mg/kg dry	10	28.1	ND	94	75-125%	---	---	
Silver	28.3	---	0.225	mg/kg dry	10	28.1	ND	101	75-125%	---	---	
Matrix Spike (9011113-MS2)			Prepared: 01/28/19 13:34 Analyzed: 01/31/19 00:15									
QC Source Sample: DP-7(2-3) (A9A0689-26)												
EPA 6020A												
Arsenic	55.0	---	1.12	mg/kg dry	10	56.0	3.05	93	75-125%	---	---	A-03, Q-01 B-02
Barium	148	---	1.12	mg/kg dry	10	56.0	86.8	109	75-125%	---	---	
Cadmium	53.8	---	0.224	mg/kg dry	10	56.0	0.236	96	75-125%	---	---	
Chromium	65.4	---	1.12	mg/kg dry	10	56.0	8.86	101	75-125%	---	---	
Lead	59.5	---	0.224	mg/kg dry	10	56.0	6.42	95	75-125%	---	---	
Mercury	1.07	---	0.0896	mg/kg dry	10	1.12	ND	95	75-125%	---	---	
Selenium	20.7	---	1.12	mg/kg dry	10	28.0	ND	74	75-125%	---	---	
Silver	27.1	---	0.224	mg/kg dry	10	28.0	ND	97	75-125%	---	---	
Post Spike (9011113-PS1)			Prepared: 01/28/19 13:34 Analyzed: 02/04/19 14:46									
QC Source Sample: DP-7(2-3) (A9A0689-26)												
EPA 6020A												
Selenium	224	---		ug/L	10	244	ND	92	80-120%		---	A-03

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011178 - EPA 3051A												
Soil												
Blank (9011178-BLK1)												
Prepared: 01/30/19 11:04 Analyzed: 01/31/19 00:20												
<u>EPA 6020A</u>												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Blank (9011178-BLK2)												
Prepared: 01/30/19 11:04 Analyzed: 02/01/19 15:42												
<u>EPA 6020A</u>												
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	Q-16
LCS (9011178-BS1)												
Prepared: 01/30/19 11:04 Analyzed: 01/31/19 00:26												
<u>EPA 6020A</u>												
Arsenic	47.4	---	1.00	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Barium	49.0	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Cadmium	47.3	---	0.200	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Chromium	49.8	---	1.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Lead	47.9	---	0.200	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Mercury	0.986	---	0.0800	mg/kg wet	10	1.00	---	99	80-120%	---	---	
Silver	24.1	---	0.200	mg/kg wet	10	25.0	---	97	80-120%	---	---	B-02
LCS (9011178-BS2)												
Prepared: 01/30/19 11:04 Analyzed: 02/01/19 15:46												
<u>EPA 6020A</u>												
Selenium	21.7	---	1.00	mg/kg wet	10	25.0	---	87	80-120%	---	---	Q-16
Duplicate (9011178-DUP2)												
Prepared: 01/30/19 11:04 Analyzed: 02/01/19 19:01												
<u>QC Source Sample: DP-10(0.5-2) (A9A0689-37RE1)</u>												
<u>EPA 6020A</u>												
Arsenic	10.3	---	1.37	mg/kg dry	10	---	9.07	---	---	13	40%	Q-16
Barium	175	---	1.37	mg/kg dry	10	---	173	---	---	1	40%	Q-16
Cadmium	0.565	---	0.274	mg/kg dry	10	---	0.517	---	---	9	40%	Q-16

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011178 - EPA 3051A												
Soil												
Duplicate (9011178-DUP2)												
Prepared: 01/30/19 11:04 Analyzed: 02/01/19 19:01												
QC Source Sample: DP-10(0.5-2) (A9A0689-37RE1)												
Chromium	22.1	---	1.37	mg/kg dry	10	---	21.3	---	---	4	40%	Q-16
Lead	14.3	---	0.274	mg/kg dry	10	---	18.3	---	---	25	40%	Q-16
Mercury	ND	---	0.110	mg/kg dry	10	---	ND	---	---	---	40%	Q-16
Selenium	ND	---	1.37	mg/kg dry	10	---	ND	---	---	---	40%	Q-16
Silver	ND	---	0.274	mg/kg dry	10	---	ND	---	---	---	40%	Q-16
Matrix Spike (9011178-MS1)												
Prepared: 01/30/19 11:04 Analyzed: 01/31/19 01:09												
QC Source Sample: DP-10(0.5-2) (A9A0689-37RE1)												
EPA 6020A												
Arsenic	71.4	---	1.27	mg/kg dry	10	63.7	9.07	98	75-125%	---	---	
Barium	246	---	1.27	mg/kg dry	10	63.7	173	116	75-125%	---	---	
Cadmium	62.3	---	0.255	mg/kg dry	10	63.7	0.517	97	75-125%	---	---	
Chromium	88.7	---	1.27	mg/kg dry	10	63.7	21.3	106	75-125%	---	---	
Lead	76.6	---	0.255	mg/kg dry	10	63.7	18.3	91	75-125%	---	---	
Mercury	1.24	---	0.102	mg/kg dry	10	1.27	ND	97	75-125%	---	---	
Selenium	24.6	---	1.27	mg/kg dry	10	31.9	ND	77	75-125%	---	---	
Silver	31.4	---	0.255	mg/kg dry	10	31.9	ND	99	75-125%	---	---	B-02
Matrix Spike (9011178-MS2)												
Prepared: 01/30/19 11:04 Analyzed: 01/31/19 02:30												
QC Source Sample: Non-SDG (A9A0822-02)												
EPA 6020A												
Arsenic	74.7	---	1.30	mg/kg dry	10	65.0	4.91	107	75-125%	---	---	
Barium	259	---	1.30	mg/kg dry	10	65.0	166	142	75-125%	---	---	Q-03
Cadmium	72.7	---	0.260	mg/kg dry	10	65.0	ND	112	75-125%	---	---	
Chromium	100	---	1.30	mg/kg dry	10	65.0	22.3	120	75-125%	---	---	
Lead	81.5	---	0.260	mg/kg dry	10	65.0	11.5	108	75-125%	---	---	
Mercury	1.26	---	0.104	mg/kg dry	10	1.30	ND	97	75-125%	---	---	
Selenium	28.5	---	1.30	mg/kg dry	10	32.5	ND	88	75-125%	---	---	
Silver	35.9	---	0.260	mg/kg dry	10	32.5	ND	110	75-125%	---	---	B-02

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011018 - Total Solids (Dry Weight)							Soil					
Duplicate (9011018-DUP1)			Prepared: 01/24/19 08:51 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0582-02)</u>												
% Solids	96.2	---	1.00	% by Weight	1	---	96.5	---	---	0.4	10%	
Duplicate (9011018-DUP2)			Prepared: 01/24/19 08:51 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0582-22)</u>												
% Solids	97.9	---	1.00	% by Weight	1	---	97.7	---	---	0.2	10%	
Duplicate (9011018-DUP3)			Prepared: 01/24/19 08:51 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0653-01)</u>												
% Solids	72.7	---	1.00	% by Weight	1	---	71.1	---	---	2	10%	
Duplicate (9011018-DUP4)			Prepared: 01/24/19 08:51 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0672-03)</u>												
% Solids	70.7	---	1.00	% by Weight	1	---	71.2	---	---	0.7	10%	
Duplicate (9011018-DUP5)			Prepared: 01/24/19 17:46 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0706-06)</u>												
% Solids	87.0	---	1.00	% by Weight	1	---	87.3	---	---	0.3	10%	
Duplicate (9011018-DUP6)			Prepared: 01/24/19 17:46 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0707-06)</u>												
% Solids	86.6	---	1.00	% by Weight	1	---	87.9	---	---	2	10%	
Duplicate (9011018-DUP7)			Prepared: 01/24/19 17:46 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: DP-8(1-2.5) (A9A0689-29)</u>												
<u>EPA 8000C</u>												
% Solids	75.4	---	1.00	% by Weight	1	---	75.3	---	---	0.1	10%	
Duplicate (9011018-DUP8)			Prepared: 01/24/19 19:26 Analyzed: 01/25/19 09:31									
<u>QC Source Sample: Non-SDG (A9A0715-01)</u>												
% Solids	85.5	---	1.00	% by Weight	1	---	85.3	---	---	0.2	10%	

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011018 - Total Solids (Dry Weight)							Soil					
Duplicate (9011018-DUP9)			Prepared: 01/24/19 19:26 Analyzed: 01/25/19 09:31									
QC Source Sample: Non-SDG (A9A0717-05)												
% Solids	92.8	---	1.00	% by Weight	1	---	92.9	---	---	0.08	10%	
Duplicate (9011018-DUPA)			Prepared: 01/24/19 19:26 Analyzed: 01/25/19 09:31									
QC Source Sample: Non-SDG (A9A0721-02)												
% Solids	90.1	---	1.00	% by Weight	1	---	90.8	---	---	0.8	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011063 - Total Solids (Dry Weight)							Soil					
Duplicate (9011063-DUP1)			Prepared: 01/25/19 09:52 Analyzed: 01/28/19 12:06									
QC Source Sample: DP-1(1.5-2.5) (A9A0689-01)												
EPA 8000C												
% Solids	73.8	---	1.00	% by Weight	1	---	73.6	---	---	0.3	10%	
Duplicate (9011063-DUP2)			Prepared: 01/25/19 09:52 Analyzed: 01/28/19 12:06									
QC Source Sample: DP-6(1-2.5) (A9A0689-21)												
EPA 8000C												
% Solids	74.4	---	1.00	% by Weight	1	---	74.8	---	---	0.5	10%	
Duplicate (9011063-DUP3)			Prepared: 01/25/19 09:52 Analyzed: 01/28/19 12:06									
QC Source Sample: DP-10(17-18.5) (A9A0689-41)												
EPA 8000C												
% Solids	80.7	---	1.00	% by Weight	1	---	83.5	---	---	3	10%	
Duplicate (9011063-DUP4)			Prepared: 01/25/19 09:52 Analyzed: 01/28/19 12:06									
QC Source Sample: DP-16(1-2) (A9A0689-62)												
EPA 8000C												
% Solids	72.7	---	1.00	% by Weight	1	---	72.6	---	---	0.1	10%	
Duplicate (9011063-DUP5)			Prepared: 01/25/19 09:52 Analyzed: 01/28/19 12:06									
QC Source Sample: Non-SDG (A9A0702-10)												
% Solids	78.9	---	1.00	% by Weight	1	---	78.4	---	---	0.7	10%	
Duplicate (9011063-DUP6)			Prepared: 01/25/19 18:42 Analyzed: 01/28/19 12:06									
QC Source Sample: Non-SDG (A9A0732-02)												
% Solids	86.3	---	1.00	% by Weight	1	---	85.8	---	---	0.6	10%	
Duplicate (9011063-DUP7)			Prepared: 01/25/19 18:42 Analyzed: 01/28/19 12:06									
QC Source Sample: Non-SDG (A9A0748-02)												
% Solids	83.1	---	1.00	% by Weight	1	---	84.0	---	---	1	10%	

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011063 - Total Solids (Dry Weight)							Soil					
Duplicate (9011063-DUP8)			Prepared: 01/25/19 18:43 Analyzed: 01/28/19 12:06									
QC Source Sample: Non-SDG (A9A0756-01)												
% Solids	71.9	---	1.00	% by Weight	1	---	71.6	---	---	0.3	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

SAMPLE PREPARATION INFORMATION**Hydrocarbon Identification Screen by NWTPH-HCID**

Prep: NWTPH-HCID (Soil)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011074							
A9A0689-23	Soil	NWTPH-HCID	01/22/19 14:30	01/25/19 13:13	10.42g/10mL	10g/10mL	0.96
A9A0689-27	Soil	NWTPH-HCID	01/22/19 15:15	01/25/19 13:13	10.83g/10mL	10g/10mL	0.92
A9A0689-28	Soil	NWTPH-HCID	01/22/19 15:15	01/25/19 13:13	10.68g/10mL	10g/10mL	0.94
A9A0689-39	Soil	NWTPH-HCID	01/23/19 10:00	01/25/19 13:13	10.6g/10mL	10g/10mL	0.94
A9A0689-40	Soil	NWTPH-HCID	01/23/19 10:00	01/25/19 13:13	10.16g/10mL	10g/10mL	0.98
A9A0689-41	Soil	NWTPH-HCID	01/23/19 10:00	01/25/19 13:13	10.68g/10mL	10g/10mL	0.94

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9020335							
A9A0689-27	Soil	NWTPH-Dx	01/22/19 15:15	02/04/19 13:18	10.53g/5mL	10g/5mL	0.95
A9A0689-28	Soil	NWTPH-Dx	01/22/19 15:15	02/04/19 13:18	10.01g/5mL	10g/5mL	1.00
A9A0689-40	Soil	NWTPH-Dx	01/23/19 10:00	02/04/19 13:18	10g/5mL	10g/5mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9020321							
A9A0689-28	Soil	NWTPH-Gx (MS)	01/22/19 15:15	01/22/19 15:15	6.62g/5mL	5g/5mL	0.76
A9A0689-40	Soil	NWTPH-Gx (MS)	01/23/19 10:00	01/23/19 10:00	6.33g/5mL	5g/5mL	0.79

Volatile Organic Compounds by EPA 5035A/8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011023							
A9A0689-01	Soil	5035A/8260C	01/22/19 10:45	01/22/19 10:45	6.7g/5mL	5g/5mL	0.75
A9A0689-03	Soil	5035A/8260C	01/22/19 10:45	01/22/19 10:45	6.52g/5mL	5g/5mL	0.77
A9A0689-05	Soil	5035A/8260C	01/22/19 11:15	01/22/19 11:15	6.28g/5mL	5g/5mL	0.80
A9A0689-07	Soil	5035A/8260C	01/22/19 11:15	01/22/19 11:15	6.26g/5mL	5g/5mL	0.80
A9A0689-09	Soil	5035A/8260C	01/22/19 12:15	01/22/19 12:15	6.25g/5mL	5g/5mL	0.80
A9A0689-11	Soil	5035A/8260C	01/22/19 12:15	01/22/19 12:15	5.56g/5mL	5g/5mL	0.90
A9A0689-13	Soil	5035A/8260C	01/22/19 13:00	01/22/19 13:00	5.61g/5mL	5g/5mL	0.89

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EPA ID: OR01039**GeoDesign, Inc.**

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 5035A/8260C****Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0689-15	Soil	5035A/8260C	01/22/19 13:00	01/22/19 13:00	5.47g/5mL	5g/5mL	0.91
A9A0689-17	Soil	5035A/8260C	01/22/19 13:45	01/22/19 13:45	6.44g/5mL	5g/5mL	0.78
A9A0689-19	Soil	5035A/8260C	01/22/19 13:45	01/22/19 13:45	6.41g/5mL	5g/5mL	0.78
A9A0689-21	Soil	5035A/8260C	01/22/19 14:30	01/22/19 14:30	6.25g/5mL	5g/5mL	0.80
A9A0689-23	Soil	5035A/8260C	01/22/19 14:30	01/22/19 14:30	5.62g/5mL	5g/5mL	0.89
A9A0689-26	Soil	5035A/8260C	01/22/19 15:15	01/22/19 15:15	6.46g/5mL	5g/5mL	0.77
A9A0689-27	Soil	5035A/8260C	01/22/19 15:15	01/22/19 15:15	8g/5mL	5g/5mL	0.63

Batch: 9011039

A9A0689-29	Soil	5035A/8260C	01/22/19 16:00	01/22/19 16:00	4.77g/5mL	5g/5mL	1.05
A9A0689-31	Soil	5035A/8260C	01/22/19 16:00	01/22/19 16:00	5.62g/5mL	5g/5mL	0.89
A9A0689-33	Soil	5035A/8260C	01/22/19 16:45	01/22/19 16:45	6.43g/5mL	5g/5mL	0.78
A9A0689-35	Soil	5035A/8260C	01/22/19 16:45	01/22/19 16:45	4.96g/5mL	5g/5mL	1.01
A9A0689-37	Soil	5035A/8260C	01/23/19 10:00	01/23/19 10:00	5.86g/5mL	5g/5mL	0.85
A9A0689-39	Soil	5035A/8260C	01/23/19 10:00	01/23/19 10:00	6.36g/5mL	5g/5mL	0.79
A9A0689-42	Soil	5035A/8260C	01/23/19 11:00	01/23/19 11:00	6g/5mL	5g/5mL	0.83
A9A0689-44	Soil	5035A/8260C	01/23/19 11:00	01/23/19 11:00	5.59g/5mL	5g/5mL	0.89
A9A0689-46	Soil	5035A/8260C	01/23/19 11:30	01/23/19 11:30	5.57g/5mL	5g/5mL	0.90
A9A0689-48	Soil	5035A/8260C	01/23/19 11:30	01/23/19 11:30	6.11g/5mL	5g/5mL	0.82
A9A0689-50	Soil	5035A/8260C	01/23/19 12:00	01/23/19 12:00	5.75g/5mL	5g/5mL	0.87
A9A0689-52	Soil	5035A/8260C	01/23/19 12:00	01/23/19 12:00	5.63g/5mL	5g/5mL	0.89
A9A0689-54	Soil	5035A/8260C	01/23/19 12:45	01/23/19 12:45	5.34g/5mL	5g/5mL	0.94
A9A0689-56	Soil	5035A/8260C	01/23/19 12:45	01/23/19 12:45	5.22g/5mL	5g/5mL	0.96
A9A0689-58	Soil	5035A/8260C	01/23/19 13:15	01/23/19 13:15	5.91g/5mL	5g/5mL	0.85
A9A0689-60	Soil	5035A/8260C	01/23/19 13:15	01/23/19 13:15	5.94g/5mL	5g/5mL	0.84
A9A0689-62	Soil	5035A/8260C	01/23/19 14:30	01/23/19 14:30	6.14g/5mL	5g/5mL	0.81
A9A0689-64	Soil	5035A/8260C	01/23/19 14:30	01/23/19 14:30	5.24g/5mL	5g/5mL	0.95
A9A0689-69	Soil	5035A/8260C	01/23/19 15:15	01/23/19 15:15	5.56g/5mL	5g/5mL	0.90
A9A0689-71	Soil	5035A/8260C	01/23/19 15:15	01/23/19 15:15	6.19g/5mL	5g/5mL	0.81

Polychlorinated Biphenyls by EPA 8082A**Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0689-03	Soil	EPA 8082A	01/22/19 10:45	01/25/19 07:03	10.83g/5mL	10g/5mL	0.92
A9A0689-07	Soil	EPA 8082A	01/22/19 11:15	01/25/19 07:03	10.27g/5mL	10g/5mL	0.97
A9A0689-11	Soil	EPA 8082A	01/22/19 12:15	01/25/19 07:03	10.47g/5mL	10g/5mL	0.96

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****SAMPLE PREPARATION INFORMATION****Polychlorinated Biphenyls by EPA 8082A****Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0689-15	Soil	EPA 8082A	01/22/19 13:00	01/25/19 07:03	10.47g/5mL	10g/5mL	0.96
A9A0689-19	Soil	EPA 8082A	01/22/19 13:45	01/25/19 07:03	10.64g/5mL	10g/5mL	0.94
A9A0689-23	Soil	EPA 8082A	01/22/19 14:30	01/25/19 07:03	10.65g/5mL	10g/5mL	0.94
A9A0689-31	Soil	EPA 8082A	01/22/19 16:00	01/25/19 07:03	10.53g/5mL	10g/5mL	0.95
A9A0689-35	Soil	EPA 8082A	01/22/19 16:45	01/25/19 07:03	10.93g/5mL	10g/5mL	0.92
A9A0689-44	Soil	EPA 8082A	01/23/19 11:00	01/25/19 07:03	10.82g/5mL	10g/5mL	0.92
A9A0689-48	Soil	EPA 8082A	01/23/19 11:30	01/25/19 07:03	10.89g/5mL	10g/5mL	0.92
A9A0689-52	Soil	EPA 8082A	01/23/19 12:00	01/25/19 07:03	10.49g/5mL	10g/5mL	0.95
A9A0689-56	Soil	EPA 8082A	01/23/19 12:45	01/25/19 07:03	10.29g/5mL	10g/5mL	0.97
A9A0689-60	Soil	EPA 8082A	01/23/19 13:15	01/25/19 07:03	10.09g/5mL	10g/5mL	0.99
A9A0689-64	Soil	EPA 8082A	01/23/19 14:30	01/25/19 07:03	10.81g/5mL	10g/5mL	0.93
A9A0689-71	Soil	EPA 8082A	01/23/19 15:15	01/25/19 07:03	10.54g/5mL	10g/5mL	0.95

Batch: 9011066

A9A0689-37	Soil	EPA 8082A	01/23/19 10:00	01/25/19 11:07	10.46g/5mL	10g/5mL	0.96
A9A0689-39	Soil	EPA 8082A	01/23/19 10:00	01/25/19 11:07	10.28g/5mL	10g/5mL	0.97
A9A0689-42	Soil	EPA 8082A	01/23/19 11:00	01/25/19 11:07	10.55g/5mL	10g/5mL	0.95
A9A0689-46	Soil	EPA 8082A	01/23/19 11:30	01/25/19 11:07	11.33g/5mL	10g/5mL	0.88
A9A0689-50RE1	Soil	EPA 8082A	01/23/19 12:00	01/25/19 11:07	10.55g/5mL	10g/5mL	0.95
A9A0689-54	Soil	EPA 8082A	01/23/19 12:45	01/25/19 11:07	10.69g/5mL	10g/5mL	0.94
A9A0689-58	Soil	EPA 8082A	01/23/19 13:15	01/25/19 11:07	11.37g/5mL	10g/5mL	0.88
A9A0689-62	Soil	EPA 8082A	01/23/19 14:30	01/25/19 11:07	10.32g/5mL	10g/5mL	0.97
A9A0689-69	Soil	EPA 8082A	01/23/19 15:15	01/25/19 11:07	11.19g/5mL	10g/5mL	0.89

Batch: 9011099

A9A0689-01	Soil	EPA 8082A	01/22/19 10:45	01/28/19 10:14	11.35g/5mL	10g/5mL	0.88
A9A0689-05	Soil	EPA 8082A	01/22/19 11:15	01/28/19 10:14	10.56g/5mL	10g/5mL	0.95
A9A0689-09	Soil	EPA 8082A	01/22/19 12:15	01/28/19 10:14	11.29g/5mL	10g/5mL	0.89
A9A0689-13	Soil	EPA 8082A	01/22/19 13:00	01/28/19 10:14	10.85g/5mL	10g/5mL	0.92
A9A0689-17	Soil	EPA 8082A	01/22/19 13:45	01/28/19 10:14	10.77g/5mL	10g/5mL	0.93
A9A0689-21	Soil	EPA 8082A	01/22/19 14:30	01/28/19 10:14	11.77g/5mL	10g/5mL	0.85
A9A0689-26	Soil	EPA 8082A	01/22/19 15:15	01/28/19 10:14	11.14g/5mL	10g/5mL	0.90
A9A0689-27	Soil	EPA 8082A	01/22/19 15:15	01/28/19 10:14	10.5g/5mL	10g/5mL	0.95
A9A0689-29	Soil	EPA 8082A	01/22/19 16:00	01/28/19 10:14	10.54g/5mL	10g/5mL	0.95
A9A0689-33	Soil	EPA 8082A	01/22/19 16:45	01/28/19 10:14	10.42g/5mL	10g/5mL	0.96

