



FINAL

**Phase II Environmental Site Assessment Report
Timbers at Troy Golf Course
6100 North Marshalee Drive
Elkridge, Howard County, Maryland 21075**

Prepared for

Bureau of Environmental Services
Howard County Department of Public Works
9801 Broken Land Parkway
Columbia, Maryland 21046

Prepared by

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September 2019
EA Project No. 1483559

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12 September 2019

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LIST OF ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	Microgram(s) per cubic meter
%	Percent
95%UCLM	95 th percentile upper confidence limit on the mean
ABS	Absorption factor
ADI	Average daily intake
AT	Averaging time
ATC	Anticipated Typical Concentration
bgs	Below ground surface
BW	Body weight
cm^2	Square centimeter(s)
COC	Chain-of-custody
COPC	Chemical of potential concern
DRO	Diesel range organics
EA	EA Engineering, Science, and Technology, Inc., PBC
EC	Exposure concentration
EF	Exposure frequency
EFH	Exposure Factors Handbook
EPA	U.S. Environmental Protection Agency
EPC	Exposure point concentration
ESA	Environmental Site Assessment
ft	Foot (feet)
GIABS	Gastrointestinal dermal absorption factor
GRO	Gasoline range organics
HHRA	Human health risk assessment
HQ	Hazard quotient
IDW	Investigation-derived waste
in.	Inch(es)
IUR	Inhalation unit risk
kg/mg	Kilogram(s) per milligram
LADI	Lifetime average daily intake
LOAEL	Lowest-observed-adverse-effect-level

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

MDE	Maryland Department of the Environment
mg/kg	Milligram(s) per kilogram
mg/m ³	Milligram(s) per cubic meter
NOAEL	No-observed-adverse-effect-level
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PEF	Particulate emissions factor
PID	Photoionization detector
PVC	Polyvinyl chloride
QC	Quality control
RBA	Relative bioavailability
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RfC	Reference concentration
RfD	Reference dose
RL	Reporting limit
RPD	Relative percent difference
RSL	Regional Screening Level
SA	Surface area
SF	Slope factor
SOP	Standard Operating Procedure
SVOC	Semivolatile organic compound
SWM	Stormwater management
TCL	Target Compound List
TPH	Total petroleum hydrocarbons
TT	Timbers at Troy
UF	Uncertainty factor
USCS	Unified Soil Classification System
USGS	U.S. Geological Survey
VOC	Volatile organic compound

EXECUTIVE SUMMARY

EA Engineering, Science, and Technology, Inc., PBC (EA) completed a Phase II Environmental Site Assessment (ESA) of a portion of the Timbers at Troy Golf Course, addressed as 6100 North Marshalee Drive in Elkridge, Howard County, Maryland. The area investigated is a portion of Tax Map 0037, Grid 0010, Parcel 0687, Lot G1, that lies south of Marshalee Drive (the “subject site”). No areas of the golf course north of Marshalee Drive were part of this 2019 EA Phase II ESA. The 85.87-acre subject site primarily consists of land developed with a golf course operated by Kemper Sports (Figure 1). Howard County has expressed interest in redeveloping the subject site as a school. As part of the County’s due diligence process, EA completed a Phase I ESA for the subject site in May 2019. Based on the findings of the Phase I ESA Report, Howard County requested a Phase II ESA to assist the County with making informed decisions regarding the future use of the property.

This Phase II ESA was focused on the assessment of potential impacts to surface soil from both historical and current site operations. Figure 2, included in Appendix A, depicts the areas of investigation. Ten locations were selected that are associated with the six Recognized Environmental Conditions (RECs) identified by the May 2019 EA Phase I ESA:

- EA1a – Historically Discarded Waste Area (Downhill Area) – an area observed with trash, debris and remnants of a steel drum located downhill behind the Maintenance Building to the southwest.
- EA1b – Historically Discarded Waste (Uphill Area) – a hill above and northwest of the Maintenance Building with evidence of dumping, including a concrete slab, bricks, glass and plastic bottles, plastic bags and household waste.
- EA2a – Equipment Wash/Pesticide Mixing Area – an area where staining was observed on the grass and asphalt along the drainage pathway.
- EA2b – Stormwater Management (SWM) Pond – a SWM pond, which is located downgradient from the Maintenance Building, receives overland flow and drainage from the adjacent Equipment Wash/Pesticide Mixing Area (EA 2a). The pond also receives drainage from the concrete wash area (located in the concrete pad in front of the easternmost Maintenance Building garage door) and the clubhouse parking lot.
- EA2c – Pesticide Storage Area – an area consisting of a flammable storage container and the surrounding exterior.
- EA3c¹ – Maintenance Building – soils beneath the concrete floor of the Maintenance Building in the vicinity of the oil interceptor.

¹ Two additional investigation areas (EA3a and EA3b) were investigated but were not sample locations. 3a and 3b evaluated the configuration and condition of the oil interceptor.

- EA4 – Historical Used Oil Storage Area – Historically, used oil drums were stored on a wooden pallet on the asphalt on the exterior of the Maintenance Building with no secondary containment. Staining was observed on the asphalt in the area of prior storage.²
- EA5 – Sitewide Agricultural Chemical Application – areas of the golf course where organic pesticides and herbicides are currently applied by Kemper Sports. Holes 1, 2, and 10 and the driving range were selected to assess the impacts of the routine applications and be representative of all tee boxes and greens at the subject site.
- EA6a and 6b – Historical Orchard – locations of historical orchards in the northeastern portion of Hole 2 (EA6a) and the northeastern portion of the Driving Range (EA6b), where arsenical and organochlorine pesticides may have been historically applied.

A total of 36 surface soil samples (33 parent and 3 duplicate) and 3 sediment samples (2 parent and 1 duplicate) were collected as part of the investigation. Samples from tee boxes and putting greens (EA5) were collected as composites; remaining areas were investigated using discrete samples. The analyses conducted at each location varied dependent on the history of use of the area, but included:

- Volatile organic compounds by U.S. Environmental Protection Agency (EPA) Method 8260B
- Total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by EPA Method 8015B
- TPH-diesel range organics (DRO) by EPA Method 8015B
- Resource Conservation and Recovery Act (RCRA) metals: arsenic, barium, cadmium, total chromium, lead, mercury, selenium, and silver by EPA Method 6020A
- Hexavalent chromium by EPA Method 7199A
- Polycyclic aromatic hydrocarbons by EPA Method 8270 SIM
- Polychlorinated biphenyls (PCBs) by EPA Method 8082
- Target Compound List (TCL) organochlorine pesticides by EPA Method 8081B
- TCL herbicides by EPA Method 8151A

² During the Phase II ESA site work, personnel from the Maintenance Building clarified that the former used oil storage area was in an unpaved area between the building and the perimeter fence. Sample locations were adjusted accordingly.

- Acid herbicides (EPA 8150), glyphosate (EPA 547M), herbicides, insecticides, and fungicides (Brookside Laboratories-developed method using gas chromatograph-mass spectrometry selective ion monitoring and liquid chromatography-mass spectrometry/mass spectrometry).

The results of the investigation indicate the following:

Arsenic: Arsenic was reported at concentrations that exceeded the EPA residential soil Regional Screening Level (RSL) of 0.68 milligrams per kilogram (mg/kg) in all samples except the composite sample collected from the Hole 2 and Hole 10 tee boxes (TT-EA5-S-04 and TT-EA5-S-06, respectively). Arsenic was reported at concentrations greater than the Maryland Department of the Environment (MDE) Anticipated Typical Concentration (ATC) for Central Maryland of 4.9 mg/kg in the discrete surface soil sample collected on the southwestern edge of the onsite stormwater management pond (TT-EA2a-S-02 [6.78 mg/kg]) and in two discrete surface soil samples collected from the former used oil storage area (TT-EA4-S-01 [5.38 mg/kg] and TT-EA4-S-02 [7.63 mg/kg]). Arsenic concentrations were within an order of magnitude of the MDE ATC for Central Maryland and, therefore, may be considered a naturally occurring product of site geology.

As part of the human health risk assessment (HHRA) approach, detected chemicals were compared to both risk-based screening values and the MDE ATCs. Future use of the subject site is anticipated to be a public school and recreation area. MDE groups schools into a Level 1 Public Recreational Area (High Frequency Use). A high frequency public recreational area is any area that is available for recreational use by all populations at the highest potential exposure frequency. The HHRA evaluated potential receptor exposure to arsenic in soil based upon future site use. The HHRA determined that concentrations of arsenic within soil across the subject site are not a concern for human health. No further action is recommended with regard to arsenic concentrations in surface soil.

TPH: EPA does not have an RSL for TPH because TPH encompasses the entire group of hydrocarbons, rather than an individual chemical; therefore, the 2018 Maryland Cleanup Standards were used for screening TPH results.

- TPH-DRO surface soil impacts identified at the historical oil storage area (TT-EA4-S-01 [1,580 mg/kg] and TT-EA4-S-02 [9,020 mg/kg]) are recommended for offsite removal, confirmatory sampling, and proper disposal prior to, or during site redevelopment, followed by confirmatory sampling.
- TPH-DRO impacts identified related to the oil interceptor in the Maintenance Building (TT-EA3C-S-02 [1,570 mg/kg]) are located beneath a concrete slab; therefore, no human exposure pathway is anticipated. If the building is planned for removal as part of future site redevelopment, impacted soils are recommended for offsite disposal and confirmatory sampling during future construction.

- TPH-DRO impacts identified in the sample collected from inside the pesticide storage cabinet (TT-EA2c-S-01 [17,900 mg/kg]) are recommended for proper handling and offsite disposal during a maintenance event or when the cabinet is removed from the site during the potential future change in use of the subject site.
- TPH-DRO impacts identified in the sample collected from the onsite stormwater management basin (TT-EA2b-SD-01 [330 mg/kg]) are located in an area with little likelihood for a human exposure pathway. If the sediment pond is relocated or otherwise incorporated to future development that would increase the likelihood for a human exposure pathway, the impacted sediments are recommended for offsite disposal and confirmatory sampling during future construction.

Excluding arsenic, no metals were reported at concentrations that exceeded the EPA residential soil RSLs, the MDE residential cleanup standards, or the MDE ATC for Central Maryland. No concentrations of agricultural chemicals, TPH-GRO, pesticides/herbicides, PCBs, volatile organic compounds, or semivolatile organic compounds were reported at concentrations that exceeded the EPA residential soil RSLs or the MDE residential soil cleanup standards.

Findings of the Phase II ESA indicate that surface soil conditions are acceptable for the intended use, per the MDE requirements and the EPA School Siting Guidelines (EPA 2011a), and the presence of TPH-DRO impacts can be managed by a combination of pathway elimination and offsite removal / proper disposal.

Investigation of the compliance requirements of the identified oil interceptor and associated tank in the Maintenance Building was beyond the scope of this investigation, but EA recommends Howard County determine if the oil interceptor is subject to compliance requirements or warrants proper abandonment.

1. INTRODUCTION

1.1 PURPOSE AND SCOPE

EA Engineering, Science, and Technology, Inc., PBC (EA) completed a Phase II Environmental Site Assessment (ESA) of a portion of the Timbers at Troy Golf Course, addressed as 6100 North Marshalee Drive in Elkridge, Howard County, Maryland. The area investigated is a portion of Tax Map 0037, Grid 0010, Parcel 0687, Lot G1, that lies south of Marshalee Drive (the “subject site”). No areas of the golf course that are north of Marshalee Drive were part of this 2019 EA Phase II ESA. The 85.87-acre subject site primarily consists of developed land with a golf course that is operated by Kemper Sports (Figure 1). The purpose of this study was to obtain additional environmental information to evaluate the Recognized Environmental Conditions (RECs) described in the May 2019 Phase I ESA and to assist Howard County with making informed decisions regarding the planned future use of the property.

EA conducted this Phase II ESA in accordance with EA Proposal No. 0751990, dated 18 June 2019, under the November 2010 Consulting Services Agreement CA#11-10, between Howard County, Maryland, and EA. This Phase II ESA was performed in accordance with Standard Practice for ESAs: Phase II ESA Process – ASTM International Standard E-1903-11 requirements. The investigation was focused on the assessment of potential impacts to soil at 10 investigation areas associated with the RECs described in the Phase I ESA Report. To meet this objective, a 3-day field investigation was performed to collect surface soil samples for laboratory analysis and investigate the Maintenance Building oil interceptor.

Supporting documentation is provided in the appendices as follows:

- Appendix A – Figures
- Appendix B – Tables
- Appendix C – Standard Operating Procedures
- Appendix D – Photograph Log
- Appendix E – Laboratory Analytical Reports.

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2. BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

The subject site is an 85.87-acre parcel addressed as 6100 North Marshalee Drive, Elkridge, Howard County, Maryland. The majority of the subject site is currently used as a public golf course and contains two structures (clubhouse and maintenance shop), plus several small communications sheds adjacent to the leased communication tower in the southeastern corner of the property. The boundaries of the subject site are depicted on Figure 1 (Appendix A).

2.2 PREVIOUS INVESTIGATIONS

EA May 2019 Phase I ESA, 6100 North Marshalee Drive, Elkridge, Maryland (EA 2019)

The Final Phase I ESA for the subject site was issued in May 2019, and identified the following RECs:

1. Evidence of historically discarded waste was observed on the hillsides behind and adjacent to the Maintenance Building area. Scrap metal, specifically remnants of an empty 55-gallon drum, were observed in the wooded area south of the Maintenance Building at the bottom of the hill on the land between the Maintenance Building and Route 100. Additionally, trash, debris, and a small concrete slab were observed northwest of the Maintenance Building.
2. An equipment-washing and pesticide mixing area that drains to the onsite stormwater management pond was observed to the east of the Maintenance Building at the southeast corner of the Maintenance Building yard.
3. A reported oil change sump is located under the golf cart lift in the Maintenance Building. The feature is no longer in use but was utilized historically to collect used oil during golf cart maintenance activities. Records indicate the sump contained piping for which the discharge point is unknown.
4. Historically, used oil drums were stored on a wooden pallet on the asphalt on the exterior of the Maintenance Building with no secondary containment. Staining was observed on the asphalt in the area of prior storage.³
5. A variety of agricultural chemicals have been used on the subject site since development in 1996 as a golf course.
6. Two areas within the subject site were depicted to contain orchards on topographic maps for 1957 and 1966 and aerial photographs between 1938 and 1981. Given the timeframe of the orchard presence it is likely that arsenical and organochlorine pesticides were utilized onsite.

³ During the Phase II ESA site work, personnel from the Maintenance Building clarified that the former used oil storage area was in an unpaved area between the building and the perimeter fence. Sample locations were adjusted accordingly.

3. METHODOLOGY

3.1 SITE INVESTIGATION

Field activities followed requirements contained in EA's General Health and Safety Plan for Hazardous Waste and Environmental Services (EA 2018), as well as the site-specific Health and Safety Plan Addendum that was prepared prior to fieldwork. Level D personal protective equipment was used for the duration of the investigative activities.

3.1.1 Utility Avoidance

Prior to the start of fieldwork, EA contacted Miss Utility to request utility clearance and received Ticket No. 19416404 for the duration of the project.

3.1.2 Sampling Plan and Methodology

The six RECs identified as potential areas of contamination during the Phase I ESA were developed into 10 sampling locations, based on the identified conditions and analytical requirements. Based on the RECs described in the Phase I ESA, the investigation was focused on identifying potential impacts to surface soils across the site, through the collection of composite and discrete samples. The investigation areas are shown on Figure 2. The sampling locations are as follows:

- EA1a – Historically Discarded Waste Area (Downhill Area) – an area observed with trash, debris, and remnants of a steel drum located downhill behind the Maintenance Building to the southwest. Two discrete soil samples were collected from 0–12 inches (in.) below ground surface (bgs) (EA1a-S-01 and S-02).
- EA1b – Historically Discarded Waste (Uphill Area) – an area uphill and to the northwest of the Maintenance Building with evidence of dumping, including a concrete slab, bricks, glass and plastic bottles, plastic bags, and household waste. Two discrete soil samples were collected from 0–12 in. bgs (EA1b-S-01 through S-04).
- EA2a – Equipment Wash/Pesticide Mixing Area – an area where staining was observed on the grass and asphalt along the drainage pathway. One discrete soil sample was collected from 0–12 in. bgs near the wash equipment, and one discrete soil sample was collected from 0–12 in. bgs adjacent to the stormwater management (SWM) pond, where staining was evident from overland flow traveling from the Equipment Wash/Pesticide Mixing Area to the SWM pond (EA2a-S-01 and S-02).
- EA2b – Stormwater Management (SWM) Pond – a SWM pond, which is located downgradient from the Maintenance Building, receives overland flow and drainage from the adjacent Equipment Wash/Pesticide Mixing Area (EA 2a). The pond also receives drainage from the concrete wash area (located in the concrete pad in front of the

easternmost Maintenance Building garage door) and the clubhouse parking lot. Two sediment samples were collected in this area (EA2b-S-01 and S-02).

- EA2c – Pesticide Storage Area – an area consisting of a flammable storage container and the surrounding exterior. Three soil samples were collected here from 0–12 in. bgs (EA2c-S-02, -S-03, and -S-04) and a fourth was collected inside the storage container, beneath the grate where soil/grit had accumulated (EA2c-S-01).
- EA3c⁴ – Maintenance Building – soils beneath the concrete floor of the Maintenance Building in the vicinity of the oil interceptor. Three soil samples were collected from 0–12 in. below the bottom of the oil interceptor, which corresponded to 17.5–29.5 in bgs. Samples were spaced adjacent to the northeast of the oil interceptor (EA3c-S-01), adjacent to the southwest (EA3c-S-02), and in the area between the oil interceptor and the wall where used oil is currently stored adjacent to the parts wash station in the garage bay (EA3c-S-03).
- EA4⁵ – Historical Used Oil Storage Area – a historical storage area outside the northwest wall of the Maintenance Building, where heavy staining of the asphalt was observed during the Phase I ESA⁶. Two soil samples were collected from 0–12 in. below the surficial stone in this area (EA4-S-01 and S-02).
- EA5 – Sitewide Agricultural Chemical Application – areas of the golf course where organic pesticides and herbicides are currently applied by Kemper Sports. Specifically, tee boxes and greens at Holes 1, 2, 10 and the driving range were selected to assess the impacts of the routine applications and be representative of all application areas at the subject site. Eight composite samples were collected from 0–6 in. bgs across the subject site: Hole 1, Hole 2, Hole 10, and the Driving Range. At each of the three holes, EA collected a 4-part composite sample from the tee boxes (EA5-S01, -S03 and S-05) and a 4-part composite sample from the putting greens (EA5-S-02, -S-04, and -S-06). At the driving range, two 4-part composite samples were collected across the range area (EA5-S-07 and EA5-S-08).
- EA6a and 6b – Historical Orchard – locations of historical orchard in the northeastern portion of Hole 2 (EA6a-S-01 through S-04) and the northeast portion of the Driving Range (EA6b-S-01 through S-04), where arsenical and organochlorine pesticides may have been historically applied. Four discrete soil samples were collected from 0–2 feet (ft) in each of the historical orchard areas.

⁴ Two additional investigation areas (EA3a and EA3b) were investigated but were not sample locations. 3a and 3b were related to evaluate the configuration and condition of the oil interceptor.

⁵ During the Phase II ESA site work, personnel from the Maintenance Building clarified that the former used oil storage area was in an unpaved area between the building and the perimeter fence. Sample locations were adjusted accordingly.

⁶ During the Phase II ESA site work, personnel from the Maintenance Building clarified that the former used oil storage area was in an unpaved area between the building and the perimeter fence.

Each REC was identified for a different analytical suite based on the history of use. Laboratory methods utilized by the receiving laboratories (Maryland Spectral Services, Inc. and Brookside Laboratories) were as follows:

- Resource Conservation and Recovery Act (RCRA) metals: arsenic, barium, cadmium, total chromium, lead, mercury, selenium, and silver by U.S. Environmental Protection Agency (EPA) Method 6020A
- Hexavalent chromium by EPA Method 7199A
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270 SIM
- Polychlorinated biphenyls (PCBs) by EPA Method 8082A
- Total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by EPA Method 8015B
- TPH-diesel range organics (DRO) by EPA Method 8015B
- Volatile organic compounds (VOCs) by EPA Method 8260B
- Target Compound List (TCL) organochlorine pesticides by EPA Method 8081B
- TCL herbicides by EPA Method 8151A
- Laboratory-developed analytical methods for: acid herbicides, glyphosate⁷, herbicides, insecticides, and fungicides.

Table 3-1 Sampling and Analysis Plan

REC	Investigation Area	Matrix	Analysis
1a	Historically discarded waste area	Soil	RCRA Metals, hexavalent chromium, PAHs, PCBs, TPH DRO/GRO
1b	Historically discarded waste area	Soil	RCRA Metals, hexavalent chromium, PAHs, PCBs, TPH DRO/GRO
2a	Equipment Wash/Pesticide Mixing Area	Soil	RCRA Metals, hexavalent chromium, PAHs agricultural chemicals ⁸ , TPH DRO/GRO
2b	Stormwater Management Pond	Sediment	RCRA Metals, hexavalent chromium, PAHs agricultural chemicals, TPH DRO/GRO
2c	Pesticide Storage Area	Soil	RCRA Metals, hexavalent chromium, PAHs agricultural chemicals, TPH DRO/GRO

⁷ Glyphosate analysis was conducted to assess impacts from use of the common herbicide sold commercially as *Roundup*.

⁸ Agricultural chemicals: acid herbicides, glyphosate, herbicides, insecticides, and fungicides compounds analyzed by Brookside Laboratories.

Table 3-1 Sampling and Analysis Plan

REC	Investigation Area	Matrix	Analysis
3c	Maintenance Building Oil Interceptor	Soil	RCRA Metals, hexavalent chromium, PAHs TPH DRO/GRO, VOCs
4	Historical Used Oil Storage Area	Soil	RCRA Metals, hexavalent chromium, PAHs TPH DRO/GRO
5	Sitewide Agricultural Chemical Application – Tee Boxes, Greens and Driving Ranges	Soil	RCRA Metals, hexavalent chromium, Agricultural chemicals ¹
6a	Historical Orchard #1 (east)	Soil	RCRA Metals, Pesticides, herbicides, hexavalent chromium
6b	Historical Orchard #2 (west)	Soil	RCRA Metals, Pesticides, herbicides, hexavalent chromium
¹ Agricultural chemicals: acid herbicides, glyphosate ⁹ , herbicides, insecticides, and fungicides compounds analyzed by Brookside Laboratories.			

Soil sampling was conducted in accordance with EA Standard Operating Procedure (SOP) No. 025 for Soil Sampling (Appendix C). Sediment sampling from the SWM Pond was conducted in accordance with EA SOP No. 021 for Sediment Sampling (Appendix C). Field duplicate samples were collected 1 per 10 samples per test method for each matrix. Observations (e.g., soil description, photoionization detector [PID] reading, visual staining, and olfactory evidence) were recorded in a field logbook. Surface soil sampling involved the use of a variety of decontaminated manual sampling tools, such as a hand auger (soils) or gouge probe (sediment) or disposable scoops.

At each location, the surface soil was observed and logged. Soils were described for grain size, composition percentages, relative sorting, and color, and classified in accordance with the Unified Soil Classification System (USCS) by field personnel. An aliquot of soil from each sample interval was bagged and the headspace was field screened for VOCs with a PID in accordance with EA SOP No. 011 for PID (Appendix C). In addition, visual/olfactory observations of potential impacts were recorded as warranted. Photographs were collected at each location to document the observations and sampling activities (Appendix D).

Sample locations were documented in the field using a Trimble® global positioning system unit. Sample locations are presented on Figures 3a and 3b (Appendix A).

3.1.3 Sample Handling and Laboratory Analysis

The clean, laboratory-provided sample jars were labeled, filled, and placed into an iced cooler immediately after sampling. Upon completion of sampling, the necessary entries on the chain-of-custody (COC) forms were completed by the field personnel. Turnaround time (standard 5-day) was noted on the COC for samples submitted to Maryland Spectral Services, Inc. Turnaround time (standard 10-day) was noted on the COC for samples submitted to Brookside Laboratories. At the end of the sampling day, the COC was placed in a waterproof plastic bag

⁹ Glyphosate analysis was conducted to assess impacts from use of the common herbicide sold commercially as Roundup.

and taped to the inside lid of the cooler. Samples were submitted to Maryland Spectral Services, Inc. and samples were shipped via overnight courier to Brookside Laboratories.

3.1.3.1 Sample Nomenclature

Soil jars were labeled with a unique sample identification name to coincide with the Site (Timbers at Troy [TT]), the REC (EA1a), and the matrix: soil (S); sediment (SD). For example, the first soil sample collected within REC 1a was named: TT-EA1a-S-01 and the first field duplicate sample was named DUP-1.

3.1.3.2 Quality Control Samples

A total of 35 parent samples (33 soil and 2 sediment) were collected as part of this investigation. In addition, 4 field duplicate samples (3 soil and 1 sediment) and 1 trip blank were submitted for laboratory analysis to monitor sampling and laboratory quality control (QC). A record of QC samples was maintained as a part of the field sampling documentation in the field notebook. A brief description of the QC samples and collection procedures is provided below.

Field Duplicates

Field duplicates are co-located samples (collected at the same time from the same location using the same sampling procedures) that are analyzed to evaluate the precision of the sampling and analysis system. The field duplicate samples were collected at a rate of 1 per 10 and were submitted for laboratory analysis without indication of which investigative sample the duplicate represented. Field duplicates were analyzed for the same constituents as the parent samples.

Trip Blanks

Trip blanks are sample bottles containing analyte-free, de-ionized water prepared at the laboratory, and stored and shipped with samples being submitted for VOC analysis. The trip blanks were not opened in the field. Information obtained from the trip blank analyses will be used to determine whether, and to what extent, sample handling and analysis have introduced positive bias to the sample results.

3.1.1 Equipment Decontamination

Decontamination procedures followed EA SOP No. 005 for Field Decontamination (Appendix C). Non-dedicated sampling equipment (hand auger, gouge probe, and hand tools) were decontaminated between collection of each sample.

3.1.2 Investigation-Derived Waste

Investigation-derived waste (IDW) consisted of small quantities (less than 100 milliliters per location) of decontamination water resulting from soil sampling activities, and water (less than 55 gallons) was generated from the Maintenance Building oil interceptor investigation. IDW from decontamination was not containerized and was discharged onsite. IDW from the oil interceptor investigation was filtered through granular activated carbon prior to discharge onsite.

IDW such as used personal protective equipment, sample labels, and soiled paper towels was collected and disposed offsite as municipal trash.

3.2 SUMP INVESTIGATION

The EA May 2019 Phase I ESA identified an “oil change sump” or a supposed “low-point sump” located beneath the golf cart lift in the Maintenance Shed (eastern bay). The feature was historically utilized to collect used oil during golf cart maintenance activities. Additional investigation of the feature was planned to be conducted during the Phase II ESA to determine the configuration of the associated piping (REC EA3a) and to evaluate the integrity of the feature (3b and 3c) through hydrotesting (3b). However, the initial investigation during the Phase II ESA identified that the feature was not a low-point sump but rather was an oil interceptor with inflow and outflow piping; therefore, a hydrotest (3b) could not be conducted. The label affixed to the inside cover, which was inaccessible during the Phase I ESA, indicated the unit is a Z1186 - 500 Oil Interceptor manufactured by Zurn Industries, LLC. Details of the investigation and a graphical representation of the identified piping configuration follow in Chapter 4.

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4. RESULTS

4.1 OIL INTERCEPTOR INVESTIGATION

EA field personnel conducted an investigation of the oil interceptor at the Maintenance Building to determine the subsurface piping configuration, and inlet and outlet details of the pipes attached to the basin. Photographs of the field activities are presented in Appendix D and a plan view of the estimated oil interceptor piping is shown in Figure 4. The oil interceptor basin contained grit, debris, and paint chips accumulated from deterioration of the coating of the basin. No liquid was present. Two removable pieces of equipment were observed inside the unit—a sediment bucket and a horizontal baffle. Initial observations indicated the presence of five inlet/outlets within the oil interceptor basin. The inner dimensions of the basin were measured as 17.5 in. long by 15.5 in. wide by 13.5 in. deep. These dimensions were later applied to the depth rationale for collection of the soil samples beneath the Maintenance Building floor slab.

Two vertically aligned connection points on the northeastern side of the basin were observed to be sealed and two open connection points in the same vertically aligned configuration were located on the opposite (southwestern) wall. An approximately 3-in.-diameter polyvinyl chloride (PVC) pipe was observed in the upper connection approximately 1 in. below the lid, and a 1.75-in.-diameter vertical standing inlet pipe was observed in the lower connection, extending approximately 5.5 in. above the basin floor. This pipe opening appears to have been situated to allow inflow when the basin is full.

One additional 3-in.-diameter PVC pipe connection was observed approximately 1 in. below the lid on the adjacent wall (western wall). A 7-in. linear slot drain was observed on the bottom of the basin's southeastern side. The linear drain reportedly discharges to the sanitary sewer. Water was introduced through both pipes while field personnel monitored possible outfall locations.

Based on the manufacturer specifications, the standpipe installed in the unit is designed to recover the separated oils using an adjustable draw-off assembly. There is a PVC pipe located above the draw-off assembly, which is designed to vent any volatile gases from within the sump. The PVC vent pipe was estimated to extend approximately 11 ft–5 in. to the southeast, towards the bathroom. Above the ceiling of the bathroom a vent pipe was observed that extends to the roof. The standpipe was determined to extend southwest into the Maintenance Building 9 ft–7 in. to a 45-degree elbow, beyond which the line could not be traced physically using a plumbing snake with the standpipe in place. Therefore, the standpipe was removed to allow a downhole camera to be introduced into the pipe by Howard County personnel. The downhole camera investigation indicated that the pipe continued beyond the 45-degree elbow approximately 32 ft–6 in. to a water-filled vessel/tank. The suspected tank location was estimated by Howard County personnel use of a pipe and cable locator to be located just outside the southeastern side of the building, as the signal was evidenced inside the door in the lunchroom and then terminated outside the building.