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****SAMPLE PREPARATION INFORMATION****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM****Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011042							
A9A0689-01	Soil	EPA 8270D (SIM)	01/22/19 10:45	01/24/19 13:46	10.51g/5mL	10g/5mL	0.95
A9A0689-03	Soil	EPA 8270D (SIM)	01/22/19 10:45	01/24/19 13:46	10.2g/5mL	10g/5mL	0.98
A9A0689-05	Soil	EPA 8270D (SIM)	01/22/19 11:15	01/24/19 13:46	10.62g/5mL	10g/5mL	0.94
A9A0689-07	Soil	EPA 8270D (SIM)	01/22/19 11:15	01/24/19 13:46	10.41g/5mL	10g/5mL	0.96
A9A0689-11	Soil	EPA 8270D (SIM)	01/22/19 12:15	01/24/19 13:46	10.49g/5mL	10g/5mL	0.95
A9A0689-15	Soil	EPA 8270D (SIM)	01/22/19 13:00	01/24/19 13:46	10.15g/5mL	10g/5mL	0.99
A9A0689-19	Soil	EPA 8270D (SIM)	01/22/19 13:45	01/24/19 13:46	10.62g/5mL	10g/5mL	0.94
A9A0689-23	Soil	EPA 8270D (SIM)	01/22/19 14:30	01/24/19 13:46	10.85g/5mL	10g/5mL	0.92
A9A0689-31	Soil	EPA 8270D (SIM)	01/22/19 16:00	01/24/19 13:46	10.28g/5mL	10g/5mL	0.97
A9A0689-35	Soil	EPA 8270D (SIM)	01/22/19 16:45	01/24/19 13:46	10.42g/5mL	10g/5mL	0.96
A9A0689-44	Soil	EPA 8270D (SIM)	01/23/19 11:00	01/24/19 13:46	10.18g/5mL	10g/5mL	0.98
A9A0689-48	Soil	EPA 8270D (SIM)	01/23/19 11:30	01/24/19 13:46	10.62g/5mL	10g/5mL	0.94
A9A0689-52	Soil	EPA 8270D (SIM)	01/23/19 12:00	01/24/19 13:46	10.82g/5mL	10g/5mL	0.92
A9A0689-56	Soil	EPA 8270D (SIM)	01/23/19 12:45	01/24/19 13:46	10.5g/5mL	10g/5mL	0.95
A9A0689-60	Soil	EPA 8270D (SIM)	01/23/19 13:15	01/24/19 13:46	10.19g/5mL	10g/5mL	0.98
A9A0689-64	Soil	EPA 8270D (SIM)	01/23/19 14:30	01/24/19 13:46	10.15g/5mL	10g/5mL	0.99
A9A0689-69	Soil	EPA 8270D (SIM)	01/23/19 15:15	01/24/19 13:46	10.49g/5mL	10g/5mL	0.95
A9A0689-71	Soil	EPA 8270D (SIM)	01/23/19 15:15	01/24/19 13:46	10.36g/5mL	10g/5mL	0.97
Batch: 9011117							
A9A0689-09	Soil	EPA 8270D (SIM)	01/22/19 12:15	01/28/19 15:12	11.09g/5mL	10g/5mL	0.90
A9A0689-13	Soil	EPA 8270D (SIM)	01/22/19 13:00	01/28/19 15:12	11.05g/5mL	10g/5mL	0.91
A9A0689-17	Soil	EPA 8270D (SIM)	01/22/19 13:45	01/28/19 15:12	11.55g/5mL	10g/5mL	0.87
A9A0689-21	Soil	EPA 8270D (SIM)	01/22/19 14:30	01/28/19 15:12	10.57g/5mL	10g/5mL	0.95
A9A0689-26	Soil	EPA 8270D (SIM)	01/22/19 15:15	01/28/19 15:12	10.8g/5mL	10g/5mL	0.93
A9A0689-27RE1	Soil	EPA 8270D (SIM)	01/22/19 15:15	01/28/19 15:12	10.79g/5mL	10g/5mL	0.93
A9A0689-29	Soil	EPA 8270D (SIM)	01/22/19 16:00	01/28/19 15:12	11.02g/5mL	10g/5mL	0.91
A9A0689-33	Soil	EPA 8270D (SIM)	01/22/19 16:45	01/28/19 15:12	10.58g/5mL	10g/5mL	0.95
A9A0689-37	Soil	EPA 8270D (SIM)	01/23/19 10:00	01/28/19 15:12	10.75g/5mL	10g/5mL	0.93
A9A0689-39	Soil	EPA 8270D (SIM)	01/23/19 10:00	01/28/19 15:12	10.96g/5mL	10g/5mL	0.91
A9A0689-42	Soil	EPA 8270D (SIM)	01/23/19 11:00	01/28/19 15:12	10.91g/5mL	10g/5mL	0.92
A9A0689-46	Soil	EPA 8270D (SIM)	01/23/19 11:30	01/28/19 15:12	11.34g/5mL	10g/5mL	0.88
A9A0689-50	Soil	EPA 8270D (SIM)	01/23/19 12:00	01/28/19 15:12	11.55g/5mL	10g/5mL	0.87
A9A0689-54	Soil	EPA 8270D (SIM)	01/23/19 12:45	01/28/19 15:12	11.57g/5mL	10g/5mL	0.86
A9A0689-58	Soil	EPA 8270D (SIM)	01/23/19 13:15	01/28/19 15:12	11.61g/5mL	10g/5mL	0.86
A9A0689-62	Soil	EPA 8270D (SIM)	01/23/19 14:30	01/28/19 15:12	10.91g/5mL	10g/5mL	0.92

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0689 - 02 14 19 1215

SAMPLE PREPARATION INFORMATION**Total Metals by EPA 6020A (ICPMS)****Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011058							
A9A0689-03	Soil	EPA 6020A	01/22/19 10:45	01/25/19 08:32	0.471g/50mL	0.5g/50mL	1.06
A9A0689-07	Soil	EPA 6020A	01/22/19 11:15	01/25/19 08:32	0.517g/50mL	0.5g/50mL	0.97
A9A0689-11	Soil	EPA 6020A	01/22/19 12:15	01/25/19 08:32	0.473g/50mL	0.5g/50mL	1.06
A9A0689-15	Soil	EPA 6020A	01/22/19 13:00	01/25/19 08:32	0.469g/50mL	0.5g/50mL	1.07
A9A0689-19	Soil	EPA 6020A	01/22/19 13:45	01/25/19 08:32	0.515g/50mL	0.5g/50mL	0.97
A9A0689-23	Soil	EPA 6020A	01/22/19 14:30	01/25/19 08:32	0.468g/50mL	0.5g/50mL	1.07
A9A0689-31	Soil	EPA 6020A	01/22/19 16:00	01/25/19 08:32	0.466g/50mL	0.5g/50mL	1.07
A9A0689-35	Soil	EPA 6020A	01/22/19 16:45	01/25/19 08:32	0.517g/50mL	0.5g/50mL	0.97
A9A0689-44	Soil	EPA 6020A	01/23/19 11:00	01/25/19 08:32	0.46g/50mL	0.5g/50mL	1.09
A9A0689-48	Soil	EPA 6020A	01/23/19 11:30	01/25/19 08:32	0.459g/50mL	0.5g/50mL	1.09
A9A0689-52	Soil	EPA 6020A	01/23/19 12:00	01/25/19 08:32	0.467g/50mL	0.5g/50mL	1.07
A9A0689-56	Soil	EPA 6020A	01/23/19 12:45	01/25/19 08:32	0.463g/50mL	0.5g/50mL	1.08
A9A0689-60	Soil	EPA 6020A	01/23/19 13:15	01/25/19 08:32	0.509g/50mL	0.5g/50mL	0.98
A9A0689-64	Soil	EPA 6020A	01/23/19 14:30	01/25/19 08:32	0.504g/50mL	0.5g/50mL	0.99
A9A0689-69	Soil	EPA 6020A	01/23/19 15:15	01/25/19 08:32	0.47g/50mL	0.5g/50mL	1.06
A9A0689-71	Soil	EPA 6020A	01/23/19 15:15	01/25/19 08:32	0.501g/50mL	0.5g/50mL	1.00
Batch: 9011113							
A9A0689-01	Soil	EPA 6020A	01/22/19 10:45	01/28/19 13:34	0.462g/50mL	0.5g/50mL	1.08
A9A0689-05	Soil	EPA 6020A	01/22/19 11:15	01/28/19 13:34	0.505g/50mL	0.5g/50mL	0.99
A9A0689-09	Soil	EPA 6020A	01/22/19 12:15	01/28/19 13:34	0.472g/50mL	0.5g/50mL	1.06
A9A0689-13	Soil	EPA 6020A	01/22/19 13:00	01/28/19 13:34	0.469g/50mL	0.5g/50mL	1.07
A9A0689-17	Soil	EPA 6020A	01/22/19 13:45	01/28/19 13:34	0.512g/50mL	0.5g/50mL	0.98
A9A0689-21	Soil	EPA 6020A	01/22/19 14:30	01/28/19 13:34	0.482g/50mL	0.5g/50mL	1.04
A9A0689-26	Soil	EPA 6020A	01/22/19 15:15	01/28/19 13:34	0.489g/50mL	0.5g/50mL	1.02
Batch: 9011178							
A9A0689-27	Soil	EPA 6020A	01/22/19 15:15	01/30/19 11:04	0.505g/50mL	0.5g/50mL	0.99
A9A0689-29	Soil	EPA 6020A	01/22/19 16:00	01/30/19 11:04	0.465g/50mL	0.5g/50mL	1.08
A9A0689-29RE1	Soil	EPA 6020A	01/22/19 16:00	01/30/19 11:04	0.465g/50mL	0.5g/50mL	1.08
A9A0689-33	Soil	EPA 6020A	01/22/19 16:45	01/30/19 11:04	0.47g/50mL	0.5g/50mL	1.06
A9A0689-37RE1	Soil	EPA 6020A	01/23/19 10:00	01/30/19 11:04	0.492g/50mL	0.5g/50mL	1.02
A9A0689-39	Soil	EPA 6020A	01/23/19 10:00	01/30/19 11:04	0.52g/50mL	0.5g/50mL	0.96
A9A0689-42RE1	Soil	EPA 6020A	01/23/19 11:00	01/30/19 11:04	0.49g/50mL	0.5g/50mL	1.02
A9A0689-46	Soil	EPA 6020A	01/23/19 11:30	01/30/19 11:04	0.458g/50mL	0.5g/50mL	1.09
A9A0689-50	Soil	EPA 6020A	01/23/19 12:00	01/30/19 11:04	0.517g/50mL	0.5g/50mL	0.97
A9A0689-54	Soil	EPA 6020A	01/23/19 12:45	01/30/19 11:04	0.471g/50mL	0.5g/50mL	1.06

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****SAMPLE PREPARATION INFORMATION****Total Metals by EPA 6020A (ICPMS)****Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0689-58	Soil	EPA 6020A	01/23/19 13:15	01/30/19 11:04	0.471g/50mL	0.5g/50mL	1.06
A9A0689-58RE1	Soil	EPA 6020A	01/23/19 13:15	01/30/19 11:04	0.471g/50mL	0.5g/50mL	1.06
A9A0689-62	Soil	EPA 6020A	01/23/19 14:30	01/30/19 11:04	0.491g/50mL	0.5g/50mL	1.02
A9A0689-62RE1	Soil	EPA 6020A	01/23/19 14:30	01/30/19 11:04	0.491g/50mL	0.5g/50mL	1.02

Percent Dry Weight**Prep: Total Solids (Dry Weight)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011018							
A9A0689-27	Soil	EPA 8000C	01/22/19 15:15	01/24/19 17:46			NA
A9A0689-29	Soil	EPA 8000C	01/22/19 16:00	01/24/19 17:46			NA
A9A0689-71	Soil	EPA 8000C	01/23/19 15:15	01/24/19 17:46			NA
Batch: 9011063							
A9A0689-01	Soil	EPA 8000C	01/22/19 10:45	01/25/19 09:52			NA
A9A0689-03	Soil	EPA 8000C	01/22/19 10:45	01/25/19 09:52			NA
A9A0689-05	Soil	EPA 8000C	01/22/19 11:15	01/25/19 09:52			NA
A9A0689-07	Soil	EPA 8000C	01/22/19 11:15	01/25/19 09:52			NA
A9A0689-09	Soil	EPA 8000C	01/22/19 12:15	01/25/19 09:52			NA
A9A0689-11	Soil	EPA 8000C	01/22/19 12:15	01/25/19 09:52			NA
A9A0689-13	Soil	EPA 8000C	01/22/19 13:00	01/25/19 09:52			NA
A9A0689-15	Soil	EPA 8000C	01/22/19 13:00	01/25/19 09:52			NA
A9A0689-17	Soil	EPA 8000C	01/22/19 13:45	01/25/19 09:52			NA
A9A0689-19	Soil	EPA 8000C	01/22/19 13:45	01/25/19 09:52			NA
A9A0689-21	Soil	EPA 8000C	01/22/19 14:30	01/25/19 09:52			NA
A9A0689-23	Soil	EPA 8000C	01/22/19 14:30	01/25/19 09:52			NA
A9A0689-26	Soil	EPA 8000C	01/22/19 15:15	01/25/19 09:52			NA
A9A0689-28	Soil	EPA 8000C	01/22/19 15:15	01/25/19 09:52			NA
A9A0689-31	Soil	EPA 8000C	01/22/19 16:00	01/25/19 09:52			NA
A9A0689-33	Soil	EPA 8000C	01/22/19 16:45	01/25/19 09:52			NA
A9A0689-35	Soil	EPA 8000C	01/22/19 16:45	01/25/19 09:52			NA
A9A0689-37	Soil	EPA 8000C	01/23/19 10:00	01/25/19 09:52			NA
A9A0689-39	Soil	EPA 8000C	01/23/19 10:00	01/25/19 09:52			NA
A9A0689-40	Soil	EPA 8000C	01/23/19 10:00	01/25/19 09:52			NA
A9A0689-41	Soil	EPA 8000C	01/23/19 10:00	01/25/19 09:52			NA
A9A0689-42	Soil	EPA 8000C	01/23/19 11:00	01/25/19 09:52			NA
A9A0689-44	Soil	EPA 8000C	01/23/19 11:00	01/25/19 09:52			NA

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0689 - 02 14 19 1215****SAMPLE PREPARATION INFORMATION****Percent Dry Weight****Prep: Total Solids (Dry Weight)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0689-46	Soil	EPA 8000C	01/23/19 11:30	01/25/19 09:52			NA
A9A0689-48	Soil	EPA 8000C	01/23/19 11:30	01/25/19 09:52			NA
A9A0689-50	Soil	EPA 8000C	01/23/19 12:00	01/25/19 09:52			NA
A9A0689-52	Soil	EPA 8000C	01/23/19 12:00	01/25/19 09:52			NA
A9A0689-54	Soil	EPA 8000C	01/23/19 12:45	01/25/19 09:52			NA
A9A0689-56	Soil	EPA 8000C	01/23/19 12:45	01/25/19 09:52			NA
A9A0689-58	Soil	EPA 8000C	01/23/19 13:15	01/25/19 09:52			NA
A9A0689-60	Soil	EPA 8000C	01/23/19 13:15	01/25/19 09:52			NA
A9A0689-62	Soil	EPA 8000C	01/23/19 14:30	01/25/19 09:52			NA
A9A0689-64	Soil	EPA 8000C	01/23/19 14:30	01/25/19 09:52			NA
A9A0689-69	Soil	EPA 8000C	01/23/19 15:15	01/25/19 09:52			NA

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- A-03** Post spike passed for this sample. Data is acceptable.
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- F-16** Results for oil are estimated due to overlap from the reported diesel result.
- F-19** Results are Estimated due to the presence of multiple fuel products.
- M-02** Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- P-09** Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are Estimated and based on the closest matching Aroclor.
- P-10** Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -16.0%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260C, however there is adequate sensitivity to ensure detection at the reporting level.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-02** Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour tune window. Results are estimated.

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

REPORTING NOTES AND CONVENTIONS:**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0689 - 02 14 19 1215

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0689 - 02 14 19 1215

APEX LABS		CHAIN OF CUSTODY		Lab # <u>A9A0689</u> COC <u>1</u> of <u>8</u>		PO#																	
Company: <u>GeoDesign Inc.</u>		Project Mgr: <u>Kyle R. Sattler</u>		Project Name: <u>Modera Slabtown</u>		Project #: <u>MillCreek-15-02</u>																	
Address: <u>9450 SW Commerce Circle Suite 300 Wilsonville, OR</u>		Phone: <u>503 948 8787</u>		Fax: <u>503 948 8787</u>		Email: <u>ksattler@geodesigninc.com</u>																	
Sampled by: <u>Andre' DeVonje</u>		ANALYSIS REQUEST																					
Site Location: <u>WA</u>	Other: <u>WA</u>	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-CX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCS	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Se, Si, Mn, Mo, Ni, P, V, Zn	1200-COLS	1200-Z	
1	DP-1 (1.5-2.5)		02/26/19	1045	3																		
2	DP-1 (3-4.5)		"	"	"																		
3	DP-1 (8-9.5)		"	"	"																		
4	DP-2 (13-14)		"	"	"																		
5	DP-2 (1-2)		"	"	"																		
6	DP-2 (3-4)		"	"	"																		
7	DP-2 (6.5-7.5)		"	"	"																		
8	DP-2 (13-14)		"	"	"																		
9	DP-3 (1.5-3)		"	"	"																		
10	DP-3 (4-5)		"	"	"																		
Normal Turn Around Time (TAT) = 10 Business Days		1 Day		2 Day		3 Day		4 DAY		5 DAY		Other: _____		TAT Requested (circle)		SPECIAL INSTRUCTIONS:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
SAMPLES ARE HELD FOR 30 DAYS		Signature: <u>Andre' DeVonje</u>		Date: <u>02/26/19</u>		Signature: <u>Kyle Sattler</u>		Date: <u>02/26/19</u>		Signature: <u>Andre' DeVonje</u>		Date: <u>02/26/19</u>		Signature: <u>Andre' DeVonje</u>		Date: <u>02/26/19</u>		Signature: <u>Andre' DeVonje</u>		Date: <u>02/26/19</u>		Signature: <u>Andre' DeVonje</u>	
Printed Name: <u>Andre' DeVonje</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>	
Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>		Company: <u>GeoDesign Inc.</u>	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0689 - 02 14 19 1215

APEX LABS **CHAIN OF CUSTODY**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # 147AD669 COC 2 of 8

PO# _____

Project Name: _____ Project # _____

Address: _____ Phone: _____ Email: _____

Project Mgr: _____

Sampled by: _____

Site Location: OR WA _____

Other: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-CX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCS	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Se, Ag, Na, Ti, V, Zn	TOTAL DISS TCLP	1200-COLS	1200-Z
DP-3 (6.5-8)	02/14/15	11	3	3																	
DP-3 (13-14)	11	1300																			
DP-4 (1.5-3)	11																				
DP-4 (4-5)	11																				
DP-4 (5-6.5)	11																				
DP-4 (13-14)	11																				
DP-5 (1.5-3)	11																				
DP-5 (4-5)	11																				
DP-5 (6.5-8)	11																				
DP-5 (13-14)	11																				

Normal Turn Around Time (TAT) = 10 Business Days

1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

TAT Requested (circle) YES NO

SPECIAL INSTRUCTIONS:

RECEIVED BY: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

Company: _____

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director



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12232 S.W. Garden Place

Tigard, OR 97223

503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

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APEX LABS **CHAIN OF CUSTODY** **PO#** **Lab #** **COC** **3 of 8**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company:	Project Mgr:	Project Name:	Phone:	Fax:	Email:	Project #
ANALYSIS REQUEST						
Site Location: <u>WA</u>	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX
Other:						
SAMPLE ID	LAB ID #					
1 DP-6 (1-2-5)	01/24/15 14:30	11	3	X	X	X
2 DP-6 (3-4)	"	"	"	X	X	X
3 DP-6 (5-6.5)	"	"	"	X	X	X
4 DP-6 (13-24)	"	"	"	X	X	X
5 DP-7 (1-2)	15:15	"	"	X	X	X
6 DP-7 (2-3)	"	"	"	X	X	X
7 DP-7 (6-7.5)	"	"	"	X	X	X
8 DP-7 (11-12)	"	"	"	X	X	X
9 DP-8 (1-2.5)	16:00	"	"	X	X	X
10 DP-8 (3-4.5)	"	"	"	X	X	X
Normal Turn Around Time (TAT) = 10 Business Days						
TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____						
SPECIAL INSTRUCTIONS: <u>CX/DX Follow up, See Project Mgt.</u>						
RECEIVED BY: _____						
RECEIVED BY: _____						
Signature: _____ Date: _____						
Signature: _____ Date: _____						
Printed Name: _____ Printed Name: _____						
Company: _____ Company: _____						

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Modera Slabtown
Project Number: MillCreek-15-02
Project Manager: Kyle Sattler

Report ID:
A9A0689 - 02 14 19 1215

APEX LABS		CHAIN OF CUSTODY		APEX LABS		COC 4 of 8	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A9A0689</u>		PO#		Project #	
Company:		Project Name:		Phone:		Fax:	
Address:		Project Manager:		Email:			
Sampled by:		ANALYSIS REQUEST					
Site Location: <u>OW</u> WA							
Other:							
SAMPLE ID		LAB ID #		DATE		TIME	
1 DP-8 (6-7.5)		10/10/10		11:40		3	
2 DP-8 (12-13)		11		11:45		1	
3 DP-9 (1-2.5)		11		11		1	
4 DP-9 (3-4)		11		11		1	
5 DP-9 (6-7.5)		11		11		1	
6 DP-9 (12-13.5)		11		11		1	
7 DP-10 (0.5-2)		10/10/10		11:40		1000	
8 DP-10 (2-3)		11		11		1	
9 DP-10 (7-8.5)		11		11		1	
10 DP-10 (12.5-13.5)		11		11		1	
Normal Turn Around Time (TAT) = 10 Business Days		YES		NO			
TAT Requested (circle)		1 Day		2 Day		3 Day	
		4 DAY		5 DAY		Other:	
SAMPLES ARE HELD FOR 30 DAYS		RECEIVED BY:		RECEIVED BY:			
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>			
Date: <u>10/13/10</u>		Date: <u>10/13/10</u>		Date: <u>10/13/10</u>			
Printed Name: <u>Philip Nerenberg</u>		Printed Name: <u>Philip Nerenberg</u>		Printed Name: <u>Philip Nerenberg</u>			
Time: <u>11:42</u>		Time: <u>11:42</u>		Time: <u>11:42</u>			
Company: <u>Apex</u>		Company: <u>Apex</u>		Company: <u>Apex</u>			

DX/GX Follow Up See Project Mgr.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0689 - 02 14 19 1215