The 3-in. PVC pipe on the northwestern wall of the oil interceptor basin is an inflow pipe connected to a floor drain located in the Maintenance Building garage bay. Water was introduced to the floor drain in the Maintenance Building garage bay, which was observed to discharge into the basin through the 3-in.-diameter PVC pipe. From the oil interceptor basin, the 3-in. PVC pipe extends 2 ft–10 in. before making a 90-degree turn towards the floor drain. The length between the 90-degree elbow and the round floor drain is approximately 8 ft–2.5 in.

4.2 SURFACE SOIL AND SEDIMENT SAMPLING

Sample locations and analytical results that exceed screening criteria are shown in Figures 3a and 3b (Appendix A). Photographs of field investigation activities are provided in Appendix D. Field observations and descriptions of the soils observed during the investigation are presented on Table 4-1.

Table 4-1 Investigation Area Characteristics

REC	Investigation Area	Surface Observations	Soil Observations	USCS Soil Classification	USCS Soil Description
1a	Historically discarded waste area	Trash, debris, remnants of a 55-gallon drum, and non-native gravel	No elevated PID readings, visual staining, or olfactory observations noted.	CL – Lean clay with sand	Approximately 85% clay, 15% sand. Dark brown/gray, semi-plastic lean clay.
1b	Historically discarded waste area	Bricks, glass and plastic bottles, household debris and a small concrete slab, high weeds	No elevated PID readings, visual staining, or olfactory observations noted.	SC – Clayey sand	Approximately 80% sand, 20% clay. Light brown/orange, clayey sand; grading to dark brown lean clay with debris.
2a	Equipment Wash/Pesticide Mixing Area	Exposed soil near the drain and soil/grassy areas near the concrete pad and spigot used for pesticide mixing and equipment washing.	No elevated PID readings, or olfactory observations noted. Rust-colored staining observed from the subject area downhill to the SWM pond.	SP – Poorly Graded Sand	Approximately 95% sand, 5% gravel. Gray/brown, poorly sorted, fill; grading to brown, clayey sand with gravel.
2b	Stormwater Management Pond	Samples collected from sediment in the water-filled channel observed extending from the stormwater inlet to the central area of the pond. The pond receives stormwater from the drain at the equipment wash/pesticide mixing area (2a), the drain outside the Maintenance Building, the onsite parking lots, and overland flow from area 2a.	No elevated PID readings or olfactory observations noted. A slight sheen was observed on standing water near outfall and sediment here were gray/black in color.	ML – Silt	Approximately 90% silt, 10% fine-grained sand, dark gray/black silt.
2c	Pesticide Storage Area	A lack of vegetation and stressed vegetation was observed behind and adjacent to the storage cabinet. Grit accumulates beneath the cabinet floor, which was also sampled.	No elevated PID readings, visual staining, or olfactory evidence were observed in the surface soil surrounding the shed.	SC-SM – Silty Clayey Sand	Approximately 80% sand, 20% silt/clay. Dark gray/brown, poorly sorted, fill; grading to light brown, silty sand.
3c	Maintenance Building Oil Interceptor	Holes were cored into the wire-mesh reinforced concrete slab by EA to reach the underlying soils beneath the oil interceptor. The concrete slab was approximately 5 in. thick with 2A stone beneath followed by yellow sands. Holes were restored with concrete patch.	Olfactory responses were noted by field personnel during the sampling activities. Headspace readings were collected from the soil sample locations and elevated PID readings were recorded at TT-EA3c-S-01 (1.9-17.8 parts per million); TT-EA3c-S-02 (88–125 parts per million); TT-EA3c-S-03 (4.4-5.9 parts per million).	SM – Silty Sand	Approximately 85% sand, 15% silt. Light brown, medium-grained sand with silt, poorly sorted, fill.
4	Historical Used Oil Storage Area	Staining of the asphalt was observed in the area where oil drums were reportedly stored on wooden pallets outside the building; the location was clarified during the Phase II ESA to be in an unpaved area between the building and the perimeter fence.	Olfactory evidence of contamination was noted by field personnel. Headspace readings were collected from the soil and elevated PID readings were reported at both sample locations (ranged from 10.8 to 17.5 parts per million). Staining was observed in the soil from TT-EA4-S-02.	SC-SM – Silty Clayey Sand	Approximately 80% sand, 20% silt/clay. Light brown, poorly sorted, fill; grading to stained gray with sheen.
5	Sitewide Agricultural Chemical Application	Manicured tee-boxes	No elevated PID readings, visual staining, or olfactory evidence were observed in the surface soil at these locations.	SC-SM – Silty Clayey Sand	Approximately 80% sand, 20% silt/clay. Light brown, poorly sorted, possible fill.
		Manicured putting greens		SP – Poorly Graded Sand	Approximately 90% sand, 10% silt/clay. Light brown/tan, well sorted, fine-grained sand.
		Driving range		CH – Fat Clay	Approximately 90% clay, 10% gravel/rock fragments. Light brown, plastic, fat clay.
6a	Historical Orchard #1 (east)	Historical orchard previously located in the northeast portion of Hole 2	No elevated PID readings, visual staining, or olfactory evidence were observed in the surface soil at this location.	CH – Fat Clay	Approximately 90% clay, 10% gravel/rock fragments. Light brown, plastic, fat clay.
6b	Historical Orchard #2 (west)	Historical orchard previously located in the northeast portion of the Driving Range	No elevated PID readings, visual staining, or olfactory evidence were observed in the surface soil at this location.	CH – Fat Clay	Approximately 90% clay, 10% gravel/rock fragments. Light brown, plastic, fat clay.

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4.3 LABORATORY ANALYTICAL RESULTS

Analytical results from the sampling event (Appendix E) were compared to the current residential EPA Region III Regional Screening Levels (RSLs) for soil. EPA does not have an RSL for TPH because TPH encompasses an entire group of hydrocarbons, rather than an individual chemical; therefore, the October 2018 State of Maryland Department of the Environment (MDE) Cleanup Standards for Soil and Groundwater were used for screening TPH results. For agricultural chemicals that did not have an established RSL, corresponding residential screening criteria were calculated using published EPA toxicity values from the Office of Pesticide Programs. RSLs were calculated for the following agricultural chemicals: Boscalid, Carbendazim, Chlorantraniliprole, Dichlorprop, Fenarimol, Fluopyram, Fluxapyroxad, Iprodione, Mecoprop, Metalaxyl/Mefenoxam, Myclobutanil, Penthiopyrad, Propiconazole, Pyraclostrobin, Sulfentrazone, Tebuconazole, Thiophanate-Methyl, and Trifluoromethylazoxystrobin. RSLs were calculated using the Risk Assessment Information System RSL calculator (U.S. Department of Energy 2019). Outputs from the calculator are provided in Table 4-2 in Appendix B.

The U.S. Geological Survey (USGS) published the professional paper titled *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States* (USGS 1984), which provides reference levels of metals (i.e., background concentrations) in soil across Maryland. These data were included as an appendix to the MDE Cleanup Standards for Soil and Groundwater (MDE 2018) and were used to develop the MDE Anticipated Typical Concentrations (ATCs) for metals in soil. MDE ATCs are used to determine if observed concentrations of selected metals are consistent with the concentrations observed in other investigations throughout Maryland.

4.3.1 Sampling Results

A total of 36 soil samples (33 parent and 3 duplicate) and 3 sediment samples (2 parent and 1 duplicate) were submitted for analysis. Figures 3a and 3b include sample results that exceeded the surface soil screening levels applied to the project. Tabulated analytical results are presented in Tables 4-3 and 4-4 (Appendix B).

All 39 samples were analyzed for RCRA metals¹⁰, plus hexavalent chromium. No metals were reported at concentrations that exceeded the EPA residential soil RSLs, the MDE residential soil cleanup standards, or the MDE ATC for Central Maryland except for arsenic. Arsenic was reported at concentrations that exceeded the EPA residential soil RSL of 0.68 milligram per kilogram (mg/kg) in all samples except the composite sample collected from the Holes 2 and 10 tee boxes (TT-EA5-S-04 and DUP-4 [parent TT-EA5-S-06]). Arsenic was reported at concentrations greater than the MDE ATC of 4.9 mg/kg in the discrete surface soil sample collected from the southwestern edge of the onsite stormwater management pond (TT-EA2a-S-02 [6.78 mg/kg]), and in the two discrete surface soil samples collected from the former used oil storage area (TT-EA4-S-01 [5.38 mg/kg] and TT-EA4-S-02 [7.63 mg/kg]).

¹⁰ Arsenic, barium, cadmium, total chromium, lead, mercury, selenium, and silver.

Arsenic concentrations were within an order of magnitude of the MDE ATC for Central Maryland and, therefore, may be considered a naturally occurring product of site geology.

A total of 22 samples were analyzed for TPH-DRO and TPH-GRO. TPH concentrations were less than the MDE residential soil cleanup standard with the exception of TPH-DRO, which was reported at concentrations greater than the MDE residential soil cleanup standard of 230 mg/kg in sediment sample TT-EA2b-SD-01 (330 mg/kg) collected from the onsite stormwater management basin, sample TT-EA2c-S-01 (17,900 mg/kg) collected from grit beneath the floor of the pesticide storage cabinet, soil sample TT-EA3C-S-02 (1,570 mg/kg) collected from beneath the slab of the Maintenance Shop eastern bay floor, and soil samples TT-EA4-S-01 (1,580 mg/kg) and TT-EA4-S-02 (9,020 mg/kg), both of which were collected from within the former used oil storage area.

No concentrations of agricultural chemicals, TPH-GRO, pesticides/herbicides, PCBs, VOCs, or semivolatile organic compounds (SVOCs) were reported at concentrations that exceeded the EPA residential soil RSLs or the MDE residential soil cleanup standards. A summary of the analytes detected in samples is presented in Table 4-3, provided in Appendix B.

4.3.2 Data Validation

A formal data validation process was not required for this project. However, the data were reviewed for completeness and usability by the EA Data Manager. EA received two sample delivery groups from Maryland Spectral Services, Inc. and one sample delivery group from Brookside Laboratories for the Phase II ESA at subject site. The data packages were complete, and all samples were analyzed for the requested methods. There were no major issues identified for any of the data during review.

Relative percent difference (RPD) values were calculated for field duplicate pairs DUP-1/ TT-EA3c-S-03, DUP-2/ TT-EA2c-S-03, DUP-3/ TT-EA2b-SD-01, and DUP-4/ TT-EA5-S-06. The RPD values for parent and field duplicate samples were less than 40 percent (%) for the majority of the analytes. Only seven RPDs were slightly greater than 40%, including arsenic, chromium, TPH-DRO, hexavalent chromium, fluxapyroxad, propiconazole, and tebuconazole. None of the RPD values for parent and field duplicate samples resulted in qualification of the data, and all of the data were sufficiently precise for use.

There were minor laboratory QC issues listed in the laboratory reports. The common issue was surrogate samples with recoveries outside QC limits. Two laboratory-supplied trip blank samples were submitted with the sample cooler for VOC analysis. Trip blank results assess shipping and laboratory sources of contamination for VOCs only. The trip blank samples had no detections of VOCs. None of the minor laboratory QC issues resulted in qualification of the data, and the usability of the data for decision-making was not impaired.

5. HUMAN HEALTH RISK ASSESSMENT

As shown in Tables 4-3 and 4-4, arsenic is the only analyte, other than TPH-DRO, that exceeded the screening criteria. Detections of arsenic were evaluated further in a human health risk assessment (HHRA). The HHRA characterizes the nature and magnitude of potential health risks to humans from analytes with concentrations greater than screening criteria under anticipated current and future use scenarios for the subject site. When an analyte is detected at a concentration less than its residential soil screening level, exposure is not expected to result in health effects or concerns, and the analyte is not evaluated further. Analytes detected at concentrations that exceed residential soil screening levels do not necessarily represent a health concern. Instead, the results of the screening identify those analytes that warrant a more detailed, site-specific evaluation to determine whether health effects may occur. As a result, the HHRA evaluated concentration of arsenic detected across the subject site.

This HHRA only evaluated potential concerns with chemicals detected in analytical results from soils of the Phase II ESA investigation. It is noted that the sample (TT-EA2c-S-01) was not evaluated in the HHRA because this sample was collected from inside the pesticide storage cabinet under the removable flooring, an area that is not routinely accessible or available for human contact. The two sediment samples collected within the stormwater management pond were included in the risk assessment. Typically, sediment within a stormwater management pond is inaccessible for human contact because it is not an exposed surface. However, the final site configuration has not been determined at this time. Therefore, there is a possibility that sediment within the stormwater management pond can be exposed or moved to other locations within the site.

The risk assessment follows the risk assessment methodology and guidance as recommended by EPA (1989 and 2009) and MDE (2018). Risks determined in the HHRA are considered baseline risks associated with exposure to media evaluated at the subject site. The baseline risk assumes no means of exposure reduction and evaluates the reasonable maximum exposure that has the potential to occur at the subject site based upon EPA guidance (1989). Therefore, HHRA results are considered potential and should be used as a guideline in making risk management decisions.

5.1 CONCEPTUAL SITE MODEL

A conceptual site model was developed to identify all complete, potentially complete, or incomplete exposure pathways for the subject site, for current and anticipated future land uses. An exposure pathway is the course a chemical or physical agent takes from a source to a receptor. The conceptual site model evaluates the potential sources of contamination, routes of migration, and potential receptors under the current and anticipated future use of the subject site. Exposure pathways begin from potential source areas and progress through the environment via various fate and transport processes to potential human receptors. A completed exposure pathway requires the following four components:

- A source and mechanism of chemical release to the environment
- An environmental transport medium for the released chemical

- A point of potential human contact with the contaminated medium
- A human exposure route at the point of exposure.

All four components must exist for an exposure pathway to be complete and for exposure to occur. Incomplete exposure pathways do not result in actual human exposure and are not a concern for human health. All four components must exist for an exposure pathway to be complete and for exposure to occur. Incomplete exposure pathways do not result in actual human exposure and are not a concern for human health.

Currently, the majority of the subject site is used as a public golf course with associated support buildings. The subject site is bounded by Marshalee Drive to the north, Maryland State Route 100 to the west-southwest, Interstate 95 to the south-southeast, and a condominium complex to the northeast. Howard County has identified future use of the subject site as a potential school site. It is anticipated that the subject site and any associated future uses (i.e., a school facility) will fall under the category identified by MDE in the Cleanup Standards as Level 1: Public Recreational Areas (High Frequency Use) (MDE 2018). This level of public recreational area includes playgrounds, schools, golf courses, and picnic areas. These areas are available to a range of age groups at a high exposure frequency. The exposure frequency assumed for this type of receptor is 250 days per year (MDE 2018).

Due to the potential for various age groups to visit the subject site, age ranges were grouped to mimic typical age ranges that correspond to specific school types (e.g., elementary, middle, and high). These age ranges would account for use of the subject site as a potential school as well as provide an indication of the typical age groups that may use the subject site for athletic fields or other recreational activities. The elementary school receptor was assumed from kindergarten to 5th grade with an age range of 5 to 11 years. The middle school receptor was assumed from 6th through 8th grade with an age range of 11 to 14 years. The high school receptor was assumed from 9th through 12th grade with an age range of 14 to 18 years. It is reiterated that the future use of the subject site has not been determined, and the age ranges identified in the HHRA are assumed to account for all potential recreational uses that may occur. Additionally, an adult was also assumed to account for workers or an adult who may also frequent the subject site for recreational uses. An adult is assumed at an age greater than 18 years. Future use of the subject site is not expected to include residences.

Because the subject site will be used for recreational uses, as defined by MDE, trespassers may also potentially access the area. However, a recreational user is expected to have higher contact at a longer duration than a trespasser. The assessment of a recreational user adequately accounts for any trespasser exposure that may occur.

5.2 EXPOSURE ASSESSMENT

To determine potential concerns for human health, an estimate of chemical intake or exposure is calculated. Two different measures of intake are calculated, depending on the nature of the effect being evaluated. When evaluating longer-term (i.e., chronic) exposures to chemicals that produce adverse non-carcinogenic effects, intakes are averaged over the period of exposure

(i.e., the averaging time [AT]) (EPA 1989). This measure of intake is referred to as the average daily intake (ADI) and is a less than lifetime exposure. For chemicals that produce carcinogenic effects, intakes are averaged over an entire lifetime and are referred to as the lifetime average daily intake (LADI) (EPA 1989).

5.2.1 Exposure Intake Equations

Intake for the incidental ingestion of soil was estimated using the following equation:

$$(L)ADI = \frac{EPC \times IR \times EF \times ED \times CF \times RBA}{BW \times AT}$$

where:

- (L)ADI = (Lifetime) Average daily intake (mg/kg-day)
- EPC = Chemical concentration in soil (mg/kg)
- IR = Ingestion Rate (mg/day)
- EF = Exposure Frequency (days/year)
- ED = Exposure Duration (years)
- CF = Conversion Factor (10^{-6} kilogram per milligram [kg/mg])
- RBA = Relative Bioavailability factor (unitless) (0.6 for arsenic)
- BW = Body Weight (kilograms)
- AT = Averaging Time (days)
 - For non-carcinogens, AT = ED × 365 days/year
 - For carcinogens, AT = 70 years × 365 days/year.

It is noted that the intake for incidental ingestion of arsenic in soil was adjusted by a relative bioavailability (RBA) factor of 0.6. For chemicals where the medium of exposure differs from the medium of exposure associated with the toxicity value, an adjustment to the exposure intake or toxicity value can be made (EPA 2012). The toxicity values for arsenic are based upon exposure to arsenic in water; however, exposures at the subject site are for exposure to arsenic in soil. To assume that the bioavailability of arsenic in soil is equal to that in water would result in an overestimate of potential risks. In accordance with EPA guidance, the RBA was applied to only the ingestion exposure route to account for lower bioavailability of arsenic in soil (EPA 2012).

Exposure associated with dermal contact with soil was estimated based upon the following equation:

$$(L)ADI = \frac{EPC \times SA \times AF \times ABS \times EF \times ED \times CF}{BW \times AT}$$

where:

- (L)ADI = (Lifetime) Average Daily Intake (mg/kg-day)
- EPC = Chemical concentration in soil (mg/kg)

<i>SA</i>	= Surface Area for contact (square centimeters [cm ²])
<i>AF</i>	= Skin Adherence Factor (mg/cm ² -event)
<i>ABS</i>	= Absorption factor (dimensionless)
<i>EF</i>	= Exposure Frequency (days/year)
<i>ED</i>	= Exposure Duration (years)
<i>CF</i>	= Conversion Factor (10 ⁻⁶ kg/mg)
<i>BW</i>	= Body Weight (kilograms)
<i>AT</i>	= Averaging Time (days)
	For non-carcinogens, AT = ED × 365 days/year
	For carcinogens, AT = 70 years × 365 days/year.

For inhalation, exposure concentrations (ECs) are calculated. ECs are time-weighted average concentrations from contaminant concentrations in air, adjusted based on the characteristics of the exposure scenario being evaluated.

The equation to calculate inhalation exposure concentration from soil is given below (EPA 2009):

$$EC = \frac{EPC \times ET \times EF \times ED \times CF_1}{AT \times CF_2}$$

where:

<i>EC</i>	= Exposure Concentration (milligrams per cubic meter [mg/m ³])
<i>EPC</i>	= Concentration of a chemical in air (mg/m ³)
	= Concentration of chemical in soil/particulate emissions factor (PEF)
<i>ET</i>	= Exposure Time (hours/day)
<i>EF</i>	= Exposure Frequency (days/year)
<i>ED</i>	= Exposure Duration (years)
<i>AT</i>	= Averaging Time (days)
	For non-carcinogens AT = ED × 365 days/year
	For carcinogens AT = 70 years (lifetime) × 365 days/year = 25,550 days
<i>CF₁</i>	= Conversion Factor (1,000 micrograms per milligram) (applied to carcinogenic intakes only)
<i>CF₂</i>	= Conversion Factor (24 hours/day).

The particulate emissions factor (PEF) relates the concentration of a chemical in soil with the concentration of dust particles in air and is used in determining the intake for inhalation of soil particulate exposures. A PEF value of 7.8×10^7 was used (MDE 2018).

5.2.2 Exposure Point Concentration

The final step in the estimation of intake is the determination of the exposure point concentration (EPC). For the HHRA, the EPC represents the concentration of chemical of potential concern (COPC) in the media of concern that a potential receptor is expected to contact over a designated exposure period. Site receptors are assumed to move randomly across areas of the subject site

over an exposure time, so COPC concentrations are represented by a conservative estimate of the average concentration of the area of exposure. Because the entire site is expected for similar reuses, it is appropriate to assess the entire site as one exposure area. Additionally, arsenic concentrations were reviewed to ensure areas of high concentration were not present within individual REC areas. Arsenic concentrations were consistent across the subject site and detections were all within an order of magnitude.

The COPC concentrations are represented by the 95th percentile upper confidence limit on the mean (95%UCLM), which represents a conservative estimate of the average concentration (EPA 1989). The 95%UCLM represents the concentration of COPCs in soil that a potential receptor is expected to contact over a designated exposure period. When determining the 95%UCLM, all soil sample results from the designated exposure areas were evaluated. The 95%UCLM was determined through the EPA ProUCL program version 5.1.02 (EPA 2016). The EPA ProUCL program determines the distribution, sample size, variance, and recommended 95%UCLM of each COPC (EPA 2016). Table 5-1 in Appendix B presents the EPCs for each chemical evaluated in each exposure area. Outputs from the ProUCL program are provided in Appendix B

For the statistical determination of the 95%UCLM, the following data evaluation procedures were followed:

- Analytical results bearing the U qualifier (indicating that the analyte was not detected at the given reporting limit [RL]) were retained in the data set and considered non-detects (i.e., were assessed at the given RL).
- Analytical results bearing the J qualifier (indicating that the analyte was detected between the RL and the method detection limit) were retained in the data set and considered a detect (i.e., were assessed at the given reported result value).
- For duplicate samples, if both samples showed that the analyte was present, the greater concentration of the two detected concentrations was retained; if only one sample indicated that the analyte was present, the detected concentration was retained for analysis and the non-detect value was discarded.

5.2.3 Selection of Exposure Parameters

The second step in quantifying intake requires the identification of exposure parameters. Exposure parameters include rates of contact (e.g., ingestion rates, skin surface areas, etc.), exposure frequency (EF) and duration, body weight (BW), and AT. The contact rate reflects the amount of contaminated media contacted per unit time or event. EF and duration are used to estimate the total time of exposure to COPC in media of concern. The BW represents the average BW over an exposure period (EPA 1989). Specific exposure parameters for each receptor are chosen based on EPA guidance (EPA 1989, 1991a, 1991b, 2004, 2011b, 2014, and 2016) and MDE guidance (2018). Exposure parameters for each receptor are presented in Tables 5-2 through 5-5 in Appendix B.

The exposure frequency of 250 days per year is based upon MDE guidance (2018) for the potential site use. The exposure duration is based upon the age range evaluated, except for the adult recreational user. For the adult recreational user, an exposure duration of 20 years was assumed based upon typical exposure durations for adult residents (EPA 2011b, 2019). The ingestion rate for recreational users' exposure to soil is based upon ingestion rates presented in multiple EPA guidance documents and is assumed at 100 mg/kg based upon the age ranges evaluated in the HHRA (EPA 1991a, 1991b, 2011b, 2014, 2019).

Dermal exposure to soil is assumed for exposed body surface areas only. The surface area (SA) available for contact is presented in the EPA Risk Assessment Guidance for Superfund Part E guidance and generally assumes hands, forearms, head, lower legs, and feet. The recommended SA for the elementary, middle, and high school aged child was taken from Table 7-2 of EPA *Exposure Factors Handbook* (EFH) (EPA 2011b). For the determination of the SA of the lower leg, the lower leg was assumed as 40% of the total surface area of the leg. The SA for the forearms was determined based upon the mean proportion of the total skin SA by body part presented on Table 7-8 of EPA's EFH and the total body surface area presented on Table 7-1 of EPA's EFH (EPA 2011b). For the adult recreational user, the SA set forth for an adult resident of 6,032 cm² was assumed (EPA 2019).

The inhalation of soil particulates assumes an 8-hour day. The adult recreational user was assumed to weigh 80 kilograms, and the BW for the elementary, middle, and high school aged child recreational users were taken from Table 8-1 of EPA's EFH based upon the age range evaluated (EPA 2011b).

5.3 TOXICITY ASSESSMENT

The toxicity assessment considers the types of potential adverse health effects associated with exposures to chemicals, the relationship between the magnitude of exposure and potential adverse effects, and related uncertainties, such as the weight of evidence of a particular chemical's carcinogenicity in humans. EPA guidance (EPA 1989) specifies that the assessment be accomplished in two steps: hazard identification and dose-response assessment. Hazard identification is the process of determining whether studies demonstrate that exposure to a COPC may cause the incidence of an adverse effect. EPA specifies the dose-response assessment, which involves: (1) EPA's quantitative evaluation of the existing toxicity information, and (2) EPA's characterization of the relationship between the dose of the chemical administered or received, and the incidence of potentially adverse health effects in the exposed population. From this quantitative dose-response relationship, specific toxicity values are derived by EPA that can be used to estimate the incidence of potentially adverse effects occurring in humans at different exposure levels (EPA 1989).

For all chemicals, the non-carcinogenic effects are typically judged to have a threshold daily dose below which deleterious or harmful effects are unlikely to occur. This concentration is called the no-observed-adverse-effect-level (NOAEL), and may be derived from either animal laboratory experiments or human epidemiology investigations (usually workplace studies).

Uncertainty factors (UFs) are applied to the NOAELs to account for specific types of uncertainty inherent in extrapolation from the available data. The UFs are default factors used in operationally deriving the reference dose (RfD) and reference concentration (RfC) from experimental data. The UFs are intended to account for (1) variation in susceptibility among the members of the human population (i.e., inter-individual or intraspecies variability); (2) uncertainty in extrapolating animal data to humans (i.e., interspecies uncertainty); (3) uncertainty in extrapolating from data obtained in a study with less-than-lifetime exposure (i.e., extrapolating from subchronic to chronic exposure); (4) uncertainty in extrapolating from a lowest-observed-adverse-effect-level (LOAEL) rather than from a NOAEL; and (5) uncertainty associated with extrapolation when the database is incomplete. Tables 5-6 and 5-7 present the non-carcinogenic toxicity values for all chemicals evaluated in this HHRA.

Unlike non-carcinogens, carcinogens are generally assumed to have no threshold. Arsenic is identified by the EPA as “A Known Human Carcinogen.” For a carcinogen, there is presumed to be no level of exposure below which carcinogenic effects will not manifest themselves. This “non-threshold” concept supports the idea that there are small, finite probabilities of inducing a carcinogenic response associated with every level of exposure to a potential carcinogen. EPA uses a two-part evaluation for carcinogenic effects. This evaluation includes the assignment of a weight-of-evidence classification and the quantification of a cancer toxic potency concentration. Quantification is expressed as a slope factor (SF) for oral and dermal exposures and inhalation unit risk (IUR) for inhalation exposures, which reflects the dose-response data for the carcinogenic endpoint(s) (EPA 1989, 2009). Tables 5-8 and 5-9 present the carcinogenic toxicity values for arsenic.

5.3.1 Dermal Exposures

Toxicity values specific to dermal exposures are not available and require adjustment of the oral toxicity values (oral RfDs or SFs). This adjustment accounts for the difference between the daily intake dose through dermal contact as opposed to ingestion. Most toxicity values are based on the actual administered dose and must be corrected for the percent of chemical-specific absorption that occurs across the gastrointestinal tract prior to use in dermal contact risk assessment (EPA 1989, 2004). EPA recommends utilizing oral absorption efficiency factors in converting oral toxicity values to dermal toxicity values (EPA 2004). This adjustment accounts for the absorption efficiency in the “critical study,” which is utilized in determining the RfD and SF. Where oral absorption in the critical study is essentially complete (i.e., 100%), the absorbed dose is equivalent to the administered dose, and no adjustment of oral toxicity values is necessary when evaluating dermal exposures. When gastrointestinal absorption of a chemical in the critical study is poor (e.g., 1%), the absorbed dose is much smaller than the administered dose, and toxicity values for dermal exposure are adjusted to account for the difference in the absorbed dose relative to the administered dose. To account for the differences between the administered (oral) and the absorbed (dermal) dose, RfDs and SFs are modified by the gastrointestinal dermal absorption factor (GIABS). Table 5-10 in Appendix B presents the chemical-specific parameters for dermal contact.

In addition to the GIABS modification of the toxicity values for dermal contact, dermal contact rates are also evaluated based upon a chemical's ability to be absorbed through the skin surface. For soil, EPA has identified a dermal absorption factor (ABS) that is chemical-specific. The ABS value reflects the desorption of a chemical from soil and the absorption of the chemical across the skin and into the blood stream. Recommended values are presented that take into account ranges of values that result from different soil types, loading rates, chemical concentrations, and other conditions.

5.4 RISK CHARACTERIZATION

In risk characterization, the calculated chemical intakes (Section 5.2) and toxicity values (Section 5.3) are used to quantitatively estimate both carcinogenic and non-carcinogenic risks. Risks are calculated for each potential receptor.

5.4.1 Hazard Quotient for Non-Carcinogenic Effects

The potential human health risks associated with exposures to non-carcinogenic COPCs are calculated by comparing the ADI with the chemical-specific RfD, as per EPA Guidance (EPA 1989). A hazard quotient (HQ) is derived for each COPC, as shown in the equation below:

$$HQ = \frac{EC}{RfC} \quad \text{or}$$
$$HQ = \frac{ADI}{RfD}$$

where:

- HQ = Hazard Quotient; ratio of average daily intake level to acceptable daily intake level (unitless)
- EC = Exposure Concentration (micrograms per cubic meter [$\mu\text{g}/\text{m}^3$])
- ADI = Calculated non-carcinogenic average daily intake (mg/kg-day)
- RfD = Reference dose (mg/kg-day)
- RfC = Reference concentration (mg/ m^3).

If the average daily dose exceeds the RfD or RfC, the HQ will exceed a ratio of 1.0 and there may be concern that potential adverse systemic health effects will be observed in the exposed populations. If the ADI does not exceed the RfD or the RfC, the HQ will not exceed 1.0 and there will be no concern that potential adverse systemic health effects will be observed in the exposed populations. In general, the greater the value of the HQ above 1.0, the greater the level of concern. However, the HQ does not represent a statistical probability that an adverse health effect will occur. MDE has identified an acceptable non-carcinogenic hazard of 1.

5.4.2 Carcinogenic Risks

Carcinogenic risk is calculated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen. The numerical estimate of excess lifetime cancer risk is calculated by multiplying the LADI by the risk per unit dose (SF).

This is shown in the following equation:

$$\begin{aligned} \text{Risk} &= \text{LADI} \times \text{SF} \quad \text{or} \\ \text{Risk} &= \text{EC} \times \text{IUR} \end{aligned}$$

where:

- Risk* = Unitless estimate for the probability of an exposed individual developing cancer
- LADI* = Lifetime cancer average daily intake (mg/kg-day)
- SF* = Cancer slope factor (mg/kg-day)⁻¹
- EC* = Exposure Concentration (µg/m³)
- IUR* = Inhalation Unit Risk (µg/m³)⁻¹.

Because the SF and the IUR are considered to be upper-bound estimates of risk per increment of dose or concentration respectively, this method provides a conservative estimate of risk. It should be noted that the interpretation of the significance of the cancer risk estimate is based on the appropriate public policy. MDE has identified a cancer risk level of 10⁻⁵ as the level where remedial actions should be considered.

5.4.3 Risk Characterization Results

Risk calculations are presented in Tables 5-11 through 5-14. Table 5-15 presents the estimation of COPC air concentrations of particulate from soil. Estimates of cumulative risks across all pathways for non-carcinogenic and carcinogenic effects are presented in Tables 5-16 through 5-19. Tables 5-1 through 5-19 are located in Appendix B, while Table 5-20, below, presents a summary of the HHRA results.

Table 5-20 Summary of HHRA Results

Receptor	Carcinogenic Risk	Non-carcinogenic Hazard	Table Number
Elementary School Age Recreational User	8 × 10 ⁻⁷	0.02	Table 5-16
Middle School Age Recreational User	3 × 10 ⁻⁷	0.01	Table 5-17
High School Age Recreational User	3 × 10 ⁻⁷	0.01	Table 5-18
Adult Recreational User	9 × 10 ⁻⁷	0.008	Table 5-19

The carcinogenic risk results for all receptors are less than the MDE remedial action level of 10⁻⁵. Non-carcinogenic hazards for all receptors are less than the MDE target threshold of 1. This reveals that overall exposures across the subject site are not a concern for human health.

It is noted that a grit sample collected below the pesticide storage cabinet (TT-EA2c-S-01) was not evaluated in the HHRA because this sample was not considered a likely area for

human contact. However, a review of the results for this sample reveals chemical concentrations, except TPH, that are consistent with the samples evaluated in the HHRA. Therefore, this sample would not be a concern for human health for all compounds, except TPH.

6. CONCLUSIONS

Future use of the subject site is anticipated to be a public school and recreation area. MDE groups schools into a Level 1 Public Recreational Area (High Frequency Use). A high frequency public recreational area is any area that is available for recreational use by all populations at the highest potential exposure frequency. Arsenic was reported at concentrations that exceeded the EPA residential soil RSL of 0.68 mg/kg in all but two soil samples. As a result of the exceedances, the HHRA evaluated potential receptor exposure to arsenic in soil based upon future site use. The HHRA determined that concentrations of arsenic within soil across the subject site are not a concern for human health. No further action is recommended with regard to arsenic concentrations in surface soil.

EPA does not have an RSL for TPH because TPH encompasses the entire group of hydrocarbons, rather than an individual chemical; therefore, the 2018 Maryland Cleanup Standards were used for screening TPH results.

- TPH-DRO surface soil impacts identified at the historical oil storage area (TT-EA4-S-01 [1,580 mg/kg] and TT-EA4-S-02 [9,020 mg/kg]) are recommended for offsite removal, confirmatory sampling, and proper disposal prior to, or during site redevelopment, followed by confirmatory sampling.
- TPH-DRO impacts identified related to the oil interceptor in the Maintenance Building (TT-EA3C-S-02 (1,570 mg/kg)) are located beneath a concrete slab; therefore, no human exposure pathway is anticipated. If the building is planned for removal as part of future site redevelopment, impacted soils are recommended for offsite disposal and confirmatory sampling during future construction.
- TPH-DRO impacts identified in the sample collected from inside the pesticide storage cabinet (TT-EA2c-S-01 [17,900 mg/kg]) are recommended for proper handling and offsite disposal during a maintenance event or when the cabinet is removed from the site during the potential future change in use of the subject site.
- TPH-DRO impacts identified in the sample collected from the onsite stormwater management basin (TT-EA2b-SD-01 [330 mg/kg]) is located in an area with little likelihood for a human exposure pathway. If the sediment pond is relocated or otherwise incorporated to future development that would increase the likelihood for a human exposure pathway, the impacted sediments are recommended for offsite disposal and confirmatory sampling during future construction.

Excluding arsenic, no metals were reported at concentrations that exceeded the EPA residential soil RSLs, the MDE residential cleanup standards, or the MDE ATC for Central Maryland. No concentrations of agricultural chemicals, TPH-GRO, pesticides/herbicides, PCBs, VOCs, or SVOCs were reported at concentrations that exceeded the EPA residential soil RSLs or the MDE residential soil cleanup standards.

Findings of the Phase II ESA indicate that surface soil conditions are acceptable for the intended use per the MDE requirements and EPA School Siting Guidelines (EPA 2011a), and the presence of TPH-DRO impacts can be managed by a combination of pathway elimination and offsite removal/proper disposal.

Investigation of the compliance requirements of the identified oil interceptor and associated tank in the Maintenance Building was beyond the scope of this investigation, but EA recommends Howard County determine if the oil interceptor is subject to compliance requirements or warrants proper abandonment.

7. REFERENCES

The following sources of information were consulted as a part of this ESA:

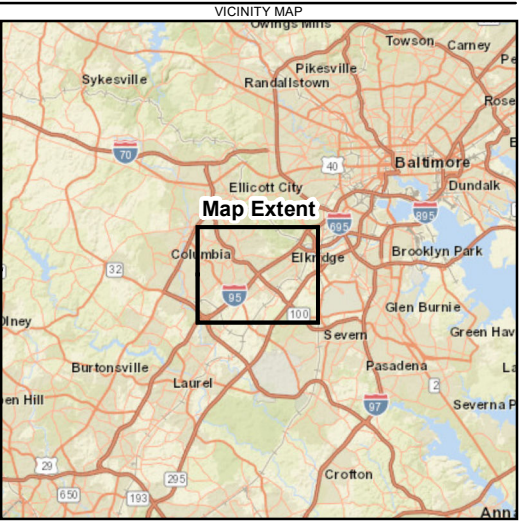
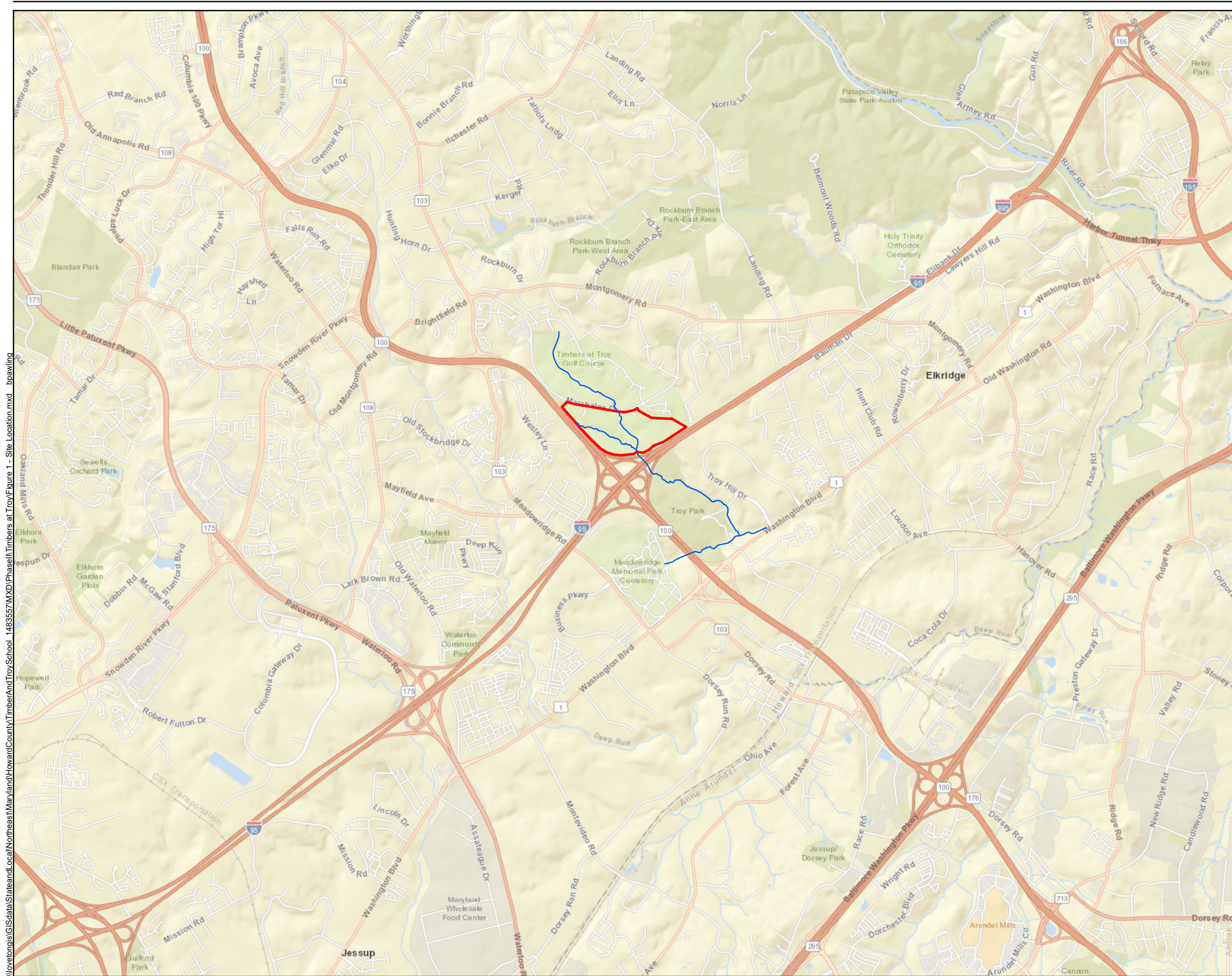
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Appendix A

Figures

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- Legend**
- Stream
 - Approximate Subject Site Boundary

Map Date: 8/9/2019
Source: MD Imap 2017
Projection: NAD 1983 State Plane Maryland FIPS 1900 Feet

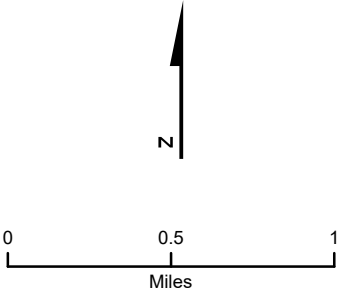
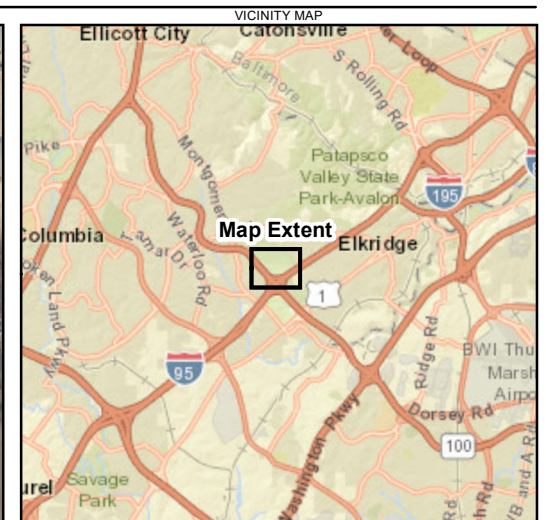


Figure 1
Site Location Map
Timbers at Troy Phase II ESA
Howard County, MD

\\lvetongis\GIS\data\StateandLocal\Northeast\Maryland\HowardCounty\TimberAndTroy\School_1483557\MXD\PhaseII\Timbers at Troy\Figure 1 - Site Location.mxd brawing

\\lovetongis\GIS\State\Local\Northeast\Maryland\HowardCounty\TimberAndTroy\School_1483557\MXD\PhaseII\Timbers at Troy\Figure 2 - Phase II ESA Investigation Areas - 106.mxd ispruill



Legend

- ① Golf Course Hole Number
- Investigation Area
- Colonial Pipeline/Gas Easement
- ~ Stream
- Approximate Historical Orchard
- Approximate Subject Site Boundary

Map Date: 9/5/2019
Source: MD Imap 2017
Projection: NAD 1983 State Plane Maryland FIPS 1900 Feet

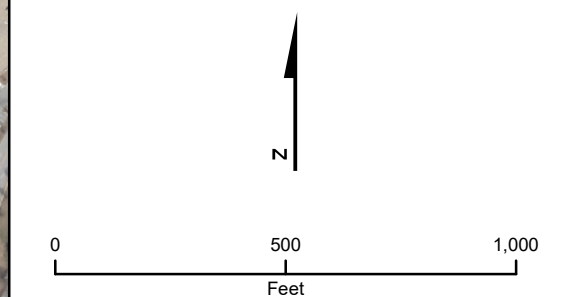
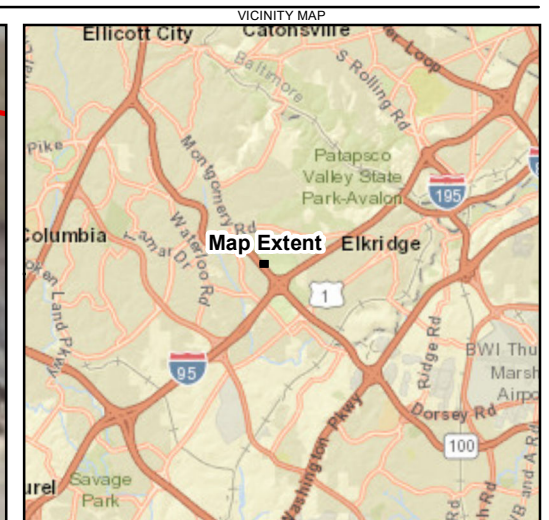


Figure 2
Phase II ESA Investigation Areas
Timbers at Troy Phase II ESA
Howard County, MD

\\lovetongis\GIS\data\StateandLocal\Northeast\Maryland\HowardCounty\TimberAndTroy\School_1483557\MXD\PhaseII\Timbers at Troy\Figure 3a - Sample Locations and Screening Level Exceedances.mxd evan



Legend

- Oil Interceptor Basin
- Suspected Oil Interceptor Tank
- Soil Sample Location
- Sediment Sample Location
- Storm Drain Line
- Approximate Subject Site Boundary

Notes:

Arsenic concentrations shown exceed both the EPA Regional Screening Level (RSL) (0.68 mg/kg) and the MDE anticipated typical concentration (ATC) (4.9 mg/kg).

TPH-DRO concentrations shown exceed the MDE Residential Soil Cleanup Standard (230 mg/kg). The MDE Non-Residential Soil Cleanup Standard is 620 mg/kg.

Map Date: 8/19/2019
Source: MD Imap 2017
Projection: NAD 1983 State Plane Maryland FIPS 1900 Feet

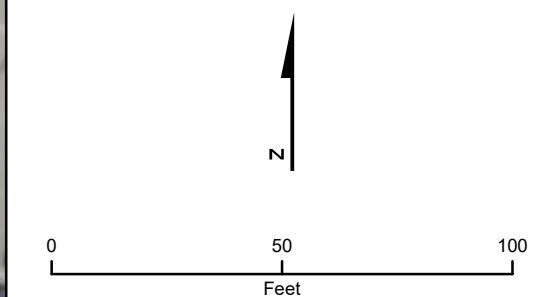
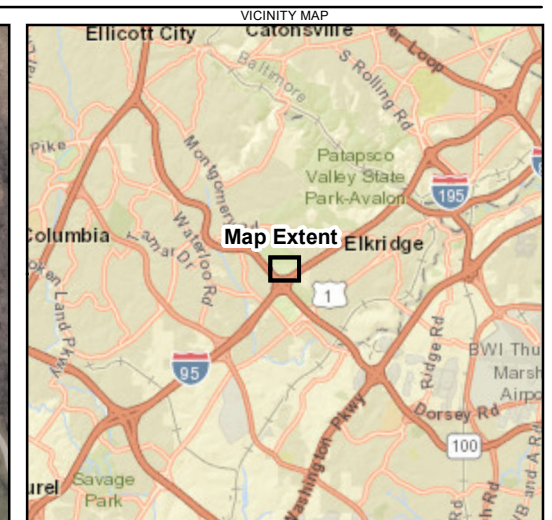


Figure 3a
Sample Locations and Screening Level Exceedances - West
Timbers at Troy Phase II ESA
Howard County, MD

\\lovetongis\GIS\data\Stateand\local\Northeast\Maryland\HowardCounty\TimberAndTroy\School_1483557\MXD\PhaseII\Timbers at Troy\Figure 3b - Golf Course Sample Locations and Screening Level Exceedances.mxd even



Legend

- ① Golf Course Hole Number
- Discrete Soil Sample Location
- Stream
- Approximate Historical Orchard
- Approximate Subject Site Boundary
- Approximate Composite Sample Location

Map Date: 8/5/2019
Source: MD Imap 2017
Projection: NAD 1983 State Plane Maryland FIPS 1900 Feet

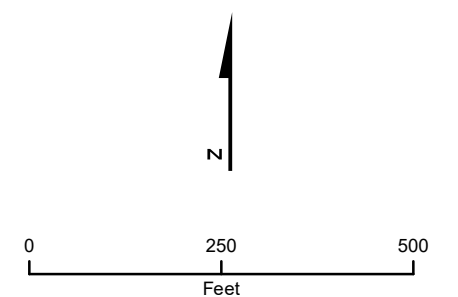
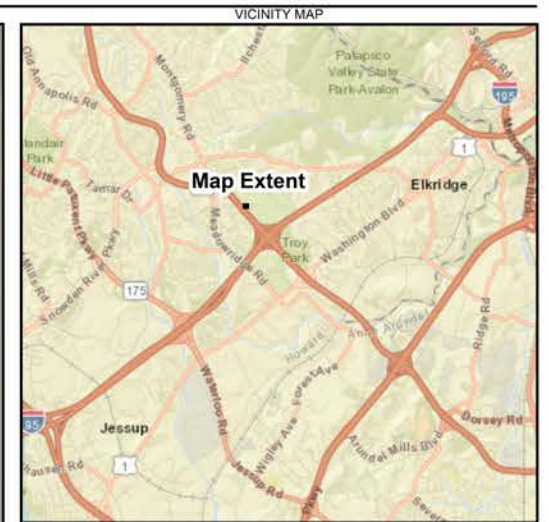
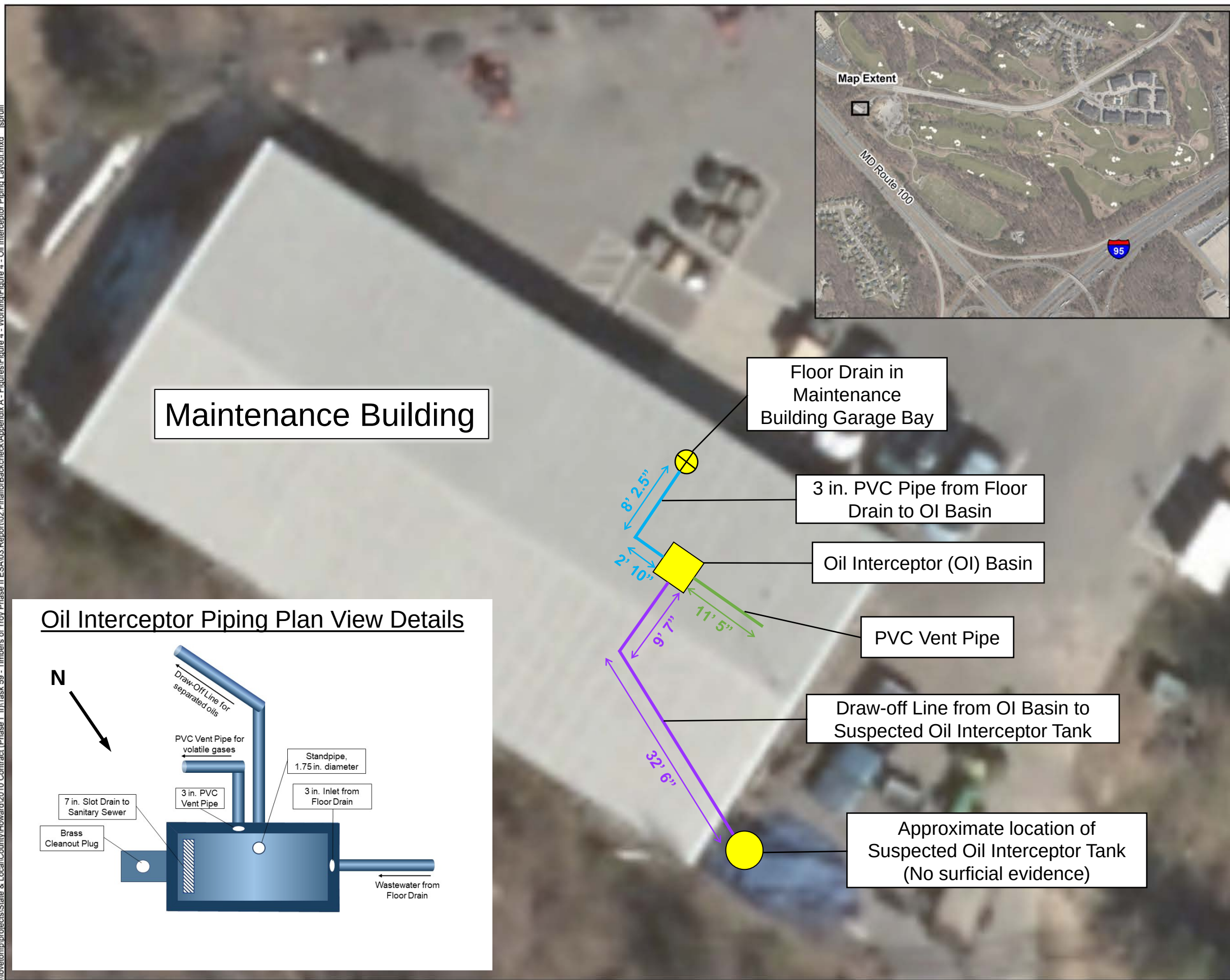


Figure 3b
Sample Locations and Screening
Level Exceedances - East
Timbers at Troy Phase II ESA
Howard County, MD

\\lodelon\projects\State & Local\County\Howard\2010 Contract (Phase I, II)\Task 59 - Timbers of Troy Phase II ESA\03 Report\02 Final\for Backcheck\Appendix A - Figures\Figure 4 - Oil Interceptor Piping Layout.mxd ispruill



Legend

- Oil Interceptor (OI) basin
- Suspected Oil Interceptor Tank
- Floor Drain in Maintenance Building Garage Bay
- 3 in. PVC Pipe from Floor Drain to OI Basin
- Draw-off Line from OI to Suspected Oil Interceptor Tank
- PVC Vent Pipe

Notes:
See Section 4.1 of the report for a discussion on oil interceptor configuration; oil interceptor and piping layout not shown to scale
' = feet
" = inch
Map Date: 9/12/2019
Source: MD Imap 2017
Projection: NAD 1983 State Plane Maryland FIPS 1900 Feet

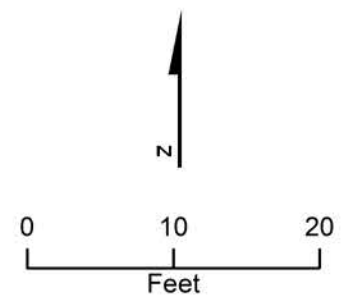


Figure 4
Oil Interceptor Piping Plan View
Timbers at Troy Phase II ESA
Howard County, MD

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Appendix B

Tables

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Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	0.000001
LT (lifetime) years	70
ET _{res} (exposure time) hours/day	24
ET _{res-c} (child exposure time) hours/day	24
ET _{res-a} (adult exposure time) hours/day	24
ET ₀₋₂ (mutagenic exposure time) hours/day	24
ET ₂₋₆ (mutagenic exposure time) hours/day	24
ET ₆₋₁₆ (mutagenic exposure time) hours/day	24
ET ₁₆₋₂₆ (mutagenic exposure time) hours/day	24
ED _{res} (exposure duration) years	26
ED _{res-c} (exposure duration - child) years	6
ED _{res-a} (exposure duration - adult) years	20
ED ₀₋₂ (mutagenic exposure duration) years	2
ED ₂₋₆ (mutagenic exposure duration) years	4
ED ₆₋₁₆ (mutagenic exposure duration) years	10
ED ₁₆₋₂₆ (mutagenic exposure duration) years	10
BW _{res-c} (body weight - child) kg	15
BW _{res-a} (body weight - adult) kg	80
BW ₀₋₂ (mutagenic body weight) kg	15
BW ₂₋₆ (mutagenic body weight) kg	15
BW ₆₋₁₆ (mutagenic body weight) kg	80
BW ₁₆₋₂₆ (mutagenic body weight) kg	80
SA _{res-c} (skin surface area - child) cm ² /day	2373
SA _{res-a} (skin surface area - adult) cm ² /day	6032
SA ₀₋₂ (mutagenic skin surface area) cm ² /day	2373
SA ₂₋₆ (mutagenic skin surface area) cm ² /day	2373
SA ₆₋₁₆ (mutagenic skin surface area) cm ² /day	6032

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident Equation Inputs for Soil

Variable	Value
SA ₁₆₋₂₆ (mutagenic skin surface area) cm ² /day	6032
EF _{res} (exposure frequency) days/year	350
EF _{res-c} (exposure frequency - child) days/year	350
EF _{res-a} (exposure frequency - adult) days/year	350
EF ₀₋₂ (mutagenic exposure frequency) days/year	350
EF ₂₋₆ (mutagenic exposure frequency) days/year	350
EF ₆₋₁₆ (mutagenic exposure frequency) days/year	350
EF ₁₆₋₂₆ (mutagenic exposure frequency) days/year	350
IFS _{res-adj} (age-adjusted soil ingestion factor) mg/kg	36750
IFSM _{res-adj} (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.3
IRS _{res-c} (soil intake rate - child) mg/day	200
IRS _{res-a} (soil intake rate - adult) mg/day	100
IRS ₀₋₂ (mutagenic soil intake rate) mg/day	200
IRS ₂₋₆ (mutagenic soil intake rate) mg/day	200
IRS ₆₋₁₆ (mutagenic soil intake rate) mg/day	100
IRS ₁₆₋₂₆ (mutagenic soil intake rate) mg/day	100
AF _{res-a} (skin adherence factor - adult) mg/cm ²	0.07
AF _{res-c} (skin adherence factor - child) mg/cm ²	0.2
AF ₀₋₂ (mutagenic skin adherence factor) mg/cm ²	0.2
AF ₂₋₆ (mutagenic skin adherence factor) mg/cm ²	0.2
AF ₆₋₁₆ (mutagenic skin adherence factor) mg/cm ²	0.07
AF ₁₆₋₂₆ (mutagenic skin adherence factor) mg/cm ²	0.07
DFS _{res-adj} (age-adjusted soil dermal factor) mg/kg	103390
DFSM _{res-adj} (mutagenic age-adjusted soil dermal factor) mg/kg	428260
AT _{res} (averaging time - resident carcinogenic)	365
City _{PEF} (Climate Zone) Selection	Default

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident Equation Inputs for Soil

Variable	Value
A_s (PEF acres)	0.5
Q/C_{wind} (g/m ² -s per kg/m ³)	93.77
PEF (particulate emission factor) m ³ /kg	1359344438
A (PEF Dispersion Constant)	16.2302
B (PEF Dispersion Constant)	18.7762
C (PEF Dispersion Constant)	216.108
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.69
U_t (equivalent threshold value)	11.32
F(x) (function dependent on U_m/U_t) unitless	0.194
City _{VF} (Climate Zone) Selection	Default
A_s (VF acres)	0.5
Q/C_{vol} (g/m ² -s per kg/m ³)	68.18
foc (fraction organic carbon in soil) g/g	0.006
ρ_b (dry soil bulk density) g/cm ³	1.5
ρ_s (soil particle density) g/cm ³	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ_a (air-filled soil porosity) L_{air}/L_{soil}	0.28396
θ_w (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	11.911
B (VF Dispersion Constant)	18.4385
C (VF Dispersion Constant)	209.7845
City _{VF mass-loading} (Climate Zone) Selection	Default
Q/C_{vol} (g/m ² -s per kg/m ³)	68.18365
A_s (VF mass-limit acres)	0.5
T (exposure interval) yr	26
ρ_b (dry soil bulk density - mass limit) g/cm ³	1.5

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident Equation Inputs for Soil

Variable	Value
A (VF Dispersion Constant - Mass Limit)	11.911
B (VF Dispersion Constant - Mass Limit)	18.4385
C (VF Dispersion Constant - Mass Limit)	209.7845
T _w (groundwater temperature) °Celsius	25