APEX LABS		CHAIN OF CUSTODY		APEX LABORATORIES	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A9A0689</u> COC <u>5</u> of <u>8</u>		PO#	
Company: <u>GeoDesign, Inc.</u>		Project Name: <u>Modera Slabtown</u>		Project #	
Address: <u>9450 SW Commerce Circle</u>		Phone: <u>503-718-2323</u>		Email: <u>kyle.sattler@geodesigninc.com</u>	
Sampled by: <u>Kyle Sattler</u>		Fax: <u>503-718-0333</u>			
Site Location: <u>WA</u>		ANALYSIS REQUEST			
Other: <u></u>		TCLP Metals (8)			
SAMPLE ID		RCRA Metals (8)			
1 DP-10 (17-18.5)		600 TTO			
2 DP-11 (1-2)		8082 PCBs			
3 DP-11 (3-4)		8270 SIM PAHs			
4 DP-11 (8-9)		8270 SVOC			
5 DP-11 (13-14)		8260 BTEX VOCs			
6 DP-12 (1-2)		8260 HVOCS			
7 DP-12 (3-4)		8260 RBDM VOCs			
8 DP-12 (8-9)		8260 VOCs Full List			
9 DP-12 (12-13.5)		NWTPH-GX			
10 DP-13 (1-2)		NWTPH-DX			
		NWTPH-HCID			
LAB ID #		# OF CONTAINERS			
DATE		TIME			
10/25/19		1100			
11		11			
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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Modera Slabtown
Project Number: MillCreek-15-02
Project Manager: Kyle Sattler

Report ID:
A9A0689 - 02 14 19 1215

APEX LABS		CHAIN OF CUSTODY		APEX LABS	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A9A0689</u> COC # <u>7-18</u>		PO#	
Company:	Project Mgr:	Project Name:	Project #	Email:	
Address:	Phone:	Fax:			
Sampled by:					
ANALYSIS REQUEST					
Site Location: <u>WA</u>	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS
Other:					
SAMPLE ID					
DP-15 (14-15)		02/14/15	1315	S	2
DP-16 (1-2)		02/14/15	1430		
DP-16 (2-3.5)		"	"		
DP-16 (6-7.5)		"	"		
DP-16 (13-14)		"	"		
DP-16 (18-19)		"	"		
DP-16 (24-25)		"	"		
DP-16 (29-30)		"	"		
DP-17 (1-2.5)		02/15/15	1515		
DP-17 (4-5)		"	"		
Normal Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____					
SPECIAL INSTRUCTIONS:					
RECEIVED BY: _____					
RELINQUISHED BY: _____					
Signature: _____ Date: 02/13/15					
Printed Name: _____ Time: 17:44					
Company: _____					

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

12232 S.W. Garden Place

Tigard, OR 97223

503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0689 - 02 14 19 1215

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # A9A0689 PO# 3 of 8

Revised

Company	Project Mgr	Project Name	Project #	Phone	Fax	Email
ANALYSIS REQUEST						
Sample ID	DATE	TIME	MATRIX	# OF CONTAINERS	SWT-PH-CID	SWT-PH-D
DP-6 (1-2-5)	11/13/15	14:30	S	3	X	X
DP-6 (3-4)	"	"	"	"	X	X
DP-6 (5-6.5)	"	"	"	"	X	X
DP-6 (13-14)	"	"	"	"	X	X
DP-7 (1-2)	11/13/15	"	"	"	X	X
DP-7 (2-3)	"	"	"	"	X	X
DP-7 (6-7.5)	"	"	"	"	X	X
DP-7 (11-12)	"	"	"	"	X	X
DP-8 (1-2.5)	11/13/15	"	"	"	X	X
DP-8 (3-4.5)	"	"	"	"	X	X
SPECIAL INSTRUCTIONS: <u>dx/dx follow up, see Project Mgr.</u>						
RECEIVED BY: <u>[Signature]</u> Date: <u>11/13/15</u>						
RELINQUISHED BY: <u>[Signature]</u> Date: <u>11/13/15</u>						

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director



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12232 S.W. Garden Place
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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0689 - 02 14 19 1215

APEX LABS **CHAIN OF CUSTODY** **PO#** **Lab #** **5 of 8**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Project Name: **Project #:** **PO#** **Lab #** **5 of 8**

Address: **Phone:** **Fax:** **Email:**

Sampled by: **Project Mgr:**

Site Location: **WA** **Other:**

SAMPLE ID:

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST
DP-10 (17-18.5)	10/20/10	11:00	5	5	1000-0015
DP-11 (1-2)	11/11/10	11:00	1	1	1000-0015
DP-12 (3-4)	11/11/10	11:00	1	1	1000-0015
DP-13 (8-9)	11/11/10	11:00	1	1	1000-0015
DP-14 (13-24)	11/11/10	11:00	1	1	1000-0015
DP-15 (1-2)	11/11/10	11:00	1	1	1000-0015
DP-16 (3-4)	11/11/10	11:00	1	1	1000-0015
DP-17 (8-9)	11/11/10	11:00	1	1	1000-0015
DP-18 (12-23.5)	11/11/10	11:00	1	1	1000-0015
DP-19 (1-2)	11/11/10	11:00	1	1	1000-0015

ANALYSIS REQUEST

AL, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Pt, Se, Si, Mn, Mo, Ni, Rb, Sr, Tl, V, Zn	TCF Metals (8)	RCA Metals (8)	609 TFO	8082 PCBs	8270 SIM PAHs	8270 SVOC	8260 BTEX VOCs	8260 HVOCS	8260 RBDN VOCs	8260 VOCs Full List	NWTH-CA	NWTH-PA	NWTH-BD	NWTH-ACID	# OF CONTAINERS	MATRIX	TIME	DATE	LAB ID #
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	5	11:00	10/20/10	DP-10 (17-18.5)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-11 (1-2)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-12 (3-4)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-13 (8-9)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-14 (13-24)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-15 (1-2)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-16 (3-4)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-17 (8-9)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-18 (12-23.5)
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	11:00	11/11/10	DP-19 (1-2)

SPECIAL INSTRUCTIONS:

RECEIVED BY: **RELINQUISHED BY:**

Signature: **Date:** **Time:** **Printed Name:** **Company:**

Signature: **Date:** **Time:** **Printed Name:** **Company:**

SAMPLES ARE HELD FOR 30 DAYS

TAT Requested (circle): **1 Day** **2 Day** **3 Day** **4 Day** **5 Day** **Other:**

Normal Turn Around Time (TAT) = 10 Business Days

RECEIVED BY: **RELINQUISHED BY:**

Signature: **Date:** **Time:** **Printed Name:** **Company:**

Signature: **Date:** **Time:** **Printed Name:** **Company:**

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Modera Slabtown
Project Number: MillCreek-15-02
Project Manager: Kyle Sattler

Report ID:
A9A0689 - 02 14 19 1215

APEX LABS COOLER RECEIPT FORM

Client: Geodesign Inc Element WO#: A9 A0689

Project/Project #: Modera Slabtown

Delivery Info:

Date/time received: 1/23/19 @ 17:42 By: TAG

Delivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Date/time inspected: 1/23/19 @ 17:42 By: TAG

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒

Signed/dated by client? Yes ☒ No ☐

Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.8</u>	<u>1.6</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 1/24/19 @ 955 By: 88

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: DP-2 (3-4) containers read DP-4 (2-3) received 1 vial/no info, matched by process of elimination to DP-1 (3-4.5)

COC/container discrepancies form initiated? Yes ☐ No ☒ NA ☐

Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments:

Additional information:

Labeled by:

W

Witness:

ED JAW

Cooler Inspected by:

MK

See Project Contact Form: Y

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Thursday, February 14, 2019

Kyle Sattler
GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

RE: A9A0760 - Modera Slabtown - MillCreek-15-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9A0760, which was received by the laboratory on 1/25/2019 at 1:05:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1	1.6 degC	Cooler#2	1.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nerenberg, Lab Director

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**Apex Laboratories, LLC**

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-18(2-3)	A9A0760-01	Soil	01/24/19 09:45	01/25/19 13:05
DP-18(6.5-8)	A9A0760-03	Soil	01/24/19 09:45	01/25/19 13:05
DP-19(1-2)	A9A0760-05	Soil	01/24/19 10:10	01/25/19 13:05
DP-19(8-9)	A9A0760-07	Soil	01/24/19 10:15	01/25/19 13:05
DP-20(1-2)	A9A0760-09	Soil	01/24/19 10:30	01/25/19 13:05
DP-20(6.5-8)	A9A0760-11	Soil	01/24/19 10:30	01/25/19 13:05
DP-21(0.5-1.5)	A9A0760-13	Soil	01/24/19 10:45	01/25/19 13:05
DP-21(7-8)	A9A0760-15	Soil	01/24/19 10:50	01/25/19 13:05
DP-22(1.5-2.5)	A9A0760-17	Soil	01/24/19 11:45	01/25/19 13:05
DP-22(8-9)	A9A0760-19	Soil	01/24/19 11:50	01/25/19 13:05
DP-23(1-2)	A9A0760-21	Soil	01/24/19 11:15	01/25/19 13:05
DP-23(8-9.5)	A9A0760-23	Soil	01/24/19 11:15	01/25/19 13:05
DP-24(0.5-1.5)	A9A0760-25	Soil	01/24/19 12:20	01/25/19 13:05
DP-24(7.5-8.5)	A9A0760-27	Soil	01/24/19 12:25	01/25/19 13:05
DP-25(1-2)	A9A0760-29	Soil	01/24/19 13:15	01/25/19 13:05
DP-25(12-13)	A9A0760-33	Soil	01/24/19 13:15	01/25/19 13:05
DP-26(1-2)	A9A0760-37	Soil	01/24/19 13:30	01/25/19 13:05
DP-26(7-8)	A9A0760-39	Soil	01/24/19 13:35	01/25/19 13:05
DP-27(1-2)	A9A0760-41	Soil	01/24/19 14:10	01/25/19 13:05
DP-27(14-15)	A9A0760-44	Soil	01/24/19 14:15	01/25/19 13:05
DP-28(1-2)	A9A0760-47	Soil	01/24/19 15:00	01/25/19 13:05
DP-28(8-9)	A9A0760-49	Soil	01/24/19 15:00	01/25/19 13:05
HA-1(0-1)	A9A0760-51	Soil	01/24/19 16:50	01/25/19 13:05
HA-2(0-1)	A9A0760-52	Soil	01/24/19 16:50	01/25/19 13:05
HA-3(0-1)	A9A0760-53	Soil	01/24/19 16:50	01/25/19 13:05

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.47	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0147	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.368	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.368	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01)				Matrix: Soil		Batch: 9011097		
1,2-Dichloropropane	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.368	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.735	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.368	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.368	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.147	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0735	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0368	mg/kg dry	50	01/28/19	5035A/8260C	

Apex Laboratories

Philip Nerenberg, Lab Director

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01)				Matrix: Soil		Batch: 9011097		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	01/28/19	5035A/8260C		
Toluene-d8 (Surr)		97 %	80-120 %	1	01/28/19	5035A/8260C		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	01/28/19	5035A/8260C		
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.37	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	

Apex Laboratories

Philip Nerenberg, Lab Director

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12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011097		
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.686	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011097		
1,3,5-Trimethylbenzene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0686	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	01/28/19	5035A/8260C	
Toluene-d8 (Surr)		97 %		80-120 %	1	01/28/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		102 %		80-120 %	1	01/28/19	5035A/8260C	
DP-19(1-2) (A9A0760-05)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.36	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(1-2) (A9A0760-05)				Matrix: Soil		Batch: 9011097		
1,3-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.680	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(1-2) (A9A0760-05)				Matrix: Soil		Batch: 9011097		
Trichloroethene (TCE)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0680	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>100 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.45	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0145	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.361	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011097		
1,2-Dibromo-3-chloropropane	ND	---	0.361	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.361	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.723	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011097		
1,2,3-Trichlorobenzene	ND	---	0.361	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.361	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.145	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0723	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0361	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	100 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			98 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			100 %		80-120 %	1	01/28/19	5035A/8260C
DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.37	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0137	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011097		
Chloromethane	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.685	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(1-2) (A9A0760-09)				Matrix: Soil	Batch: 9011097			
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0685	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0343	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	01/28/19	5035A/8260C	
Toluene-d8 (Surr)		98 %		80-120 %	1	01/28/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		102 %		80-120 %	1	01/28/19	5035A/8260C	
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil	Batch: 9011097			
Acetone	ND	---	1.27	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0127	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011097		
Carbon tetrachloride	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.319	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.319	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.319	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.637	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011097		
Methyl tert-butyl ether (MTBE)	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.319	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.319	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0637	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0319	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	

DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.46	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0146	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011097		
n-Butylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.365	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.365	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011097		
Isopropylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.365	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.731	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.365	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.365	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.146	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0731	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0365	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	01/28/19	5035A/8260C
Toluene-d8 (Surr)			98 %		80-120 %	1	01/28/19	5035A/8260C
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	01/28/19	5035A/8260C

DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.20	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0120	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011097		
Bromodichloromethane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.301	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.301	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	

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**Apex Laboratories, LLC**

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503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011097		
trans-1,3-Dichloropropene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.301	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.601	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.301	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.301	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.120	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0601	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0301	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	01/28/19	5035A/8260C
Toluene-d8 (Surr)			98 %		80-120 %	1	01/28/19	5035A/8260C
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	01/28/19	5035A/8260C

DP-22(1.5-2.5) (A9A0760-17)**Matrix: Soil****Batch: 9011097**

Acetone	ND	---	1.36	mg/kg dry	50	01/28/19	5035A/8260C

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011097		
Acrylonitrile	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil	Batch: 9011097			
1,3-Dichloropropane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.681	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0681	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0340	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011097		
Surrogate: Toluene-d8 (Surr)			Recovery: 99 %	Limits: 80-120 %	1	01/28/19	5035A/8260C	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	01/28/19	5035A/8260C	
DP-22(8-9) (A9A0760-19)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.21	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0121	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.302	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.302	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(8-9) (A9A0760-19)				Matrix: Soil		Batch: 9011097		
1,1-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.302	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.603	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.302	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.302	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.121	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(8-9) (A9A0760-19)				Matrix: Soil	Batch: 9011097			
Vinyl chloride	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0603	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0302	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	01/28/19	5035A/8260C
Toluene-d8 (Surr)			98 %		80-120 %	1	01/28/19	5035A/8260C
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	01/28/19	5035A/8260C
DP-23(1-2) (A9A0760-21)				Matrix: Soil	Batch: 9011097			
Acetone	ND	---	1.62	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0162	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.404	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.404	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011097		
1,4-Dichlorobenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.404	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.808	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.404	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.404	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011097		
Trichlorofluoromethane	ND	---	0.162	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0808	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0404	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			98 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/28/19	5035A/8260C
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.40	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0140	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.350	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.350	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011097		
1,2-Dibromoethane (EDB)	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.350	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.700	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.350	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011097		
1,2,4-Trichlorobenzene	ND	---	0.350	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.140	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0700	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0350	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	101 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			98 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			102 %		80-120 %	1	01/28/19	5035A/8260C
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.24	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0124	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.310	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011097		
2-Chlorotoluene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.310	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.310	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.619	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(0.5-1.5) (A9A0760-25)			Matrix: Soil			Batch: 9011097		
1,1,2,2-Tetrachloroethane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.310	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.310	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.124	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0619	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0310	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	01/28/19	5035A/8260C	
Toluene-d8 (Surr)		98 %		80-120 %	1	01/28/19	5035A/8260C	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	01/28/19	5035A/8260C	
DP-24(7.5-8.5) (A9A0760-27)			Matrix: Soil			Batch: 9011097		
Acetone	ND	---	1.27	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0127	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011097		
Chlorobenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.318	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.318	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.318	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.636	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011097		
Naphthalene	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.318	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.318	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.127	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0636	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0318	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	103 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			97 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			101 %		80-120 %	1	01/28/19	5035A/8260C

DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.48	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	0.120	---	0.0148	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011097		
sec-Butylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.371	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.371	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	0.0764	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(1-2) (A9A0760-29)				Matrix: Soil	Batch: 9011097			
4-Isopropyltoluene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.371	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.742	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	0.723	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.371	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.371	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.148	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0742	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0371	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	

DP-25(12-13) (A9A0760-33)				Matrix: Soil	Batch: 9011097			
Acetone	ND	---	1.35	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0135	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011097		
Bromoform	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.337	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.337	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Tigard, OR 97223

503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011097		
Ethylbenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.337	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.674	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.337	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.337	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.135	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0674	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0337	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	01/28/19	5035A/8260C
Toluene-d8 (Surr)			97 %		80-120 %	1	01/28/19	5035A/8260C
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	01/28/19	5035A/8260C
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.43	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011097		
Benzene	ND	---	0.0143	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.357	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.357	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011097		
2,2-Dichloropropane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.357	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.715	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.357	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.357	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.143	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0715	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0357	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011097		
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	01/28/19	5035A/8260C	
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011097		
Acetone	ND	---	1.12	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0112	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.281	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.281	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011097		
cis-1,2-Dichloroethene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.281	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.281	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.281	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011097		
m,p-Xylene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0281	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>103 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.38	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0138	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.345	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.345	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011101		
Dichlorodifluoromethane	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.345	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.690	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.345	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.345	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.138	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011101		
1,2,3-Trichloropropane	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0690	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0345	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>106 %</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>	
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.26	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0126	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.314	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.314	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	

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GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011101		
Dibromomethane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.314	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.629	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.314	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.314	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011101		
1,1,1-Trichloroethane	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.126	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0629	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0314	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	102 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			99 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			106 %		80-120 %	1	01/28/19	5035A/8260C
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.68	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0168	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.420	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011101		
4-Chlorotoluene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.420	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.420	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MIBK)	ND	---	0.841	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011101		
Tetrachloroethene (PCE)	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.420	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.420	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.168	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0841	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0420	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>102 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>108 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.66	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0166	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(8-9) (A9A0760-49)				Matrix: Soil	Batch: 9011101			
Chloroethane	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.414	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.414	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.414	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.829	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011101		
n-Propylbenzene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.414	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.414	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.166	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0829	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0414	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	102 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			99 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			105 %		80-120 %	1	01/28/19	5035A/8260C

HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.36	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011101		
tert-Butylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.341	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.341	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

12232 S.W. Garden Place
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503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011101		
Methylene chloride	ND	---	0.341	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.682	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.341	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.341	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.136	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0682	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0341	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	103 %	<i>Limits:</i>	80-120 %	1	01/28/19	5035A/8260C
<i>Toluene-d8 (Surr)</i>			99 %		80-120 %	1	01/28/19	5035A/8260C
<i>4-Bromofluorobenzene (Surr)</i>			104 %		80-120 %	1	01/28/19	5035A/8260C

HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011101		
Acetone	ND	---	1.08	mg/kg dry	50	01/28/19	5035A/8260C	
Acrylonitrile	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
Benzene	ND	---	0.0108	mg/kg dry	50	01/28/19	5035A/8260C	
Bromobenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011101		
Bromomethane	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.270	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.270	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloropropene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2(0-1) (A9A0760-52)				Matrix: Soil	Batch: 9011101			
Hexachlorobutadiene	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.270	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.540	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.108	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0540	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0270	mg/kg dry	50	01/28/19	5035A/8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>103 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>106 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/28/19</i>	<i>5035A/8260C</i>

HA-3(0-1) (A9A0760-53)**Matrix: Soil****Batch: 9011101**

Acetone	ND	---	1.12	mg/kg dry	50	01/28/19	5035A/8260C
Acrylonitrile	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C
Benzene	ND	---	0.0112	mg/kg dry	50	01/28/19	5035A/8260C

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011101		
Bromobenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Bromochloromethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Bromodichloromethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Bromoform	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
Bromomethane	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
2-Butanone (MEK)	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
n-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
sec-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
tert-Butylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon disulfide	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Carbon tetrachloride	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Chlorobenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroethane	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Chloroform	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Chloromethane	ND	---	0.280	mg/kg dry	50	01/28/19	5035A/8260C	
2-Chlorotoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
4-Chlorotoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromochloromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromo-3-chloropropane	ND	---	0.280	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dibromoethane (EDB)	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Dibromomethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichlorobenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichlorobenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,4-Dichlorobenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Dichlorodifluoromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethane	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloroethane (EDC)	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,1-Dichloroethene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,2-Dichloroethene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,2-Dichloroethene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,2-Dichloropropane	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,3-Dichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
2,2-Dichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011101		
1,1-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
cis-1,3-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Ethylbenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Hexachlorobutadiene	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
2-Hexanone	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Isopropylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
4-Isopropyltoluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Methylene chloride	ND	---	0.280	mg/kg dry	50	01/28/19	5035A/8260C	
4-Methyl-2-pentanone (MiBK)	ND	---	0.561	mg/kg dry	50	01/28/19	5035A/8260C	
Methyl tert-butyl ether (MTBE)	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Naphthalene	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
n-Propylbenzene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Styrene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1,2-Tetrachloroethane	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2,2-Tetrachloroethane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Tetrachloroethene (PCE)	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Toluene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichlorobenzene	ND	---	0.280	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trichlorobenzene	ND	---	0.280	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,1-Trichloroethane	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
1,1,2-Trichloroethane	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Trichloroethene (TCE)	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Trichlorofluoromethane	ND	---	0.112	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,3-Trichloropropane	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,2,4-Trimethylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
1,3,5-Trimethylbenzene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
Vinyl chloride	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
m,p-Xylene	ND	---	0.0561	mg/kg dry	50	01/28/19	5035A/8260C	
o-Xylene	ND	---	0.0280	mg/kg dry	50	01/28/19	5035A/8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	01/28/19	5035A/8260C
Toluene-d8 (Surr)			100 %		80-120 %	1	01/28/19	5035A/8260C
4-Bromofluorobenzene (Surr)			104 %		80-120 %	1	01/28/19	5035A/8260C

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1221	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1232	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1242	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1248	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1254	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Aroclor 1260	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 80 %		Limits: 60-125 %	1	01/31/19	EPA 8082A	
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 85 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-19(1-2) (A9A0760-05)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0126	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1242	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 84 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0127	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 171 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	S-06
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0108	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 77 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1260	ND	---	0.0119	mg/kg dry	1	02/06/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 80 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/06/19</i>	<i>EPA 8082A</i>		
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0111	mg/kg dry	1	02/06/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 80 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/06/19</i>	<i>EPA 8082A</i>		
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0122	mg/kg dry	1	02/06/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 80 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/06/19</i>	<i>EPA 8082A</i>		
DP-22(8-9) (A9A0760-19)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0115	mg/kg dry	1	02/06/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 86 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/06/19</i>	<i>EPA 8082A</i>		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0128	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0109	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 84 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0121	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 85 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1242	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0110	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 87 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0112	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 81 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011131		C-07
Aroclor 1016	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1221	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1232	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1242	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1248	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1254	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Aroclor 1260	ND	---	0.0117	mg/kg dry	1	02/06/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 80 %		Limits: 60-125 %	1	02/06/19	EPA 8082A	
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1260	ND	---	0.0114	mg/kg dry	1	02/04/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 85 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/04/19</i>	<i>EPA 8082A</i>		
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	ND	---	0.0101	mg/kg dry	1	02/05/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 83 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/05/19</i>	<i>EPA 8082A</i>		
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	ND	---	0.0112	mg/kg dry	1	02/05/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 89 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/05/19</i>	<i>EPA 8082A</i>		
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	ND	---	0.0110	mg/kg dry	1	02/05/19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 91 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>02/05/19</i>	<i>EPA 8082A</i>		

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Philip Nerenberg, Lab Director

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GeoDesign, Inc.