Output generated 26JUN2019:12:45:29

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident PRGs for Soil

Chemical	CAS Number	Mutagen?	VOC?	RfD (mg/kg-day)	RfD Ref	RfC (mg/m ³)	RfC Ref	SF _o (mg/kg-day) ⁻¹	SF _o Ref	IUR (ug/m ³) ⁻¹	IUR Ref	ABS _{derm}	ABS _{gi}	Volatilization Factor (m ³ /kg)	K _d (cm ³ /g)
Azoxystrobin	131860-33-8	No	No	0.18	O	-	-	-	-	-	-	-	-	-	-
Boscalid	188425-85-6	No	No	0.218	O	-	-	-	-	-	-	-	-	-	-
Carbendazim	10605-21-7	No	No	0.0025	O	-	-	0.00239	O	-	-	-	1	-	-
Chlorantraniliprole	500008-45-7	No	No	1.58	O	-	-	-	-	-	-	-	-	-	-
Cyazofamid	120116-88-3	No	No	0.948	O	-	-	-	-	-	-	-	-	-	-
Dithiopyr	97886-45-8	No	No	0.00036	O	-	-	-	-	-	-	-	-	-	-
Fenarimol	60168-88-9	No	No	0.006	O	-	-	-	-	-	-	-	1	-	-
Fluazinam	79622-59-6	No	No	0.011	O	-	-	-	-	-	-	-	-	-	-
Fluopyram	658066-35-4	No	No	0.012	O	-	-	-	-	-	-	-	-	-	-
Fluxapyroxad	907204-31-3	No	No	0.021	O	-	-	-	-	-	-	-	-	-	-
Mecoprop	7085-19-0	No	No	0.04	O	-	-	-	-	-	-	-	1	-	-
Metalaxyl	57837-19-1	No	No	0.06	I	-	-	-	-	-	-	0.1	1	-	-
Myclobutanil	88671-89-0	No	No	0.025	I	-	-	-	-	-	-	0.1	1	-	-
Penthiopyrad	183675-82-3	No	No	0.27	O	-	-	-	-	-	-	-	-	-	-
Propamocarb HCL	25606-41-1	No	No	0.12	O	-	-	-	-	-	-	-	1	-	-
Pyraclostrobin	175013-18-0	No	No	0.034	O	-	-	-	-	-	-	-	-	-	-
Quinchlorac	84087-01-4	No	No	0.38	O	-	-	-	-	-	-	-	-	-	-
Sulfentrazone	122836-35-5	No	No	0.14	O	-	-	-	-	-	-	-	-	-	-
Tebuconazole	107534-96-3	No	No	0.029	O	-	-	-	-	-	-	-	-	-	-
Topramezone	210631-68-8	No	No	0.004	O	-	-	-	-	-	-	-	-	-	-
Triticonazole	131983-72-7	No	No	0.17	O	-	-	-	-	-	-	-	-	-	-
Trinexapac-Ethyl	95266-40-3	No	No	0.32	O	-	-	-	-	-	-	-	-	-	-

Output generated 26JUN2019:12:45:29

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident PRGs for Soil

Chemical	CAS Number	K _{oc} (cm ³ /g)	Particulate Emission Factor (m ³ /kg)	DA	Soil Saturation Concentration (mg/kg)	Solubility (mg/L)	RBA	HLC (atm-m ³ /mole)	Henry's Law Constant (unitless)	H' and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref
Azoxystrobin	131860-33-8	-	1360000000	-	-	-	1	-	-		-	-	
Boscalid	188425-85-6	-	1360000000	-	-	-	1	-	-		-	-	
Carbendazim	10605-21-7	-	1360000000	-	-	29	1	2.12E-11	8.67E-10	EPI	8.67E-10	-	
Chlorantraniliprole	500008-45-7	-	1360000000	-	-	-	1	-	-		-	-	
Cyazofamid	120116-88-3	-	1360000000	-	-	-	1	-	-		-	-	
Dithiopyr	97886-45-8	-	1360000000	-	-	-	1	-	-		-	-	
Fenarimol	60168-88-9	-	1360000000	-	-	14	1	0.000000007	2.86E-07	EPI	0.000000286	-	
Fluazinam	79622-59-6	-	1360000000	-	-	-	-	-	-		-	-	
Fluopyram	658066-35-4	-	1360000000	-	-	-	-	-	-		-	-	
Fluxapyroxad	907204-31-3	-	1360000000	-	-	-	-	-	-		-	-	
Mecoprop	7085-19-0	-	1360000000	-	-	734	1	8.96E-10	3.66E-08	EPI	3.66E-08	-	
Metalaxyl	57837-19-1	38.6	1360000000	-	-	8400	1	2.95E-09	1.21E-07	EPI	0.000000121	651	EPI
Myclobutanil	88671-89-0	6080	1360000000	-	-	142	1	4.28E-09	1.75E-07	EPI	0.000000175	478	CRC89
Penthiopyrad	183675-82-3	-	1360000000	-	-	-	1	-	-		-	-	
Propamocarb HCL	25606-41-1	-	1360000000	-	-	1000000	1	8.44E-18	3.45E-16	PHYSPROP	3.45E-16	-	
Pyraclostrobin	175013-18-0	-	1360000000	-	-	-	1	-	-		-	-	
Quinchlorac	84087-01-4	-	1360000000	-	-	-	1	-	-		-	-	
Sulfentrazone	122836-35-5	-	1360000000	-	-	-	1	-	-		-	-	
Tebuconazole	107534-96-3	-	1360000000	-	-	-	1	-	-		-	-	
Topramezone	210631-68-8	-	1360000000	-	-	-	1	-	-		-	-	
Triticonazole	131983-72-7	-	1360000000	-	-	-	1	-	-		-	-	
Trinexapac-Ethyl	95266-40-3	-	1360000000	-	-	-	1	-	-		-	-	

Output generated 26JUN2019:12:45:29

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident PRGs for Soil

Chemical	CAS Number	Critical Temperature TC (K)	TC Ref	D _{ia} (cm ² /s)	D _{iw} (cm ² /s)	Ingestion PRG TR=1E-06 (mg/kg)	Inhalation PRG TR=1E-06 (mg/kg)	Dermal PRG TR=1E-06 (mg/kg)	Carcinogenic PRG TR=1E-06 (mg/kg)	Child Ingestion PRG HQ=1 (mg/kg)	Child Inhalation PRG HQ=1 (mg/kg)	Child Dermal PRG HQ=1 (mg/kg)
Azoxystrobin	131860-33-8	-	-	-	-	-	-	-	-	14100	-	-
Boscalid	188425-85-6	-	-	-	-	-	-	-	-	17100	-	-
Carbendazim	10605-21-7	-	-	0.0573	0.00000669	291	-	-	291	196	-	-
Chlorantraniliprole	500008-45-7	-	-	-	-	-	-	-	-	124000	-	-
Cyazofamid	120116-88-3	-	-	-	-	-	-	-	-	74100	-	-
Dithiopyr	97886-45-8	-	-	-	-	-	-	-	-	28.2	-	-
Fenarimol	60168-88-9	-	-	0.0397	0.00000464	-	-	-	-	469	-	-
Fluazinam	79622-59-6	-	-	-	-	-	-	-	-	-	-	-
Fluopyram	658066-35-4	-	-	-	-	-	-	-	-	-	-	-
Fluxapyroxad	907204-31-3	-	-	-	-	-	-	-	-	-	-	-
Mecoprop	7085-19-0	-	-	0.053	0.00000619	-	-	-	-	3130	-	-
Metalaxyl	57837-19-1	-	-	0.0445	0.0000052	-	-	-	-	4690	-	19800
Myclobutanil	88671-89-0	-	-	0.045	0.00000525	-	-	-	-	1960	-	8240
Penthiopyrad	183675-82-3	-	-	-	-	-	-	-	-	21100	-	-
Propamocarb HCL	25606-41-1	-	-	0.0514	0.00000601	-	-	-	-	9390	-	-
Pyraclostrobin	175013-18-0	-	-	-	-	-	-	-	-	2660	-	-
Quinchlorac	84087-01-4	-	-	-	-	-	-	-	-	29700	-	-
Sulfentrazone	122836-35-5	-	-	-	-	-	-	-	-	11000	-	-
Tebuconazole	107534-96-3	-	-	-	-	-	-	-	-	2270	-	-
Topramezone	210631-68-8	-	-	-	-	-	-	-	-	313	-	-
Triticonazole	131983-72-7	-	-	-	-	-	-	-	-	13300	-	-
Trinexapac-Ethyl	95266-40-3	-	-	0.0476	0.00000556	-	-	-	-	25000	-	-

Output generated 26JUN2019:12:45:29

Table 4-2: Regional Screening Level Calculations and Outputs

Default Resident PRGs for Soil

Chemical	CAS Number	Noncarcinogenic Child PRG HI=1 (mg/kg)	Adult Ingestion PRG HQ=1 (mg/kg)	Adult Inhalation PRG HQ=1 (mg/kg)	Adult Dermal PRG HQ=1 (mg/kg)	Noncarcinogenic Adult PRG HI=1 (mg/kg)	Adjusted Ingestion PRG HQ=1 (mg/kg)	Adjusted Inhalation PRG HQ=1 (mg/kg)	Adjusted Dermal PRG HQ=1 (mg/kg)	Noncarcinogenic Adjusted PRG HI=1 (mg/kg)
Azoxystrobin	131860-33-8	14100	150000	-	-	150000	46500	-	-	46500
Boscalid	188425-85-6	17100	182000	-	-	182000	56300	-	-	56300
Carbendazim	10605-21-7	196	2090	-	-	2090	646	-	-	646
Chlorantraniliprole	500008-45-7	124000	1320000	-	-	1320000	408000	-	-	408000
Cyazofamid	120116-88-3	74100	791000	-	-	791000	245000	-	-	245000
Dithiopyr	97886-45-8	28.2	300	-	-	300	93	-	-	93
Fenarimol	60168-88-9	469	5010	-	-	5010	1550	-	-	1550
Fluazinam	79622-59-6	-	-	-	-	-	-	-	-	-
Fluopyram	658066-35-4	-	-	-	-	-	-	-	-	-
Fluxapyroxad	907204-31-3	-	-	-	-	-	-	-	-	-
Mecoprop	7085-19-0	3130	33400	-	-	33400	10300	-	-	10300
Metalaxyl	57837-19-1	3790	50100	-	119000	35200	15500	-	55100	12100
Myclobutanil	88671-89-0	1580	20900	-	49400	14700	6460	-	22900	5040
Penthiopyrad	183675-82-3	21100	225000	-	-	225000	69700	-	-	69700
Propamocarb HCL	25606-41-1	9390	100000	-	-	100000	31000	-	-	31000
Pyraclostrobin	175013-18-0	2660	28400	-	-	28400	8780	-	-	8780
Quinchlorac	84087-01-4	29700	317000	-	-	317000	98100	-	-	98100
Sulfentrazone	122836-35-5	11000	117000	-	-	117000	36200	-	-	36200
Tebuconazole	107534-96-3	2270	24200	-	-	24200	7490	-	-	7490
Topramezone	210631-68-8	313	3340	-	-	3340	1030	-	-	1030
Triticonazole	131983-72-7	13300	142000	-	-	142000	43900	-	-	43900
Trinexapac-Ethyl	95266-40-3	25000	267000	-	-	267000	82600	-	-	82600

Output generated 26JUN2019:12:45:29

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA1a TT-EA1a-S-01 9062821-01 6/25/2019	TT-EA1a TT-EA1a-S-02 9062821-02 6/25/2019	TT-EA1b TT-EA1b-S-01 9062821-03 6/25/2019	TT-EA1b TT-EA1b-S-02 9062821-04 6/25/2019	TT-EA1b TT-EA1b-S-03 9062821-05 6/25/2019	TT-EA1b TT-EA1b-S-04 9062821-06 6/25/2019	TT-EA2a TT-EA2a-S-01 9062821-10 6/25/2019	TT-EA2a TT-EA2a-S-02 9062821-11 6/25/2019	TT-EA2b TT-EA2b-SD-01 9062821-07 6/26/2019	TT-EA2b DUP-3 9062821-09 6/26/2019 TT-EA2b-SD-01	TT-EA2b TT-EA2b-SD-02 9062821-08 6/26/2019	TT-EA2c TT-EA2c-S-01 9062821-12 6/25/2019	TT-EA2c TT-EA2c-S-02 9062821-13 6/25/2019
Analyte	Cas #	MDE Residential Soil	EPA RSL Residential Soil	Unit													
PCBs (8082)																	
Aroclor-1016	12674-11-2	410	4100	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1221	11104-28-2	200	200	ug/kg	< 205 U	< 298 U	< 205 U	< 183 U	< 198 U	< 210 U	--	--	--	--	--	--	--
Aroclor-1232	11141-16-5	170	170	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1242	53469-21-9	230	230	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1248	12672-29-6	230	230	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1254	11097-69-1	120	240	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1260	11096-82-5	240	240	ug/kg	< 100 U	213	< 100 U	< 89.2 U	112	169	--	--	--	--	--	--	--
Aroclor-1262	37324-23-5	NSL	240	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Aroclor-1268	11100-14-4	NSL	240	ug/kg	< 100 U	< 146 U	< 100 U	< 89.2 U	< 96.5 U	< 102 U	--	--	--	--	--	--	--
Total Metals (6020A)																	
Arsenic	7440-38-2	0.68	0.68	mg/kg	1.95	3.10	1.95	1.02	2.20	3.23	2.09	6.78	1.52	1.29	2.61	1.31	4.45
Barium	7440-39-3	15000	15000	mg/kg	29.8	41.0	15.4	7.29	35.8	39.3	17.7	25.6	17.9	21.1	16.3	382	42.4
Cadmium	7440-43-9	7.11	71	mg/kg	< 0.301 U	< 0.439 U	< 0.301 U	< 0.269 U	0.476	0.584	< 0.278 U	< 0.294 U	< 0.333 U	< 0.313 U	< 0.397 U	< 0.275 U	< 0.287 U
Chromium	7440-47-3	NSL	120000	mg/kg	10.2	11.1	9.09	8.04	10.1	14.6	15.8	24.5	9.97	18.0	24.1	13.5	15.2
Lead	7439-92-1	400	400	mg/kg	10.9	22.1	7.37	6.48	17.0	36.8	3.49	11.4	4.09	4.52	6.87	2.75	5.65
Mercury	7439-97-6	1.1	11	mg/kg	0.0246	0.0539	0.0343	0.0145	0.0410	0.0560	0.0179	0.0358	< 0.0167 U	0.0177	0.0292	0.0194	0.0228
Selenium	7782-49-2	39	390	mg/kg	0.942	1.24	0.641	0.657	0.854	1.03	0.773	1.18	< 0.333 U	0.450	0.519	0.991	0.829
Silver	7440-22-4	39	390	mg/kg	< 0.301 U	< 0.439 U	< 0.301 U	< 0.269 U	< 0.291 U	< 0.309 U	< 0.278 U	< 0.294 U	< 0.333 U	< 0.313 U	< 0.397 U	< 0.275 U	< 0.287 U
Total Petroleum Hydrocarbons (8015M)																	
Diesel-Range Organics	DRO	230	NSL	mg/kg	< 9.6 U	30.1	116	56.2	15.3	< 9.9 U	93.0	26.6	330	222	164	17900	16.0
Gasoline-Range Organics	GRO	230	NSL	mg/kg	< 0.12 U	0.26	< 0.12 U	< 0.11 U	< 0.12 U	< 0.12 U	< 0.11 U	< 0.12 U	< 0.13 U	< 0.13 U	0.18	< 137 U	< 0.11 U
Pesticides (8081B)																	
4,4'-DDD	72-54-8	190	1900	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	72-55-9	2000	2000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	50-29-3	1900	1900	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	39	39	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-BHC	319-84-6	86	86	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	5103-71-9	NSL	1700	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
beta-BHC	319-85-7	300	300	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
delta-BHC	319-86-8	NSL	86	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	60-57-1	34	34	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	47000	470000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	47000	470000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	1031-07-8	47000	380000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	72-20-8	1900	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin aldehyde	7421-93-4	NSL	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	53494-70-5	NSL	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	5566-34-7	NSL	1700	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	76-44-8	130	130	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	1024-57-3	70	70	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane (gamma-BHC)	58-89-9	570	570	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	72-43-5	32000	320000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	8001-35-2	490	490	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides (8151A)																	
2,4,5-T	93-76-5	NSL	630000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-TP (Silvex)	93-72-1	51000	510000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-D	94-75-7	70000	700000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-DB	94-82-6	NSL	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dalapon	75-99-0	190000	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	1918-00-9	NSL	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorprop	120-36-5	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	88-85-7	6300	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPA	94-74-6	NSL	32000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPP	93-65-2	NSL	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs (8260B)																	
1,1,1,2-Tetrachloroethane	630-20-6	NSL	2000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	810000	8100000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	600	600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	150	1100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	3600	3600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

					Location ID:	TT-EA1a	TT-EA1a	TT-EA1b	TT-EA1b	TT-EA1b	TT-EA1b	TT-EA2a	TT-EA2a	TT-EA2b	TT-EA2b	TT-EA2b	TT-EA2c	TT-EA2c
					Sample Name:	TT-EA1a-S-01	TT-EA1a-S-02	TT-EA1b-S-01	TT-EA1b-S-02	TT-EA1b-S-03	TT-EA1b-S-04	TT-EA2a-S-01	TT-EA2a-S-02	TT-EA2b-SD-01	DUP-3	TT-EA2b-SD-02	TT-EA2c-S-01	TT-EA2c-S-02
					Lab Sample ID:	9062821-01	9062821-02	9062821-03	9062821-04	9062821-05	9062821-06	9062821-10	9062821-11	9062821-07	9062821-09	9062821-08	9062821-12	9062821-13
					Sample Date:	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019
					Parent Sample:										TT-EA2b-SD-01			
1,1-Dichloroethene	75-35-4	23000	230000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	563-58-6	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	NSL	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	NSL	5.1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5800	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	30000	300000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	5.3	5.3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	36	36	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	95-50-1	180000	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	460	460	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	1600	2500	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	108-67-8	27000	270000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	NSL	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	142-28-9	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	2600	2600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	594-20-7	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	78-93-3	2700000	27000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	95-49-8	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	NSL	200000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	106-43-4	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	3300000	33000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	6100000	61000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1200	1200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	NSL	290000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	NSL	150000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	290	290	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	19000	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	74-83-9	680	6800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	77000	770000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	56-23-5	650	650	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	28000	280000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1400000	14000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	320	320	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	74-87-3	11000	110000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-4	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	NSL	1800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	8300	8300	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	74-95-3	NSL	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	75-71-8	NSL	87000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorofluoromethane	75-43-4	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	108-20-3	NSL	2200000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tert-butyl ether (ETBE)	637-92-3	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5800	5800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	87-68-3	1200	1200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	98-82-8	190000	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m- & p-Xylenes	179601-23-1	NSL	550000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	1634-04-4	47000	47000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	75-09-2	35000	57000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	91-20-3	3800	3800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	104-51-8	NSL	3900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	NSL	3800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	NSL	650000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	NSL	7800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	600000	6000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl alcohol (TAA)	75-85-4	NSL	82000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether (TAME)	994-05-8	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butanol (TBA)	75-65-0	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	98-06-6	NSL	7800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	8100	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	490000	4900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	160000	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	NSL	1800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	79-01-6	410	940	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

					Location ID:	TT-EA1a	TT-EA1a	TT-EA1b	TT-EA1b	TT-EA1b	TT-EA1b	TT-EA2a	TT-EA2a	TT-EA2b	TT-EA2b	TT-EA2b	TT-EA2c	TT-EA2c
					Sample Name:	TT-EA1a-S-01	TT-EA1a-S-02	TT-EA1b-S-01	TT-EA1b-S-02	TT-EA1b-S-03	TT-EA1b-S-04	TT-EA2a-S-01	TT-EA2a-S-02	TT-EA2b-SD-01	DUP-3	TT-EA2b-SD-02	TT-EA2c-S-01	TT-EA2c-S-02
					Lab Sample ID:	9062821-01	9062821-02	9062821-03	9062821-04	9062821-05	9062821-06	9062821-10	9062821-11	9062821-07	9062821-09	9062821-08	9062821-12	9062821-13
					Sample Date:	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019
					Parent Sample:										TT-EA2b-SD-01			
Trichlorofluoromethane (Freon 11)	75-69-4	NSL	23000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	75-01-4	59	59	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PAHs (8270D SIM)																		
Acenaphthene	83-32-9	360000	3600000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Acenaphthylene	208-96-8	NSL	3600000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Anthracene	120-12-7	1800000	18000000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Benzo[a]anthracene	56-55-3	1100	1100	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Benzo[a]pyrene	50-32-8	110	110	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	16.2	< 2750 U	< 11.5 U	
Benzo[b]fluoranthene	205-99-2	1100	1100	ug/kg	< 12.0 U	< 17.5 U	18.2	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	18.7	14.5	33.0	< 2750 U	< 11.5 U	
Benzo[ghi]perylene	191-24-2	NSL	1800000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	14.6	< 12.5 U	28.2	< 2750 U	< 11.5 U	
Benzo[k]fluoranthene	207-08-9	11000	11000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Chrysene	218-01-9	110000	110000	ug/kg	< 12.0 U	< 17.5 U	13.5	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	21.3	< 12.5 U	16.9	28.7	< 2750 U	< 11.5 U
Dibenzo[a,h]anthracene	53-70-3	110	110	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	< 15.9 U	< 2750 U	< 11.5 U	
Fluoranthene	206-44-0	240000	2400000	ug/kg	< 12.0 U	< 17.5 U	20.6	< 10.8 U	16.0	< 12.3 U	< 55.6 U	< 11.8 U	36.6	21.2	38.7	< 2750 U	< 11.5 U	
Fluorene	86-73-7	240000	2400000	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	20.9	16.2	21.7	< 2750 U	< 11.5 U	
Indeno[1,2,3-cd]pyrene	193-39-5	1100	1100	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	< 13.3 U	< 12.5 U	19.6	< 2750 U	< 11.5 U	
Naphthalene	91-20-3	3800	3800	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	15.0	14.5	25.5	< 2750 U	< 11.5 U	
Phenanthrene	85-01-8	180000	3800	ug/kg	< 12.0 U	< 17.5 U	< 12.0 U	< 10.8 U	< 11.6 U	< 12.3 U	< 55.6 U	< 11.8 U	47.2	34.7	50.6	< 2750 U	< 11.5 U	
Pyrene	129-00-0	180000	1800000	ug/kg	< 12.0 U	< 17.5 U	18.5	< 10.8 U	13.1	< 12.3 U	< 55.6 U	< 11.8 U	42.4	32.7	48.9	< 2750 U	< 11.5 U	
Percent Solids (ASTM D2216-05/SM 2540G)																		
Percent Solids		NSL	NSL	%	83	57	83	93	86	81	90	85	75	80	63	91	87	
% Solids		NSL	NSL	%	83.6	52.8	93.7	86.4	80.8	81.0	89.3	85.2	68.0	70.7	61.1	90.7	87.6	
Hexavalent Chromium (SM 2540G)																		
Chromium VI		NSL	NSL	mg/kg	0.110	0.152	0.129	0.175	0.217	0.232	0.340	< 0.0907 U	< 0.115 U	0.388	0.182	0.211	0.209	

Notes:
U = Indicates the analyte was not
ug/kg= Micrograms per Kilogram
mg/kg= Milligrams per Kilogram
Maryland Dept. of Environment October 2018 Soil Standards Residential Clean-up Standard
USEPA Regional Screening Level (RSL) for Residential Soil (TR=1E-06, HQ=1) MAY 2019
Cells exceeding the MDE Residential Soil Criteria and or the EPA Regional Screening Level are

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA2c TT-EA2c-S-03 9062821-14 6/25/2019	TT-EA2c DUP-2 9062821-18 6/25/2019 TT-EA2c-S-03	TT-EA2c TT-EA2c-S-04 9062821-15 6/25/2019	TT-EA3C TT-EA3C-S-01 9062409-01 6/24/2019	TT-EA3C TT-EA3C-S-02 9062409-02 6/24/2019	TT-EA3C TT-EA3C-S-03 9062409-03 6/24/2019	TT-EA3c DUP-1 9062409-04 6/24/2019 TT-EA3c-S-03	TT-EA4 TT-EA4-S-01 9062821-16 6/25/2019	TT-EA4 TT-EA4-S-02 9062821-17 6/25/2019	TT-EA5 TT-EA5-S-01 9062821-19 6/26/2019	TT-EA5 TT-EA5-S-02 9062821-20 6/26/2019	TT-EA5 TT-EA5-S-03 9062821-21 6/26/2019	TT-EA5 TT-EA5-S-04 9062821-22 6/26/2019	TT-EA5 TT-EA5-S-05 9062821-23 6/26/2019
Analyte	Cas #	MDE Residential Soil	EPA RSL Residential Soil	Unit														
PCBs (8082)																		
Aroclor-1016	12674-11-2	410	4100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1221	11104-28-2	200	200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1232	11141-16-5	170	170	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1242	53469-21-9	230	230	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1248	12672-29-6	230	230	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1254	11097-69-1	120	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1260	11096-82-5	240	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1262	37324-23-5	NSL	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1268	11100-14-4	NSL	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals (6020A)																		
Arsenic	7440-38-2	0.68	0.68	mg/kg	1.65	1.69	3.83	3.47	3.80	4.60	2.49	5.38	7.63	2.08	0.820	2.14	0.662	2.16
Barium	7440-39-3	15000	15000	mg/kg	24.6	19.2	20.9	23.2	8.09	16.0	11.8	43.8	31.8	20.8	4.44	37.1	4.53	49.4
Cadmium	7440-43-9	7.11	71	mg/kg	< 0.291 U	< 0.291 U	0.623	< 0.269 U	< 0.263 U	< 0.269 U	< 0.266 U	0.360	< 0.269 U	< 0.291 U	< 0.275 U	< 0.298 U	< 0.291 U	< 0.309 U
Chromium	7440-47-3	NSL	120000	mg/kg	10.6	12.4	12.7	14.3	11.3	16.8	8.76	20.8	15.5	14.1	4.57	9.54	5.47	36.6
Lead	7439-92-1	400	400	mg/kg	6.03	5.77	210	5.63	3.17	3.93	2.88	10.9	6.71	5.86	1.52	4.82	1.50	6.70
Mercury	7439-97-6	1.1	11	mg/kg	0.0223	0.0192	< 0.0144 U	0.0230	< 0.0132 U	0.0161	< 0.0133 U	0.0323	0.0138	0.0282	< 0.0137 U	0.0176	< 0.0145 U	0.0196
Selenium	7782-49-2	39	390	mg/kg	0.491	0.359	0.765	0.947	0.685	0.675	0.517	0.988	1.11	0.873	< 0.275 U	0.876	< 0.291 U	2.66
Silver	7440-22-4	39	390	mg/kg	< 0.291 U	< 0.291 U	< 0.287 U	< 0.269 U	< 0.263 U	< 0.269 U	< 0.266 U	< 0.294 U	< 0.269 U	< 0.291 U	< 0.275 U	< 0.298 U	< 0.291 U	< 0.309 U
Total Petroleum Hydrocarbons (8015M)																		
Diesel-Range Organics	DRO	230	NSL	mg/kg	50.1	78.1	33.8	< 8.6 U	1570	< 8.6 U	< 8.5 U	1580	9020	--	--	--	--	--
Gasoline-Range Organics	GRO	230	NSL	mg/kg	< 0.12 U	< 0.12 U	< 0.11 U	< 0.10 U	3.91	< 0.10 U	< 0.12 U	< 0.12 U	0.14	--	--	--	--	--
Pesticides (8081B)																		
4,4'-DDD	72-54-8	190	1900	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	72-55-9	2000	2000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	50-29-3	1900	1900	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	309-00-2	39	39	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-BHC	319-84-6	86	86	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	5103-71-9	NSL	1700	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
beta-BHC	319-85-7	300	300	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
delta-BHC	319-86-8	NSL	86	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	60-57-1	34	34	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	959-98-8	47000	470000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	33213-65-9	47000	470000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	1031-07-8	47000	380000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	72-20-8	1900	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin aldehyde	7421-93-4	NSL	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin ketone	53494-70-5	NSL	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	5566-34-7	NSL	1700	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	76-44-8	130	130	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	1024-57-3	70	70	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane (gamma-BHC)	58-89-9	570	570	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	72-43-5	32000	320000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	8001-35-2	490	490	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides (8151A)																		
2,4,5-T	93-76-5	NSL	630000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-TP (Silvex)	93-72-1	51000	510000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-D	94-75-7	70000	700000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-DB	94-82-6	NSL	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dalapon	75-99-0	190000	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	1918-00-9	NSL	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorprop	120-36-5	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	88-85-7	6300	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPA	94-74-6	NSL	32000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPP	93-65-2	NSL	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs (8260B)																		
1,1,1,2-Tetrachloroethane	630-20-6	NSL	2000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	810000	8100000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	600	600	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	150	1100	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	3600	3600	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples																		
	Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:				TT-EA2c TT-EA2c-S-03 9062821-14 6/25/2019	TT-EA2c DUP-2 9062821-18 6/25/2019 TT-EA2c-S-03	TT-EA2c TT-EA2c-S-04 9062821-15 6/25/2019	TT-EA3C TT-EA3C-S-01 9062409-01 6/24/2019	TT-EA3C TT-EA3C-S-02 9062409-02 6/24/2019	TT-EA3C TT-EA3C-S-03 9062409-03 6/24/2019	TT-EA3c DUP-1 9062409-04 6/24/2019 TT-EA3c-S-03	TT-EA4 TT-EA4-S-01 9062821-16 6/25/2019	TT-EA4 TT-EA4-S-02 9062821-17 6/25/2019	TT-EA5 TT-EA5-S-01 9062821-19 6/26/2019	TT-EA5 TT-EA5-S-02 9062821-20 6/26/2019	TT-EA5 TT-EA5-S-03 9062821-21 6/26/2019	TT-EA5 TT-EA5-S-04 9062821-22 6/26/2019	TT-EA5 TT-EA5-S-05 9062821-23 6/26/2019
1,1-Dichloroethene	75-35-4	23000	230000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,1-Dichloropropene	563-58-6	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	NSL	63000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	NSL	5.1	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5800	24000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	30000	300000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	5.3	5.3	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	36	36	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	95-50-1	180000	1800000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	460	460	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	1600	2500	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	108-67-8	27000	270000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	NSL	1800000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,3-Dichloropropane	142-28-9	NSL	1600000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	2600	2600	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
2,2-Dichloropropane	594-20-7	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
2-Butanone (MEK)	78-93-3	2700000	27000000	ug/kg	--	--	--	< 8.3 U	< 1140 U	< 10.0 U	< 9.2 U	--	--	--	--	--	--	--
2-Chlorotoluene	95-49-8	NSL	1600000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
2-Hexanone	591-78-6	NSL	200000	ug/kg	--	--	--	< 8.3 U	< 1140 U	< 10.0 U	< 9.2 U	--	--	--	--	--	--	--
4-Chlorotoluene	106-43-4	NSL	1600000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	3300000	33000000	ug/kg	--	--	--	< 8.3 U	< 1140 U	< 10.0 U	< 9.2 U	--	--	--	--	--	--	--
Acetone	67-64-1	6100000	61000000	ug/kg	--	--	--	< 8.3 U	< 1140 U	< 10.0 U	11.1	--	--	--	--	--	--	--
Benzene	71-43-2	1200	1200	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Bromobenzene	108-86-1	NSL	290000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	NSL	150000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	290	290	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Bromoform	75-25-2	19000	19000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Bromomethane	74-83-9	680	6800	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	77000	770000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Carbon tetrachloride	56-23-5	650	650	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	28000	280000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Chloroethane	75-00-3	1400000	14000000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Chloroform	67-66-3	320	320	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Chloromethane	74-87-3	11000	110000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-4	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	NSL	1800	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	8300	8300	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Dibromomethane	74-95-3	NSL	24000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Dichlorodifluoromethane	75-71-8	NSL	87000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Dichlorofluoromethane	75-43-4	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	108-20-3	NSL	2200000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Ethyl tert-butyl ether (ETBE)	637-92-3	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5800	5800	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Hexachlorobutadiene	87-68-3	1200	1200	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	98-82-8	190000	1900000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
m- & p-Xylenes	179601-23-1	NSL	550000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	1634-04-4	47000	47000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Methylene chloride	75-09-2	35000	57000	ug/kg	--	--	--	< 16.5 U	< 2290 U	< 19.9 U	< 18.3 U	--	--	--	--	--	--	--
Naphthalene	91-20-3	3800	3800	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
n-Butylbenzene	104-51-8	NSL	3900000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	NSL	3800000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
o-Xylene	95-47-6	NSL	650000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	NSL	7800000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Styrene	100-42-5	600000	6000000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
tert-Amyl alcohol (TAA)	75-85-4	NSL	82000	ug/kg	--	--	--	< 41.4 U	< 5720 U	< 49.8 U	< 45.9 U	--	--	--	--	--	--	--
tert-Amyl methyl ether (TAME)	994-05-8	NSL	NSL	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
tert-Butanol (TBA)	75-65-0	NSL	NSL	ug/kg	--	--	--	< 41.4 U	< 5720 U	< 49.8 U	< 45.9 U	--	--	--	--	--	--	--
tert-Butylbenzene	98-06-6	NSL	7800000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	8100	24000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Toluene	108-88-3	490000	4900000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	160000	1600000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	NSL	1800	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--
Trichloroethene	79-01-6	410	940	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

					Location ID:	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA3C	TT-EA3C	TT-EA3C	TT-EA3c	TT-EA4	TT-EA4	TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA5
					Sample Name:	TT-EA2c-S-03	DUP-2	TT-EA2c-S-04	TT-EA3C-S-01	TT-EA3C-S-02	TT-EA3C-S-03	DUP-1	TT-EA4-S-01	TT-EA4-S-02	TT-EA5-S-01	TT-EA5-S-02	TT-EA5-S-03	TT-EA5-S-04	TT-EA5-S-05
					Lab Sample ID:	9062821-14	9062821-18	9062821-15	9062409-01	9062409-02	9062409-03	9062409-04	9062821-16	9062821-17	9062821-19	9062821-20	9062821-21	9062821-22	9062821-23
					Sample Date:	6/25/2019	6/25/2019	6/25/2019	6/24/2019	6/24/2019	6/24/2019	6/24/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
					Parent Sample:		TT-EA2c-S-03					TT-EA3c-S-03							
Trichlorofluoromethane (Freon 11)	75-69-4	NSL	23000000	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--	--
Vinyl chloride	75-01-4	59	59	ug/kg	--	--	--	< 4.1 U	< 572 U	< 5.0 U	< 4.6 U	--	--	--	--	--	--	--	--
PAHs (8270D SIM)																			
Acenaphthene	83-32-9	360000	3600000	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	79.0	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Acenaphthylene	208-96-8	NSL	3600000	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Anthracene	120-12-7	1800000	18000000	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	20.6	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Benzo[a]anthracene	56-55-3	1100	1100	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Benzo[a]pyrene	50-32-8	110	110	ug/kg	17.5	< 23.3 U	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Benzo[b]fluoranthene	205-99-2	1100	1100	ug/kg	38.0	44.8	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Benzo[ghi]perylene	191-24-2	NSL	1800000	ug/kg	26.6	31.9	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Benzo[k]fluoranthene	207-08-9	11000	11000	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Chrysene	218-01-9	110000	110000	ug/kg	26.8	34.5	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Dibenzo[a,h]anthracene	53-70-3	110	110	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Fluoranthene	206-44-0	240000	2400000	ug/kg	36.2	43.3	< 11.5 U	< 10.8 U	46.7	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Fluorene	86-73-7	240000	2400000	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	77.4	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	193-39-5	1100	1100	ug/kg	21.1	24.5	< 11.5 U	< 10.8 U	< 10.5 U	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Naphthalene	91-20-3	3800	3800	ug/kg	< 11.6 U	< 23.3 U	< 11.5 U	< 10.8 U	214	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Phenanthrene	85-01-8	180000	3800	ug/kg	17.3	< 23.3 U	< 11.5 U	< 10.8 U	110	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Pyrene	129-00-0	180000	1800000	ug/kg	34.4	44.5	< 11.5 U	< 10.8 U	130	< 10.8 U	< 10.6 U	< 118 U	< 269 U	--	--	--	--	--	--
Percent Solids (ASTM D2216-05/SM 2540G)																			
Percent Solids		NSL	NSL	%	86	86	87	93	95	93	94	85	93	86	91	84	86	81	
% Solids		NSL	NSL	%	85.4	84.9	87.7	91.8	95.6	91.2	93.2	87.4	87.2	86.9	91.6	86.9	90.6	72.7	
Hexavalent Chromium (SM 2540G)																			
Chromium VI		NSL	NSL	mg/kg	0.267	0.118	0.249	0.255	0.214	0.207	0.207	0.203	0.137	0.210	0.251	< 0.0865 U	< 0.0843 U	0.220	

Notes:
U = Indicates the analyte was not
ug/kg= Micrograms per Kilogram
mg/kg= Milligrams per Kilogram
Maryland Dept. of Environment October 2018 Soil Standards Residential Clean-up Standard
USEPA Regional Screening Level (RSL) for Residential Soil (TR=1E-06, HQ=1) MAY 2019
Cells exceeding the MDE Residential Soil Criteria and or the EPA Regional Screening Level are

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA5 TT-EA5-S-06 9062821-24 6/26/2019	TT-EA5 DUP-4 9062821-27 6/26/2019 TT-EA5-S-06	TT-EA5 TT-EA5-S-07 9062821-25 6/26/2019	TT-EA5 TT-EA5-S-08 9062821-26 6/26/2019	TT-EA6a TT-EA6a-S-01 9062821-28 6/26/2019	TT-EA6a TT-EA6a-S-02 9062821-29 6/26/2019	TT-EA6a TT-EA6a-S-03 9062821-30 6/26/2019	TT-EA6a TT-EA6a-S-04 9062821-31 6/26/2019	TT-EA6b TT-EA6b-S-01 9062821-32 6/26/2019	TT-EA6b TT-EA6b-S-02 9062821-33 6/26/2019	TT-EA6b TT-EA6b-S-03 9062821-34 6/26/2019	TT-EA6b TT-EA6b-S-04 9062821-35 6/26/2019
Analyte	Cas #	MDE Residential Soil	EPA RSL Residential Soil	Unit												
PCBs (8082)																
Aroclor-1016	12674-11-2	410	4100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1221	11104-28-2	200	200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1232	11141-16-5	170	170	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1242	53469-21-9	230	230	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1248	12672-29-6	230	230	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1254	11097-69-1	120	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1260	11096-82-5	240	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1262	37324-23-5	NSL	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor-1268	11100-14-4	NSL	240	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals (6020A)																
Arsenic	7440-38-2	0.68	0.68	mg/kg	0.680	0.691	3.55	4.04	2.39	3.32	3.57	3.21	3.68	1.77	4.39	3.38
Barium	7440-39-3	15000	15000	mg/kg	4.59	5.85	41.2	36.8	33.9	64.7	55.4	36.9	36.7	19.8	34.2	44.7
Cadmium	7440-43-9	7.11	71	mg/kg	< 0.278 U	< 0.298 U	< 0.301 U	< 0.410 U	< 0.260 U	< 0.278 U	< 0.266 U	< 0.275 U	< 0.291 U	< 0.347 U	< 0.275 U	< 0.278 U
Chromium	7440-47-3	NSL	120000	mg/kg	3.59	3.84	11.9	17.9	9.18	15.5	12.5	9.60	14.2	20.5	12.7	13.2
Lead	7439-92-1	400	400	mg/kg	1.48	1.73	20.1	14.5	26.8	19.3	13.5	17.8	14.7	11.5	19.8	16.0
Mercury	7439-97-6	1.1	11	mg/kg	< 0.0139 U	< 0.0149 U	0.0372	0.0474	0.0551	0.0454	0.0334	0.0433	0.0469	0.0230	0.0390	0.0544
Selenium	7782-49-2	39	390	mg/kg	< 0.278 U	< 0.298 U	3.32	2.02	0.823	1.57	1.56	1.18	1.79	2.93	1.77	1.94
Silver	7440-22-4	39	390	mg/kg	< 0.278 U	< 0.298 U	< 0.301 U	< 0.410 U	< 0.260 U	< 0.278 U	< 0.266 U	< 0.275 U	< 0.291 U	< 0.347 U	< 0.275 U	0.295
Total Petroleum Hydrocarbons (8015M)																
Diesel-Range Organics	DRO	230	NSL	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline-Range Organics	GRO	230	NSL	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides (8081B)																
4,4'-DDD	72-54-8	190	1900	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
4,4'-DDE	72-55-9	2000	2000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
4,4'-DDT	50-29-3	1900	1900	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Aldrin	309-00-2	39	39	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
alpha-BHC	319-84-6	86	86	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
alpha-Chlordane	5103-71-9	NSL	1700	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
beta-BHC	319-85-7	300	300	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
delta-BHC	319-86-8	NSL	86	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Dieldrin	60-57-1	34	34	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Endosulfan I	959-98-8	47000	470000	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Endosulfan II	33213-65-9	47000	470000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Endosulfan sulfate	1031-07-8	47000	380000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Endrin	72-20-8	1900	19000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Endrin aldehyde	7421-93-4	NSL	19000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
Endrin ketone	53494-70-5	NSL	19000	ug/kg	--	--	--	--	< 6.98 U	< 7.44 U	< 7.13 U	< 7.36 U	< 7.79 U	< 9.31 U	< 7.36 U	< 7.44 U
gamma-Chlordane	5566-34-7	NSL	1700	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Heptachlor	76-44-8	130	130	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Heptachlor epoxide	1024-57-3	70	70	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Lindane (gamma-BHC)	58-89-9	570	570	ug/kg	--	--	--	--	< 3.44 U	< 3.67 U	< 3.51 U	< 3.63 U	< 3.84 U	< 4.58 U	< 3.63 U	< 3.67 U
Methoxychlor	72-43-5	32000	320000	ug/kg	--	--	--	--	< 34.4 U	< 36.7 U	< 35.1 U	< 36.3 U	< 38.4 U	< 45.8 U	< 36.3 U	< 36.7 U
Toxaphene	8001-35-2	490	490	ug/kg	--	--	--	--	< 69.8 U	< 74.4 U	< 71.3 U	< 73.6 U	< 77.9 U	< 93.1 U	< 73.6 U	< 74.4 U
Herbicides (8151A)																
2,4,5-T	93-76-5	NSL	630000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
2,4,5-TP (Silvex)	93-72-1	51000	510000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
2,4-D	94-75-7	70000	700000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
2,4-DB	94-82-6	NSL	1900000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
Dalapon	75-99-0	190000	1900000	ug/kg	--	--	--	--	< 83.3 U	< 88.9 U	< 85.1 U	< 87.9 U	< 93.0 U	< 111 U	< 87.9 U	< 88.9 U
Dicamba	1918-00-9	NSL	1900000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
Dichlorprop	120-36-5	NSL	NSL	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
Dinoseb	88-85-7	6300	63000	ug/kg	--	--	--	--	< 41.7 U	< 44.4 U	< 42.6 U	< 44.0 U	< 46.5 U	< 55.6 U	< 44.0 U	< 44.4 U
MCPA	94-74-6	NSL	32000	ug/kg	--	--	--	--	< 8330 U	< 8890 U	< 8510 U	< 8790 U	< 9300 U	< 11100 U	< 8790 U	< 8890 U
MCPP	93-65-2	NSL	63000	ug/kg	--	--	--	--	< 8330 U	< 8890 U	< 8510 U	< 8790 U	< 9300 U	< 11100 U	< 8790 U	< 8890 U
VOCs (8260B)																
1,1,1,2-Tetrachloroethane	630-20-6	NSL	2000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	71-55-6	810000	8100000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	600	600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	79-00-5	150	1100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	75-34-3	3600	3600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

					Location ID:	TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA6a	TT-EA6a	TT-EA6a	TT-EA6a	TT-EA6b	TT-EA6b	TT-EA6b	TT-EA6b
					Sample Name:	TT-EA5-S-06	DUP-4	TT-EA5-S-07	TT-EA5-S-08	TT-EA6a-S-01	TT-EA6a-S-02	TT-EA6a-S-03	TT-EA6a-S-04	TT-EA6b-S-01	TT-EA6b-S-02	TT-EA6b-S-03	TT-EA6b-S-04
					Lab Sample ID:	9062821-24	9062821-27	9062821-25	9062821-26	9062821-28	9062821-29	9062821-30	9062821-31	9062821-32	9062821-33	9062821-34	9062821-35
					Sample Date:	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
					Parent Sample:		TT-EA5-S-06										
1,1-Dichloroethene	75-35-4	23000	230000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	563-58-6	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	NSL	63000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	96-18-4	NSL	5.1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	120-82-1	5800	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	30000	300000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	5.3	5.3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	36	36	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	95-50-1	180000	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	107-06-2	460	460	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	78-87-5	1600	2500	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	108-67-8	27000	270000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	541-73-1	NSL	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	142-28-9	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	106-46-7	2600	2600	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	594-20-7	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	78-93-3	2700000	27000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	95-49-8	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	591-78-6	NSL	200000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	106-43-4	NSL	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Isopropyltoluene	99-87-6	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	108-10-1	3300000	33000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	67-64-1	6100000	61000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	71-43-2	1200	1200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	108-86-1	NSL	290000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	74-97-5	NSL	150000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	290	290	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	75-25-2	19000	19000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	74-83-9	680	6800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	75-15-0	77000	770000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	56-23-5	650	650	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	108-90-7	28000	280000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	75-00-3	1400000	14000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	67-66-3	320	320	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	74-87-3	11000	110000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	156-59-4	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	10061-01-5	NSL	1800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	124-48-1	8300	8300	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	74-95-3	NSL	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	75-71-8	NSL	87000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorofluoromethane	75-43-4	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	108-20-3	NSL	2200000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl tert-butyl ether (ETBE)	637-92-3	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	100-41-4	5800	5800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	87-68-3	1200	1200	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	98-82-8	190000	1900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
m- & p-Xylenes	179601-23-1	NSL	550000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	1634-04-4	47000	47000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	75-09-2	35000	57000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	91-20-3	3800	3800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	104-51-8	NSL	3900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	103-65-1	NSL	3800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	95-47-6	NSL	650000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	135-98-8	NSL	7800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	100-42-5	600000	6000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl alcohol (TAA)	75-85-4	NSL	82000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Amyl methyl ether (TAME)	994-05-8	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butanol (TBA)	75-65-0	NSL	NSL	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	98-06-6	NSL	7800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	127-18-4	8100	24000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	108-88-3	490000	4900000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	156-60-5	160000	1600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	10061-02-6	NSL	1800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	79-01-6	410	940	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3: Summary of Analytes Detected in Soil/Sediment Samples

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA5 TT-EA5-S-06 9062821-24 6/26/2019	TT-EA5 DUP-4 9062821-27 6/26/2019 TT-EA5-S-06	TT-EA5 TT-EA5-S-07 9062821-25 6/26/2019	TT-EA5 TT-EA5-S-08 9062821-26 6/26/2019	TT-EA6a TT-EA6a-S-01 9062821-28 6/26/2019	TT-EA6a TT-EA6a-S-02 9062821-29 6/26/2019	TT-EA6a TT-EA6a-S-03 9062821-30 6/26/2019	TT-EA6a TT-EA6a-S-04 9062821-31 6/26/2019	TT-EA6b TT-EA6b-S-01 9062821-32 6/26/2019	TT-EA6b TT-EA6b-S-02 9062821-33 6/26/2019	TT-EA6b TT-EA6b-S-03 9062821-34 6/26/2019	TT-EA6b TT-EA6b-S-04 9062821-35 6/26/2019
Trichlorofluoromethane (Freon 11)	75-69-4	NSL	23000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	75-01-4	59	59	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
PAHs (8270D SIM)																
Acenaphthene	83-32-9	360000	3600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	208-96-8	NSL	3600000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	120-12-7	1800000	18000000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	56-55-3	1100	1100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	50-32-8	110	110	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	205-99-2	1100	1100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[ghi]perylene	191-24-2	NSL	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	207-08-9	11000	11000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	218-01-9	110000	110000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo[a,h]anthracene	53-70-3	110	110	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	206-44-0	240000	2400000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	240000	2400000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	193-39-5	1100	1100	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	91-20-3	3800	3800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	85-01-8	180000	3800	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	129-00-0	180000	1800000	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Percent Solids (ASTM D2216-05/SM 2540G)																
Percent Solids		NSL	NSL	%	90	84	83	61	96	90	94	91	86	72	91	90
% Solids		NSL	NSL	%	73.1	75.7	69.7	67.5	95.7	91.2	92.3	90.1	88.2	77.6	91.7	90.9
Hexavalent Chromium (SM 2540G)																
Chromium VI		NSL	NSL	mg/kg	< 0.104 U	< 0.104 U	< 0.119 U	< 0.119 U	< 0.0843 U	< 0.0872 U	< 0.0856 U	< 0.0851 U	< 0.0928 U	< 0.103 U	< 0.0887 U	< 0.0849 U

Notes:
U = Indicates the analyte was not
ug/kg= Micrograms per Kilogram
mg/kg= Milligrams per Kilogram
Maryland Dept. of Environment October 2018 Soil Standards Residential Clean-up Standard
USEPA Regional Screening Level (RSL) for Residential Soil (TR=1E-06, HQ=1) MAY 2019
Cells exceeding the MDE Residential Soil Criteria and or the EPA Regional Screening Level are

**Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)**

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA2a	TT-EA2a	TT-EA2b	TT-EA2b	TT-EA2b	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA5	TT-EA5	TT-EA5	TT-EA5
					TT-EA2a-S-01	TT-EA2a-S-02	TT-EA2b-SD-01	DUP-3	TT-EA2b-SD-02	TT-EA2c-S-01	TT-EA2c-S-02	TT-EA2c-S-03	DUP-2	TT-EA2c-S-04	TT-EA5-S-01	TT-EA5-S-02	TT-EA5-S-03	TT-EA5-S-04
					SE0628007	SE0628008	SE0628009	SE0628024	SE0628010	SE0628011	SE0628012	SE0628013	SE0628023	SE0628014	SE0628015	SE0628016	SE0628017	SE0628018
					6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
TT-EA2b-SD-01																		
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit														
Quintozene (PCNB)	82-68-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Spiroxamine	118134-30-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Tebuconazole	107534-96-3	NSL	NSL	mg/kg	0.087	0.015	0.33	0.274	0.09	< 0.01 U	< 0.01 U	0.024	0.021	0.108	< 0.01 U	< 0.01 U	0.018	
Thiabendazole	148-79-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Thiophanate-Methyl	23564-05-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	0.029	< 0.01 U	0.11	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Triadimefon	43121-43-3	NSL	2100	mg/kg	0.011	< 0.01 U	0.089	0.061	0.038	1.79	0.028	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Trifloxystrobin	141517-21-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Triflumizole	68694-11-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Triticonazole	131983-72-7	NSL	NSL	mg/kg	0.02	< 0.01 U	0.093	0.072	0.032	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Vinclozolin	50471-44-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Glyphosate (EPA 547M)																		
Glyphosate	1071-83-6	630	6300	mg/kg	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	186.16	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	
Herbicides by GC-MS (SIM)/LC-MS/MS																		
Acetochlor	34256-82-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Ametryn	834-12-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Atrazine	1912-24-9	2.4	2.4	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Dacthal	1861-32-1	NSL	630	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Daminozide	1596-84-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Hexazinone	51235-04-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Indaziflam	950782-86-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Metazachlor	67129-08-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Metolachlor	51218-45-2	NSL	9500	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Metribuzin	21087-64-9	NSL	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Norflurazon	27314-13-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Oryzalin	19044-88-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Oxyfluorfen	42874-03-3	NSL	7.4	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Paclobutrazol	76738-62-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Pendimethalin	40487-42-1	NSL	19000	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Prodiamine	29091-21-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Prometon	1610-18-0	NSL	950	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Prometryn	7287-19-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Propazine	139-40-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Propyzamide	23950-58-5	NSL	4700	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Simazine	122-34-9	4.5	4.5	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Sulfentrazone	122836-35-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	0.225	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Terbacil	5902-51-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Topramezone	210631-68-8	NSL	NSL	mg/kg	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	
Trifluralin	1582-09-8	NSL	90	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	0.181	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Trinexapac-Ethyl	95266-40-3	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	
Insecticides by GC-MS (SIM)/LC-MS/MS																		
Abamectin	71751-41-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Acephate	30560-19-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Acetamiprid	135410-20-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Aldicarb	116-06-3	NSL	63	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Aldrin	309-00-2	0.039	0.039	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Bifenazate	149877-41-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Bifenthrin	92880-79-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Buprofezin	69327-76-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Carbaryl	63-25-2	NSL	6300	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Carbofuran	1563-66-2	NSL	320	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Chlorantraniliprole	500008-45-7	NSL	NSL	mg/kg	0.031	0.021	0.036	0.033	< 0.01 U	< 0.01 U	< 0.01 U	0.019	0.015	0.046	0.071	0.048	0.065	
Chlorfenapyr	122453-73-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Chlorpyrifos	2921-88-2	NSL	63	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Chlorpyrifos-Methyl	5598-13-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	
Clofentezine	74115-24-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U		

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID: Sample Name: Lab Sample ID: Sample Date: Parent Sample:					TT-EA2a	TT-EA2a	TT-EA2b	TT-EA2b	TT-EA2b	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA5	TT-EA5	TT-EA5	TT-EA5
					TT-EA2a-S-01	TT-EA2a-S-02	TT-EA2b-SD-01	DUP-3	TT-EA2b-SD-02	TT-EA2c-S-01	TT-EA2c-S-02	TT-EA2c-S-03	DUP-2	TT-EA2c-S-04	TT-EA5-S-01	TT-EA5-S-02	TT-EA5-S-03	TT-EA5-S-04
					SE0628007	SE0628008	SE0628009	SE0628024	SE0628010	SE0628011	SE0628012	SE0628013	SE0628023	SE0628014	SE0628015	SE0628016	SE0628017	SE0628018
					6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
								TT-EA2b-SD-01					TT-EA2c-S-03					
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit														
DDT	50-29-3	1.9	1.9	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Deltamethrin	52918-63-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Diazinon	333-41-5	NSL	44	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dichlorvos	62-73-7	NSL	1.9	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dicofol	115-32-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dieldrin	60-57-1	0.034	0.034	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dimethoate	60-51-5	NSL	140	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dinotefuran	165252-70-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Disulfoton	298-04-4	NSL	2.5	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan Sulfate	1031-07-8	47	380	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan, a-	959-98-8	47	470	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan, b-	33213-65-9	47	470	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endrin	72-20-8	1.9	19	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Esfenvalerate/Fenvalerate	66230-04-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Ethoprophos	13194-48-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Etofenprox	80844-07-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Etoxazole	153233-91-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenoxycarb	72490-01-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenpropathrin	39515-41-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenpyroximate	134098-61-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fensulfothion	14255-72-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenthion	55-38-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fipronil	120068-37-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Flonicamid	158062-67-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fluvalinate, Tau-	69409-94-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
HCH, a-	319-84-6	0.086	0.086	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
HCH, g- (Lindane)	58-89-9	0.57	0.57	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Heptachlor	76-44-8	0.13	0.13	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Heptachlor Epoxide	1024-57-3	0.07	0.07	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Hexythiazox	78587-05-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Imidacloprid	138261-41-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Indoxacarb	173584-44-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Malathion	121-75-5	NSL	1300	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methidathion	950-37-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methiocarb	217-991-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methomyl	16752-77-5	NSL	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoprene	65733-16-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoxychlor, p,p'-	72-43-5	32	320	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoxyfenozide	161050-58-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Mevinphos	7786-34-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
MGK-264	113-48-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Naled	300-76-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Oxamyl	23135-22-0	160	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Parathion-Methyl	298-00-0	NSL	16	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Permethrin	52645-53-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phenothrin	26002-80-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phorate	298-02-2	NSL	13	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phosmet	732-11-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Piperonyl Butoxide	51-03-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	&											

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID:					TT-EA2a	TT-EA2a	TT-EA2b	TT-EA2b	TT-EA2b	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA2c	TT-EA5	TT-EA5	TT-EA5	TT-EA5
Sample Name:					TT-EA2a-S-01	TT-EA2a-S-02	TT-EA2b-SD-01	DUP-3	TT-EA2b-SD-02	TT-EA2c-S-01	TT-EA2c-S-02	TT-EA2c-S-03	DUP-2	TT-EA2c-S-04	TT-EA5-S-01	TT-EA5-S-02	TT-EA5-S-03	TT-EA5-S-04
Lab Sample ID:					SE0628007	SE0628008	SE0628009	SE0628024	SE0628010	SE0628011	SE0628012	SE0628013	SE0628023	SE0628014	SE0628015	SE0628016	SE0628017	SE0628018
Sample Date:					6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/26/2019	6/26/2019	6/26/2019
Parent Sample:								TT-EA2b-SD-01					TT-EA2c-S-03					
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit														
Thiacloprid	111988-49-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Thiamethoxam	153719-23-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
a-Chlordane	57-74-9	NSL	1.7	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
g-Chlordane	5566-34-7	NSL	1.7	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U

Notes:

U = Indicates the analyte was not detected greater than the laboratory reporting limit.
mg/kg= Milligrams per Kilogram

Maryland Dept. of Environment October 2018 Soil Standards Residential Clean-up Standard
USEPA Regional Screening Level (RSL) for Residential Soil (TR=1E-06, HQ=1) MAY 2019

Cells exceeding the MDE Residential Soil Criteria are Bolded

Cells exceeding the EPA Regional Screening Level (RSL) for Residential Soil are shaded gray