9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1221	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1232	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1242	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1248	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1254	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Aroclor 1260	ND	---	0.0109	mg/kg dry	1	02/04/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 79 %		Limits: 60-125 %	1	02/04/19	EPA 8082A	
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	ND	---	0.0113	mg/kg dry	1	02/05/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 82 %		Limits: 60-125 %	1	02/05/19	EPA 8082A	
HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	0.0180	---	0.0116	mg/kg dry	1	02/05/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 88 %		Limits: 60-125 %	1	02/05/19	EPA 8082A	
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1242	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	ND	---	0.00988	mg/kg dry	1	02/05/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 82 %		Limits: 60-125 %	1	02/05/19	EPA 8082A	
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011099		C-07
Aroclor 1016	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1221	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1232	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1242	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1248	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1254	ND	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Aroclor 1260	0.0169	---	0.00944	mg/kg dry	1	02/05/19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 87 %		Limits: 60-125 %	1	02/05/19	EPA 8082A	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01RE2)				Matrix: Soil		Batch: 9011199		
Acenaphthene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0132	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i> 72 %		<i>Limits:</i> 44-120 %	1	02/04/19	EPA 8270D (SIM)	
<i>p-Terphenyl-d14 (Surr)</i>		73 %		54-127 %	1	02/04/19	EPA 8270D (SIM)	

DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil	Batch: 9011123			
Dibenzofuran	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 67 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		72 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	
DP-19(1-2) (A9A0760-05)				Matrix: Soil	Batch: 9011123			
Acenaphthene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0128	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 74 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		81 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0119	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 73 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8270D (SIM)</i>	

DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011123		
Dibenzofuran	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 78 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		86 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 73 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011123		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 79 %</i>	<i>Limits: 54-127 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8270D (SIM)</i>		
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0127	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8270D (SIM)</i>		
<i>p-Terphenyl-d14 (Surr)</i>		<i>82 %</i>	<i>54-127 %</i>	<i>1</i>	<i>01/30/19</i>	<i>EPA 8270D (SIM)</i>		
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011123		
Chrysene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 74 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		85 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011123		
Pyrene	ND	---	0.0123	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	66 %	<i>Limits:</i>	44-120 %	1	01/30/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			69 %		54-127 %	1	01/30/19	EPA 8270D (SIM)
DP-22(8-9) (A9A0760-19)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0117	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	73 %	<i>Limits:</i>	44-120 %	1	01/30/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			80 %		54-127 %	1	01/30/19	EPA 8270D (SIM)
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011123		
Benzo(k)fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 58 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		61 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	
DP-23(1-2) (A9A0760-21RE2)				Matrix: Soil		Batch: 9011123		
Benzo(g,h,i)perylene	ND	---	0.0122	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0122	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0122	mg/kg dry	1	02/04/19	EPA 8270D (SIM)	
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011123		
Pyrene	ND	---	0.0126	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	70 %	<i>Limits:</i>	44-120 %	1	01/30/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			75 %		54-127 %	1	01/30/19	EPA 8270D (SIM)
DP-23(8-9.5) (A9A0760-23RE1)				Matrix: Soil		Batch: 9011123		
Benzo(g,h,i)perylene	ND	---	0.0126	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0126	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0126	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0116	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i>	76 %	<i>Limits:</i>	44-120 %	1	01/30/19	EPA 8270D (SIM)
<i>p-Terphenyl-d14 (Surr)</i>			85 %		54-127 %	1	01/30/19	EPA 8270D (SIM)
DP-24(0.5-1.5) (A9A0760-25RE1)				Matrix: Soil		Batch: 9011123		
Benzo(g,h,i)perylene	ND	---	0.0116	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0116	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0116	mg/kg dry	1	02/01/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0124	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery:</i> 76 %		<i>Limits:</i> 44-120 %	1	01/31/19	EPA 8270D (SIM)	
<i>p-Terphenyl-d14 (Surr)</i>		80 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	

DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011123		
Dibenzofuran	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	0.396	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0128	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 71 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		75 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0120	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 71 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011123		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 81 %</i>	<i>Limits: 54-127 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>		
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0129	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 66 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>		
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>	<i>54-127 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>		
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011123		
Chrysene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0110	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 69 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		73 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011123		
Acenaphthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011123		
Pyrene	ND	---	0.0122	mg/kg dry	1	01/30/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 62 %		Limits: 44-120 %	1	01/30/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		67 %		54-127 %	1	01/30/19	EPA 8270D (SIM)	
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 73 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		89 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011159		
Benzo(k)fluoranthene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0116	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 74 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		86 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011159		
Naphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 71 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		85 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0111	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 70 %		Limits: 44-120 %	1	01/31/19	EPA 8270D (SIM)	
p-Terphenyl-d14 (Surr)		86 %		54-127 %	1	01/31/19	EPA 8270D (SIM)	
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011159		
Benzo(a)pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
1-Methylnaphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0106	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>92 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>	

HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011159		
Acenaphthene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Anthracene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benz(a)anthracene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(a)pyrene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(b)fluoranthene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(k)fluoranthene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Benzo(g,h,i)perylene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Chrysene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenz(a,h)anthracene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Dibenzofuran	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluoranthene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Fluorene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011159		
1-Methylnaphthalene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
2-Methylnaphthalene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Naphthalene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Phenanthrene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
Pyrene	ND	---	0.0103	mg/kg dry	1	01/31/19	EPA 8270D (SIM)	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 44-120 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>92 %</i>		<i>54-127 %</i>	<i>1</i>	<i>01/31/19</i>	<i>EPA 8270D (SIM)</i>	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01) Matrix: Soil								
Batch: 9011206								
Arsenic	14.9	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	240	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.924	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	26.4	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	14.7	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.105	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	
DP-18(6.5-8) (A9A0760-03) Matrix: Soil								
Batch: 9011206								
Arsenic	7.98	---	1.35	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	195	---	1.35	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.939	---	0.269	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	22.4	---	1.35	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	9.91	---	0.269	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.108	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.35	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.269	mg/kg dry	10	02/01/19	EPA 6020A	
DP-19(1-2) (A9A0760-05) Matrix: Soil								
Batch: 9011206								
Arsenic	13.2	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	229	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.853	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	24.7	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	13.3	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.101	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
DP-19(8-9) (A9A0760-07) Matrix: Soil								
Batch: 9011206								

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Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-19(8-9) (A9A0760-07) Matrix: Soil								
Arsenic	6.29	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	170	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.908	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	23.3	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	8.31	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.104	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.259	mg/kg dry	10	02/01/19	EPA 6020A	
DP-20(1-2) (A9A0760-09) Matrix: Soil								
Batch: 9011218								
Arsenic	12.0	---	1.41	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	195	---	1.41	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.650	---	0.281	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	19.7	---	1.41	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	15.5	---	0.281	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.112	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.41	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.281	mg/kg dry	10	02/01/19	EPA 6020A	
DP-20(6.5-8) (A9A0760-11) Matrix: Soil								
Batch: 9011218								
Arsenic	4.87	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	158	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.809	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	15.9	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	6.84	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.101	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.253	mg/kg dry	10	02/01/19	EPA 6020A	
DP-21(0.5-1.5) (A9A0760-13) Matrix: Soil								
Batch: 9011218								
Arsenic	11.6	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-21(0.5-1.5) (A9A0760-13) Matrix: Soil								
Barium	192	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.675	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	21.6	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	13.4	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.109	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.37	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.274	mg/kg dry	10	02/01/19	EPA 6020A	
DP-21(7-8) (A9A0760-15) Matrix: Soil								
Batch: 9011218								
Arsenic	4.17	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	153	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.884	---	0.254	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	12.7	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	6.97	---	0.254	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.102	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.27	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.254	mg/kg dry	10	02/01/19	EPA 6020A	
DP-22(1.5-2.5) (A9A0760-17) Matrix: Soil								
Batch: 9011218								
Arsenic	12.8	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	211	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.662	---	0.279	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	26.9	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	14.7	---	0.279	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.112	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.279	mg/kg dry	10	02/01/19	EPA 6020A	
DP-22(8-9) (A9A0760-19) Matrix: Soil								
Batch: 9011218								
Arsenic	4.75	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	152	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-22(8-9) (A9A0760-19) Matrix: Soil								
Cadmium	0.848	---	0.240	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	15.5	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	6.69	---	0.240	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.0960	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.240	mg/kg dry	10	02/01/19	EPA 6020A	
DP-23(1-2) (A9A0760-21) Matrix: Soil								
Batch: 9011218								
Arsenic	9.83	---	1.45	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	218	---	1.45	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.766	---	0.290	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	25.2	---	1.45	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	12.3	---	0.290	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.116	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.45	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.290	mg/kg dry	10	02/01/19	EPA 6020A	
DP-23(8-9.5) (A9A0760-23) Matrix: Soil								
Batch: 9011218								
Arsenic	4.00	---	1.38	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	165	---	1.38	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.753	---	0.276	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	13.3	---	1.38	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	5.34	---	0.276	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.110	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.38	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.276	mg/kg dry	10	02/01/19	EPA 6020A	
DP-24(0.5-1.5) (A9A0760-25) Matrix: Soil								
Batch: 9011218								
Arsenic	6.89	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	149	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.621	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(0.5-1.5) (A9A0760-25) Matrix: Soil								
Chromium	16.6	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	9.26	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.105	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.31	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.262	mg/kg dry	10	02/01/19	EPA 6020A	
DP-24(7.5-8.5) (A9A0760-27) Matrix: Soil								
Batch: 9011218								
Arsenic	4.38	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	152	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.899	---	0.258	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	15.1	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	6.88	---	0.258	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.103	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.29	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.258	mg/kg dry	10	02/01/19	EPA 6020A	
DP-25(1-2) (A9A0760-29) Matrix: Soil								
Batch: 9011218								
Arsenic	9.35	---	1.40	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	214	---	1.40	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.543	---	0.280	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	25.9	---	1.40	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	20.6	---	0.280	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.112	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.40	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.280	mg/kg dry	10	02/01/19	EPA 6020A	
DP-25(12-13) (A9A0760-33) Matrix: Soil								
Batch: 9011218								
Arsenic	6.68	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	200	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.780	---	0.261	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	19.5	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-25(12-13) (A9A0760-33) Matrix: Soil								
Lead	8.90	---	0.261	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.104	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.30	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.261	mg/kg dry	10	02/01/19	EPA 6020A	
DP-26(1-2) (A9A0760-37) Matrix: Soil								
Batch: 9011218								
Arsenic	10.3	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	214	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.684	---	0.278	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	21.0	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	15.5	---	0.278	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.111	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.39	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.278	mg/kg dry	10	02/01/19	EPA 6020A	
DP-26(7-8) (A9A0760-39) Matrix: Soil								
Batch: 9011218								
Arsenic	4.32	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	153	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.743	---	0.241	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	15.0	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	4.79	---	0.241	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.0964	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.20	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.241	mg/kg dry	10	02/01/19	EPA 6020A	
DP-27(1-2) (A9A0760-41) Matrix: Soil								
Batch: 9011218								
Arsenic	14.9	---	1.43	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	236	---	1.43	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.807	---	0.286	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	24.2	---	1.43	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	17.7	---	0.286	mg/kg dry	10	02/01/19	EPA 6020A	

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS**Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-27(1-2) (A9A0760-41) Matrix: Soil								
Mercury	ND	---	0.114	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.43	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.286	mg/kg dry	10	02/01/19	EPA 6020A	
DP-27(14-15) (A9A0760-44) Matrix: Soil								
Batch: 9011218								
Arsenic	4.14	---	1.33	mg/kg dry	10	02/01/19	EPA 6020A	
Barium	152	---	1.33	mg/kg dry	10	02/01/19	EPA 6020A	
Cadmium	0.852	---	0.267	mg/kg dry	10	02/01/19	EPA 6020A	
Chromium	13.8	---	1.33	mg/kg dry	10	02/01/19	EPA 6020A	
Lead	4.70	---	0.267	mg/kg dry	10	02/01/19	EPA 6020A	
Mercury	ND	---	0.107	mg/kg dry	10	02/01/19	EPA 6020A	
Selenium	ND	---	1.33	mg/kg dry	10	02/01/19	EPA 6020A	
Silver	ND	---	0.267	mg/kg dry	10	02/01/19	EPA 6020A	
DP-28(1-2) (A9A0760-47) Matrix: Soil								
Batch: 9020280								
Arsenic	8.38	---	1.23	mg/kg dry	10	02/04/19	EPA 6020A	
Barium	157	---	1.23	mg/kg dry	10	02/04/19	EPA 6020A	
Cadmium	0.507	---	0.245	mg/kg dry	10	02/04/19	EPA 6020A	
Chromium	19.5	---	1.23	mg/kg dry	10	02/04/19	EPA 6020A	
Lead	12.6	---	0.245	mg/kg dry	10	02/04/19	EPA 6020A	
Mercury	ND	---	0.0981	mg/kg dry	10	02/04/19	EPA 6020A	
Selenium	ND	---	1.23	mg/kg dry	10	02/04/19	EPA 6020A	
Silver	ND	---	0.245	mg/kg dry	10	02/04/19	EPA 6020A	
DP-28(8-9) (A9A0760-49) Matrix: Soil								
Batch: 9020280								
Arsenic	5.92	---	1.25	mg/kg dry	10	02/04/19	EPA 6020A	
Barium	187	---	1.25	mg/kg dry	10	02/04/19	EPA 6020A	
Cadmium	0.704	---	0.251	mg/kg dry	10	02/04/19	EPA 6020A	
Chromium	18.8	---	1.25	mg/kg dry	10	02/04/19	EPA 6020A	
Lead	7.90	---	0.251	mg/kg dry	10	02/04/19	EPA 6020A	
Mercury	ND	---	0.100	mg/kg dry	10	02/04/19	EPA 6020A	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-28(8-9) (A9A0760-49) Matrix: Soil								
Selenium	ND	---	1.25	mg/kg dry	10	02/04/19	EPA 6020A	
Silver	ND	---	0.251	mg/kg dry	10	02/04/19	EPA 6020A	
HA-1(0-1) (A9A0760-51) Matrix: Soil								
Batch: 9020280								
Arsenic	5.65	---	1.19	mg/kg dry	10	02/04/19	EPA 6020A	
Barium	144	---	1.19	mg/kg dry	10	02/04/19	EPA 6020A	
Cadmium	0.467	---	0.239	mg/kg dry	10	02/04/19	EPA 6020A	
Chromium	15.0	---	1.19	mg/kg dry	10	02/04/19	EPA 6020A	
Lead	11.4	---	0.239	mg/kg dry	10	02/04/19	EPA 6020A	
Mercury	ND	---	0.0956	mg/kg dry	10	02/04/19	EPA 6020A	
Selenium	ND	---	1.19	mg/kg dry	10	02/04/19	EPA 6020A	
Silver	ND	---	0.239	mg/kg dry	10	02/04/19	EPA 6020A	
HA-2(0-1) (A9A0760-52) Matrix: Soil								
Batch: 9020280								
Arsenic	2.32	---	1.08	mg/kg dry	10	02/04/19	EPA 6020A	
Barium	86.6	---	1.08	mg/kg dry	10	02/04/19	EPA 6020A	
Cadmium	0.329	---	0.216	mg/kg dry	10	02/04/19	EPA 6020A	
Chromium	9.51	---	1.08	mg/kg dry	10	02/04/19	EPA 6020A	
Lead	4.56	---	0.216	mg/kg dry	10	02/04/19	EPA 6020A	
Mercury	ND	---	0.0863	mg/kg dry	10	02/04/19	EPA 6020A	
Selenium	ND	---	1.08	mg/kg dry	10	02/04/19	EPA 6020A	
Silver	ND	---	0.216	mg/kg dry	10	02/04/19	EPA 6020A	
HA-3(0-1) (A9A0760-53) Matrix: Soil								
Batch: 9020280								
Arsenic	4.86	---	1.12	mg/kg dry	10	02/04/19	EPA 6020A	
Barium	141	---	1.12	mg/kg dry	10	02/04/19	EPA 6020A	
Cadmium	0.504	---	0.223	mg/kg dry	10	02/04/19	EPA 6020A	
Chromium	14.1	---	1.12	mg/kg dry	10	02/04/19	EPA 6020A	
Lead	8.90	---	0.223	mg/kg dry	10	02/04/19	EPA 6020A	
Mercury	ND	---	0.0893	mg/kg dry	10	02/04/19	EPA 6020A	
Selenium	ND	---	1.12	mg/kg dry	10	02/04/19	EPA 6020A	

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020A (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-3(0-1) (A9A0760-53)				Matrix: Soil				
Silver	ND	---	0.223	mg/kg dry	10	02/04/19	EPA 6020A	

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Percent Dry Weight**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-18(2-3) (A9A0760-01)				Matrix: Soil		Batch: 9011095		
% Solids	74.6	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-18(6.5-8) (A9A0760-03)				Matrix: Soil		Batch: 9011095		
% Solids	76.7	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-19(1-2) (A9A0760-05)				Matrix: Soil		Batch: 9011095		
% Solids	76.1	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-19(8-9) (A9A0760-07)				Matrix: Soil		Batch: 9011095		
% Solids	78.7	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-20(1-2) (A9A0760-09)				Matrix: Soil		Batch: 9011095		
% Solids	76.3	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-20(6.5-8) (A9A0760-11)				Matrix: Soil		Batch: 9011095		
% Solids	82.6	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-21(0.5-1.5) (A9A0760-13)				Matrix: Soil		Batch: 9011095		
% Solids	76.1	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-21(7-8) (A9A0760-15)				Matrix: Soil		Batch: 9011095		
% Solids	84.5	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-22(1.5-2.5) (A9A0760-17)				Matrix: Soil		Batch: 9011095		
% Solids	77.9	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-22(8-9) (A9A0760-19)				Matrix: Soil		Batch: 9011095		
% Solids	83.9	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-23(1-2) (A9A0760-21)				Matrix: Soil		Batch: 9011095		
% Solids	75.1	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-23(8-9.5) (A9A0760-23)				Matrix: Soil		Batch: 9011095		
% Solids	78.0	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011095		

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****ANALYTICAL SAMPLE RESULTS****Percent Dry Weight**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-24(0.5-1.5) (A9A0760-25)				Matrix: Soil		Batch: 9011095		
% Solids	79.5	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-24(7.5-8.5) (A9A0760-27)				Matrix: Soil		Batch: 9011095		
% Solids	79.3	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-25(1-2) (A9A0760-29)				Matrix: Soil		Batch: 9011095		
% Solids	76.6	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-25(12-13) (A9A0760-33)				Matrix: Soil		Batch: 9011095		
% Solids	76.6	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-26(1-2) (A9A0760-37)				Matrix: Soil		Batch: 9011095		
% Solids	74.7	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-26(7-8) (A9A0760-39)				Matrix: Soil		Batch: 9011095		
% Solids	84.9	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-27(1-2) (A9A0760-41)				Matrix: Soil		Batch: 9011095		
% Solids	75.8	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-27(14-15) (A9A0760-44)				Matrix: Soil		Batch: 9011095		
% Solids	77.8	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-28(1-2) (A9A0760-47)				Matrix: Soil		Batch: 9011095		
% Solids	82.9	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
DP-28(8-9) (A9A0760-49)				Matrix: Soil		Batch: 9011095		
% Solids	79.4	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
HA-1(0-1) (A9A0760-51)				Matrix: Soil		Batch: 9011095		
% Solids	81.9	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
HA-2(0-1) (A9A0760-52)				Matrix: Soil		Batch: 9011095		
% Solids	93.3	---	1.00	% by Weight	1	01/29/19	EPA 8000C	
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011095		

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-3(0-1) (A9A0760-53)				Matrix: Soil		Batch: 9011095		
% Solids	89.2	---	1.00	% by Weight	1	01/29/19	EPA 8000C	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Blank (9011097-BLK1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 12:33							
5035A/8260C												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Blank (9011097-BLK1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 12:33							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Blank (9011097-BLK1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 12:33							
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (9011097-BS1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 11:23							
5035A/8260C												
Acetone	2.09	---	1.00	mg/kg wet	50	2.00	---	105	80-120%	---	---	
Acrylonitrile	1.07	---	0.100	mg/kg wet	50	1.00	---	107	80-120%	---	---	
Benzene	1.04	---	0.0100	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Bromobenzene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Bromochloromethane	1.18	---	0.0500	mg/kg wet	50	1.00	---	118	80-120%	---	---	
Bromodichloromethane	0.979	---	0.0500	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Bromoform	0.930	---	0.100	mg/kg wet	50	1.00	---	93	80-120%	---	---	
Bromomethane	1.21	---	0.500	mg/kg wet	50	1.00	---	121	80-120%	---	---	Q-56
2-Butanone (MEK)	2.17	---	0.500	mg/kg wet	50	2.00	---	108	80-120%	---	---	
n-Butylbenzene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
sec-Butylbenzene	1.13	---	0.0500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
tert-Butylbenzene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
Carbon disulfide	1.21	---	0.500	mg/kg wet	50	1.00	---	121	80-120%	---	---	Q-56
Carbon tetrachloride	0.938	---	0.0500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Chlorobenzene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Chloroethane	1.02	---	0.500	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Chloroform	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Chloromethane	0.993	---	0.250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
2-Chlorotoluene	1.13	---	0.0500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
4-Chlorotoluene	1.11	---	0.0500	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Dibromochloromethane	0.934	---	0.100	mg/kg wet	50	1.00	---	93	80-120%	---	---	
1,2-Dibromo-3-chloropropane	0.887	---	0.250	mg/kg wet	50	1.00	---	89	80-120%	---	---	
1,2-Dibromoethane (EDB)	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Dibromomethane	1.13	---	0.0500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
1,2-Dichlorobenzene	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80-120%	---	---	
1,3-Dichlorobenzene	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
1,4-Dichlorobenzene	0.994	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Dichlorodifluoromethane	0.860	---	0.100	mg/kg wet	50	1.00	---	86	80-120%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
LCS (9011097-BS1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 11:23							
1,1-Dichloroethane	1.13	---	0.0250	mg/kg wet	50	1.00	---	113	80-120%	---	---	
1,2-Dichloroethane (EDC)	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
1,1-Dichloroethene	1.12	---	0.0250	mg/kg wet	50	1.00	---	112	80-120%	---	---	
cis-1,2-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
trans-1,2-Dichloroethene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
1,2-Dichloropropane	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,3-Dichloropropane	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
2,2-Dichloropropane	1.11	---	0.0500	mg/kg wet	50	1.00	---	111	80-120%	---	---	
1,1-Dichloropropene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
cis-1,3-Dichloropropene	0.920	---	0.0500	mg/kg wet	50	1.00	---	92	80-120%	---	---	
trans-1,3-Dichloropropene	0.965	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Ethylbenzene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
Hexachlorobutadiene	1.01	---	0.100	mg/kg wet	50	1.00	---	101	80-120%	---	---	
2-Hexanone	1.94	---	0.500	mg/kg wet	50	2.00	---	97	80-120%	---	---	
Isopropylbenzene	1.13	---	0.0500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
4-Isopropyltoluene	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
Methylene chloride	1.07	---	0.250	mg/kg wet	50	1.00	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2.20	---	0.500	mg/kg wet	50	2.00	---	110	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Naphthalene	0.916	---	0.100	mg/kg wet	50	1.00	---	92	80-120%	---	---	
n-Propylbenzene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Styrene	0.988	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.970	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.17	---	0.0500	mg/kg wet	50	1.00	---	117	80-120%	---	---	
Tetrachloroethene (PCE)	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Toluene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,2,3-Trichlorobenzene	1.08	---	0.250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,2,4-Trichlorobenzene	1.08	---	0.250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,1,1-Trichloroethane	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
1,1,2-Trichloroethane	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Trichloroethene (TCE)	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Trichlorofluoromethane	1.08	---	0.100	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,2,3-Trichloropropane	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
1,2,4-Trimethylbenzene	1.15	---	0.0500	mg/kg wet	50	1.00	---	115	80-120%	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
LCS (9011097-BS1)			Prepared: 01/28/19 10:00		Analyzed: 01/28/19 11:23							
1,3,5-Trimethylbenzene	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
Vinyl chloride	1.18	---	0.0250	mg/kg wet	50	1.00	---	118	80-120%	---	---	
m,p-Xylene	2.23	---	0.0500	mg/kg wet	50	2.00	---	111	80-120%	---	---	
o-Xylene	1.11	---	0.0250	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