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID:					TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA5
Sample Name:					TT-EA5-S-05	TT-EA5-S-06	DUP-4	TT-EA5-S-07	TT-EA5-S-08
Lab Sample ID:					SE0628019	SE0628020	SE0628025	SE0628021	SE0628022
Sample Date:					6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
Parent Sample:							TT-EA5-S-06		
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit					
Acid Herbicides (8150)									
2,4-D	94-75-7	70	700	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Acifluorfen	50594-66-6	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Aminopyralid	150114-71-9	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Clopyralid	1702-17-6	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Cyhalofop	122008-85-9	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Dicamba	1918-00-9	NSL	1900	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Dichlorprop	120-36-5	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Diclofop	51338-27-3	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Fenoxaprop-p	113158-40-0	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Fluazifop-p	79241-46-6	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Fluroxypyr	69377-81-7	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Haloxypop	69806-34-4	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Imazamox	114311-32-9	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Imazapic	104098-48-8	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Imazapyr	81334-34-1	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Imazaquin	81335-37-7	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Imazethapyr	81335-77-5	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Mcpa	94-74-6	NSL	32	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Mecoprop	93-65-2	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Picloram	1918-02-1	NSL	4400	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Quinclorac	84087-01-4	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Quinmerac	90717-03-6	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Quizalofop-p	94051-08-8	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Triclopyr	55335-06-3	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Fungicides by GC-MS (SIM)/LC-MS/MS									
Acequinocyl	57960-19-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Azoxystrobin	131860-33-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Bitertanol	55179-31-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Boscalid	188425-85-6	NSL	NSL	mg/kg	0.084	0.072	0.058	< 0.01 U	0.022
Captan	133-06-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Carbendazim	10605-21-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Chlorothalonil	1897-45-6	NSL	180	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Cyprodinil	121552-61-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Difenoconazole	119446-68	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dimethomorph	110488-70-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Diphenylamine	122-39-4	NSL	6300	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dodemorph	1593-77-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Etridiazole	2593-15-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Famoxadone	131807-57-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenamidone	161326-34-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenarimol	60168-88-9	NSL	NSL	mg/kg	< 0.01 U	0.0124	< 0.01 U	< 0.01 U	< 0.01 U
Fenbuconazole	114369-43-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fluazinam	79622-59-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fludioxonil	131341-86-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fluopyram	658066-35-4	NSL	NSL	mg/kg	0.034	< 0.01 U	0.03	< 0.01 U	0.012
Flutolanil	66332-96-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Flutriafol	76674-21-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fluxapyroxad	907204-31-3	NSL	NSL	mg/kg	0.104	0.061	0.054	< 0.01 U	0.058
Hexachlorobenzene	118-74-1	0.21	0.21	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Imazalil	35554-44-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Iprodione	36734-19-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Kresoxim-Methyl	143390-89-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Mandipropamid	374726-62-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metalaxyl/Mefenoxam	70630-17-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metconazole	125116-23-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metrafenone	220899-03-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Myclobutanil	88671-89-0	NSL	NSL	mg/kg	< 0.01 U	0.016	< 0.01 U	< 0.01 U	< 0.01 U
Penthiopyrad	183675-82-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Propamocarb	24579-73-5	NSL	NSL	mg/kg	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Propiconazole	60207-90-1	NSL	NSL	mg/kg	0.015	0.055	0.026	< 0.01 U	0.01
Pyraclostrobin	175013-18-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pyrimethanil	53112-28-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID:					TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA5
Sample Name:					TT-EA5-S-05	TT-EA5-S-06	DUP-4	TT-EA5-S-07	TT-EA5-S-08
Lab Sample ID:					SE0628019	SE0628020	SE0628025	SE0628021	SE0628022
Sample Date:					6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
Parent Sample:							TT-EA5-S-06		
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit					
Quintozene (PCNB)	82-68-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spiroxamine	118134-30-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Tebuconazole	107534-96-3	NSL	NSL	mg/kg	< 0.01 U	0.061	0.02	< 0.01 U	< 0.01 U
Thiabendazole	148-79-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Thiophanate-Methyl	23564-05-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Triadimefon	43121-43-3	NSL	2100	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Trifloxystrobin	141517-21-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Triflumizole	68694-11-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Triticonazole	131983-72-7	NSL	NSL	mg/kg	< 0.01 U	0.028	< 0.01 U	< 0.01 U	< 0.01 U
Vinclozolin	50471-44-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Glyphosate (EPA 547M)									
Glyphosate	1071-83-6	630	6300	mg/kg	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Herbicides by GC-MS (SIM)/LC-MS/MS									
Acetochlor	34256-82-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Ametryn	834-12-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Atrazine	1912-24-9	2.4	2.4	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dacthal	1861-32-1	NSL	630	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Daminozide	1596-84-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Hexazinone	51235-04-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Indaziflam	950782-86-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metazachlor	67129-08-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metolachlor	51218-45-2	NSL	9500	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Metribuzin	21087-64-9	NSL	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Norflurazon	27314-13-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Oryzalin	19044-88-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Oxyfluorfen	42874-03-3	NSL	7.4	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Paclobutrazol	76738-62-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pendimethalin	40487-42-1	NSL	19000	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Prodimamine	29091-21-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Prometon	1610-18-0	NSL	950	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Prometryn	7287-19-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Propazine	139-40-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Propyzamide	23950-58-5	NSL	4700	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Simazine	122-34-9	4.5	4.5	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Sulfentrazone	122836-35-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Terbacil	5902-51-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Topramezone	210631-68-8	NSL	NSL	mg/kg	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Trifluralin	1582-09-8	NSL	90	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Trinexapac-Ethyl	95266-40-3	NSL	NSL	mg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Insecticides by GC-MS (SIM)/LC-MS/MS									
Abamectin	71751-41-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Acephate	30560-19-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Acetamiprid	135410-20-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Aldicarb	116-06-3	NSL	63	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Aldrin	309-00-2	0.039	0.039	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Bifenazate	149877-41-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Bifenthrin	92880-79-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Buprofezin	69327-76-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Carbaryl	63-25-2	NSL	6300	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Carbofuran	1563-66-2	NSL	320	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Chlorantraniliprole	500008-45-7	NSL	NSL	mg/kg	0.106	0.052	0.04	< 0.01 U	0.014
Chlorfenapyr	122453-73-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Chlorpyrifos	2921-88-2	NSL	63	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Chlorpyrifos-Methyl	5598-13-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Clofentezine	74115-24-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Clothianidin	210880-92-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Coumaphos	56-72-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Cyantraniliprole	736994-63-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Cyfluthrin	68359-37-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Cyhalothrin, Lambda-	76703-65-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Cypermethrin	52315-07-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
DDD	72-54-8	0.19	1.9	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
DDE	72-55-9	2	2	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID:					TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA5
Sample Name:					TT-EA5-S-05	TT-EA5-S-06	DUP-4	TT-EA5-S-07	TT-EA5-S-08
Lab Sample ID:					SE0628019	SE0628020	SE0628025	SE0628021	SE0628022
Sample Date:					6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
Parent Sample:							TT-EA5-S-06		
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit					
DDT	50-29-3	1.9	1.9	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Deltamethrin	52918-63-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Diazinon	333-41-5	NSL	44	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dichlorvos	62-73-7	NSL	1.9	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dicofol	115-32-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dieldrin	60-57-1	0.034	0.034	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dimethoate	60-51-5	NSL	140	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Dinotefuran	165252-70-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Disulfoton	298-04-4	NSL	2.5	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan Sulfate	1031-07-8	47	380	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan, a-	959-98-8	47	470	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endosulfan, b-	33213-65-9	47	470	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Endrin	72-20-8	1.9	19	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Esfenvalerate/Fenvalerate	66230-04-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Ethoprophos	13194-48-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Etofenprox	80844-07-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Etoxazole	153233-91-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenoxycarb	72490-01-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenpropathrin	39515-41-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenpyroximate	134098-61-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fensulfothion	14255-72-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fenthion	55-38-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fipronil	120068-37-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Flonicamid	158062-67-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Fluvalinate, Tau-	69409-94-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
HCH, a-	319-84-6	0.086	0.086	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
HCH, g- (Lindane)	58-89-9	0.57	0.57	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Heptachlor	76-44-8	0.13	0.13	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Heptachlor Epoxide	1024-57-3	0.07	0.07	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Hexythiazox	78587-05-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Imidacloprid	138261-41-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Indoxacarb	173584-44-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Malathion	121-75-5	NSL	1300	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methidathion	950-37-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methiocarb	217-991-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methomyl	16752-77-5	NSL	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoprene	65733-16-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoxychlor, p,p'-	72-43-5	32	320	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Methoxyfenozide	161050-58-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Mevinphos	7786-34-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
MGK-264	113-48-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Naled	300-76-5	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Oxamyl	23135-22-0	160	1600	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Parathion-Methyl	298-00-0	NSL	16	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Permethrin	52645-53-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phenothrin	26002-80-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phorate	298-02-2	NSL	13	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Phosmet	732-11-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Piperonyl Butoxide	51-03-6	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pirimicarb	23103-98-2	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pyrethrin	8003-34-7	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pyridaben	96489-71-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Pyriproxyfen	95737-68-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Resmethrin	10453-86-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spinetoram	187166-40-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spinosad	168316-95-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spirodiclofen	148477-71-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spiromesifen	283594-90-1	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Spirotetramat	203312-38-3	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Tebufoenozide	112410-23-8	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Tetrachlorvinphos	22248-79-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Tetradifon	116-29-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Tetramethrin	7696-12-0	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U

Table 4-4 Summary of Analytes Detected in Soil/Sediment Samples
(Brookside Laboratories Agricultural Chemicals)

Location ID:					TT-EA5	TT-EA5	TT-EA5	TT-EA5	TT-EA5
Sample Name:					TT-EA5-S-05	TT-EA5-S-06	DUP-4	TT-EA5-S-07	TT-EA5-S-08
Lab Sample ID:					SE0628019	SE0628020	SE0628025	SE0628021	SE0628022
Sample Date:					6/26/2019	6/26/2019	6/26/2019	6/26/2019	6/26/2019
Parent Sample:							TT-EA5-S-06		
Analyte	Cas #	MDE Residential Soil Standard	EPA RSL Residential Soil	Unit					
Thiacloprid	111988-49-9	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
Thiamethoxam	153719-23-4	NSL	NSL	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
a-Chlordane	57-74-9	NSL	1.7	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
g-Chlordane	5566-34-7	NSL	1.7	mg/kg	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U

Notes:

U = Indicates the analyte was not detected greater than the laboratory reporting limit.

mg/kg= Milligrams per Kilogram

Maryland Dept. of Environment October 2018 Soil Standards Residential Clean-up Standard

USEPA Regional Screening Level (RSL) for Residential Soil (TR=1E-06, HQ=1) MAY 2019

Cells exceeding the MDE Residential Soil Criteria are Bolded

Cells exceeding the EPA Regional Screening Level (RSL) for Residential Soil are shaded gray

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TABLE 5-1
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
PHASE II ESA - SOIL
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil, Air
Exposure Point: Chase Lands

Chemical of Potential Concern	Units	Mean Detected Concentration	95% UCLM	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Metals									
Arsenic	mg/kg	3.09E+00	3.58E+00	7.63E+00		mg/kg	3.58E+00	95%UCLM-N	ProUCL

Note: Statistics calculated by the EPA program ProUCL.

95%UCLM-N indicates that the 95 percent upper confidence limit on the mean is based on the student's t-test for normal distributions.

TABLE 5-2
VALUES USED FOR RECREATIONAL USER (ELEMENTARY SCHOOL AGED CHILD) DAILY TOTAL SOIL INTAKE EQUATIONS
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future Medium: Soil Exposure Medium: Soil, Air Exposure Point: 6100 North Marshalee Drive, Elkridge, MD Receptor Population: Recreational User Receptor Age: Elementary Child (5 to 11 years)

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation / Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	Chronic Daily Intake (CDI) (mg/kg/day) = $CS \times CR \times EF \times ED \times CF / (BW \times AT)$
	CR	Ingestion Rate	mg/day	100	U.S. EPA 2011	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	6	BPJ (1)	
	BW	Body Weight	kg	32	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	2,190	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
Dermal	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	CDI (mg/kg/day) = $CS \times SA \times AF \times ABS \times EF \times ED \times CF / (BW \times AT)$
	SA	Surface Area for Contact	cm ² /event	3,734	U.S. EPA 2011 (2)	
	AF	Adherence Factor	mg/cm ²	0.2	U.S. EPA 2004 (3)	
	EF	Exposure Frequency	event/yr	250	MDE 2018	
	ED	Exposure Duration	yr	6	BPJ (1)	
	BW	Body Weight	kg	32	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	2,190	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
	ABS	Dermal Absorption Fraction	unitless	Chemical-Specific	U.S. EPA 2004 (4)	
Inhalation	CA	Chemical Concentration in Air	mg/m ³	Chemical-Specific	Chemical-Specific	Exposure Concentration (µg/m ³ or mg/m ³) = $CA \times CF_1 \times ET \times EF \times ED / AT \times CF_2$ Note: CF ₁ only used in carcinogenic intake calculations
	CF ₁	Conversion Factor	µg/mg	1,000	U.S. EPA 2009	
	ET	Exposure Time	hr/day	8	U.S. EPA 2009	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	6	BPJ (1)	
	BW	Body Weight	kg	32	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	2,190	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF ₂	Conversion Factor	hour/day	24	U.S. EPA 2009	

- (1) Exposure duration assumed for an elementary school child based upon grade level of K-5th grade (approximate age range of 5 years to 11 years).
 (2) Taken from Tables 7-2 and 7-8 of U.S. EPA 2011, weighted average of mean values for head, hands, forearms, lower legs, and feet for male and females birth to less than 6 years of age.
 (3) Taken from Exhibit 3-4 of USEPA 2004.
 (4) Taken from Exhibit 3-4 of USEPA 2004.

BPJ = Best Professional Judgment

U.S. EPA = United States Environmental Protection Agency

CDI = chronic daily intake

mg/kg = milligrams per kilogram

kg/mg = kilograms per milligram

mg/cm² = milligrams per square centimeter

mg/day = milligrams per day

day/yr = days per year

RME = Reasonable Maximum Exposure

mg/m³ = milligram per cubic meter

µg/m³ = micrograms per cubic meter

cm²/event = square centimeters per event

µg/mg = microgram per milligram

kg = kilogram

hr/day = hours per day

TABLE 5-3
VALUES USED FOR RECREATIONAL USER (MIDDLE SCHOOL AGED CHILD) DAILY TOTAL SOIL INTAKE EQUATIONS
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil, Air
Exposure Point: 6100 North Marshalee Drive, Elkridge, MD
Receptor Population: Recreational User
Receptor Age: Middle School Child (11 to 14 years)

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation / Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$CDI \text{ (mg/kg/day)} = \frac{CS \times CR \times EF \times ED \times CF}{(BW \times AT)}$
	CR	Ingestion Rate	mg/day	100	U.S. EPA 2011	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	3	BPJ (1)	
	BW	Body Weight	kg	57	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,095	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
Dermal	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$CDI \text{ (mg/kg/day)} = \frac{CS \times SA \times AF \times ABS \times EF \times ED \times CF}{(BW \times AT)}$
	SA	Surface Area for Contact	cm ² /event	5,307	U.S. EPA 2011 (2)	
	AF	Adherence Factor	mg/cm ²	0.2	U.S. EPA 2004 (3)	
	EF	Exposure Frequency	event/yr	250	MDE 2018	
	ED	Exposure Duration	yr	3	BPJ (1)	
	BW	Body Weight	kg	57	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,095	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
	ABS	Dermal Absorption Fraction	unitless	Chemical-Specific	U.S. EPA 2004 (4)	
Inhalation	CA	Chemical Concentration in Air	mg/m ³	Chemical-Specific	Chemical-Specific	$\text{Exposure Concentration } (\mu\text{g/m}^3 \text{ or mg/m}^3) = \frac{CA \times CF_1 \times ET \times EF \times ED}{AT \times CF_2}$ Note: CF₁ only used in carcinogenic intake calculations
	CF ₁	Conversion Factor	μg/mg	1,000	U.S. EPA 2009	
	ET	Exposure Time	hr/day	8	U.S. EPA 2009	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	3	BPJ (1)	
	BW	Body Weight	kg	57	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,095	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF ₂	Conversion Factor	hour/day	24	U.S. EPA 2009	

(1) Exposure duration assumed for an middle school child based upon grade level of 6th-8th grade (approximate age range of 11 years to 14 years).

(2) Taken from Tables 7-2 and 7-8 of U.S. EPA 2011, weighted average of mean values for head, hands, forearms, lower legs, and feet for male and females birth to less than 6 years of age.

(3) Taken from Exhibit 3-3 of USEPA 2004 assuming a child playing in dry soil ages 8 to 12 years.

(4) Taken from Exhibit 3-4 of USEPA 2004.

U.S. EPA = United States Environmental Protection Agency

CDI = chronic daily intake

mg/kg = milligrams per kilogram

kg/mg = kilograms per milligram

mg/cm² = milligrams per square centimeter

mg/day = milligrams per day

day/yr = days per year

RME = Reasonable Maximum Exposure

mg/m³ = milligram per cubic meter

μg/m³ = micrograms per cubic meter

cm²/event = square centimeters per event

μg/mg = microgram per milligram

kg = kilogram

hr/day = hours per day

**TABLE 5-4
VALUES USED FOR RECREATIONAL USER (HIGH SCHOOL AGED CHILD) DAILY TOTAL SOIL INTAKE EQUATIONS
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND**

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil, Air
Exposure Point: 6100 North Marshalee Drive, Elkridge, MD
Receptor Population: Recreational User
Receptor Age: High School Child (14 to 18 years)

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation / Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$CDI \text{ (mg/kg/day)} = \frac{CS \times CR \times EF \times ED \times CF}{(BW \times AT)}$
	CR	Ingestion Rate	mg/day	100	U.S. EPA 2011	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	4	BPJ (1)	
	BW	Body Weight	kg	64	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,460	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
Dermal	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$CDI \text{ (mg/kg/day)} = \frac{CS \times SA \times AF \times ABS \times EF \times ED \times CF}{(BW \times AT)}$
	SA	Surface Area for Contact	cm ² /event	5,561	U.S. EPA 2011 (2)	
	AF	Adherence Factor	mg/cm ²	0.2	U.S. EPA 2004 (3)	
	EF	Exposure Frequency	event/yr	250	MDE 2018	
	ED	Exposure Duration	yr	4	BPJ (1)	
	BW	Body Weight	kg	64	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,460	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
	ABS	Dermal Absorption Fraction	unitless	Chemical-Specific	U.S. EPA 2004 (4)	
Inhalation	CA	Chemical Concentration in Air	mg/m ³	Chemical-Specific	Chemical-Specific	$\text{Exposure Concentration } (\mu\text{g}/\text{m}^3 \text{ or } \text{mg}/\text{m}^3) = \frac{CA \times CF_1 \times ET \times EF \times ED}{AT \times CF_2}$ Note: CF₁ only used in carcinogenic intake calculations
	CF ₁	Conversion Factor	μg/mg	1,000	U.S. EPA 2009	
	ET	Exposure Time	hr/day	8	U.S. EPA 2009	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	4	BPJ (1)	
	BW	Body Weight	kg	64	U.S. EPA 2011	
	AT-NC	Averaging time - Noncancer	days	1,460	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF ₂	Conversion Factor	hour/day	24	U.S. EPA 2009	

(1) Exposure duration assumed for an high school child based upon grade level of 9th-12th grade (approximate age range of 14 years to 18 years).

(2) Taken from Tables 7-2 and 7-8 of U.S. EPA 2011, weighted average of mean values for head, hands, forearms, lower legs, and feet for male and females birth to less than 6 years of age.

(3) Taken from Exhibit 3-3 of USEPA 2004 assuming a child playing in dry soil ages 8 to 12 years.

(4) Taken from Exhibit 3-4 of USEPA 2004.

U.S. EPA = United States Environmental Protection Agency

CDI = chronic daily intake

mg/kg = milligrams per kilogram

kg/mg = kilograms per milligram

mg/cm² = milligrams per square centimeter

mg/day = milligrams per day

day/yr = days per year

RME = Reasonable Maximum Exposure

mg/m³ = milligram per cubic meter

μg/m³ = micrograms per cubic meter

cm²/event = square centimeters per event

μg/mg = microgram per milligram

kg = kilogram

hr/day = hours per day

TABLE 5-5
VALUES USED FOR OFFICE/COMMERCIAL WORKER DAILY SURFACE SOIL INTAKE EQUATIONS
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future Medium: Soil Exposure Medium: Soil, Air Exposure Point: 6100 North Marshalee Drive, Elkridge, MD Receptor Population: Recreational User Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation / Model Name
Ingestion	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$\text{CDI (mg/kg/day)} = \frac{\text{CS} \times \text{CR} \times \text{EF} \times \text{ED} \times \text{CF}}{(\text{BW} \times \text{AT})}$
	CR	Ingestion Rate	mg/day	100	U.S. EPA 2011	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	20	U.S. EPA 2019	
	BW	Body Weight	kg	80	U.S. EPA 2014	
	AT-NC	Averaging time - Noncancer	days	7,300	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
Dermal	CS	Chemical Concentration in Soil	mg/kg	Chemical-Specific	Chemical-Specific	$\text{CDI (mg/kg/day)} = \frac{\text{CS} \times \text{SA} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED} \times \text{CF}}{(\text{BW} \times \text{AT})}$
	SA	Surface Area for Contact	cm ² /event	6,032	U.S. EPA 2011, 2019 (1)	
	AF	Adherence Factor	mg/cm ²	0.07	U.S. EPA 2004 (1)	
	EF	Exposure Frequency	event/yr	250	MDE 2018	
	ED	Exposure Duration	yr	20	U.S. EPA 2019	
	BW	Body Weight	kg	80	U.S. EPA 2014	
	AT-NC	Averaging time - Noncancer	days	7,300	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF	Conversion Factor	kg/mg	1.0E-06	U.S. EPA 1989	
Inhalation	ABS	Dermal Absorption Fraction	unitless	Chemical-Specific	U.S. EPA 2004 (2)	
	CA	Chemical Concentration in Air	mg/m ³	Chemical-Specific	Chemical-Specific	$\text{Exposure Concentration (}\mu\text{g/m}^3\text{)} = \frac{\text{CA} \times \text{CF}_1 \times \text{ET} \times \text{EF} \times \text{ED}}{\text{AT} \times \text{CF}_2}$
	CF ₁	Conversion Factor	μg/mg	1,000	U.S. EPA 2009	
	ET	Exposure Time	hr/day	8	U.S. EPA 2009	
	EF	Exposure Frequency	day/yr	250	MDE 2018	
	ED	Exposure Duration	yr	20	U.S. EPA 2019	
	BW	Body Weight	kg	80	U.S. EPA 2014	
	AT-NC	Averaging time - Noncancer	days	7,300	U.S. EPA 1989	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA 1989	
	CF ₂	Conversion Factor	hour/day	24	U.S. EPA 2009	

(1) Taken from Tables 7-2 and 7-12, weighted average of mean values for head, hands, forearms, lower legs, and feet for male and female older than 21 years of age.

(2) Taken from Exhibit 3-4 of USEPA 2004.

U.S. EPA = United States Environmental Protection Agency

CDI = chronic daily intake

mg/kg = milligrams per kilogram

kg/mg = kilograms per milligram

mg/cm² = milligrams per square centimeter

mg/day = milligrams per day

day/yr = days per year

RME = Reasonable Maximum Exposure

mg/m³ = milligram per cubic meter

μg/m³ = micrograms per cubic meter

cm²/event = square centimeters per event

μg/mg = microgram per milligram

kg = kilogram

hr/day = hours per day

TABLE 5-6
NON-CANCER TOXICITY DATA - ORAL/DERMAL
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Constituents of Potential Concern	Chronic/ Subchronic	Oral RfD Value (mg/kg-day)	Oral to Dermal Adjustment Factor (GI ABS) ⁽¹⁾	Adjusted Dermal RfD ⁽²⁾ (mg/kg bw-day)	Primary Target Organ	Combined Uncertainty/ Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ ⁽³⁾ (mm/dd/yy)
Inorganics								
ARSENIC	Chronic	3.0E-04	1	3.0E-04	Skin, Cardiovascular	3/1	IRIS	7/31/2019

RfD = Reference Dose

mg/kg bw-day = milligram per kilogram body weight-day

GI ABS = Gastrointestinal Absorption Fraction

(1) Taken from USEPA 2004 Guidance.

(2) Dermal toxicological values adjusted from oral values using USEPA 2004 recommended chemical-specific gastrointestinal absorption factors (GI ABS). RfDs are multiplied by the GI ABS.

(3) IRIS - Integrated Risk Information System. For IRIS values, the date IRIS was searched is provided. Available at: <http://www.epa.gov/iris/>

TABLE 5-7
NON-CANCER TOXICITY DATA - INHALATION
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Constituents of Potential Concern	Chronic/ Subchronic	Value Inhalation (RfC) (mg/m ³)	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfC Target Organ	Dates ⁽¹⁾ (mm/dd/yy)
Inorganics						
ARSENIC	Chronic	1.5E-05	Cardiovascular System	30/1	CalEPA	7/31/2019

RfC = Reference Concentration

mg/m³ = milligrams per cubic meter

(1) CalEPA - California Environmental Protection Agency. For CalEPA values, the date searched is provided.

TABLE 5-8
CANCER TOXICITY DATA - ORAL/DERMAL
6100 NORTH MARSHALEE DRIVE, ELK RIDGE, MARYLAND

Constituents of Potential Concern	Oral Cancer Slope Factor	Oral to Dermal Adjustment Factor (GI ABS) ⁽¹⁾	Absorbed Cancer Slope Factor for Dermal ⁽²⁾	Units	Weight of Evidence/Cancer Guideline Description	Mutagenic Compound	Source	Date ⁽³⁾ (mm/dd/yy)
Inorganics								
ARSENIC	1.5E+00	1	1.5E+00	per (mg/kg-day)	A		IRIS	7/31/2019

NA = Not Available

mg/kg-day = milligram per kilogram-day

GI ABS = Gastrointestinal Absorption Fraction

(1) Taken from USEPA 2004 Guidance.

(2) Dermal Toxicological values adjusted from oral values using USEPA 2004 recommended chemical-specific gastrointestinal absorption factors (GI ABS). Cancer slope factors are divided by the GI ABS.

(3) IRIS - Integrated Risk Information System. For IRIS values, the date IRIS was searched is provided.

Available at: <http://www.epa.gov/iris/>

Weight of Evidence: A - Known human carcinogen

B1 - Probable human carcinogen -

indicate that limited human data are available

B2 - Probable human carcinogen -

indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

TABLE 5-9
CANCER TOXICITY DATA - INHALATION
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Constituents of Potential Concern	Unit Risk		Weight of Evidence/Cancer Guideline Description	Mutagenic	Unit Risk	
	Value	Units			Source	Date ⁽¹⁾
Inorganics						
ARSENIC	4.3E-03	(ug/m ³) ⁻¹	A		IRIS	7/31/2019

NA = Not Available

(1) IRIS - Integrated Risk Information System. For IRIS values, the date IRIS was searched is provided. Available at: <http://www.epa.gov/iris/>

Weight of Evidence: A - Known human carcinogen
 B1 - Probable human carcinogen - indicate that limited human data are available
 B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
 C - Possible human carcinogen
 D - Not classifiable as a human carcinogen
 E - Evidence of noncarcinogenicity

TABLE 5-10
CHEMICAL-SPECIFIC PARAMETERS FOR DERMAL CONTACT
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Constituents of Potential Concern	Absorption Factor	Reference	GI ABS	Reference
Inorganics				
ARSENIC	0.03	U.S. EPA, 2004	1	U.S. EPA, 2004

NA = Data not available.

GI ABS = Gastrointestinal Absorption Fraction

U.S. EPA, 2004 = U.S. Environmental Protection Agency, 2004. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment).* Final Guidance.

TABLE 5-11
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER
HAZARDS REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Elementary School Age Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations							
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient			
							Value	Units	Value	Units		Value	Units	Value	Units				
Soil	Surface Soil	Timbers at Troy	Ingestion	Inorganics	3.58E+00	(mg/kg)	3.97E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	5.9E-07	4.63E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	1.5E-02			
			Exp. Route Total							5.9E-07					1.5E-02				
			Dermal	Inorganics	3.58E+00	(mg/kg)	1.48E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	2.2E-07	1.73E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	5.8E-03			
			Exp. Route Total							2.2E-07					5.8E-03				
		Exposure Point Total							8.2E-07					2.1E-02					
		Exposure Medium Total							8.2E-07					2.1E-02					
	Air	Timbers at Troy	Inhalation	Inorganics	4.59E-08	(mg/m³)	8.98E-07	(ug/m³)	4.3E-03	per (ug/m³)	3.9E-09	1.05E-08	(mg/m³)	1.5E-05	(mg/m³)	7.0E-04			
			Exp. Route Total							3.9E-09					7.0E-04				
		Exposure Point Total							3.9E-09					7.0E-04					
		Exposure Medium Total							3.9E-09					7.0E-04					
	Soil Total												8.2E-07					2.2E-02	
								Total of Receptor Risks Across All Media					8.2E-07	Total of Receptor Hazards Across All Media					2.2E-02

EPC = Exposure Point Concentration
CSF = Cancer Slope Factor
RfD = Reference Dose
RfC = Reference Concentration

TABLE 5-12
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER
HAZARDS REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Middle School Age Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Soil	Surface Soil	Timbers at Troy	Ingestion	Inorganics ARSENIC	3.58E+00	(mg/kg)	1.11E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	1.7E-07	2.59E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	8.6E-03	
			Exp. Route Total														
			Dermal	Inorganics ARSENIC	3.58E+00	(mg/kg)	5.89E-08	(mg/kg-day)	1.5E+00	per (mg/kg-day)	8.8E-08	1.37E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	4.6E-03	
			Exp. Route Total														
		Exposure Point Total															
		Exposure Medium Total															
	Air	Timbers at Troy	Inhalation	Inorganics ARSENIC	4.59E-08	(mg/m³)	4.49E-07	(ug/m³)	4.3E-03	per (ug/m³)	1.9E-09	1.05E-08	(mg/m³)	1.5E-05	(mg/m³)	7.0E-04	
			Exp. Route Total														
			Exposure Point Total														
			Exposure Medium Total														
		Soil Total															
		Total of Receptor Risks Across All Media															

EPC = Exposure Point Concentration
CSF = Cancer Slope Factor
RfD = Reference Dose
RfC = Reference Concentration

TABLE 5-13
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER
HAZARDS REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: High School Aged Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient	
							Value	Units	Value	Units		Value	Units	Value	Units		
Soil	Surface Soil	Timbers at Troy	Ingestion	Inorganics ARSENIC	3.58E+00	(mg/kg)	1.31E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	2.0E-07	2.29E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	7.6E-03	
			Exp. Route Total										2.0E-07				7.6E-03
			Dermal ¹	Inorganics ARSENIC	3.58E+00	(mg/kg)	7.28E-08	(mg/kg-day)	1.5E+00	per (mg/kg-day)	1.1E-07	1.27E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	4.2E-03	
			Exp. Route Total										1.1E-07				4.2E-03
		Exposure Point Total										3.1E-07				1.2E-02	
		Exposure Medium Total										3.1E-07				1.2E-02	
	Air	Timbers at Troy	Inhalation	Inorganics ARSENIC	4.59E-08	(mg/m ³)	5.99E-07	(ug/m ³)	4.3E-03	per (ug/m ³)	2.6E-09	1.05E-08	(mg/m ³)	1.5E-05	(mg/m ³)	7.0E-04	
			Exp. Route Total										2.6E-09				7.0E-04
			Exposure Point Total										2.6E-09				7.0E-04
			Exposure Medium Total										2.6E-09				7.0E-04
	Soil Total											3.1E-07				1.3E-02	
								Total of Receptor Risks Across All Media				3.1E-07	Total of Receptor Hazards Across All Media				1.3E-02

1) Dermal intake is "NA" due to no published dermal absorption factor. Please see Table D.5.3 and U.S. EPA 2004 guidance.