Duplicate (9011097-DUP1)

Prepared: 01/24/19 09:45 Analyzed: 01/28/19 14:20

QC Source Sample: DP-18(2-3) (A9A0760-01)**5035A/8260C**

Acetone	ND	---	1.45	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.0145	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.362	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.362	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Duplicate (9011097-DUP1)			Prepared: 01/24/19 09:45		Analyzed: 01/28/19 14:20							
QC Source Sample: DP-18(2-3) (A9A0760-01)												
Dibromomethane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.362	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.724	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.362	mg/kg dry	50	---	ND	---	---	---	30%	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Duplicate (9011097-DUP1)			Prepared: 01/24/19 09:45 Analyzed: 01/28/19 14:20									
QC Source Sample: DP-18(2-3) (A9A0760-01)												
1,2,4-Trichlorobenzene	ND	---	0.362	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.145	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0724	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0362	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

Matrix Spike (9011097-MS1)

Prepared: 01/24/19 13:35 Analyzed: 01/28/19 22:25

QC Source Sample: DP-26(7-8) (A9A0760-39)**5035A/8260C**

Acetone	2.54	---	1.12	mg/kg dry	50	2.24	ND	113	36-164%	---	---	
Acrylonitrile	1.21	---	0.112	mg/kg dry	50	1.12	ND	108	65-134%	---	---	
Benzene	1.19	---	0.0112	mg/kg dry	50	1.12	ND	106	77-121%	---	---	
Bromobenzene	1.14	---	0.0281	mg/kg dry	50	1.12	ND	102	78-121%	---	---	
Bromochloromethane	1.38	---	0.0561	mg/kg dry	50	1.12	ND	123	78-125%	---	---	
Bromodichloromethane	1.06	---	0.0561	mg/kg dry	50	1.12	ND	94	75-127%	---	---	
Bromoform	0.963	---	0.112	mg/kg dry	50	1.12	ND	86	67-132%	---	---	
Bromomethane	1.66	---	0.561	mg/kg dry	50	1.12	ND	148	53-143%	---	---	Q-54a
2-Butanone (MEK)	2.44	---	0.561	mg/kg dry	50	2.24	ND	109	51-148%	---	---	
n-Butylbenzene	1.07	---	0.0561	mg/kg dry	50	1.12	ND	96	70-128%	---	---	
sec-Butylbenzene	1.15	---	0.0561	mg/kg dry	50	1.12	ND	103	73-126%	---	---	
tert-Butylbenzene	1.10	---	0.0561	mg/kg dry	50	1.12	ND	98	73-125%	---	---	
Carbon disulfide	1.24	---	0.561	mg/kg dry	50	1.12	ND	110	63-132%	---	---	Q-54
Carbon tetrachloride	1.05	---	0.0561	mg/kg dry	50	1.12	ND	94	70-135%	---	---	
Chlorobenzene	1.09	---	0.0281	mg/kg dry	50	1.12	ND	97	79-120%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Matrix Spike (9011097-MS1)			Prepared: 01/24/19 13:35		Analyzed: 01/28/19 22:25							
QC Source Sample: DP-26(7-8) (A9A0760-39)												
Chloroethane	1.74	---	0.561	mg/kg dry	50	1.12	ND	156	59-139%	---	---	Q-01
Chloroform	1.18	---	0.0561	mg/kg dry	50	1.12	ND	105	78-123%	---	---	
Chloromethane	1.18	---	0.281	mg/kg dry	50	1.12	ND	105	50-136%	---	---	
2-Chlorotoluene	1.15	---	0.0561	mg/kg dry	50	1.12	ND	102	75-122%	---	---	
4-Chlorotoluene	1.14	---	0.0561	mg/kg dry	50	1.12	ND	101	72-124%	---	---	
Dibromochloromethane	0.913	---	0.112	mg/kg dry	50	1.12	ND	81	74-126%	---	---	
1,2-Dibromo-3-chloropropane	0.849	---	0.281	mg/kg dry	50	1.12	ND	76	61-132%	---	---	
1,2-Dibromoethane (EDB)	1.04	---	0.0561	mg/kg dry	50	1.12	ND	92	78-122%	---	---	
Dibromomethane	1.21	---	0.0561	mg/kg dry	50	1.12	ND	108	78-125%	---	---	
1,2-Dichlorobenzene	1.08	---	0.0281	mg/kg dry	50	1.12	ND	97	78-121%	---	---	
1,3-Dichlorobenzene	1.10	---	0.0281	mg/kg dry	50	1.12	ND	98	77-121%	---	---	
1,4-Dichlorobenzene	1.05	---	0.0281	mg/kg dry	50	1.12	ND	93	75-120%	---	---	
Dichlorodifluoromethane	1.13	---	0.112	mg/kg dry	50	1.12	ND	101	29-149%	---	---	
1,1-Dichloroethane	1.34	---	0.0281	mg/kg dry	50	1.12	ND	119	76-125%	---	---	
1,2-Dichloroethane (EDC)	1.27	---	0.0281	mg/kg dry	50	1.12	ND	113	73-128%	---	---	
1,1-Dichloroethene	1.34	---	0.0281	mg/kg dry	50	1.12	ND	120	70-131%	---	---	
cis-1,2-Dichloroethene	1.22	---	0.0281	mg/kg dry	50	1.12	ND	108	77-123%	---	---	
trans-1,2-Dichloroethene	1.26	---	0.0281	mg/kg dry	50	1.12	ND	113	74-125%	---	---	
1,2-Dichloropropane	1.23	---	0.0281	mg/kg dry	50	1.12	ND	110	76-123%	---	---	
1,3-Dichloropropane	1.13	---	0.0561	mg/kg dry	50	1.12	ND	101	77-121%	---	---	
2,2-Dichloropropane	1.02	---	0.0561	mg/kg dry	50	1.12	ND	91	67-133%	---	---	
1,1-Dichloropropene	1.24	---	0.0561	mg/kg dry	50	1.12	ND	110	76-125%	---	---	
cis-1,3-Dichloropropene	0.873	---	0.0561	mg/kg dry	50	1.12	ND	78	74-126%	---	---	
trans-1,3-Dichloropropene	0.935	---	0.0561	mg/kg dry	50	1.12	ND	83	71-130%	---	---	
Ethylbenzene	1.13	---	0.0281	mg/kg dry	50	1.12	ND	101	76-122%	---	---	
Hexachlorobutadiene	0.977	---	0.112	mg/kg dry	50	1.12	ND	87	61-135%	---	---	
2-Hexanone	2.01	---	0.561	mg/kg dry	50	2.24	ND	90	53-145%	---	---	
Isopropylbenzene	1.17	---	0.0561	mg/kg dry	50	1.12	ND	104	68-134%	---	---	
4-Isopropyltoluene	1.11	---	0.0561	mg/kg dry	50	1.12	ND	99	73-127%	---	---	
Methylene chloride	1.24	---	0.281	mg/kg dry	50	1.12	ND	111	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2.29	---	0.561	mg/kg dry	50	2.24	ND	102	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1.14	---	0.0561	mg/kg dry	50	1.12	ND	101	73-125%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011097 - EPA 5035A						Soil						
Matrix Spike (9011097-MS1)			Prepared: 01/24/19 13:35 Analyzed: 01/28/19 22:25									
QC Source Sample: DP-26(7-8) (A9A0760-39)												
Naphthalene	0.842	---	0.112	mg/kg dry	50	1.12	ND	75	62-129%	---	---	Q-01
n-Propylbenzene	1.13	---	0.0281	mg/kg dry	50	1.12	ND	101	73-125%	---	---	
Styrene	1.04	---	0.0561	mg/kg dry	50	1.12	ND	93	76-124%	---	---	
1,1,1,2-Tetrachloroethane	0.966	---	0.0281	mg/kg dry	50	1.12	ND	86	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1.24	---	0.0561	mg/kg dry	50	1.12	ND	110	70-124%	---	---	
Tetrachloroethene (PCE)	1.09	---	0.0281	mg/kg dry	50	1.12	ND	97	73-128%	---	---	
Toluene	1.05	---	0.0561	mg/kg dry	50	1.12	ND	94	77-121%	---	---	
1,2,3-Trichlorobenzene	1.04	---	0.281	mg/kg dry	50	1.12	ND	93	66-130%	---	---	
1,2,4-Trichlorobenzene	1.00	---	0.281	mg/kg dry	50	1.12	ND	90	67-129%	---	---	
1,1,1-Trichloroethane	1.24	---	0.0281	mg/kg dry	50	1.12	ND	111	73-130%	---	---	
1,1,2-Trichloroethane	1.16	---	0.0281	mg/kg dry	50	1.12	ND	104	78-121%	---	---	
Trichloroethene (TCE)	1.15	---	0.0281	mg/kg dry	50	1.12	ND	102	77-123%	---	---	
Trichlorofluoromethane	1.77	---	0.112	mg/kg dry	50	1.12	ND	158	62-140%	---	---	
1,2,3-Trichloropropane	1.16	---	0.0561	mg/kg dry	50	1.12	ND	103	73-125%	---	---	
1,2,4-Trimethylbenzene	1.18	---	0.0561	mg/kg dry	50	1.12	ND	105	75-123%	---	---	
1,3,5-Trimethylbenzene	1.16	---	0.0561	mg/kg dry	50	1.12	ND	103	73-124%	---	---	
Vinyl chloride	1.50	---	0.0281	mg/kg dry	50	1.12	ND	134	56-135%	---	---	
m,p-Xylene	2.34	---	0.0561	mg/kg dry	50	2.24	ND	104	77-124%	---	---	
o-Xylene	1.15	---	0.0281	mg/kg dry	50	1.12	ND	103	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Blank (9011101-BLK1)			Prepared: 01/28/19 11:00 Analyzed: 01/28/19 14:13									
5035A/8260C												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Blank (9011101-BLK1)			Prepared: 01/28/19 11:00		Analyzed: 01/28/19 14:13							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	0.180	---	0.167	mg/kg wet	50	---	---	---	---	---	---	B
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Blank (9011101-BLK1)			Prepared: 01/28/19 11:00 Analyzed: 01/28/19 14:13									
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
LCS (9011101-BS3)			Prepared: 01/28/19 11:00 Analyzed: 01/28/19 13:19									
5035A/8260C												
Acetone	1.66	---	1.00	mg/kg wet	50	2.00	---	83	80-120%	---	---	
Acrylonitrile	0.968	---	0.100	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Benzene	1.02	---	0.0100	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Bromobenzene	0.969	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Bromochloromethane	0.892	---	0.0500	mg/kg wet	50	1.00	---	89	80-120%	---	---	
Bromodichloromethane	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Bromoform	0.965	---	0.100	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Bromomethane	0.831	---	0.500	mg/kg wet	50	1.00	---	83	80-120%	---	---	
2-Butanone (MEK)	1.88	---	0.500	mg/kg wet	50	2.00	---	94	80-120%	---	---	
n-Butylbenzene	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
sec-Butylbenzene	0.951	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
tert-Butylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Carbon disulfide	1.10	---	0.500	mg/kg wet	50	1.00	---	110	80-120%	---	---	
Carbon tetrachloride	1.19	---	0.0500	mg/kg wet	50	1.00	---	119	80-120%	---	---	
Chlorobenzene	0.958	---	0.0250	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Chloroethane	0.907	---	0.500	mg/kg wet	50	1.00	---	91	80-120%	---	---	
Chloroform	0.919	---	0.0500	mg/kg wet	50	1.00	---	92	80-120%	---	---	
Chloromethane	0.921	---	0.250	mg/kg wet	50	1.00	---	92	80-120%	---	---	
2-Chlorotoluene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
4-Chlorotoluene	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80-120%	---	---	
Dibromochloromethane	0.934	---	0.100	mg/kg wet	50	1.00	---	93	80-120%	---	---	
1,2-Dibromo-3-chloropropane	1.01	---	0.250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,2-Dibromoethane (EDB)	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Dibromomethane	0.955	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,2-Dichlorobenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,3-Dichlorobenzene	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
1,4-Dichlorobenzene	0.934	---	0.0250	mg/kg wet	50	1.00	---	93	80-120%	---	---	
Dichlorodifluoromethane	0.798	---	0.100	mg/kg wet	50	1.00	---	80	80-120%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
LCS (9011101-BS3)			Prepared: 01/28/19 11:00		Analyzed: 01/28/19 13:19							
1,1-Dichloroethane	0.987	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,2-Dichloroethane (EDC)	0.880	---	0.0250	mg/kg wet	50	1.00	---	88	80-120%	---	---	
1,1-Dichloroethene	0.905	---	0.0250	mg/kg wet	50	1.00	---	91	80-120%	---	---	
cis-1,2-Dichloroethene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	0.972	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,2-Dichloropropane	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
1,3-Dichloropropane	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80-120%	---	---	
2,2-Dichloropropane	1.20	---	0.0500	mg/kg wet	50	1.00	---	120	80-120%	---	---	
1,1-Dichloropropene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
cis-1,3-Dichloropropene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80-120%	---	---	
trans-1,3-Dichloropropene	0.996	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Ethylbenzene	0.990	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Hexachlorobutadiene	1.04	---	0.100	mg/kg wet	50	1.00	---	104	80-120%	---	---	
2-Hexanone	2.29	---	0.500	mg/kg wet	50	2.00	---	115	80-120%	---	---	
Isopropylbenzene	0.956	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
4-Isopropyltoluene	0.956	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Methylene chloride	1.19	---	0.250	mg/kg wet	50	1.00	---	119	80-120%	---	---	B
4-Methyl-2-pentanone (MiBK)	1.95	---	0.500	mg/kg wet	50	2.00	---	97	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Naphthalene	0.963	---	0.100	mg/kg wet	50	1.00	---	96	80-120%	---	---	
n-Propylbenzene	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Styrene	0.917	---	0.0500	mg/kg wet	50	1.00	---	92	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.990	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
Tetrachloroethene (PCE)	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Toluene	0.951	---	0.0500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,2,3-Trichlorobenzene	1.03	---	0.250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
1,2,4-Trichlorobenzene	1.06	---	0.250	mg/kg wet	50	1.00	---	106	80-120%	---	---	
1,1,1-Trichloroethane	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,1,2-Trichloroethane	0.982	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Trichloroethene (TCE)	0.951	---	0.0250	mg/kg wet	50	1.00	---	95	80-120%	---	---	
Trichlorofluoromethane	0.625	---	0.100	mg/kg wet	50	1.00	---	62	80-120%	---	---	Q-55
1,2,3-Trichloropropane	0.985	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,2,4-Trimethylbenzene	0.965	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
LCS (9011101-BS3)			Prepared: 01/28/19 11:00		Analyzed: 01/28/19 13:19							
1,3,5-Trimethylbenzene	0.961	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	Q-55
Vinyl chloride	0.773	---	0.0250	mg/kg wet	50	1.00	---	77	80-120%	---	---	
m,p-Xylene	1.89	---	0.0500	mg/kg wet	50	2.00	---	95	80-120%	---	---	
o-Xylene	0.972	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						

Duplicate (9011101-DUP1)

Prepared: 01/24/19 14:10 Analyzed: 01/28/19 16:28

QC Source Sample: DP-27(1-2) (A9A0760-41)**5035A/8260C**

Acetone	ND	---	1.40	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.0140	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.349	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.349	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Duplicate (9011101-DUP1)			Prepared: 01/24/19 14:10		Analyzed: 01/28/19 16:28							
QC Source Sample: DP-27(1-2) (A9A0760-41)												
Dibromomethane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.349	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.698	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.349	mg/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Duplicate (9011101-DUP1)			Prepared: 01/24/19 14:10 Analyzed: 01/28/19 16:28									
QC Source Sample: DP-27(1-2) (A9A0760-41)												
1,2,4-Trichlorobenzene	ND	---	0.349	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.140	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0698	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0349	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						

Matrix Spike (9011101-MS1)

Prepared: 01/24/19 16:50 Analyzed: 01/28/19 19:37

QC Source Sample: HA-3(0-1) (A9A0760-53)**5035A/8260C**

Acetone	2.23	---	1.12	mg/kg dry	50	2.24	ND	99	36-164%	---	---
Acrylonitrile	1.19	---	0.112	mg/kg dry	50	1.12	ND	106	65-134%	---	---
Benzene	1.16	---	0.0112	mg/kg dry	50	1.12	ND	103	77-121%	---	---
Bromobenzene	1.06	---	0.0280	mg/kg dry	50	1.12	ND	94	78-121%	---	---
Bromochloromethane	1.06	---	0.0561	mg/kg dry	50	1.12	ND	94	78-125%	---	---
Bromodichloromethane	1.17	---	0.0561	mg/kg dry	50	1.12	ND	105	75-127%	---	---
Bromoform	1.03	---	0.112	mg/kg dry	50	1.12	ND	92	67-132%	---	---
Bromomethane	1.00	---	0.561	mg/kg dry	50	1.12	ND	89	53-143%	---	---
2-Butanone (MEK)	2.50	---	0.561	mg/kg dry	50	2.24	ND	111	51-148%	---	---
n-Butylbenzene	1.19	---	0.0561	mg/kg dry	50	1.12	ND	106	70-128%	---	---
sec-Butylbenzene	1.03	---	0.0561	mg/kg dry	50	1.12	ND	92	73-126%	---	---
tert-Butylbenzene	1.13	---	0.0561	mg/kg dry	50	1.12	ND	101	73-125%	---	---
Carbon disulfide	1.25	---	0.561	mg/kg dry	50	1.12	ND	111	63-132%	---	---
Carbon tetrachloride	1.32	---	0.0561	mg/kg dry	50	1.12	ND	118	70-135%	---	---
Chlorobenzene	1.09	---	0.0280	mg/kg dry	50	1.12	ND	97	79-120%	---	---