EPC = Exposure Point Concentration

CSF = Cancer Slope Factor

RfD = Reference Dose

RfC = Reference Concentration

TABLE 5-14
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER
HAZARDS REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Constituent of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient ¹	
							Value	Units	Value	Units		Value	Units	Value	Units		
Soil	Surface Soil	Timbers at Troy	Ingestion	Inorganics ARSENIC	3.58E+00	(mg/kg)	5.25E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	7.9E-07	1.84E-06	(mg/kg-day)	3.0E-04	(mg/kg-day)	6.1E-03	
			Exp. Route Total					7.9E-07					6.1E-03				
			Dermal ²	Inorganics ARSENIC	3.58E+00	(mg/kg)	1.11E-07	(mg/kg-day)	1.5E+00	per (mg/kg-day)	1.7E-07	3.88E-07	(mg/kg-day)	3.0E-04	(mg/kg-day)	1.3E-03	
			Exp. Route Total					1.7E-07					1.3E-03				
			Exposure Point Total					9.5E-07					7.4E-03				
			Exposure Medium Total					9.5E-07					7.4E-03				
	Air		Timbers at Troy	Inhalation	Inorganics ARSENIC	4.59E-08	(mg/m ³)	2.99E-06	(ug/m ³)	4.3E-03	per (ug/m ³)	1.3E-08	1.05E-08	(ug/m ³)	1.5E-05	(mg/m ³)	7.0E-04
				Exp. Route Total					1.3E-08					7.0E-04			
		Exposure Point Total					1.3E-08					7.0E-04					
		Exposure Medium Total					1.3E-08					7.0E-04					
	Soil Total							9.7E-07					8.1E-03				
	Total of Receptor Risks Across All Media							9.7E-07					Total of Receptor Hazards Across All Media			8.1E-03	

1) Inhalation Hazard Quotient = EC (µg/m³) / (RfC (mg/m³) x 1000 µg/mg). (USEPA RAGS Part F, Inhalation (2009))

2) Dermal intake is "NA" due to no published dermal absorption factor. Please see Table 5.1.3 and U.S. EPA 2004 guidance

EPC = Exposure Point Concentration

CSF = Cancer Slope Factor

RfD = Reference Dose

RfC = Reference Concentration

TABLE 5-15
CALCULATIONS OF AIR CONCENTRATIONS DUE TO DUST ENTRAINMENT FROM
SOIL 6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Model Equations:				
Particulate Emmision Factor $PEF = Q/C \times [(3,600 \text{ s/h})/ (.36 \times (1- V) \times (Um/Ut)^3 \times F(x))]$ = 7.80E+07 Air Concentration $C_{air} = C_{soil}/PEF$				
Where,	$Q/C =$	9.02E+01 g/m ² -s per kg/m ³	Inverse Mean Concentration at Center of 0.05 square source for Philadelphia PA, USEPA 1996	
	$V =$	5.00E-01 unitless	Default, USEPA 2019	
	$Um =$	4.69E+00 m/s	Mean annual wind speed, USEPA 2019	
	$Ut =$	1.13E+01 m/s	Equivalent threshold value of windspeed at 7 m, USEPA 2019	
	$F(x) =$	1.94E-01 unitless	Default, USEPA 2019	
Reference for the model:				
USEPA 1996. <i>USEPA Soil Screening Guidance: Technical Background Document</i> . Office of Emergency and Remedial Response.				
USEPA 2019. <i>Regional Screening Level, User's Guide</i> . Available at: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/usersguide.htm .				
Chemical	Csoil, Surface Soil		Cair, Surface Soil	
	RME EPC		Particulate	
	mg/kg		RME EPC	
			mg/m ³	
Inorganics				
ARSENIC	3.58E+00		4.59E-08	

TABLE 5-16
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR
COPCs REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Location: Timbers at Troy
Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Elementary School Aged Child (5 to 11 years)

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total		
Soil	Surface Soil	Timbers at Troy	Inorganics					Inorganics							
			ARSENIC	5.9E-07	2.2E-07	3.9E-09	8.2E-07	ARSENIC	Skin, Cardiovascular	1.5E-02	5.8E-03	7.0E-04	2.2E-02		
			(Total)	5.9E-07	2.2E-07	3.9E-09	8.2E-07	(Total)	1.5E-02	5.8E-03	7.0E-04	2.2E-02			
Total Risk Across Surface Soil				8.2E-07			Total Hazard Index Across Surface Soil						2.2E-02		
Total Risk Across All Media and All Exposure Routes							8E-07		Total Hazard Index Across All Media and All Exposure Routes						0.02

TABLE 5-17
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR
COPCs REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Location: Timbers at Troy
Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Middle School Aged Child (11 to 14 years)

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient					
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total	
Soil	Surface Soil	Timbers at Troy	Inorganics					Inorganics						
			ARSENIC	1.7E-07	8.8E-08	1.9E-09	2.6E-07	ARSENIC	Skin, Cardiovascular	8.6E-03	4.6E-03	7.0E-04	1.4E-02	
			(Total)	1.7E-07	8.8E-08	1.9E-09	2.6E-07		(Total)	8.6E-03	4.6E-03	7.0E-04	1.4E-02	
Total Risk Across Surface Soil				2.6E-07			Total Hazard Index Across Surface Soil						1.4E-02	
Total Risk Across All Media and All Exposure Routes							3E-07	Total Hazard Index Across All Media and All Exposure Routes						0.01

TABLE 5-18
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Location: Timbers at Troy
Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: High School Aged Child (14 to 18 years)

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Soil	Surface Soil	Timbers at Troy	Inorganics					Inorganics					
			ARSENIC	2.0E-07	1.1E-07	2.6E-09	3.1E-07	ARSENIC	Skin, Cardiovascular	7.6E-03	4.2E-03	7.0E-04	1.3E-02
			(Total)	2.0E-07	1.1E-07	2.6E-09	3.1E-07		(Total)	7.6E-03	4.2E-03	7.0E-04	1.3E-02
Total Risk Across Surface Soil				3.1E-07			Total Hazard Index Across Surface Soil						1.3E-02
Total Risk Across All Media and All Exposure Routes				3E-07			Total Hazard Index Across All Media and All Exposure Routes						0.01

TABLE 5-19
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR
COPCs REASONABLE MAXIMUM EXPOSURE
6100 NORTH MARSHALEE DRIVE, ELKRIDGE, MARYLAND

Location: Timbers at Troy
Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Adult (>18 years)

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Soil	Surface Soil	Timbers at Troy	Inorganics					Inorganics					
			ARSENIC	7.9E-07	1.7E-07	1.3E-08	9.7E-07	ARSENIC	Skin, Cardiovascular	6.1E-03	1.3E-03	7.0E-04	8.1E-03
			(Total)	7.9E-07	1.7E-07	1.3E-08	9.7E-07	(Total)	6.1E-03	1.3E-03	7.0E-04	8.1E-03	
Total Risk Across Surface Soil				9.7E-07				Total Hazard Index Across Surface Soil					8.1E-03
Total Risk Across All Media and All Exposure Routes				1E-06				Total Hazard Index Across All Media and All Exposure Routes					0.008

NA = Not applicable due to no toxicity values.

-- = No risks calculated for this exposure pathway.

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Appendix C

Standard Operating Procedures

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Standard Operating Procedure No. 025 for Soil Sampling

Prepared by

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Revision 0
December 2014

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1. SCOPE AND APPLICATION

The purpose of this Standard Operating Procedure is to delineate protocols for sampling surface and subsurface soils. Soil samples give an indication of the area and depth of site contamination, so a representative sample is very important.

2. MATERIALS

The following materials may be required:

Bucket auger or push tube sampler	Split-spoon, Shelby tube, or core barrel sampler
Drill rig and associated equipment	Stainless steel bowl
Personal protective equipment as required by the Health and Safety Plan	Stainless steel spoon, trowel, knife, spatula (as needed)

3. PROCEDURE

3.1 SUBSURFACE SAMPLES

Don personal protective equipment. Collect split-spoon, core barrel, or Shelby Tube samples during drilling. Upon opening sampler, or extruding sample, immediately screen soil for volatile organic compounds using either a photoionization detector or flame ionization detector. If sampling for volatile organic compounds, determining the area of highest concentration, use a stainless steel knife, trowel, or laboratory spatula to peel and sample this area. Log the sample in the Field Logbook while it is still in the sampler. Peel and transfer the remaining sample in a decontaminated stainless steel bowl. Mix thoroughly with a decontaminated stainless steel spoon or trowel. Place the sample into the required number of sample jars. Preserve samples as required. Discard any remaining sample into the drums being used for collection of cuttings. Decon sampling implements. All borings will be abandoned.

NOTE: If sample recoveries are poor, it may be necessary to composite samples before placing them in jars. In this case, the procedure will be the same, except that two split-spoon samples will be mixed together. The Field Logbook should clearly state that the samples have been composited, which samples were composited, and why the compositing was done.

Samples taken for geotechnical analysis will be undisturbed samples, collected using a thin-walled (Shelby tube) sampler.

3.2 SURFICIAL SOIL SAMPLES

Don personal protective equipment. Remove vegetative mat. Collect a sample from under the vegetative mat with a stainless steel trowel, push tube sampler, or bucket auger. If a representative sample is desired over the depth of a shallow hole or if several shallow samples are to be taken to represent an area, composite as follows:

- As each sample is collected, place a standard volume in a stainless steel bowl.
- After all samples from each hole or area are in the bucket, homogenize the sample thoroughly with a decontaminated stainless steel spoon or spatula.

If no compositing is to occur, place sample directly into the sample jars. Place the leftover soil in the auger borings and holes left by sampling. If necessary, add clean sand to bring the subsampling areas back to original grade. Replace the vegetative mat over the disturbed areas. Samples for volatile organic compounds will not be composited. A separate sample will be taken from a central location of the area being composited and transferred directly from the sampler to the sample container. Preserve samples as required. Decon sampling implements.

4. MAINTENANCE

Not applicable.

5. PRECAUTIONS

Refer to the Health and Safety Plan.

Soil samples will not include vegetative matter, rocks, or pebbles, unless the latter are part of the overall soil matrix.

6. REFERENCES

ASTM International. Method D1586-84, Penetration Test and Split-Barrel Sampling of Soils.

———. Method D1587-83, Thin Walled Sampling of Soils.

Department of the Army, Office of the Chief of Engineers. 1972. Engineer Manual 1110-2-1907 Soil Sampling. 31 March.



Standard Operating Procedure No. 021 for Sediment Sampling

Prepared by

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Revision: 2
March 2019

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PROJECT-SPECIFIC VARIANCE FORM

This form is to be completed to indicate if there are any client-, project-, or site-specific variances to this Standard Operating Procedure (SOP) (**also check Box A**), or if this SOP is being used with no changes (**only check Box B**).

- ☐ A. Variances required; cite section(s) of the SOP to which there is a variance
- ☐ B. No variances

[illegible]

Project Manager (Name)

Project Manager (Signature)

Date

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DOCUMENT REVISION HISTORY

ORIGINAL (MASTER) DOCUMENT REVISION HISTORY				
Revision Number	Revision Date	Revision Summary	Revised By	Reviewed By
2	28 March 2019	Systematic review and update	Caryn Kiehl-Simpson Peggy Derrick	Matthew Bowman

1. SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) delineates protocols for sampling sediments from streams, rivers, ditches, lakes, ponds, lagoons, and marine and estuarine systems.

EA recognizes that other protocols have been developed that meet the criteria of quality and reproducibility. Clients may have their own sediment sampling protocols, which may contain methodologies and procedures that address unique or unusual site-specific conditions or may be in response to local regulatory agency requirements. In such cases, EA will compare its and the client's protocols. The goal is to provide the client with the most quality; therefore, if the client's protocols provide as much or more quality assurance than EA's protocols for the particular site or project, EA will adopt those particular protocols and this SOP will be superseded in those respects. If EA is required to implement the client's protocols in lieu of EA's protocols, EA will make the client formally aware of any concerns regarding differences in protocols that might affect data quality and will document such concerns in the project file.

2. PROCEDURES

The water content of sediment varies. Sediments range from soft to dense and fine to rocky. A variety of equipment may be necessary to obtain representative samples, even at a single site. Factors to consider in selecting the appropriate sampling equipment include sample location (edge or middle of the waterbody), depth of water and sediment, grain size, water velocity, and analytes of interest.

3. GENERAL PROCEDURES

1. All samples must be handled in a manner that satisfies the project Quality Assurance Project Plan, SOPs, and data quality objectives. Prior to a field effort, verify general sample requirements such as sample numbers, volume requirements, holding times, sample preservation requirements, and duplicate and other quality assurance/quality control sample requirements. Verify general sampling logistics such as site access, access to temporary and secure field storage, designated sample transport procedures, laboratory shipping address(es), and points of contact.
2. Comply with the Health and Safety Plan specifications for proper personal protective equipment (steel-toed boots, safety glasses, hard hats, splash shields, and Tyvek as appropriate and designated in the site-specific Health and Safety Plan). Wear chemically-protective gloves when collecting samples appropriate for the potential constituents to be sampled. Complete review of emergency plans and equipment. If sampling from a boat or near waterbodies with depths of 4 feet or more, the sampling team will wear life jackets. Review and comply with SOP Number (No.) 035 Small Boat Operations, if applicable.

3. Verify local One Call service has been contacted prior to sampling activities and proper utility clearance has been obtained. Verify site access, dockage, other required communications (e.g., U.S. Coast Guard, local authorities, etc.) have been secured.
4. Review specific responsibilities of each field team member and conduct daily safety briefings as specified by the site-specific Safety and Health Plan.
5. Confirm sampling equipment and supplies are adequate for the field effort. In addition to the sampling equipment and vessel requirements, verify that support equipment including, but not limited to, spatulas, scoops, spoons, pans, buckets, bowls, gloves, measuring implements, plastic sheeting, data forms, and logbooks are available. Appropriate sample storage and transport equipment may include a refrigeration unit, ice chests, dry ice or ice, insulation or other stabilization material to protect sample containers, custody seals, sampling containers, and shipping paperwork. Confirm decontamination supplies and equipment are sufficient for the duration of the field effort.
6. Collect samples first from areas suspected of being the least contaminated to minimize the risk of cross-contamination.
7. If surface water and sediment samples are to be collected at the same location or co-located (if both are required in the project-specific Sampling and Analysis Plan), collect the surface water sample first (refer to SOP No. 007 for surface water sampling). Sediment sampling usually results in disturbance of the sediments, which may influence the analytical results of the surface water samples.
8. Water quality measurements may be required at the same locations as the surface water and/or sediment sample locations. Collect the water quality measurements before the collection of surface water or sediment samples (refer to SOP No. 043 for water quality measurement collection).
9. Minimize the potential for sediment disturbance prior to sampling. Care should be taken when wading into a waterbody and/or during vessel operations prior to sampling. These activities can disturb the sediment. Move slowly and cautiously, approach the sample location from downstream. If flow is not strong enough to move entrained particles away from the sample location, wait for the sediment to resettle before sampling.
10. Collecting samples directly into sample containers is not recommended. Sediment samples should be placed in Teflon[®], stainless steel, or glass trays, pans, or bowls for sample preparation and processing.
11. Use the proper equipment and material construction for the analytes of interest. For example, for volatile organic compound analysis, the sampling material in direct contact with the sediment or surface water must consist of Teflon, polyethylene, or stainless steel.
12. Refer to EA SOP No. 005 (Field Decontamination) for proper decontamination methods before and after sampling and between samples.

13. Collect samples for volatile organic compound analysis and acid volatile sulfide analysis first. Do not mix such samples before placing them in the sample containers. For composite volatile organic compound and acid volatile sulfide samples, place equal aliquots of each subsample in the sample container with no headspace. To maintain sample integrity, exposure to oxygen/air should be limited to the extent possible.
14. Sediment that will be analyzed for other constituents should be prepared as follows:
 - Place the sediment in a mixing container.
 - Divide the sediment into equal quarters by volume.
 - Mix each quarter separately and thoroughly.
 - Combine the quarters and mix thoroughly.
 - For composite samples, mix each subsample as described above. Place equal aliquots of each subsample in a mixing container and follow the procedure described above.
 - Sediment preparation activities should be performed where the potential of contamination from external sources (e.g., running engines) can be minimized or eliminated.
15. Mark the sampling location on a site map. Record sampling location coordinates with a Global Positioning System unit, photograph (optional, recommended), describe each location, and place a numbered stake above the visible high water mark on the bank closest to the sampling location (if appropriate). The photographs and description must be adequate to allow the sampling station to be relocated at a future date.
16. Dispose of investigation-derived wastes according to applicable rules and regulations.

4. CORERS

A corer provides a vertical profile of the sediment that may be useful in tracing historical contaminant trends, geological characterization and dating, and characterizing the depth of impacts at a site. Because displacement is minimal, a corer is particularly useful for maintaining the integrity of the vertical sediment profile. Core samplers are also useful when it is important to maintain an oxygen-free environment as they limit oxygen exchange with the air more effectively than grab samplers. Corers can be constructed out of a variety of materials.

4.1 EQUIPMENT

The following list of equipment may be needed during the collection of sediment core samples. Depending upon the actual collection method used and the analyses that will be conducted in the samples, not all equipment on the list may be used.

- Probing equipment for pre-sampling testing for utilities
- Sampling vessel, floating platform (properly equipped and sized barge or boat), and waders and plan for collecting samples by hand (may significantly limit sample depth)
- Winch
- Crane, boom arm or A-frame
- Sediment core sampler (Vibracore, piston tube, Wildco tube sampler, etc.)
- Core liners, core catchers, liner caps, etc.
- Saw, knife, and cutters to open or split core liners
- Sampling vessel
- Propulsion method for sampling vessel or floating platform
- Containers, buckets, and tubs
- Small trays
- Calibration bucket
- Wash box
- Glassware
- Logbook
- Labels
- Coolers
- Spoons
- Water filters
- Gloves for sampling
- Gloves for other sampling activities such as cutting, equipment handling, etc.

- Measuring device
- Decontamination chemicals and de-ionized water.

4.2 PROCEDURE

4.2.1 Manual Sampling

When sampling manually, a polyvinyl chloride pipe (commonly 2-inch in diameter) with a Teflon or polyethylene liner (as an example) can be lowered into the sediment; a well cap can be used to form an airtight seal and negative pressure as the pipe is withdrawn.

1. Ensure that the corer and (optional) liner and other sampling equipment are properly cleaned.
2. Position downstream of the sample location.
3. Force the corer into the sediment with a smooth continuous motion. Rotate (not rock) the corer if necessary to penetrate the sediment.
4. Twist the corer to detach the sample; then withdraw the corer in a single smooth motion. If the corer does not have a nosepiece, place a cap on the bottom to keep the sediment in place.
5. Remove the top of the corer and decant the water in a slow controlled manner (into appropriate sample containers for surface water analysis, if required).
6. Remove the nosepiece or cap and begin sample description, logging, and processing per the work planning documents.
7. Decontaminate the sediment coring apparatus as described in SOP No. 005 or work planning documents.
8. Repeat the process at an offset location until sufficient sample quantity has been recovered. Additional cores may need to be obtained if the core recovery is insufficient to achieve the required volume. Verify recovery limits are in accordance with work planning documents and data quality objectives.
9. Process the core samples as described in work planning documents.

4.2.2 Sampling from a Vessel

1. Select a sediment core sampler (Vibracore, piston tube, Wildco tube sampler, etc.) suitable for the bottom conditions, water depth expected, water velocity, the volume of material needed, and the planned/targeted depth of sampling.

2. Select sediment coring tools of sufficient diameter and length to obtain the needed sample volume and depth of penetration. Depending on the volume of sediment needed, multiple sediment cores may be required. To the extent possible, predetermine the number of cores required to avoid having to return to a location for additional cores/sample volume.
3. Set up the sediment coring tool and install the core liner tube, drive head, drive shoe, and/or core catcher, piston, and piston line, as appropriate for the specific sampler chosen and the proposed depth of sample/penetration.
4. Securely attach the core sampler to a winch with cable or line of sufficient length and strength to accommodate the weight of the sampler and sample (Vibracore) or other sampler (piston tube or Wildco tube sampler) to sufficient pipe to reach the maximum proposed sample depth.
5. A measurement system should be in place capable of documenting the depth to the sediment surface, depth of penetration, and depth of recovery. Location coordinates should be collected at each sample location (if a vessel navigation system will be used to collect the location coordinates, an offset may be required between the antenna and the sampler deployment location).
6. Slowly lower the sampler through the moon pool or over the side until the sampler reaches the water/sediment interface. The sampler may be lowered using a crane or on a winch cable and A-frame or other mechanical mechanism capable of carry/control the weight of the sampler. The crane, A-frame, or boom arm must have enough clearance to accommodate the length of the sample and sampling apparatus and enough strength to safely accommodate the weight of the sample and sampling apparatus. Note the depth to the top of sediment.
7. Advance the sediment core sampler into the sediment to the proposed depth or refusal, whichever comes first. Vibracore samplers will be advanced by the vibrating head. Vibracore samplers will continue to be attached to the winch line and the rate of descent will be controlled during penetration into the sediment. Piston tube or Wildco tube samplers will be advanced manually. If necessary, a piston tube or Wildco tube sampler may be advanced by tapping the top of the pipe with a rubber mallet. These samplers are intended for soft sediment and will not tolerate heavy abuse from pounding in an attempt to penetrate through debris, shell beds, or consolidated material.
8. Slowly retrieve the sediment coring tool. As soon as possible, cap the bottom of the sample tube to prevent loss of sample. Secure the sampling apparatus.
9. Remove the sediment core liner from the sampling apparatus.
10. Allow the core to drain or siphon water, taking care not to disturb the surface of the sediment. At the first sign of sediment in the drained water sample, cease draining and tie or cap the sample liner to ensure that the surficial layer remains intact in the sample.

11. Cut off any empty core liner to eliminate headspace. Measure core recovery. Acceptable core recoveries may be specified in the work planning documents. Typically, recoveries of 70 or 80 percent are favorable for results interpretation and data evaluations. Lesser recoveries may not sufficiently represent the sediment column. The data quality objectives of a specific project will dictate the selected recoveries. If the sampler meets refusal above the proposed depth, offset the initial location and make up to the required number of attempts. Work planning documents should specify the maximum number of attempts to be made to obtain a core with sufficient recovery. If sufficient recovery cannot be obtained, other drilling and sampling methods and/or location abandonment may be appropriate.
12. If sufficient recovery was obtained in the interval penetrated, process the core and obtain samples from that interval.
13. Write the location identification and orientation (up arrow) on the outside of the core tube with a permanent marker. Write the location identification, date, and time of collection on the core tube cap.
14. The location (Global Positioning System coordinates), collection date and time, penetration depth, recovery depth, and identification for each core should be recorded in the field logbook.
15. Transport sediment cores to the onshore processing area throughout the day, if possible. Data quality objectives and work planning documents may require that core tubes be maintained in a vertical orientation. When possible, transport sediment cores to shore after each location or at an interval that will maintain the integrity of the samples. Cores should be stored under refrigeration or iced on the sampling vessel to maintain sample integrity.
16. Decontaminate the sediment coring apparatus as described in SOP No. 005 or work planning documents.
17. Repeat the process at an offset location until sufficient sample quantity has been recovered. Additional cores may be needed if the core recovery is insufficient to achieve the required volume. Debris and obstructions are possible that may prevent the full penetration and recovery of all of the advanced cores. Observation of debris, obstructions, or hard bottom conditions that preclude advancement of the sampler should be documented in the field logbook.
18. Water quality measurements may be required at each coring location or locations specified in the project work plan. The measurements should be conducted on the same day as the core collection, and prior to the core collection, if possible.

19. Verify that all field measurements and documentation are complete prior to moving off location.
20. Process the core samples as described in work planning documents.

5. SCOOPS AND SPOONS

When sampling at the margins of a waterbody or in shallow water, scoops and spoons may be the most appropriate sampling equipment. For sample collection several feet from shore or in deeper water, the scoop or spoon may be attached to a pole or conduit. Equipment will be a subset of that described above in Section 4.1.

- Stand downstream of the sample location.
- Collect the sample slowly and gradually to minimize disturbing the fine particles.
- Decant the water slowly to minimize the loss of fine particles.
- Transfer the sediment to sample containers or mixing trays, as appropriate.
- Process the samples as indicated by the project work plan.
- Verify that all field measurements and documentation are complete prior to moving off location.

6. DREDGES

Three types of dredges are most frequently used: Peterson, Ponar, and Eckman. Many other dredge types are available; their applicability will depend upon site-specific factors. Equipment will be a subset of that described above in Section 4.1.

6.1 PETERSON, VAN VEEN, AND PONAR DREDGES

These dredges are suitable for hard, rocky substrates, deep waterbodies, and streams with fast currents. Ponars have top screens and side plates to prevent sample loss during retrieval.

- Open the jaws and place the cross bar into the proper notch.
- Lower the dredge to the bottom in a controlled manner, making sure it settles flat.
- When tension is removed from the line, the cross bar will drop, enabling the dredge to close as the line is pulled upward during retrieval.

- Pull the dredge to the surface. Make sure the jaws are closed and that no sample was lost during retrieval through incomplete closure due to rocks, shells, or other debris; penetration at an angle; or tilting during retrieval. The sampler should not be overfilled such that the sediment surface is touching the top of the sampler. Overlying water should be present indicating minimal leakage; this water should be siphoned off, not decanted, prior to sample processing. The sediment water interface should be intact with no signs of washout or channeling.
- Open the jaws and transfer the sediment to sample containers or to a mixing tray.
- Verify that all field measurements and documentation are complete prior to moving off location.

6.2 ECKMAN DREDGE

The Eckman dredge works best in soft substrates in waterbodies with slow or no flow.

- Open the spring-loaded jaws and attach the chains to the pegs at the top of the sampler.
- Lower the dredge to the bottom in a controlled manner, making sure it settles flat.
- Holding the line taut, send down the message to close the jaws.
- Pull the dredge to the surface. Make sure the jaws are closed and that no sample was lost during retrieval through incomplete closure due to rocks, shells, or other debris; penetration at an angle; or tilting during retrieval. The sampler should not be overfilled such that the sediment surface is touching the top of the sampler. Overlying water should be present indicating minimal leakage; this water should be siphoned off, not decanted, prior to sample processing. The sediment water interface should be intact with no signs of washout or channeling.
- Open the jaws and transfer the sediment to sample containers or to a mixing tray.
- Verify that all field measurements and documentation are complete prior to moving off location.

7. REFERENCES

Not applicable.

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Standard Operating Procedure No. 011 for Photoionization Detector

Prepared by

EA Engineering, Science, and Technology, Inc., PBC
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Hunt Valley, Maryland 21031

Revision 0
December 2014

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1. SCOPE AND APPLICATION

The purpose of this Standard Operating Procedure (SOP) is to delineate protocols for field operations with the photoionization detector (MiniRae). The photoionization detector uses an ultraviolet emitting lamp designed to detect, measure, and display the total concentration of airborne ionizable gases and vapors. This information is used to determine control measures such as protection and action levels.

Use of brand names in this SOP is not intended as endorsement or mandate that a given brand be used. Alternate equivalent brands of detectors, sensors, meters, etc. are acceptable. If alternate equipment is to be used, the contractor will provide applicable and comparable SOPs for the maintenance and calibration of same.

2. MATERIALS

The following materials may be required:

Battery pack	Tedlar bag
Calibration gas (100 ppm isobutylene)	Tygon tubing
Microtip/MiniRae	Regulator

3. STARTUP/CALIBRATION PROCEDURE

Turn the instrument on by pressing the back of the power switch located on the handle of the instrument.

The message "Warming up now, please wait" will be displayed for up to 3 minutes. After normal display appears, the instrument is ready for calibration.

Fill a Tedlar bag with the desired calibration gas (usually 100 ppm Isobutylene).

Press SETUP button and select the desired Cal Memory using the arrow keys (normally set to 200 ppm). Press EXIT button to leave setup function.

Press CAL button and expose instrument to Zero Gas. (Usually clean outdoor air will be suitable. If any doubt exists as to the cleanliness of the background air a commercial source of zero gas should be used.)

The instrument then asks for the Span Gas concentration. Enter the known span gas concentration and then connect the Tedlar bag containing the Span Gas.

NOTE: The span gas concentration is dependent upon both the concentration of the span gas used and the rating of the UV lamp in the instrument at time of calibration. If using 100 ppm isobutylene and the standard 10.6 eV lamp, the span gas concentration will be 56 ppm.

Press enter and the instrument sets its sensitivity. Once the display reverts to normal, the instrument is calibrated and ready for use. Remove the Span Gas from the inlet probe. The instrument should be calibrated at least once a day.

4. BATTERY CHARGING

Ensure instrument is off. Set the voltage selector switch on the bottom of the battery charger to the appropriate AC line voltage. Press the release button on the bottom of the instrument and remove the battery pack by sliding it backwards. Plug charger into the battery pack and then into an AC outlet and allow the battery to charge for at least 8 hours. After charging, remove the charger, first from the outlet then from the battery pack, and slide the battery pack back onto the instrument.

5. PRECAUTIONS

Instrument does not carry an Intrinsic Safety Rating and must not be used in a hazardous location where flammable concentrations of gases or vapors are constantly present.

All calibration, maintenance, and servicing of this device, including battery charging, must be performed in a safe area away from hazardous locations.

Do not open or mutilate battery cells. Do not defeat proper polarity orientation between the battery pack and battery charger. Substitution of components may affect safety rating.

6. REFERENCES

Instrument User's Manual.



Standard Operating Procedure No. 005 for Field Decontamination

Prepared by

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Revision 2
September 2018

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PROJECT-SPECIFIC VARIANCE FORM

This form is to be completed to indicate if there are any client-, project-, or site-specific variances to this Standard Operating Procedure (SOP) (**also check Box A**), or if this SOP is being used with no changes (**only check Box B**).

- ☐ A. Variances required; cite section(s) of the SOP to which there is a variance
- ☐ B. No variances

[illegible]

Project Manager (Name)

Project Manager (Signature)

Date _____

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DOCUMENT REVISION HISTORY

ORIGINAL (MASTER) DOCUMENT REVISION HISTORY				
Revision Number	Revision Date	Revision Summary	Revised By	Reviewed By
1	25 September 2018	Systematic update and review	Cristina Radu, Amanda Kohn	Matthew Bowman

1. SCOPE AND APPLICATION

All personnel or equipment involved in intrusive sampling, or that enter a hazardous waste site, must be thoroughly decontaminated prior to leaving the site to minimize the spread of contamination and prevent adverse health effects. This Standard Operating Procedure (SOP) describes the normal decontamination of sampling equipment and site personnel. Specific projects and programs may have additional decontamination requirements. Refer to the planning document(s) for additional site-specific requirements.