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A						Soil						
Matrix Spike (9011101-MS1)			Prepared: 01/24/19 16:50 Analyzed: 01/28/19 19:37									
QC Source Sample: HA-3(0-1) (A9A0760-53)												
Chloroethane	0.953	---	0.561	mg/kg dry	50	1.12	ND	85	59-139%	---	---	
Chloroform	1.05	---	0.0561	mg/kg dry	50	1.12	ND	94	78-123%	---	---	
Chloromethane	1.10	---	0.280	mg/kg dry	50	1.12	ND	98	50-136%	---	---	
2-Chlorotoluene	1.13	---	0.0561	mg/kg dry	50	1.12	ND	101	75-122%	---	---	
4-Chlorotoluene	1.18	---	0.0561	mg/kg dry	50	1.12	ND	106	72-124%	---	---	
Dibromochloromethane	1.00	---	0.112	mg/kg dry	50	1.12	ND	90	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1.07	---	0.280	mg/kg dry	50	1.12	ND	95	61-132%	---	---	
1,2-Dibromoethane (EDB)	1.17	---	0.0561	mg/kg dry	50	1.12	ND	105	78-122%	---	---	
Dibromomethane	1.11	---	0.0561	mg/kg dry	50	1.12	ND	99	78-125%	---	---	
1,2-Dichlorobenzene	1.11	---	0.0280	mg/kg dry	50	1.12	ND	99	78-121%	---	---	
1,3-Dichlorobenzene	1.12	---	0.0280	mg/kg dry	50	1.12	ND	100	77-121%	---	---	
1,4-Dichlorobenzene	1.02	---	0.0280	mg/kg dry	50	1.12	ND	91	75-120%	---	---	
Dichlorodifluoromethane	0.930	---	0.112	mg/kg dry	50	1.12	ND	83	29-149%	---	---	
1,1-Dichloroethane	1.15	---	0.0280	mg/kg dry	50	1.12	ND	102	76-125%	---	---	
1,2-Dichloroethane (EDC)	1.04	---	0.0280	mg/kg dry	50	1.12	ND	93	73-128%	---	---	
1,1-Dichloroethene	1.06	---	0.0280	mg/kg dry	50	1.12	ND	94	70-131%	---	---	
cis-1,2-Dichloroethene	1.15	---	0.0280	mg/kg dry	50	1.12	ND	103	77-123%	---	---	
trans-1,2-Dichloroethene	1.11	---	0.0280	mg/kg dry	50	1.12	ND	99	74-125%	---	---	
1,2-Dichloropropane	1.16	---	0.0280	mg/kg dry	50	1.12	ND	104	76-123%	---	---	
1,3-Dichloropropane	1.13	---	0.0561	mg/kg dry	50	1.12	ND	101	77-121%	---	---	
2,2-Dichloropropane	1.15	---	0.0561	mg/kg dry	50	1.12	ND	103	67-133%	---	---	
1,1-Dichloropropene	1.22	---	0.0561	mg/kg dry	50	1.12	ND	108	76-125%	---	---	
cis-1,3-Dichloropropene	1.03	---	0.0561	mg/kg dry	50	1.12	ND	92	74-126%	---	---	
trans-1,3-Dichloropropene	1.07	---	0.0561	mg/kg dry	50	1.12	ND	95	71-130%	---	---	
Ethylbenzene	1.11	---	0.0280	mg/kg dry	50	1.12	ND	99	76-122%	---	---	
Hexachlorobutadiene	1.16	---	0.112	mg/kg dry	50	1.12	ND	103	61-135%	---	---	
2-Hexanone	2.75	---	0.561	mg/kg dry	50	2.24	ND	123	53-145%	---	---	
Isopropylbenzene	1.05	---	0.0561	mg/kg dry	50	1.12	ND	93	68-134%	---	---	
4-Isopropyltoluene	1.02	---	0.0561	mg/kg dry	50	1.12	ND	91	73-127%	---	---	
Methylene chloride	1.16	---	0.280	mg/kg dry	50	1.12	ND	104	70-128%	---	---	B
4-Methyl-2-pentanone (MiBK)	2.31	---	0.561	mg/kg dry	50	2.24	ND	103	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1.16	---	0.0561	mg/kg dry	50	1.12	ND	104	73-125%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 5035A/8260C**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011101 - EPA 5035A							Soil					
Matrix Spike (9011101-MS1)			Prepared: 01/24/19 16:50 Analyzed: 01/28/19 19:37									
QC Source Sample: HA-3(0-1) (A9A0760-53)												
Naphthalene	1.03	---	0.112	mg/kg dry	50	1.12	ND	92	62-129%	---	---	
n-Propylbenzene	1.13	---	0.0280	mg/kg dry	50	1.12	ND	101	73-125%	---	---	
Styrene	1.02	---	0.0561	mg/kg dry	50	1.12	ND	91	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1.09	---	0.0280	mg/kg dry	50	1.12	ND	97	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1.16	---	0.0561	mg/kg dry	50	1.12	ND	104	70-124%	---	---	
Tetrachloroethene (PCE)	1.12	---	0.0280	mg/kg dry	50	1.12	ND	100	73-128%	---	---	
Toluene	1.05	---	0.0561	mg/kg dry	50	1.12	ND	93	77-121%	---	---	
1,2,3-Trichlorobenzene	1.12	---	0.280	mg/kg dry	50	1.12	ND	100	66-130%	---	---	
1,2,4-Trichlorobenzene	1.12	---	0.280	mg/kg dry	50	1.12	ND	100	67-129%	---	---	
1,1,1-Trichloroethane	1.14	---	0.0280	mg/kg dry	50	1.12	ND	101	73-130%	---	---	
1,1,2-Trichloroethane	1.12	---	0.0280	mg/kg dry	50	1.12	ND	100	78-121%	---	---	
Trichloroethene (TCE)	1.07	---	0.0280	mg/kg dry	50	1.12	ND	95	77-123%	---	---	
Trichlorofluoromethane	0.675	---	0.112	mg/kg dry	50	1.12	ND	60	62-140%	---	---	Q-54b
1,2,3-Trichloropropane	1.10	---	0.0561	mg/kg dry	50	1.12	ND	98	73-125%	---	---	
1,2,4-Trimethylbenzene	1.03	---	0.0561	mg/kg dry	50	1.12	ND	92	75-123%	---	---	
1,3,5-Trimethylbenzene	1.03	---	0.0561	mg/kg dry	50	1.12	ND	92	73-124%	---	---	
Vinyl chloride	0.961	---	0.0280	mg/kg dry	50	1.12	ND	86	56-135%	---	---	Q-54c
m,p-Xylene	2.12	---	0.0561	mg/kg dry	50	2.24	ND	95	77-124%	---	---	
o-Xylene	1.08	---	0.0280	mg/kg dry	50	1.12	ND	97	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS**Polychlorinated Biphenyls by EPA 8082A**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011099 - EPA 3546						Soil						
Blank (9011099-BLK1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 18:35						C-07			
EPA 8082A												
Aroclor 1016	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.00333	mg/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 81 %		Limits: 60-125 %		Dilution: 1x						
LCS (9011099-BS1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 18:54						C-07			
EPA 8082A												
Aroclor 1016	0.167	---	0.00400	mg/kg wet	1	0.250	---	67	47-134%	---	---	
Aroclor 1260	0.190	---	0.00400	mg/kg wet	1	0.250	---	76	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (9011099-DUP1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 19:50						C-07			
QC Source Sample: Non-SDG (A9A0514-19RE2)												
Aroclor 1016	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1242	0.00755	---	0.00350	mg/kg wet	1	---	0.00736	---	---	3	30%	P-10
Aroclor 1248	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1254	0.00564	---	0.00350	mg/kg wet	1	---	0.00890	---	---	45	30%	P-10, Q-05
Aroclor 1260	ND	---	0.00350	mg/kg wet	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 64 %		Limits: 60-125 %		Dilution: 1x						
Matrix Spike (9011099-MS1)			Prepared: 01/28/19 10:14 Analyzed: 02/04/19 20:27						C-07			
QC Source Sample: Non-SDG (A9A0514-19RE2)												
EPA 8082A												
Aroclor 1016	0.125	---	0.00351	mg/kg wet	1	0.219	ND	57	47-134%	---	---	
Aroclor 1260	0.123	---	0.00351	mg/kg wet	1	0.219	ND	56	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 68 %		Limits: 60-125 %		Dilution: 1x						

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011099 - EPA 3546							Soil					

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polychlorinated Biphenyls by EPA 8082A**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011131 - EPA 3546												
Soil												
Blank (9011131-BLK1)			Prepared: 01/29/19 10:05		Analyzed: 01/31/19 17:45		C-07					
EPA 8082A												
Aroclor 1016	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.00833	mg/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x						
LCS (9011131-BS1)												
			Prepared: 01/29/19 10:05		Analyzed: 01/31/19 18:03		C-07					
EPA 8082A												
Aroclor 1016	0.189	---	0.0100	mg/kg wet	1	0.250	---	76	47-134%	---	---	
Aroclor 1260	0.206	---	0.0100	mg/kg wet	1	0.250	---	82	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 96 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (9011131-DUP1)												
			Prepared: 01/29/19 10:05		Analyzed: 01/31/19 18:59		C-07					
QC Source Sample: DP-18(2-3) (A9A0760-01)												
EPA 8082A												
Aroclor 1016	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	0.0125	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x						
Matrix Spike (9011131-MS1)												
			Prepared: 01/29/19 10:05		Analyzed: 01/31/19 21:28		C-07					
QC Source Sample: Non-SDG (A9A0772-03)												
EPA 8082A												
Aroclor 1016	0.229	---	0.0111	mg/kg dry	1	0.278	ND	82	47-134%	---	---	
Aroclor 1260	0.225	---	0.0111	mg/kg dry	1	0.278	ND	81	53-140%	---	---	

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011131 - EPA 3546							Soil					
Matrix Spike (9011131-MS1)			Prepared: 01/29/19 10:05 Analyzed: 01/31/19 21:28									C-07
<u>QC Source Sample: Non-SDG (A9A0772-03)</u>												
Surr: Decachlorobiphenyl (Surr)				Recovery: 93 %		Limits: 60-125 %		Dilution: 1x				

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011123 - EPA 3546						Soil						
Blank (9011123-BLK1)			Prepared: 01/29/19 07:20 Analyzed: 01/30/19 10:22									
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	B-02
Naphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 87 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		92 %		54-127 %		"						

LCS (9011123-BS1) Prepared: 01/29/19 07:20 Analyzed: 01/30/19 10:49

EPA 8270D (SIM)												
Acenaphthene	0.742	---	0.0100	mg/kg wet	1	0.800	---	93	40-122%	---	---	
Acenaphthylene	0.739	---	0.0100	mg/kg wet	1	0.800	---	92	32-132%	---	---	
Anthracene	0.725	---	0.0100	mg/kg wet	1	0.800	---	91	47-123%	---	---	
Benz(a)anthracene	0.763	---	0.0100	mg/kg wet	1	0.800	---	95	49-126%	---	---	
Benzo(a)pyrene	0.760	---	0.0100	mg/kg wet	1	0.800	---	95	45-129%	---	---	
Benzo(b)fluoranthene	0.737	---	0.0100	mg/kg wet	1	0.800	---	92	45-132%	---	---	
Benzo(k)fluoranthene	0.785	---	0.0100	mg/kg wet	1	0.800	---	98	47-132%	---	---	
Benzo(g,h,i)perylene	0.717	---	0.0100	mg/kg wet	1	0.800	---	90	43-134%	---	---	
Chrysene	0.769	---	0.0100	mg/kg wet	1	0.800	---	96	50-124%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 9011123 - EPA 3546						Soil							
LCS (9011123-BS1)			Prepared: 01/29/19 07:20		Analyzed: 01/30/19 10:49								
Dibenz(a,h)anthracene	0.808	---	0.0100	mg/kg wet	1	0.800	---	101	45-134%	---	---	B-02	
Dibenzofuran	0.758	---	0.0100	mg/kg wet	1	0.800	---	95	44-120%	---	---		
Fluoranthene	0.736	---	0.0100	mg/kg wet	1	0.800	---	92	50-127%	---	---		
Fluorene	0.760	---	0.0100	mg/kg wet	1	0.800	---	95	43-125%	---	---		
Indeno(1,2,3-cd)pyrene	0.936	---	0.0100	mg/kg wet	1	0.800	---	117	45-133%	---	---		
1-Methylnaphthalene	0.748	---	0.0100	mg/kg wet	1	0.800	---	94	40-120%	---	---		
2-Methylnaphthalene	0.741	---	0.0100	mg/kg wet	1	0.800	---	93	38-122%	---	---		
Naphthalene	0.728	---	0.0100	mg/kg wet	1	0.800	---	91	35-123%	---	---		
Phenanthrene	0.723	---	0.0100	mg/kg wet	1	0.800	---	90	50-121%	---	---		
Pyrene	0.735	---	0.0100	mg/kg wet	1	0.800	---	92	47-127%	---	---		
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 82 %		Limits: 44-120 %		Dilution: 1x							
p-Terphenyl-d14 (Surr)		84 %		54-127 %		"							
Duplicate (9011123-DUP1)			Prepared: 01/29/19 07:20		Analyzed: 01/30/19 11:41								
QC Source Sample: Non-SDG (A9A0753-01)													
Acenaphthene	ND	---	5.31	mg/kg dry	10	---	ND	---	---	---	30%	R-02	
Acenaphthylene	ND	---	0.947	mg/kg dry	10	---	ND	---	---	---	30%	R-02	
Anthracene	ND	---	0.227	mg/kg dry	10	---	ND	---	---	---	30%	R-02	
Benz(a)anthracene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%	R-02	
Benzo(a)pyrene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Benzo(b)fluoranthene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Benzo(k)fluoranthene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Benzo(g,h,i)perylene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Chrysene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Dibenz(a,h)anthracene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
Dibenzofuran	ND	---	2.65	mg/kg dry	10	---	ND	---	---	---	30%		
Fluoranthene	ND	---	0.126	mg/kg dry	10	---	0.117	---	---	***	30%		
Fluorene	5.32	---	0.126	mg/kg dry	10	---	5.55	---	---	4	30%	B-02, E	
Indeno(1,2,3-cd)pyrene	ND	---	0.126	mg/kg dry	10	---	ND	---	---	---	30%		
1-Methylnaphthalene	31.2	---	0.126	mg/kg dry	10	---	32.4	---	---	4	30%		
2-Methylnaphthalene	79.9	---	0.126	mg/kg dry	10	---	82.5	---	---	3	30%		
Naphthalene	14.6	---	0.126	mg/kg dry	10	---	15.4	---	---	6	30%		
Phenanthrene	7.22	---	0.126	mg/kg dry	10	---	7.52	---	---	4	30%		
Pyrene	0.161	---	0.126	mg/kg dry	10	---	0.169	---	---	5	30%		
													M-02

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011123 - EPA 3546						Soil						
Duplicate (9011123-DUP1)				Prepared: 01/29/19 07:20		Analyzed: 01/30/19 11:41						
QC Source Sample: Non-SDG (A9A0753-01)												
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 87 %		Limits: 44-120 %		Dilution: 10x						
p-Terphenyl-d14 (Surr)		97 %		54-127 %		"						
Matrix Spike (9011123-MS1)				Prepared: 01/29/19 07:20		Analyzed: 01/30/19 12:34						
QC Source Sample: DP-27(1-2) (A9A0760-41)												
EPA 8270D (SIM)												
Acenaphthene	0.735	---	0.0122	mg/kg dry	1	0.979	ND	75	40-122%	---	---	B-02
Acenaphthylene	0.738	---	0.0122	mg/kg dry	1	0.979	ND	75	32-132%	---	---	
Anthracene	0.714	---	0.0122	mg/kg dry	1	0.979	ND	73	47-123%	---	---	
Benz(a)anthracene	0.715	---	0.0122	mg/kg dry	1	0.979	ND	73	49-126%	---	---	
Benzo(a)pyrene	0.686	---	0.0122	mg/kg dry	1	0.979	ND	70	45-129%	---	---	
Benzo(b)fluoranthene	0.678	---	0.0122	mg/kg dry	1	0.979	ND	69	45-132%	---	---	
Benzo(k)fluoranthene	0.736	---	0.0122	mg/kg dry	1	0.979	ND	75	47-132%	---	---	
Benzo(g,h,i)perylene	0.654	---	0.0122	mg/kg dry	1	0.979	ND	67	43-134%	---	---	
Chrysene	0.729	---	0.0122	mg/kg dry	1	0.979	ND	74	50-124%	---	---	
Dibenz(a,h)anthracene	0.750	---	0.0122	mg/kg dry	1	0.979	ND	77	45-134%	---	---	
Dibenzofuran	0.744	---	0.0122	mg/kg dry	1	0.979	ND	76	44-120%	---	---	
Fluoranthene	0.712	---	0.0122	mg/kg dry	1	0.979	ND	73	50-127%	---	---	
Fluorene	0.737	---	0.0122	mg/kg dry	1	0.979	ND	75	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.863	---	0.0122	mg/kg dry	1	0.979	ND	88	45-133%	---	---	
1-Methylnaphthalene	0.754	---	0.0122	mg/kg dry	1	0.979	ND	77	40-120%	---	---	
2-Methylnaphthalene	0.746	---	0.0122	mg/kg dry	1	0.979	ND	76	38-122%	---	---	
Naphthalene	0.735	---	0.0122	mg/kg dry	1	0.979	ND	75	35-123%	---	---	
Phenanthrene	0.715	---	0.0122	mg/kg dry	1	0.979	ND	73	50-121%	---	---	
Pyrene	0.710	---	0.0122	mg/kg dry	1	0.979	ND	73	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 67 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		63 %		54-127 %		"						

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011159 - EPA 3546						Soil						
Blank (9011159-BLK1)			Prepared: 01/29/19 16:43 Analyzed: 01/31/19 14:14									
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00308	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 74 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		91 %		54-127 %		"						

LCS (9011159-BS1)

Prepared: 01/29/19 16:43 Analyzed: 01/31/19 14:41

EPA 8270D (SIM)

Acenaphthene	0.707	---	0.00400	mg/kg wet	1	0.800	---	88	40-122%	---	---
Acenaphthylene	0.720	---	0.00400	mg/kg wet	1	0.800	---	90	32-132%	---	---
Anthracene	0.706	---	0.00400	mg/kg wet	1	0.800	---	88	47-123%	---	---
Benz(a)anthracene	0.720	---	0.00400	mg/kg wet	1	0.800	---	90	49-126%	---	---
Benzo(a)pyrene	0.707	---	0.00400	mg/kg wet	1	0.800	---	88	45-129%	---	---
Benzo(b)fluoranthene	0.715	---	0.00400	mg/kg wet	1	0.800	---	89	45-132%	---	---
Benzo(k)fluoranthene	0.758	---	0.00400	mg/kg wet	1	0.800	---	95	47-132%	---	---
Benzo(g,h,i)perylene	0.762	---	0.00400	mg/kg wet	1	0.800	---	95	43-134%	---	---
Chrysene	0.714	---	0.00400	mg/kg wet	1	0.800	---	89	50-124%	---	---

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Philip Nerenberg, Lab Director

**Apex Laboratories, LLC**

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EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle

Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011159 - EPA 3546						Soil						
LCS (9011159-BS1)			Prepared: 01/29/19 16:43		Analyzed: 01/31/19 14:41							
Dibenz(a,h)anthracene	0.735	---	0.00400	mg/kg wet	1	0.800	---	92	45-134%	---	---	
Dibenzofuran	0.717	---	0.00400	mg/kg wet	1	0.800	---	90	44-120%	---	---	
Fluoranthene	0.700	---	0.00400	mg/kg wet	1	0.800	---	88	50-127%	---	---	
Fluorene	0.724	---	0.00400	mg/kg wet	1	0.800	---	91	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.713	---	0.00400	mg/kg wet	1	0.800	---	89	45-133%	---	---	
1-Methylnaphthalene	0.680	---	0.00400	mg/kg wet	1	0.800	---	85	40-120%	---	---	
2-Methylnaphthalene	0.685	---	0.00400	mg/kg wet	1	0.800	---	86	38-122%	---	---	
Naphthalene	0.679	---	0.00400	mg/kg wet	1	0.800	---	85	35-123%	---	---	
Phenanthrene	0.715	---	0.00400	mg/kg wet	1	0.800	---	89	50-121%	---	---	
Pyrene	0.693	---	0.00400	mg/kg wet	1	0.800	---	87	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 81 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		90 %		54-127 %		"						
Duplicate (9011159-DUP2)			Prepared: 01/29/19 16:43		Analyzed: 02/01/19 14:21							
QC Source Sample: Non-SDG (A9A0794-01RE1)												
Acenaphthene	ND	---	0.884	mg/kg dry	50	---	ND	---	---	---	30%	R-02
Acenaphthylene	ND	---	0.295	mg/kg dry	50	---	ND	---	---	---	30%	R-02
Anthracene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Chrysene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	0.937	mg/kg dry	50	---	ND	---	---	---	30%	R-02
Fluoranthene	ND	---	0.268	mg/kg dry	50	---	0.135	---	---	***	30%	Q-04
Fluorene	1.92	---	0.268	mg/kg dry	50	---	3.02	---	---	44	30%	Q-04
Indeno(1,2,3-cd)pyrene	ND	---	0.268	mg/kg dry	50	---	ND	---	---	---	30%	
1-Methylnaphthalene	13.9	---	0.268	mg/kg dry	50	---	21.8	---	---	44	30%	Q-04
2-Methylnaphthalene	9.07	---	0.268	mg/kg dry	50	---	13.8	---	---	41	30%	Q-04
Naphthalene	ND	---	0.295	mg/kg dry	50	---	ND	---	---	---	30%	R-02
Phenanthrene	3.12	---	0.268	mg/kg dry	50	---	4.94	---	---	45	30%	Q-04
Pyrene	ND	---	0.268	mg/kg dry	50	---	0.326	---	---	***	30%	Q-04

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011159 - EPA 3546							Soil					
Duplicate (9011159-DUP2)			Prepared: 01/29/19 16:43 Analyzed: 02/01/19 14:21									
QC Source Sample: Non-SDG (A9A0794-01RE1)												
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 73 %		Limits: 44-120 %		Dilution: 50x		S-05				
p-Terphenyl-d14 (Surr)		86 %		54-127 %		"		S-05				

Matrix Spike (9011159-MS1)

Prepared: 01/29/19 16:43 Analyzed: 01/31/19 21:18

QC Source Sample: Non-SDG (A9A0794-03)**EPA 8270D (SIM)**

Acenaphthene	0.819	---	0.00508	mg/kg dry	1	1.02	ND	81	40-122%	---	---	
Acenaphthylene	0.847	---	0.00508	mg/kg dry	1	1.02	ND	83	32-132%	---	---	
Anthracene	0.843	---	0.00508	mg/kg dry	1	1.02	ND	83	47-123%	---	---	
Benz(a)anthracene	0.845	---	0.00508	mg/kg dry	1	1.02	0.00412	83	49-126%	---	---	
Benzo(a)pyrene	0.869	---	0.00508	mg/kg dry	1	1.02	0.00432	85	45-129%	---	---	
Benzo(b)fluoranthene	0.848	---	0.00508	mg/kg dry	1	1.02	0.00446	83	45-132%	---	---	
Benzo(k)fluoranthene	0.874	---	0.00508	mg/kg dry	1	1.02	ND	86	47-132%	---	---	
Benzo(g,h,i)perylene	0.811	---	0.00508	mg/kg dry	1	1.02	0.00525	79	43-134%	---	---	
Chrysene	0.862	---	0.00508	mg/kg dry	1	1.02	0.00362	84	50-124%	---	---	
Dibenz(a,h)anthracene	0.847	---	0.00508	mg/kg dry	1	1.02	ND	83	45-134%	---	---	
Dibenzofuran	0.834	---	0.00508	mg/kg dry	1	1.02	ND	82	44-120%	---	---	
Fluoranthene	0.826	---	0.00508	mg/kg dry	1	1.02	0.00523	81	50-127%	---	---	
Fluorene	0.850	---	0.00508	mg/kg dry	1	1.02	ND	84	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.831	---	0.00508	mg/kg dry	1	1.02	0.00435	81	45-133%	---	---	
1-Methylnaphthalene	0.817	---	0.00508	mg/kg dry	1	1.02	ND	80	40-120%	---	---	
2-Methylnaphthalene	0.833	---	0.00508	mg/kg dry	1	1.02	0.00314	82	38-122%	---	---	
Naphthalene	0.813	---	0.00508	mg/kg dry	1	1.02	0.00392	80	35-123%	---	---	
Phenanthrene	0.851	---	0.00508	mg/kg dry	1	1.02	0.00482	83	50-121%	---	---	
Pyrene	0.825	---	0.00508	mg/kg dry	1	1.02	0.00739	81	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 72 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		79 %		54-127 %		"						

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**
Project Number: **MillCreek-15-02**
Project Manager: **Kyle Sattler**

Report ID:
A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS**Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011199 - EPA 3546						Soil						
Blank (9011199-BLK2)			Prepared: 01/30/19 16:39 Analyzed: 02/04/19 17:37									
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00909	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 81 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		81 %		54-127 %		"						

LCS (9011199-BS1) Prepared: 01/30/19 16:39 Analyzed: 02/01/19 17:53

EPA 8270D (SIM)												
Acenaphthene	0.724	---	0.0100	mg/kg wet	1	0.800	---	90	40-122%	---	---	
Acenaphthylene	0.725	---	0.0100	mg/kg wet	1	0.800	---	91	32-132%	---	---	
Anthracene	0.671	---	0.0100	mg/kg wet	1	0.800	---	84	47-123%	---	---	
Benz(a)anthracene	0.689	---	0.0100	mg/kg wet	1	0.800	---	86	49-126%	---	---	
Benzo(a)pyrene	0.616	---	0.0100	mg/kg wet	1	0.800	---	77	45-129%	---	---	
Benzo(b)fluoranthene	0.661	---	0.0100	mg/kg wet	1	0.800	---	83	45-132%	---	---	
Benzo(k)fluoranthene	0.841	---	0.0100	mg/kg wet	1	0.800	---	105	47-132%	---	---	
Benzo(g,h,i)perylene	0.721	---	0.0100	mg/kg wet	1	0.800	---	90	43-134%	---	---	
Chrysene	0.743	---	0.0100	mg/kg wet	1	0.800	---	93	50-124%	---	---	

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EPA ID: OR01039**GeoDesign, Inc.**

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011199 - EPA 3546						Soil						
LCS (9011199-BS1)			Prepared: 01/30/19 16:39		Analyzed: 02/01/19 17:53							
Dibenz(a,h)anthracene	0.757	---	0.0100	mg/kg wet	1	0.800	---	95	45-134%	---	---	
Dibenzofuran	0.759	---	0.0100	mg/kg wet	1	0.800	---	95	44-120%	---	---	
Fluoranthene	0.671	---	0.0100	mg/kg wet	1	0.800	---	84	50-127%	---	---	
Fluorene	0.755	---	0.0100	mg/kg wet	1	0.800	---	94	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.926	---	0.0100	mg/kg wet	1	0.800	---	116	45-133%	---	---	
1-Methylnaphthalene	0.616	---	0.0100	mg/kg wet	1	0.800	---	77	40-120%	---	---	
2-Methylnaphthalene	0.630	---	0.0100	mg/kg wet	1	0.800	---	79	38-122%	---	---	
Naphthalene	0.708	---	0.0100	mg/kg wet	1	0.800	---	89	35-123%	---	---	
Phenanthrene	0.702	---	0.0100	mg/kg wet	1	0.800	---	88	50-121%	---	---	
Pyrene	0.665	---	0.0100	mg/kg wet	1	0.800	---	83	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 84 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		86 %		54-127 %		"						

Duplicate (9011199-DUP2)

Prepared: 01/30/19 16:39 Analyzed: 02/04/19 18:30

QC Source Sample: DP-18(2-3) (A9A0760-01RE2)**EPA 8270D (SIM)**

Acenaphthene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Acenaphthylene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Anthracene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Benz(a)anthracene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(a)pyrene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(b)fluoranthene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(k)fluoranthene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Benzo(g,h,i)perylene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Chrysene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Dibenz(a,h)anthracene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Dibenzofuran	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Fluoranthene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Fluorene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Indeno(1,2,3-cd)pyrene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
1-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
2-Methylnaphthalene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Naphthalene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%
Phenanthrene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011199 - EPA 3546												Soil
Duplicate (9011199-DUP2)												Prepared: 01/30/19 16:39 Analyzed: 02/04/19 18:30
QC Source Sample: DP-18(2-3) (A9A0760-01RE2)												
Pyrene	ND	---	0.0132	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>												<i>Recovery: 72 % Limits: 44-120 % Dilution: 1x</i>
<i>p-Terphenyl-d14 (Surr)</i>												<i>76 % 54-127 % "</i>

Matrix Spike (9011199-MS2)

Prepared: 01/30/19 16:39 Analyzed: 02/04/19 19:23

QC Source Sample: DP-18(6.5-8) (A9A0760-03RE2)**EPA 8270D (SIM)**

Acenaphthene	0.746	---	0.0130	mg/kg dry	1	1.04	ND	72	40-122%	---	---	
Acenaphthylene	0.757	---	0.0130	mg/kg dry	1	1.04	ND	73	32-132%	---	---	
Anthracene	0.785	---	0.0130	mg/kg dry	1	1.04	ND	76	47-123%	---	---	
Benzo(a)anthracene	0.798	---	0.0130	mg/kg dry	1	1.04	0.00809	76	49-126%	---	---	
Benzo(a)pyrene	0.774	---	0.0130	mg/kg dry	1	1.04	ND	75	45-129%	---	---	
Benzo(b)fluoranthene	0.776	---	0.0130	mg/kg dry	1	1.04	ND	75	45-132%	---	---	
Benzo(k)fluoranthene	0.767	---	0.0130	mg/kg dry	1	1.04	ND	74	47-132%	---	---	
Benzo(g,h,i)perylene	0.738	---	0.0130	mg/kg dry	1	1.04	ND	71	43-134%	---	---	
Chrysene	0.806	---	0.0130	mg/kg dry	1	1.04	ND	78	50-124%	---	---	
Dibenz(a,h)anthracene	0.785	---	0.0130	mg/kg dry	1	1.04	ND	76	45-134%	---	---	
Dibenzofuran	0.766	---	0.0130	mg/kg dry	1	1.04	ND	74	44-120%	---	---	
Fluoranthene	0.775	---	0.0130	mg/kg dry	1	1.04	ND	75	50-127%	---	---	
Fluorene	0.770	---	0.0130	mg/kg dry	1	1.04	ND	74	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.748	---	0.0130	mg/kg dry	1	1.04	ND	72	45-133%	---	---	
1-Methylnaphthalene	0.740	---	0.0130	mg/kg dry	1	1.04	ND	71	40-120%	---	---	
2-Methylnaphthalene	0.734	---	0.0130	mg/kg dry	1	1.04	ND	71	38-122%	---	---	
Naphthalene	0.718	---	0.0130	mg/kg dry	1	1.04	ND	69	35-123%	---	---	
Phenanthrene	0.785	---	0.0130	mg/kg dry	1	1.04	ND	76	50-121%	---	---	
Pyrene	0.769	---	0.0130	mg/kg dry	1	1.04	ND	74	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>												<i>Recovery: 62 % Limits: 44-120 % Dilution: 1x</i>
<i>p-Terphenyl-d14 (Surr)</i>												<i>65 % 54-127 % "</i>

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011206 - EPA 3051A												
Soil												
Blank (9011206-BLK1)												
Prepared: 01/31/19 08:48 Analyzed: 02/01/19 14:00												
EPA 6020A												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
LCS (9011206-BS1)												
Prepared: 01/31/19 08:48 Analyzed: 02/01/19 14:04												
EPA 6020A												
Arsenic	49.3	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Barium	51.7	---	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Cadmium	50.1	---	0.200	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Chromium	51.1	---	1.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Lead	56.7	---	0.200	mg/kg wet	10	50.0	---	113	80-120%	---	---	
Mercury	1.00	---	0.0800	mg/kg wet	10	1.00	---	100	80-120%	---	---	
Selenium	24.6	---	1.00	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Silver	24.6	---	0.200	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Duplicate (9011206-DUP1)												
Prepared: 01/31/19 08:48 Analyzed: 02/01/19 14:28												
QC Source Sample: Non-SDG (A9A0758-77)												
Arsenic	2.92	---	1.24	mg/kg dry	10	---	2.85	---	---	2	40%	
Barium	276	---	1.24	mg/kg dry	10	---	318	---	---	14	40%	
Cadmium	0.284	---	0.249	mg/kg dry	10	---	0.316	---	---	10	40%	
Chromium	18.3	---	1.24	mg/kg dry	10	---	18.0	---	---	2	40%	
Lead	9.92	---	0.249	mg/kg dry	10	---	10.4	---	---	5	40%	
Mercury	ND	---	0.0996	mg/kg dry	10	---	ND	---	---	---	40%	
Selenium	ND	---	1.24	mg/kg dry	10	---	ND	---	---	---	40%	
Silver	ND	---	0.249	mg/kg dry	10	---	ND	---	---	---	40%	

Matrix Spike (9011206-MS1)

Prepared: 01/31/19 08:48 Analyzed: 02/01/19 14:32

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9450 SW Commerce Circle
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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011206 - EPA 3051A						Soil						
Matrix Spike (9011206-MS1)				Prepared: 01/31/19 08:48 Analyzed: 02/01/19 14:32								
QC Source Sample: Non-SDG (A9A0758-77)												
EPA 6020A												
Arsenic	73.5	---	1.31	mg/kg dry	10	65.3	2.85	108	75-125%	---	---	
Barium	386	---	1.31	mg/kg dry	10	65.3	318	105	75-125%	---	---	
Cadmium	68.1	---	0.261	mg/kg dry	10	65.3	0.316	104	75-125%	---	---	
Chromium	93.5	---	1.31	mg/kg dry	10	65.3	18.0	116	75-125%	---	---	
Lead	79.2	---	0.261	mg/kg dry	10	65.3	10.4	105	75-125%	---	---	
Mercury	1.37	---	0.104	mg/kg dry	10	1.31	ND	105	75-125%	---	---	
Selenium	31.6	---	1.31	mg/kg dry	10	32.6	ND	97	75-125%	---	---	
Silver	33.4	---	0.261	mg/kg dry	10	32.6	ND	102	75-125%	---	---	
Matrix Spike (9011206-MS2)				Prepared: 01/31/19 08:48 Analyzed: 02/01/19 16:05								
QC Source Sample: DP-19(8-9) (A9A0760-07)												
EPA 6020A												
Arsenic	81.6	---	1.39	mg/kg dry	10	69.7	6.29	108	75-125%	---	---	
Barium	226	---	1.39	mg/kg dry	10	69.7	170	80	75-125%	---	---	
Cadmium	74.1	---	0.279	mg/kg dry	10	69.7	0.908	105	75-125%	---	---	
Chromium	105	---	1.39	mg/kg dry	10	69.7	23.3	117	75-125%	---	---	
Lead	78.3	---	0.279	mg/kg dry	10	69.7	8.31	100	75-125%	---	---	
Mercury	1.42	---	0.111	mg/kg dry	10	1.39	ND	102	75-125%	---	---	
Selenium	34.1	---	1.39	mg/kg dry	10	34.8	ND	98	75-125%	---	---	
Silver	35.7	---	0.279	mg/kg dry	10	34.8	ND	103	75-125%	---	---	

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011218 - EPA 3051A						Soil						
Blank (9011218-BLK1)			Prepared: 01/31/19 11:09		Analyzed: 02/01/19 17:09							
EPA 6020A												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
LCS (9011218-BS1)			Prepared: 01/31/19 11:09		Analyzed: 02/01/19 17:14							
EPA 6020A												
Arsenic	49.8	---	1.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Barium	53.6	---	1.00	mg/kg wet	10	50.0	---	107	80-120%	---	---	
Cadmium	50.3	---	0.200	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Chromium	51.4	---	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Lead	51.5	---	0.200	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Mercury	0.988	---	0.0800	mg/kg wet	10	1.00	---	99	80-120%	---	---	
Selenium	24.5	---	1.00	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Silver	24.9	---	0.200	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Duplicate (9011218-DUP1)			Prepared: 01/31/19 11:09		Analyzed: 02/01/19 17:37							
QC Source Sample: DP-21(7-8) (A9A0760-15)												
EPA 6020A												
Arsenic	4.34	---	1.22	mg/kg dry	10	---	4.17	---	---	4	40%	
Barium	149	---	1.22	mg/kg dry	10	---	153	---	---	2	40%	
Cadmium	0.833	---	0.244	mg/kg dry	10	---	0.884	---	---	6	40%	
Chromium	15.0	---	1.22	mg/kg dry	10	---	12.7	---	---	16	40%	
Lead	6.60	---	0.244	mg/kg dry	10	---	6.97	---	---	6	40%	
Mercury	ND	---	0.0976	mg/kg dry	10	---	ND	---	---	---	40%	
Selenium	ND	---	1.22	mg/kg dry	10	---	ND	---	---	---	40%	
Silver	ND	---	0.244	mg/kg dry	10	---	ND	---	---	---	40%	
Matrix Spike (9011218-MS1)			Prepared: 01/31/19 11:09		Analyzed: 02/01/19 17:42							

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011218 - EPA 3051A						Soil						
Matrix Spike (9011218-MS1)			Prepared: 01/31/19 11:09 Analyzed: 02/01/19 17:42									
QC Source Sample: DP-21(7-8) (A9A0760-15)												
EPA 6020A												
Arsenic	66.4	---	1.27	mg/kg dry	10	63.6	4.17	98	75-125%	---	---	
Barium	205	---	1.27	mg/kg dry	10	63.6	153	83	75-125%	---	---	
Cadmium	64.2	---	0.255	mg/kg dry	10	63.6	0.884	99	75-125%	---	---	
Chromium	79.7	---	1.27	mg/kg dry	10	63.6	12.7	105	75-125%	---	---	
Lead	68.7	---	0.255	mg/kg dry	10	63.6	6.97	97	75-125%	---	---	
Mercury	1.23	---	0.102	mg/kg dry	10	1.27	ND	97	75-125%	---	---	
Selenium	29.7	---	1.27	mg/kg dry	10	31.8	ND	93	75-125%	---	---	
Silver	31.1	---	0.255	mg/kg dry	10	31.8	ND	98	75-125%	---	---	
Matrix Spike (9011218-MS2)			Prepared: 01/31/19 11:09 Analyzed: 02/01/19 19:15									
QC Source Sample: Non-SDG (A9A0856-19)												
EPA 6020A												
Arsenic	59.2	---	1.15	mg/kg dry	10	57.4	2.06	100	75-125%	---	---	
Barium	117	---	1.15	mg/kg dry	10	57.4	60.0	98	75-125%	---	---	
Cadmium	56.6	---	0.229	mg/kg dry	10	57.4	0.149	98	75-125%	---	---	
Chromium	85.8	---	1.15	mg/kg dry	10	57.4	26.2	104	75-125%	---	---	
Lead	68.4	---	0.229	mg/kg dry	10	57.4	8.56	104	75-125%	---	---	
Mercury	1.13	---	0.0918	mg/kg dry	10	1.15	ND	98	75-125%	---	---	
Selenium	27.4	---	1.15	mg/kg dry	10	28.7	ND	96	75-125%	---	---	
Silver	27.9	---	0.229	mg/kg dry	10	28.7	ND	97	75-125%	---	---	

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Philip Nerenberg, Lab Director

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9020280 - EPA 3051A						Soil						
Blank (9020280-BLK1)			Prepared: 02/01/19 09:49		Analyzed: 02/04/19 13:48							
EPA 6020A												
Arsenic	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0769	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	
LCS (9020280-BS1)			Prepared: 02/01/19 09:49		Analyzed: 02/04/19 13:52							
EPA 6020A												
Arsenic	50.0	---	1.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Barium	53.2	---	1.00	mg/kg wet	10	50.0	---	106	80-120%	---	---	
Cadmium	49.6	---	0.200	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Chromium	50.7	---	1.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Lead	53.6	---	0.200	mg/kg wet	10	50.0	---	107	80-120%	---	---	
Mercury	1.04	---	0.0800	mg/kg wet	10	1.00	---	104	80-120%	---	---	
Selenium	24.4	---	1.00	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Silver	25.0	---	0.200	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Duplicate (9020280-DUP1)			Prepared: 02/01/19 09:49		Analyzed: 02/04/19 14:16							
QC Source Sample: Non-SDG (A9A0295-01)												
Arsenic	4.92	---	1.23	mg/kg dry	10	---	4.80	---	---	2	40%	
Barium	186	---	1.23	mg/kg dry	10	---	182	---	---	2	40%	
Cadmium	0.304	---	0.247	mg/kg dry	10	---	0.278	---	---	9	40%	
Chromium	24.3	---	1.23	mg/kg dry	10	---	24.4	---	---	0.2	40%	
Lead	24.3	---	0.247	mg/kg dry	10	---	25.9	---	---	7	40%	
Mercury	ND	---	0.0988	mg/kg dry	10	---	ND	---	---	---	40%	
Selenium	ND	---	1.23	mg/kg dry	10	---	ND	---	---	---	40%	
Silver	ND	---	0.247	mg/kg dry	10	---	ND	---	---	---	40%	
Matrix Spike (9020280-MS1)			Prepared: 02/01/19 09:49		Analyzed: 02/04/19 14:20							

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Total Metals by EPA 6020A (ICPMS)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9020280 - EPA 3051A						Soil						
Matrix Spike (9020280-MS1)				Prepared: 02/01/19 09:49 Analyzed: 02/04/19 14:20								
QC Source Sample: Non-SDG (A9A0295-01)												
EPA 6020A												
Arsenic	70.5	---	1.29	mg/kg dry	10	64.5	4.80	102	75-125%	---	---	
Barium	255	---	1.29	mg/kg dry	10	64.5	182	112	75-125%	---	---	
Cadmium	63.1	---	0.258	mg/kg dry	10	64.5	0.278	97	75-125%	---	---	
Chromium	90.6	---	1.29	mg/kg dry	10	64.5	24.4	103	75-125%	---	---	
Lead	87.5	---	0.258	mg/kg dry	10	64.5	25.9	95	75-125%	---	---	
Mercury	1.30	---	0.103	mg/kg dry	10	1.29	ND	101	75-125%	---	---	
Selenium	30.1	---	1.29	mg/kg dry	10	32.3	ND	93	75-125%	---	---	
Silver	31.4	---	0.258	mg/kg dry	10	32.3	ND	97	75-125%	---	---	
Matrix Spike (9020280-MS2)				Prepared: 02/01/19 09:49 Analyzed: 02/04/19 15:21								
QC Source Sample: Non-SDG (A9A0788-01)												
EPA 6020A												
Arsenic	129	---	2.42	mg/kg dry	10	121	4.82	103	75-125%	---	---	
Barium	1680	---	2.42	mg/kg dry	10	121	1080	488	75-125%	---	---	Q-03
Cadmium	126	---	0.485	mg/kg dry	10	121	0.629	103	75-125%	---	---	
Chromium	157	---	2.42	mg/kg dry	10	121	30.5	105	75-125%	---	---	
Lead	153	---	0.485	mg/kg dry	10	121	20.9	109	75-125%	---	---	
Mercury	2.62	---	0.194	mg/kg dry	10	2.42	ND	108	75-125%	---	---	
Selenium	60.3	---	2.42	mg/kg dry	10	60.6	ND	100	75-125%	---	---	
Silver	62.0	---	0.485	mg/kg dry	10	60.6	ND	102	75-125%	---	---	

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9011095 - Total Solids (Dry Weight)							Soil					
Duplicate (9011095-DUP1)			Prepared: 01/28/19 10:11 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: Non-SDG (A9A0695-01)</u>												
% Solids	68.2	---	1.00	% by Weight	1	---	68.4	---	---	0.4	10%	
Duplicate (9011095-DUP2)			Prepared: 01/28/19 10:11 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: Non-SDG (A9A0704-01)</u>												
% Solids	96.1	---	1.00	% by Weight	1	---	96.6	---	---	0.5	10%	
Duplicate (9011095-DUP3)			Prepared: 01/28/19 10:11 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: DP-19(1-2) (A9A0760-05)</u>												
<u>EPA 8000C</u>												
% Solids	75.7	---	1.00	% by Weight	1	---	76.1	---	---	0.4	10%	
Duplicate (9011095-DUP4)			Prepared: 01/28/19 10:11 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: DP-25(12-13) (A9A0760-33)</u>												
<u>EPA 8000C</u>												
% Solids	75.3	---	1.00	% by Weight	1	---	76.6	---	---	2	10%	
Duplicate (9011095-DUP5)			Prepared: 01/28/19 10:11 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: HA-3(0-1) (A9A0760-53)</u>												
<u>EPA 8000C</u>												
% Solids	87.3	---	1.00	% by Weight	1	---	89.2	---	---	2	10%	
Duplicate (9011095-DUP6)			Prepared: 01/28/19 18:27 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: Non-SDG (A9A0702-11)</u>												
% Solids	74.3	---	1.00	% by Weight	1	---	75.3	---	---	1	10%	
Duplicate (9011095-DUP7)			Prepared: 01/28/19 18:27 Analyzed: 01/29/19 09:07									
<u>QC Source Sample: Non-SDG (A9A0786-02)</u>												
% Solids	75.3	---	1.00	% by Weight	1	---	74.6	---	---	0.9	10%	

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 5035A/8260C****Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011097							
A9A0760-01	Soil	5035A/8260C	01/24/19 09:45	01/24/19 09:45	5.93g/5mL	5g/5mL	0.84
A9A0760-03	Soil	5035A/8260C	01/24/19 09:45	01/24/19 09:45	6.1g/5mL	5g/5mL	0.82
A9A0760-05	Soil	5035A/8260C	01/24/19 10:10	01/24/19 10:10	6.29g/5mL	5g/5mL	0.80
A9A0760-07	Soil	5035A/8260C	01/24/19 10:15	01/24/19 10:15	5.41g/5mL	5g/5mL	0.92
A9A0760-09	Soil	5035A/8260C	01/24/19 10:30	01/24/19 10:30	6.18g/5mL	5g/5mL	0.81
A9A0760-11	Soil	5035A/8260C	01/24/19 10:30	01/24/19 10:30	5.69g/5mL	5g/5mL	0.88
A9A0760-13	Soil	5035A/8260C	01/24/19 10:45	01/24/19 10:45	5.72g/5mL	5g/5mL	0.87
A9A0760-15	Soil	5035A/8260C	01/24/19 10:50	01/24/19 10:50	5.81g/5mL	5g/5mL	0.86
A9A0760-17	Soil	5035A/8260C	01/24/19 11:45	01/24/19 11:45	5.95g/5mL	5g/5mL	0.84
A9A0760-19	Soil	5035A/8260C	01/24/19 11:50	01/24/19 11:50	5.88g/5mL	5g/5mL	0.85
A9A0760-21	Soil	5035A/8260C	01/24/19 11:15	01/24/19 11:15	5.19g/5mL	5g/5mL	0.96
A9A0760-23	Soil	5035A/8260C	01/24/19 11:15	01/24/19 11:15	5.73g/5mL	5g/5mL	0.87
A9A0760-25	Soil	5035A/8260C	01/24/19 12:20	01/24/19 12:20	6.42g/5mL	5g/5mL	0.78
A9A0760-27	Soil	5035A/8260C	01/24/19 12:25	01/24/19 12:25	6.23g/5mL	5g/5mL	0.80
A9A0760-29	Soil	5035A/8260C	01/24/19 13:15	01/24/19 13:15	5.54g/5mL	5g/5mL	0.90
A9A0760-33	Soil	5035A/8260C	01/24/19 13:15	01/24/19 13:15	6.26g/5mL	5g/5mL	0.80
A9A0760-37	Soil	5035A/8260C	01/24/19 13:30	01/24/19 13:30	6.13g/5mL	5g/5mL	0.82
A9A0760-39	Soil	5035A/8260C	01/24/19 13:35	01/24/19 13:35	6.24g/5mL	5g/5mL	0.80
Batch: 9011101							
A9A0760-41	Soil	5035A/8260C	01/24/19 14:10	01/24/19 14:10	6.21g/5mL	5g/5mL	0.81
A9A0760-44	Soil	5035A/8260C	01/24/19 14:15	01/24/19 14:15	6.61g/5mL	5g/5mL	0.76
A9A0760-47	Soil	5035A/8260C	01/24/19 15:00	01/24/19 15:00	4.09g/5mL	5g/5mL	1.22
A9A0760-49	Soil	5035A/8260C	01/24/19 15:00	01/24/19 15:00	4.5g/5mL	5g/5mL	1.11
A9A0760-51	Soil	5035A/8260C	01/24/19 16:50	01/24/19 16:50	5.34g/5mL	5g/5mL	0.94
A9A0760-52	Soil	5035A/8260C	01/24/19 16:50	01/24/19 16:50	5.32g/5mL	5g/5mL	0.94
A9A0760-53	Soil	5035A/8260C	01/24/19 16:50	01/24/19 16:50	5.6g/5mL	5g/5mL	0.89

Polychlorinated Biphenyls by EPA 8082A**Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011099							
A9A0760-37	Soil	EPA 8082A	01/24/19 13:30	01/28/19 10:14	11.79g/5mL	10g/5mL	0.85
A9A0760-39	Soil	EPA 8082A	01/24/19 13:35	01/28/19 10:14	11.61g/5mL	10g/5mL	0.86
A9A0760-41	Soil	EPA 8082A	01/24/19 14:10	01/28/19 10:14	11.82g/5mL	10g/5mL	0.85
A9A0760-44	Soil	EPA 8082A	01/24/19 14:15	01/28/19 10:14	11.68g/5mL	10g/5mL	0.86

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****SAMPLE PREPARATION INFORMATION****Polychlorinated Biphenyls by EPA 8082A****Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0760-47	Soil	EPA 8082A	01/24/19 15:00	01/28/19 10:14	11.03g/5mL	10g/5mL	0.91
A9A0760-49	Soil	EPA 8082A	01/24/19 15:00	01/28/19 10:14	11.13g/5mL	10g/5mL	0.90
A9A0760-51	Soil	EPA 8082A	01/24/19 16:50	01/28/19 10:14	10.52g/5mL	10g/5mL	0.95
A9A0760-52	Soil	EPA 8082A	01/24/19 16:50	01/28/19 10:14	10.85g/5mL	10g/5mL	0.92
A9A0760-53	Soil	EPA 8082A	01/24/19 16:50	01/28/19 10:14	11.87g/5mL	10g/5mL	0.84

Batch: 9011131

A9A0760-01	Soil	EPA 8082A	01/24/19 09:45	01/29/19 10:05	10.79g/5mL	10g/5mL	0.93
A9A0760-03	Soil	EPA 8082A	01/24/19 09:45	01/29/19 10:05	10.33g/5mL	10g/5mL	0.97
A9A0760-05	Soil	EPA 8082A	01/24/19 10:10	01/29/19 10:05	10.44g/5mL	10g/5mL	0.96
A9A0760-07	Soil	EPA 8082A	01/24/19 10:15	01/29/19 10:05	10.5g/5mL	10g/5mL	0.95
A9A0760-09	Soil	EPA 8082A	01/24/19 10:30	01/29/19 10:05	10.32g/5mL	10g/5mL	0.97
A9A0760-11	Soil	EPA 8082A	01/24/19 10:30	01/29/19 10:05	11.18g/5mL	10g/5mL	0.89
A9A0760-13	Soil	EPA 8082A	01/24/19 10:45	01/29/19 10:05	11g/5mL	10g/5mL	0.91
A9A0760-15	Soil	EPA 8082A	01/24/19 10:50	01/29/19 10:05	10.7g/5mL	10g/5mL	0.94
A9A0760-17	Soil	EPA 8082A	01/24/19 11:45	01/29/19 10:05	10.56g/5mL	10g/5mL	0.95
A9A0760-19	Soil	EPA 8082A	01/24/19 11:50	01/29/19 10:05	10.38g/5mL	10g/5mL	0.96
A9A0760-21	Soil	EPA 8082A	01/24/19 11:15	01/29/19 10:05	10.38g/5mL	10g/5mL	0.96
A9A0760-23	Soil	EPA 8082A	01/24/19 11:15	01/29/19 10:05	11.71g/5mL	10g/5mL	0.85
A9A0760-25	Soil	EPA 8082A	01/24/19 12:20	01/29/19 10:05	10.42g/5mL	10g/5mL	0.96
A9A0760-27	Soil	EPA 8082A	01/24/19 12:25	01/29/19 10:05	11.48g/5mL	10g/5mL	0.87
A9A0760-29	Soil	EPA 8082A	01/24/19 13:15	01/29/19 10:05	11.61g/5mL	10g/5mL	0.86
A9A0760-33	Soil	EPA 8082A	01/24/19 13:15	01/29/19 10:05	11.16g/5mL	10g/5mL	0.90

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM**Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0760-03	Soil	EPA 8270D (SIM)	01/24/19 09:45	01/29/19 07:20	10.33g/5mL	10g/5mL	0.97
A9A0760-05	Soil	EPA 8270D (SIM)	01/24/19 10:10	01/29/19 07:20	10.31g/5mL	10g/5mL	0.97
A9A0760-07	Soil	EPA 8270D (SIM)	01/24/19 10:15	01/29/19 07:20	10.72g/5mL	10g/5mL	0.93
A9A0760-09	Soil	EPA 8270D (SIM)	01/24/19 10:30	01/29/19 07:20	10.3g/5mL	10g/5mL	0.97
A9A0760-11	Soil	EPA 8270D (SIM)	01/24/19 10:30	01/29/19 07:20	10.31g/5mL	10g/5mL	0.97
A9A0760-13	Soil	EPA 8270D (SIM)	01/24/19 10:45	01/29/19 07:20	10.32g/5mL	10g/5mL	0.97
A9A0760-15	Soil	EPA 8270D (SIM)	01/24/19 10:50	01/29/19 07:20	10.1g/5mL	10g/5mL	0.99
A9A0760-17	Soil	EPA 8270D (SIM)	01/24/19 11:45	01/29/19 07:20	10.39g/5mL	10g/5mL	0.96
A9A0760-19	Soil	EPA 8270D (SIM)	01/24/19 11:50	01/29/19 07:20	10.23g/5mL	10g/5mL	0.98

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Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****SAMPLE PREPARATION INFORMATION****Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM****Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0760-21	Soil	EPA 8270D (SIM)	01/24/19 11:15	01/29/19 07:20	10.88g/5mL	10g/5mL	0.92
A9A0760-21RE2	Soil	EPA 8270D (SIM)	01/24/19 11:15	01/29/19 07:20	10.88g/5mL	10g/5mL	0.92
A9A0760-23	Soil	EPA 8270D (SIM)	01/24/19 11:15	01/29/19 07:20	10.21g/5mL	10g/5mL	0.98
A9A0760-23RE1	Soil	EPA 8270D (SIM)	01/24/19 11:15	01/29/19 07:20	10.21g/5mL	10g/5mL	0.98
A9A0760-25	Soil	EPA 8270D (SIM)	01/24/19 12:20	01/29/19 07:20	10.86g/5mL	10g/5mL	0.92
A9A0760-25RE1	Soil	EPA 8270D (SIM)	01/24/19 12:20	01/29/19 07:20	10.86g/5mL	10g/5mL	0.92
A9A0760-27	Soil	EPA 8270D (SIM)	01/24/19 12:25	01/29/19 07:20	10.17g/5mL	10g/5mL	0.98
A9A0760-29	Soil	EPA 8270D (SIM)	01/24/19 13:15	01/29/19 07:20	10.2g/5mL	10g/5mL	0.98
A9A0760-33	Soil	EPA 8270D (SIM)	01/24/19 13:15	01/29/19 07:20	10.85g/5mL	10g/5mL	0.92
A9A0760-37	Soil	EPA 8270D (SIM)	01/24/19 13:30	01/29/19 07:20	10.4g/5mL	10g/5mL	0.96
A9A0760-39	Soil	EPA 8270D (SIM)	01/24/19 13:35	01/29/19 07:20	10.73g/5mL	10g/5mL	0.93
A9A0760-41	Soil	EPA 8270D (SIM)	01/24/19 14:10	01/29/19 07:20	10.79g/5mL	10g/5mL	0.93

Batch: 9011159

A9A0760-44	Soil	EPA 8270D (SIM)	01/24/19 14:15	01/29/19 16:43	12.18g/5mL	10g/5mL	0.82
A9A0760-47	Soil	EPA 8270D (SIM)	01/24/19 15:00	01/29/19 16:43	10.41g/5mL	10g/5mL	0.96
A9A0760-49	Soil	EPA 8270D (SIM)	01/24/19 15:00	01/29/19 16:43	11.33g/5mL	10g/5mL	0.88
A9A0760-51	Soil	EPA 8270D (SIM)	01/24/19 16:50	01/29/19 16:43	11g/5mL	10g/5mL	0.91
A9A0760-52	Soil	EPA 8270D (SIM)	01/24/19 16:50	01/29/19 16:43	10.16g/5mL	10g/5mL	0.98
A9A0760-53	Soil	EPA 8270D (SIM)	01/24/19 16:50	01/29/19 16:43	10.93g/5mL	10g/5mL	0.92

Batch: 9011199

A9A0760-01RE2	Soil	EPA 8270D (SIM)	01/24/19 09:45	01/30/19 16:39	10.12g/5mL	10g/5mL	0.99

Total Metals by EPA 6020A (ICPMS)**Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011206							
A9A0760-01	Soil	EPA 6020A	01/24/19 09:45	01/31/19 08:48	0.512g/50mL	0.5g/50mL	0.98
A9A0760-03	Soil	EPA 6020A	01/24/19 09:45	01/31/19 08:48	0.484g/50mL	0.5g/50mL	1.03
A9A0760-05	Soil	EPA 6020A	01/24/19 10:10	01/31/19 08:48	0.519g/50mL	0.5g/50mL	0.96
A9A0760-07	Soil	EPA 6020A	01/24/19 10:15	01/31/19 08:48	0.491g/50mL	0.5g/50mL	1.02
Batch: 9011218							
A9A0760-09	Soil	EPA 6020A	01/24/19 10:30	01/31/19 11:09	0.466g/50mL	0.5g/50mL	1.07
A9A0760-11	Soil	EPA 6020A	01/24/19 10:30	01/31/19 11:09	0.478g/50mL	0.5g/50mL	1.05
A9A0760-13	Soil	EPA 6020A	01/24/19 10:45	01/31/19 11:09	0.48g/50mL	0.5g/50mL	1.04
A9A0760-15	Soil	EPA 6020A	01/24/19 10:50	01/31/19 11:09	0.466g/50mL	0.5g/50mL	1.07

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9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****SAMPLE PREPARATION INFORMATION****Total Metals by EPA 6020A (ICPMS)****Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0760-17	Soil	EPA 6020A	01/24/19 11:45	01/31/19 11:09	0.46g/50mL	0.5g/50mL	1.09
A9A0760-19	Soil	EPA 6020A	01/24/19 11:50	01/31/19 11:09	0.497g/50mL	0.5g/50mL	1.01
A9A0760-21	Soil	EPA 6020A	01/24/19 11:15	01/31/19 11:09	0.459g/50mL	0.5g/50mL	1.09
A9A0760-23	Soil	EPA 6020A	01/24/19 11:15	01/31/19 11:09	0.465g/50mL	0.5g/50mL	1.08
A9A0760-25	Soil	EPA 6020A	01/24/19 12:20	01/31/19 11:09	0.481g/50mL	0.5g/50mL	1.04
A9A0760-27	Soil	EPA 6020A	01/24/19 12:25	01/31/19 11:09	0.489g/50mL	0.5g/50mL	1.02
A9A0760-29	Soil	EPA 6020A	01/24/19 13:15	01/31/19 11:09	0.467g/50mL	0.5g/50mL	1.07
A9A0760-33	Soil	EPA 6020A	01/24/19 13:15	01/31/19 11:09	0.5g/50mL	0.5g/50mL	1.00
A9A0760-37	Soil	EPA 6020A	01/24/19 13:30	01/31/19 11:09	0.481g/50mL	0.5g/50mL	1.04
A9A0760-39	Soil	EPA 6020A	01/24/19 13:35	01/31/19 11:09	0.489g/50mL	0.5g/50mL	1.02
A9A0760-41	Soil	EPA 6020A	01/24/19 14:10	01/31/19 11:09	0.461g/50mL	0.5g/50mL	1.08
A9A0760-44	Soil	EPA 6020A	01/24/19 14:15	01/31/19 11:09	0.482g/50mL	0.5g/50mL	1.04

Batch: 9020280

A9A0760-47	Soil	EPA 6020A	01/24/19 15:00	02/01/19 09:49	0.492g/50mL	0.5g/50mL	1.02
A9A0760-49	Soil	EPA 6020A	01/24/19 15:00	02/01/19 09:49	0.502g/50mL	0.5g/50mL	1.00
A9A0760-51	Soil	EPA 6020A	01/24/19 16:50	02/01/19 09:49	0.511g/50mL	0.5g/50mL	0.98
A9A0760-52	Soil	EPA 6020A	01/24/19 16:50	02/01/19 09:49	0.497g/50mL	0.5g/50mL	1.01
A9A0760-53	Soil	EPA 6020A	01/24/19 16:50	02/01/19 09:49	0.502g/50mL	0.5g/50mL	1.00

Percent Dry Weight**Prep: Total Solids (Dry Weight)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9011095							
A9A0760-01	Soil	EPA 8000C	01/24/19 09:45	01/28/19 10:11			NA
A9A0760-03	Soil	EPA 8000C	01/24/19 09:45	01/28/19 10:11			NA
A9A0760-05	Soil	EPA 8000C	01/24/19 10:10	01/28/19 10:11			NA
A9A0760-07	Soil	EPA 8000C	01/24/19 10:15	01/28/19 10:11			NA
A9A0760-09	Soil	EPA 8000C	01/24/19 10:30	01/28/19 10:11			NA
A9A0760-11	Soil	EPA 8000C	01/24/19 10:30	01/28/19 10:11			NA
A9A0760-13	Soil	EPA 8000C	01/24/19 10:45	01/28/19 10:11			NA
A9A0760-15	Soil	EPA 8000C	01/24/19 10:50	01/28/19 10:11			NA
A9A0760-17	Soil	EPA 8000C	01/24/19 11:45	01/28/19 10:11			NA
A9A0760-19	Soil	EPA 8000C	01/24/19 11:50	01/28/19 10:11			NA
A9A0760-21	Soil	EPA 8000C	01/24/19 11:15	01/28/19 10:11			NA
A9A0760-23	Soil	EPA 8000C	01/24/19 11:15	01/28/19 10:11			NA
A9A0760-25	Soil	EPA 8000C	01/24/19 12:20	01/28/19 10:11			NA

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Project: **Modera Slabtown**Project Number: **MillCreek-15-02**Project Manager: **Kyle Sattler****Report ID:****A9A0760 - 02 14 19 1228****SAMPLE PREPARATION INFORMATION****Percent Dry Weight****Prep: Total Solids (Dry Weight)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9A0760-27	Soil	EPA 8000C	01/24/19 12:25	01/28/19 10:11			NA
A9A0760-29	Soil	EPA 8000C	01/24/19 13:15	01/28/19 10:11			NA
A9A0760-33	Soil	EPA 8000C	01/24/19 13:15	01/28/19 10:11			NA
A9A0760-37	Soil	EPA 8000C	01/24/19 13:30	01/28/19 10:11			NA
A9A0760-39	Soil	EPA 8000C	01/24/19 13:35	01/28/19 10:11			NA
A9A0760-41	Soil	EPA 8000C	01/24/19 14:10	01/28/19 10:11			NA
A9A0760-44	Soil	EPA 8000C	01/24/19 14:15	01/28/19 10:11			NA
A9A0760-47	Soil	EPA 8000C	01/24/19 15:00	01/28/19 10:11			NA
A9A0760-49	Soil	EPA 8000C	01/24/19 15:00	01/28/19 10:11			NA
A9A0760-51	Soil	EPA 8000C	01/24/19 16:50	01/28/19 10:11			NA
A9A0760-52	Soil	EPA 8000C	01/24/19 16:50	01/28/19 10:11			NA
A9A0760-53	Soil	EPA 8000C	01/24/19 16:50	01/28/19 10:11			NA

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- E** Estimated Value. The result is above the calibration range of the instrument.
- M-02** Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- P-10** Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by +1.3%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by +1.4%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -17.5%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -2.7%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260C, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260C
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.

Apex Laboratories

Philip Nerenberg, Lab Director

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**Apex Laboratories, LLC**

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

GeoDesign, Inc.

9450 SW Commerce Circle
Wilsonville, OR 97070

Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

REPORTING NOTES AND CONVENTIONS:**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

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Project Number: **MillCreek-15-02**

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Project: **Modera Slabtown**

Project Number: **MillCreek-15-02**

Project Manager: **Kyle Sattler**

Report ID:

A9A0760 - 02 14 19 1228

LABORATORY ACCREDITATION INFORMATION**TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project Manager: Kyle Sattler

Report ID:

A9A0760 - 02 14 19 1228

APEX LABS **CHAIN OF CUSTODY** **Lab # A9A0760** **PO#** **COC 1 of 6**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company:	Project Mgr:	Project Name:	Project #	Email:
GeoDesign, Inc.	Kyle R. Sattler	Modera Slabtown	MillCreek-15-02	ksattler@godesigninc.com
Address:	9450 SW Commerce Circle Suite 300 Wilsonville, OR	Phone:	503-968-8884	
Sampled by:	Andrew D. De Vange			

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 BVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Ni, Pb, Hg, Mn, Mo, Se, Ti, V, Zn	TOTAL DISS TCLP	1200-COLS	1200-Z
DP-18 (2-3)	02/24/19	0945	S	3				X					X	X	X	X					Hold
DP-18 (4-5)	"	"	"	"				X					X	X	X	X					X
DP-18 (6-5-8)	"	"	"	"				X					X	X	X	X					X
DP-18 (13-14.5)	"	"	"	"				X					X	X	X	X					X
DP-19 (1-2)	1016							X					X	X	X	X					X
DP-19 (3.5-4.5)	"	"	"	"				X					X	X	X	X					X
DP-19 (8-9)	1015							X					X	X	X	X					X
DP-19 (13-14)	"	"	"	"				X					X	X	X	X					X
DP-20 (1-2)	1030							X					X	X	X	X					X
DP-20 (3-4)	"	"	"	"				X					X	X	X	X					X

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other:

SPECIAL INSTRUCTIONS:

RECEIVED BY: Andrew D. De Vange Date: 02/27/19 Signature: [Signature]

RELINQUISHED BY: Andrew D. De Vange Date: 02/27/19 Signature: [Signature]

Printed Name: Andrew D. De Vange Time: 1305 Printed Name: Andrew D. De Vange Time: 1305

Company: GeoDesign Company: GeoDesign

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Wilsonville, OR 97070

Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0760 - 02 14 19 1228

APEX LABS **CHAIN OF CUSTODY**

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # A9A0760 COC 3 of 6

PO# MillCreek-15-02

Company:	Project Name:	Project Mgr:	Address:	Phone:	Fax:	Email:
ANALYSIS REQUEST						
Sampled by:						
Site Location: <u>OR</u> <u>WA</u>						
Other:						
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	
DP-23 (1-2)	2145	11/14/19	11:45	3		
DP-23 (4-5)	"	"	"	"		
DP-23 (8-9.5)	"	"	"	"		
DP-23 (13-24)	"	"	"	"		
DP-24 (0.5-1.5)	1220	11/14/19	12:20	"		
DP-24 (3-4)	"	"	"	"		
DP-24 (7.5-8.5)	2225	11/14/19	22:25	"		
DP-24 (12-13)	"	"	"	"		
DP-25 (1-2)	1375	11/14/19	13:75	"		
DP-25 (4-5)	"	"	"	"		
Normal Turn Around Time (TAT) = 10 Business Days						
TAT Requested (circle) <u>1 Day</u> <u>2 Day</u> <u>3 Day</u> <u>4 DAY</u> <u>5 DAY</u> Other: _____						
SPECIAL INSTRUCTIONS:						
RECEIVED BY: _____						
RELINQUISHED BY: _____						
Signature: _____ Date: _____						
Printed Name: _____ Time: _____						
Company: _____						

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director



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Project: Modera Slabtown

Project Number: MillCreek-15-02

Project Manager: Kyle Sattler

Report ID:

A9A0760 - 02 14 19 1228

Lab # A9A0760 COC 6 of 6
Revised PO#

Project # MillCreek-1502

Project Name: _____ Phone: _____ Fax: _____ Email: _____

Company: _____ Address: _____ Project Mgr: _____

Sampled by: _____

Site Location: OR WA
Other: _____

LAB ID # DATE TIME MATRIX # OF CONTAINERS

ANALYSIS REQUEST

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NTPH-HCID	NTPH-DX	NTPH-GX	8260 VOCs Full List	8260 RBDH VOCs	8260 HVOCS	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TFO	RCRA Metals (8)	TCLP Metals (8)	A, Sb, As, Ba, Be, Cd, Cr, Cu, Ni, Pb, Se, Si, Mn, Mo, Ni, V, Zn	TOTAL DISS TC,P	1200-COLS	1200-Z	
HA-1 (0-1)	8/14/15	11	1	1				X					X	X	X	X						
HA-2 (0-1)	8/14/15	11	1	1				X					X	X	X	X						
HA-3 (0-1)	8/14/15	11	1	1				X					X	X	X	X						
HA-3 (4-5)	8/14/15	11	1	1				X					X	X	X	X						

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS:

RECEIVED BY: _____

RELINQUISHED BY: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

Company: _____

Apex Laboratories

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Project: Modera Slabtown
Project Number: MillCreek-15-02
Project Manager: Kyle Sattler

Report ID:
A9A0760 - 02 14 19 1228

APEX LABS COOLER RECEIPT FORM

Client: Geo Design

Element WO#: A9A0760

Project/Project #: Modera Slabtown / MillCreek-15-02

Delivery Info:

Date/time received: 1/25/19 @ 1305 By: CB

Delivered by: Apex ☐ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Date/time inspected: 1/25/19 @ 1305 By: CB

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

Custody seals? Yes ☐ No ☒

Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.6</u>	<u>1.8</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) Possible reason why:

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No NA

Out of temperature samples form initiated? Yes/No NA

Samples Inspection: Date/time inspected: 1/26/19 @ 9:55 By: KRS

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: SEE FORM

COC/container discrepancies form initiated? Yes ☒ No ☐ NA ☐

Containers/volumes received appropriate for analysis? Yes ☐ No ☐ Comments:

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☒

Comments:

Additional information:

Labeled by: THB

Witness: MS J

Cooler Inspected by: MK

See Project Contact Form: Y

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Philip Nerenberg, Lab Director

APPENDIX C

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.14/2/2019 5:02:22 PM
From File WorkSheet_a.xls
Full Precision OFF
Confidence Coefficient 90%
Number of Bootstrap Operations 2000

Arsenic

General Statistics

Total Number of Observations	56	Number of Distinct Observations	51
		Number of Missing Observations	0
Minimum	2.94	Mean	7.896
Maximum	17.4	Median	6.69
SD	3.73	Std. Error of Mean	0.499
Coefficient of Variation	0.472	Skewness	0.546

Assuming Gamma Distribution

90% Approximate Gamma UCL (use when $n \geq 50$)	8.592	90% Adjusted Gamma UCL (use when $n < 50$)	8.608

Suggested UCL to Use

Based on the ProUCL 95% UCL analysis, the Gamma Approximate Gamma UCL was recommended based on data size, data distribution, and skewness.

Cadmium

General Statistics

Total Number of Observations	56	Number of Distinct Observations	55
Number of Detects	44	Number of Non-Detects	12
Number of Distinct Detects	43	Number of Distinct Non-Detects	12
Minimum Detect	0.288	Minimum Non-Detect	0.209
Maximum Detect	0.939	Maximum Non-Detect	0.298
Variance Detects	0.0268	Percent Non-Detects	21.43%
Mean Detects	0.709	SD Detects	0.164
Median Detects	0.748	CV Detects	0.231
Skewness Detects	-1.054	Kurtosis Detects	0.695
Mean of Logged Detects	-0.378	SD of Logged Detects	0.285

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.602	KM Standard Error of Mean	0.0337
KM SD	0.25	90% KM (BCA) UCL	0.647
90% KM (t) UCL	0.646	90% KM (Percentile Bootstrap) UCL	0.648
90% KM (z) UCL	0.646	90% KM Bootstrap t UCL	0.646
90% KM Chebyshev UCL	0.704	95% KM Chebyshev UCL	0.75
97.5% KM Chebyshev UCL	0.813	99% KM Chebyshev UCL	0.938

Suggested UCL to Use

Based on the ProUCL 95% UCL analysis, the Normal KM Student's-t UCL was recommended based on data size, data distribution, and skewness.