As a good practice, sampling at a site should be conducted moving from least to most impacted locations to minimize the potential for cross-contamination. It is advisable to use disposable tools and personal protective equipment to the extent possible such that decontamination is not necessary. If disposable equipment cannot be used, all attempts will be made to minimize the need for decontamination by using dedicated equipment when practical.

1.1 MATERIALS

The following materials may be required:

0.01 normal (N) hydrochloric acid	Non-phosphate laboratory detergent (Liquinox)
0.10 N nitric acid	Plastic garbage bags
Aluminum foil or clean plastic sheeting	Plastic sheeting, buckets, etc. to collect washwater and rinsates
Approved water (deionized, potable, etc.)	Pressure sprayer, spray bottles, brushes, laboratory wipes, disposable cloth (shop towel or similar)
High performance liquid chromatography (HPLC)-grade water ^(a)	Reagent grade alcohol ^(b)
a. For the purpose of this SOP, HPLC-grade water is considered equivalent to “deionized ultra-filtered water,” “reagent-grade distilled water,” and “deionized organic-free water.” The end product is water that is pure with no spurious ions or organics to contaminate the sample. The method of generation is left to the individual contractor. b. For the purpose of this SOP, the term “reagent grade alcohol” refers to either pesticide grade isopropanol or reagent grade methanol.	

1.2 PROCEDURE

All reusable (non-dedicated) equipment that contacts or could potentially contact environmental samples shall be decontaminated prior to use at a site, between sampling locations, and at the completion of sampling events before leaving the site. Decontamination procedures are conducted in the Contaminant Reduction Zone, which may or may not be contiguous to the Exclusion Zone. The Contaminant Reduction Zone should be located on a level, preferably paved surface, either in an area upwind of the investigation/sampling area or in an area believed to be free of surface contamination. Care must be employed when moving contaminated tools and equipment to the Contaminant Reduction Zone to prevent the spread of contamination.

Specially designated and properly built decontamination pads may be built at a centralized location to accommodate larger pieces of equipment. The pads are built such that any water produced during the decontamination process can be contained and pumped into

investigative-derived waste holding containers (i.e., frac tank, 55-gallon drum, etc.) for waste profiling and disposal.

For other field equipment, the Contaminant Reduction Zone may be a mobile decontamination station set up in the vicinity of the Exclusion Zone or sampling location. Plastic sheeting will be used to create a clean surface for the sampling and decontamination equipment to be placed upon.

1.2.1 Sample Bottles

At the completion of each sampling activity, the exterior surfaces of the sample bottles must be decontaminated as follows:

- Ensure the bottle lids are on tight.
- Wipe the outside of the bottle with a paper towel to remove gross contamination.

1.2.2 Personnel Decontamination

Review the Health and Safety Plan for the appropriate decontamination of site personnel and reusable personal protective equipment, such as protective suits used at highly contaminated sites, respirators, safety boots, safety glasses, etc. Decontamination will be conducted in a designated Contaminant Reduction Zone as per the Health and Safety Plan and the general decontamination procedures outlined further in this SOP.

1.2.3 Non-Dedicated Equipment

Reasonable attempts will be made to minimize the need for decontamination by using dedicated equipment when practical.

All reusable (non-dedicated) equipment that contacts or could potentially contact environmental samples shall be decontaminated prior to use at a site, between sampling locations, and at the completion of sampling events before leaving the site. Decontamination shall be conducted at a central decontamination station (i.e., decontamination pad) or at the sampling location.

Decontamination stations should be located on a level, preferably paved surface, either in an area upwind of the investigation area or in an area believed to be free of surface contamination. Plastic sheeting will be used to create a clean surface for the sampling and decontamination equipment to be placed upon.

Used decontamination solutions will be disposed of properly according to the site-specific Health and Safety Plan or applicable planning documents.

1.2.3.1 Field Monitoring and Testing Equipment

Water quality meters and temperature, pH, conductivity, redox, and dissolved oxygen probes will be cleaned per the manufacturer's instructions. If no such specifications exist, remove gross contamination and triple rinse probe with HPLC-grade water. If downhole probes are used, wipe the wetted portion of the cable with a clean laboratory wipe or disposable cloth (shop towel or similar) that has been soaked with non-phosphate laboratory detergent solution to remove gross contamination and rinse with approved water.

Electronic water level indicators, weighted tapes, measuring tapes transducers, level loggers, etc. will be decontaminated after each use as follows:

- Wipe the wetted or contaminated portion of the tape or cable and the probe with a clean laboratory wipe or disposable cloth (shop towel or similar) that has been soaked with non-phosphate laboratory detergent solution to remove gross contamination. Rinse cloth in the solution and continue wiping until tape or cable is clean.
- Wipe with a second wipe or cloth or rinse with HPLC-grade water to remove soap residue.
- Dry tape with a third cloth (or laboratory wipe) and rewind into case or on spool, or re-coil tape.

Other field monitoring or measuring equipment such as beakers and graduated cylinders used to measure flow rates; flow-through cells used for monitoring water quality parameters; piezometers used to determine water levels; packers, mechanical slug device, and downhole equipment used during aquifer (hydraulic) testing; etc. will be decontaminated by washing with a non-phosphate laboratory detergent solution, followed by approved water and HPLC-grade water rinse.

1.2.3.2 Bladder Pumps

Non-dedicated bladder pumps with disposable bladders will be decontaminated as follows:

- Disconnect tubing from pump.
- Completely disassemble the pump, being careful to note the initial position of and retain any springs and loose ball checks.
- Discard the pump bladder.
- Clean all parts in the same manner as provided in Section 1.2.3.1.
- Install a new Teflon[®] bladder and reassemble pump.

- Store pump in a clean, dedicated polyvinyl chloride, polytetrafluorethylene (PTFE), or low density polyethylene (for perfluorooctanesulfonic acid/per- and polyfluoroalkyl substances sampling) storage container.

1.2.3.3 Grundfos Redi-Flow® or Similar Submersible Pumps

Non-dedicated Grundfos Redi-Flow® and similar pumps will be disassembled and decontaminated per the manufacturer's instructions on an as-needed basis (i.e., where high concentrations and an elevated risk of cross-contamination exist). Due to the challenges associated with pump decontamination, if possible, consider designating one pump for sampling in highly contaminated areas and a second pump for sampling non-impacted areas or areas with lower contaminant concentrations. In most cases, the pumps will be decontaminated following the procedures below.

The pump and support cable/electrical wires that come in contact with water will be decontaminated via pumping as detailed below. To avoid electrical shock, always disconnect power from the pump when handling the pump body during decontamination procedures.

- Disconnect sample tubing from pump.
- Decontaminate the wetted portion of the cable/electrical wires by washing with non-phosphate laboratory detergent solution, followed by approved water and HPLC-grade water rinse. Coil cable/electrical wires on spools or clean plastic sheeting.
- Scrub the exterior of the pump to remove gross (visible) contamination, using appropriate brush(es), approved water, and non-phosphate detergent (steam cleaning may be substituted for detergent scrub).
- Transfer pump to rinse bucket filled with approved water. Rinse by pumping no less than nine volumes or a minimum of 5 minutes of approved water.
- Rinse pump exterior with reagent grade alcohol.
- Rinse pump exterior with HPLC-grade water.
- Rinse pump exterior with 0.10 N nitric acid solution
- Rinse pump exterior with HPLC-grade water.
- Allow pump to air dry.
- Wrap pump in aluminum foil or clean plastic sheeting, or store in a clean, dedicated polyvinyl chloride or PTFE storage container.
- Prior to reusing pump, rinse exterior again with HPLC-grade water.

1.2.3.4 Other Liquid Sampling Equipment

Other sampling equipment used to collect surface water, groundwater, non-aqueous phase liquid (NAPL), or other liquid samples includes but is not limited to PTFE double-check valve bailers, dip samplers (whether bucket, long-handled, or short-handled), discrete interval stainless-steel samplers, ball check valves and foot valves, and labware (i.e., beakers, graduated cylinders, vials, and other containers that are used to hold samples for field measurements/screening and water chemistry). This equipment will be decontaminated after each use as follows:

- Discard all ropes, tubing, etc. used in sampling in a properly marked sealable container, or as directed by the Health and Safety Plan. NOTE: No tubing is to be used in conjunction with a bailer in collecting samples.
- Wash sampling equipment with non-phosphate laboratory detergent and approved water solution using appropriate brush(es), laboratory wipes, or disposable cloth (shop towel or similar) to remove gross (visible) contamination.
- Rinse with approved water.
- Rinse with reagent grade alcohol.
- Rinse with HPLC-grade water.
- Rinse with 0.10 N nitric acid solution using a spray bottle. This rinse may be eliminated if inorganic compounds such as metals are not being sampled/are not a contaminant of concern.
- Rinse with HPLC-grade water.
- Allow equipment to air dry. If sampling equipment has just been used for purging and is being decontaminated prior to sampling, do not air dry. Double rinse with HPLC-grade water and proceed to collect samples.
- Wrap equipment in aluminum foil or clean plastic sheeting, or store in a clean, dedicated polyvinyl chloride or PTFE storage container.
- Rinse equipment with HPLC-grade water immediately prior to re-use.

1.2.3.5 Solid Materials Samplers

Solid materials samplers include soil and sediment sampling probes, augers, trowels, shovels, sludge samplers, and other sampling equipment (e.g., core tubes, grab samples, core catchers, core liners, scoops, spoons, etc.), which will be decontaminated as follows:

- Scrub the sampler to remove gross (visible) contamination, using appropriate brush(es), approved water, and non-phosphate laboratory detergent (steam cleaning may be substituted for detergent scrub).
- Rinse off detergent with approved water.
- Rinse sampler with reagent grade alcohol.
- Rinse sampler with HPLC-grade water.
- For non-metallic samplers only, rinse sampler with 0.10 N nitric acid solution.
- For non-metallic samplers only, rinse sampler with HPLC-grade water.
- Allow sampler to air dry.
- Wrap sampler in aluminum foil or clean plastic sheeting, or store in a new zip-seal bag (size permitting) or clean, dedicated polyvinyl chloride or PTFE storage container.
- Rinse sampler with HPLC-grade water immediately prior to re-use.

For larger sediment sampling equipment, if sediment can be collected from the interior of a sampling device and away from potentially contaminated surfaces of the sampler, a site water rinse may be sufficient between stations. A site water rinse may also be sufficient for vessel surfaces between sample locations. However, all tools and equipment coming into contact with the sample should be decontaminated in accordance with the procedures above. Washwater from decontamination activities should be collected and disposed of properly.

1.2.3.6 Other Sampling and Measurement Probes

Soil (or sediment) gas sampling probes will be decontaminated as solids sampling devices.

1.2.3.7 Drilling Rigs, Sediment Sampling Vessels, and Other Heavy Equipment

All drilling rigs, sediment sampling vessels, and associated equipment such as augers, drill casing, rods, samplers, tools, recirculation tank, and water tank (inside and out) will be decontaminated prior to site entry after over-the-road mobilization and immediately upon departure from a site after drilling a hole. Supplementary cleaning will be performed prior to site entry when there is a likelihood that contamination has accumulated on tires and as spatter or dust on the way from one site to the next.

- Place contaminated equipment in an enclosure (i.e., existing wash pad, decontamination pad, etc.) designed to contain all decontamination residues (water, sludge, etc.).

- Steam clean equipment until all dirt, mud, grease, asphaltic, bituminous, or other encrusting coating materials (with the exception of manufacturer-applied paint) have been removed.
- Water used will be taken from an approved source.
- Containerize decontamination fluids in 55-gallon drums; sample; characterize; and, based on sample results, dispose of all decontamination residues properly.

Other heavy equipment includes use of backhoes, excavators, skid steers, etc. If heavy equipment is utilized during field activities (i.e., a backhoe for test pitting), the bucket should not come in contact with soil to be sampled. If the bucket contacts the soil to be sampled, then it should be decontaminated between sample locations, following the same procedures as listed above for a drill rig.

1.2.3.8 Ice Chests and Reusable Shipping Containers

Scrub exterior/interior with approved brush and Liquinox detergent. Rinse off detergent with approved water. Let air dry and properly store until re-use.

NOTE: If container/ice chest is severely contaminated, clean as thoroughly as possible, render unusable, and properly dispose of.

2. PRECAUTIONS

Segregate all waste streams as specified in the sampling documents and store investigation-derived waste properly. Dispose of all washwater, rinse water, rinsates, and other sampling wastes (tubing, plastic sheeting, etc.) in properly marked, sealable containers, or as directed by the Health and Safety Plan or applicable planning documents.

Once a piece of equipment has been decontaminated, be careful to keep it in such condition until needed.

3. REFERENCES

Site-specific Health and Safety Plan and/or applicable planning documents.

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Appendix D

Photograph Log

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Appendix D: Photograph Log
6100 North Marshalee Drive, Elkridge, Maryland
June 24-26, 2019



Figure 1. Oil Interceptor basin (EA3) beneath the Maintenance Shed golf cart lift.

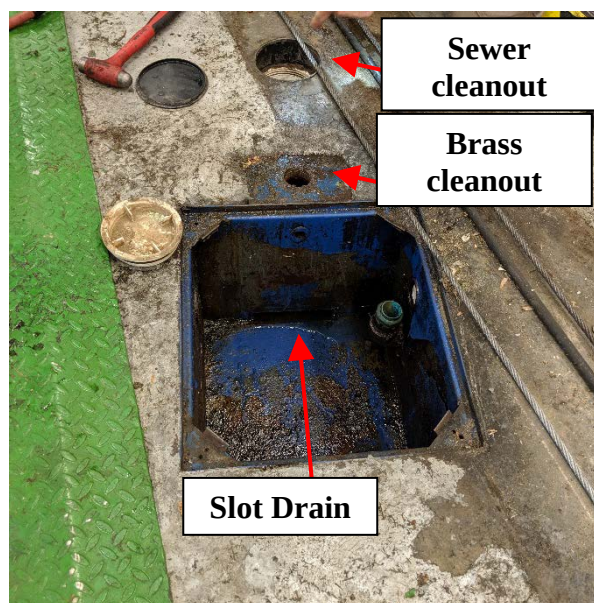


Figure 3. Drain depicted on sump floor and effluent piping gate valve (above).

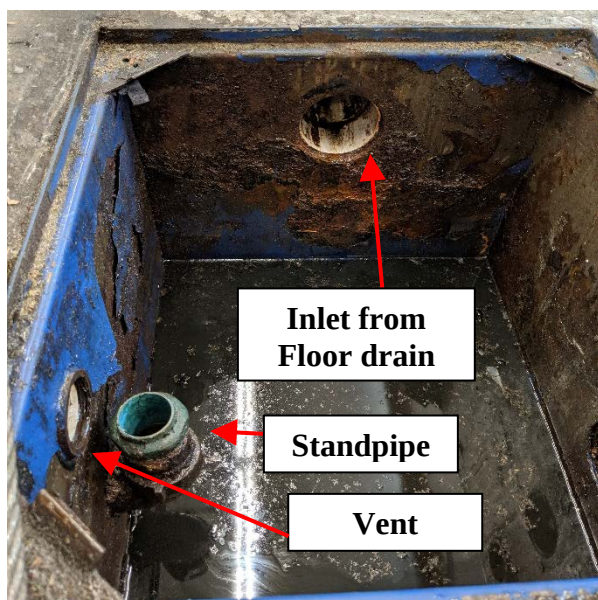


Figure 2. Oil interceptor basin.



Figure 4. Inlet from floor drain.

Appendix D: Photograph Log
6100 North Marshalee Drive, Elkridge, Maryland
June 24-26, 2019

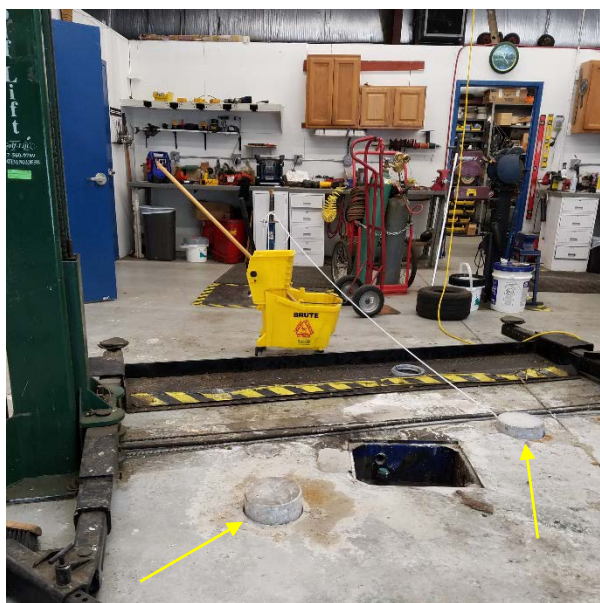


Figure 5. Sample locations TT-EA3c-S-01 (left) and TT-EA3c-S-02 (right).



Figure 7. Historical Used Oil Storage Area (EA4) outside northwest wall of the Maintenance Building.



Figure 6. Grit sample location beneath slatted floor of the pesticide storage cabinet (TT-EA2c-S-01).



Figure 8. Sample location by 55-gal drum in Historically Discarded Waste Area (Downhill) (TT-EA1a-S-01).

Appendix D: Photograph Log
6100 North Marshalee Drive, Elkridge, Maryland
June 24-26, 2019



Figure 9. Gravel found throughout drainage pathway in the Historically Discarded Waste Area (Downhill) (TT-EA1a-S-02).



Figure 11. Bottles found throughout the Historically Discarded Waste Area (Uphill) (EA1b).



Figure 10. Bricks and gravel found within the Historically Discarded Waste Area (Uphill) (EA1b).



Figure 12. Scrap metal and remnant chain link fence within the Historically Discarded Waste Area (Uphill) (EA1b).

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Appendix E

Laboratory Analytical Reports

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24 July 2019

Vicki Pitman
EA Engineering
225 Schilling Circle, STE 400
Hunt Valley, MD 21031
RE: TIMBERS AT TROY

Enclosed are the results of analyses for samples received by the laboratory on 06/24/19 16:15.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Will Brewington
President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT-EA3C-S-01		9062409-01	Soil	06/24/19 12:07	06/24/19 16:15
TT-EA3C-S-02		9062409-02	Soil	06/24/19 12:50	06/24/19 16:15
TT-EA3C-S-03		9062409-03	Soil	06/24/19 13:25	06/24/19 16:15
DUP-1		9062409-04	Soil	06/24/19 13:25	06/24/19 16:15
TRIP BLANK		9062409-05	Nonpotable Water	06/24/19 16:15	06/24/19 16:15



Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-01

9062409-01 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Acenaphthylene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Benzo[a]anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Benzo[b]fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Benzo[k]fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Benzo[ghi]perylene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Benzo[a]pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Chrysene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Fluorene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Naphthalene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Phenanthrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 11:47	WB
Surrogate: Nitrobenzene-d5		23-120		66 %	06/26/19		06/27/19 11:47		
Surrogate: 2-Fluorobiphenyl		30-115		71 %	06/26/19		06/27/19 11:47		
Surrogate: Terphenyl-d14		18-137		88 %	06/26/19		06/27/19 11:47		
GASOLINE RANGE ORGANICS BY EPA 5035/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.10	0.03	1	06/27/19	06/27/19 11:46	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	ND		mg/kg dry	8.6	8.6	1	06/24/19	06/25/19 16:10	SJA
Surrogate: o-Terphenyl		70-130		88 %	06/24/19		06/25/19 16:10		

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Will Brewington, President

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www.mdspectral.com
MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-01

9062409-01 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	93		%			1	06/27/19	06/28/19 10:52	GEM
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.47		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Barium	23.2		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Cadmium	ND		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Chromium	14.3		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Lead	5.63		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Mercury	0.0230		mg/kg dry	0.0134	0.0134	1	06/24/19	06/25/19 13:20	VVD
Selenium	0.947		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Silver	ND		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:20	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.255		mg/kg dry	0.0839	0.0839	1	06/26/19	06/28/19 12:33	BMG
Wet Chemistry Performed at Enviro-Chem									
% Solids	91.8		%	1.00	1.00	1	06/26/19	06/26/19 16:00	FRD



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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-01

9062409-01RE1 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS)									
Acetone	ND		ug/kg dry	8.3	8.3	1	07/01/19	07/01/19 12:09	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	41.4	41.4	1	07/01/19	07/01/19 12:09	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Benzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Bromobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Bromochloromethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Bromodichloromethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Bromoform	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Bromomethane	ND		ug/kg dry	4.1	4.1	1	07/01/19	07/01/19 12:09	GM
tert-Butanol (TBA)	ND		ug/kg dry	41.4	41.4	1	07/01/19	07/01/19 12:09	GM
2-Butanone (MEK)	ND		ug/kg dry	8.3	8.3	1	07/01/19	07/01/19 12:09	GM
n-Butylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
sec-Butylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
tert-Butylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Carbon disulfide	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Carbon tetrachloride	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Chlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Chloroethane	ND		ug/kg dry	4.1	4.1	1	07/01/19	07/01/19 12:09	GM
Chloroform	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Chloromethane	ND		ug/kg dry	4.1	4.1	1	07/01/19	07/01/19 12:09	GM
2-Chlorotoluene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
4-Chlorotoluene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Dibromochloromethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Dibromomethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2-Dichlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,3-Dichlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,4-Dichlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Dichlorodifluoromethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1-Dichloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2-Dichloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-01

9062409-01RE1 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
1,1-Dichloroethene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
trans-1,2-Dichloroethene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Dichlorofluoromethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2-Dichloropropane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,3-Dichloropropane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
2,2-Dichloropropane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1-Dichloropropene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Ethylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Hexachlorobutadiene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
2-Hexanone	ND		ug/kg dry	8.3	8.3	1	07/01/19	07/01/19 12:09	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
4-Isopropyltoluene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
4-Methyl-2-pentanone	ND		ug/kg dry	8.3	8.3	1	07/01/19	07/01/19 12:09	GM
Methylene chloride	ND		ug/kg dry	16.5	16.5	1	07/01/19	07/01/19 12:09	GM
Naphthalene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
n-Propylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Styrene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Tetrachloroethene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Toluene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1,1-Trichloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,1,2-Trichloroethane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Trichloroethene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM

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Will Brewington, President

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Baltimore MD 21227
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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-01

9062409-01RE1 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2,3-Trichloropropane	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Vinyl chloride	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
o-Xylene	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
m- & p-Xylenes	ND		ug/kg dry	4.1	1.7	1	07/01/19	07/01/19 12:09	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	111 %	07/01/19		07/01/19 12:09		
Surrogate: Toluene-d8			75-120	99 %	07/01/19		07/01/19 12:09		
Surrogate: 4-Bromofluorobenzene			70-120	97 %	07/01/19		07/01/19 12:09		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-02

9062409-02 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS)									
Acetone	ND		ug/kg dry	1140	1140	108.7	06/27/19	06/27/19 19:58	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	5720	5720	108.7	06/27/19	06/27/19 19:58	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Benzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Bromobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Bromochloromethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Bromodichloromethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Bromoform	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Bromomethane	ND		ug/kg dry	572	572	108.7	06/27/19	06/27/19 19:58	GM
tert-Butanol (TBA)	ND		ug/kg dry	5720	5720	108.7	06/27/19	06/27/19 19:58	GM
2-Butanone (MEK)	ND		ug/kg dry	1140	1140	108.7	06/27/19	06/27/19 19:58	GM
n-Butylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
sec-Butylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
tert-Butylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Carbon disulfide	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Carbon tetrachloride	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Chlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Chloroethane	ND		ug/kg dry	572	572	108.7	06/27/19	06/27/19 19:58	GM
Chloroform	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Chloromethane	ND		ug/kg dry	572	572	108.7	06/27/19	06/27/19 19:58	GM
2-Chlorotoluene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
4-Chlorotoluene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Dibromochloromethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Dibromomethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2-Dichlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,3-Dichlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,4-Dichlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Dichlorodifluoromethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1-Dichloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2-Dichloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-02

9062409-02 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
1,1-Dichloroethene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
trans-1,2-Dichloroethene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Dichlorofluoromethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2-Dichloropropane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,3-Dichloropropane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
2,2-Dichloropropane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1-Dichloropropene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Ethylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Hexachlorobutadiene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
2-Hexanone	ND		ug/kg dry	1140	1140	108.7	06/27/19	06/27/19 19:58	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
4-Isopropyltoluene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
4-Methyl-2-pentanone	ND		ug/kg dry	1140	1140	108.7	06/27/19	06/27/19 19:58	GM
Methylene chloride	ND		ug/kg dry	2290	2290	108.7	06/27/19	06/27/19 19:58	GM
Naphthalene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
n-Propylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Styrene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Tetrachloroethene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Toluene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1,1-Trichloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,1,2-Trichloroethane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Trichloroethene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-02

9062409-02 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2,3-Trichloropropane	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Vinyl chloride	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
o-Xylene	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
m- & p-Xylenes	ND		ug/kg dry	572	229	108.7	06/27/19	06/27/19 19:58	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	109 %	06/27/19		06/27/19 19:58		
Surrogate: Toluene-d8			75-120	101 %	06/27/19		06/27/19 19:58		
Surrogate: 4-Bromofluorobenzene			70-120	96 %	06/27/19		06/27/19 19:58		
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	79.0		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Acenaphthylene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Anthracene	20.6		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Benzo[a]anthracene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Benzo[b]fluoranthene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Benzo[k]fluoranthene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Benzo[ghi]perylene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Benzo[a]pyrene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Chrysene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Fluoranthene	46.7		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Fluorene	77.4		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Naphthalene	214		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Phenanthrene	110		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Pyrene	130		ug/kg dry	10.5	10.5	1	06/26/19	06/27/19 12:09	WB
Surrogate: Nitrobenzene-d5			23-120	327 %	06/26/19		06/27/19 12:09		S-04
Surrogate: 2-Fluorobiphenyl			30-115	58 %	06/26/19		06/27/19 12:09		
Surrogate: Terphenyl-d14			18-137	82 %	06/26/19		06/27/19 12:09		

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Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-02

9062409-02 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 5035/8015C									
Gasoline-Range Organics	3.91		mg/kg dry	0.09	0.03	1	06/28/19	06/28/19 18:14	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	1570		mg/kg dry	84.2	84.2	10	06/24/19	06/25/19 16:37	SJA
Surrogate: o-Terphenyl			70-130	274 %	06/24/19		06/25/19 16:37		S-04
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	95		%			1	06/27/19	06/28/19 10:52	GEM
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.80		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Barium	8.09		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Cadmium	ND		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Chromium	11.3		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Lead	3.17		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Mercury	ND		mg/kg dry	0.0132	0.0132	1	06/24/19	06/25/19 13:22	VVD
Selenium	0.685		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Silver	ND		mg/kg dry	0.263	0.263	1	06/24/19	06/25/19 13:22	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.214		mg/kg dry	0.0800	0.0800	1	06/26/19	06/28/19 08:59	BMG
Wet Chemistry Performed at Enviro-Chem									
% Solids	95.6		%	1.00	1.00	1	06/26/19	06/26/19 16:00	FRD

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-03

9062409-03 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS)									
Acetone	ND		ug/kg dry	10.0	10.0	1	06/27/19	06/27/19 13:09	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	49.8	49.8	1	06/27/19	06/27/19 13:09	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Benzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Bromobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Bromochloromethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Bromodichloromethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Bromoform	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Bromomethane	ND		ug/kg dry	5.0	5.0	1	06/27/19	06/27/19 13:09	GM
tert-Butanol (TBA)	ND		ug/kg dry	49.8	49.8	1	06/27/19	06/27/19 13:09	GM
2-Butanone (MEK)	ND		ug/kg dry	10.0	10.0	1	06/27/19	06/27/19 13:09	GM
n-Butylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
sec-Butylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
tert-Butylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Carbon disulfide	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Carbon tetrachloride	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Chlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Chloroethane	ND		ug/kg dry	5.0	5.0	1	06/27/19	06/27/19 13:09	GM
Chloroform	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Chloromethane	ND		ug/kg dry	5.0	5.0	1	06/27/19	06/27/19 13:09	GM
2-Chlorotoluene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
4-Chlorotoluene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Dibromochloromethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Dibromomethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2-Dichlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,3-Dichlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,4-Dichlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Dichlorodifluoromethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1-Dichloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2-Dichloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-03

9062409-03 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
1,1-Dichloroethene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
trans-1,2-Dichloroethene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Dichlorofluoromethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2-Dichloropropane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,3-Dichloropropane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
2,2-Dichloropropane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1-Dichloropropene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Ethylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Hexachlorobutadiene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
2-Hexanone	ND		ug/kg dry	10.0	10.0	1	06/27/19	06/27/19 13:09	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
4-Isopropyltoluene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
4-Methyl-2-pentanone	ND		ug/kg dry	10.0	10.0	1	06/27/19	06/27/19 13:09	GM
Methylene chloride	ND		ug/kg dry	19.9	19.9	1	06/27/19	06/27/19 13:09	GM
Naphthalene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
n-Propylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Styrene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Tetrachloroethene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Toluene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1,1-Trichloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,1,2-Trichloroethane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Trichloroethene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-03

9062409-03 (Soil)

Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2,3-Trichloropropane	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Vinyl chloride	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
o-Xylene	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
m- & p-Xylenes	ND		ug/kg dry	5.0	2.0	1	06/27/19	06/27/19 13:09	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	119 %	06/27/19		06/27/19 13:09		
Surrogate: Toluene-d8			75-120	101 %	06/27/19		06/27/19 13:09		
Surrogate: 4-Bromofluorobenzene			70-120	98 %	06/27/19		06/27/19 13:09		
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Acenaphthylene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Benzo[a]anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Benzo[b]fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Benzo[k]fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Benzo[ghi]perylene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Benzo[a]pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Chrysene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Fluoranthene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Fluorene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Naphthalene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Phenanthrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Pyrene	ND		ug/kg dry	10.8	10.8	1	06/26/19	06/27/19 12:32	WB
Surrogate: Nitrobenzene-d5			23-120	62 %	06/26/19		06/27/19 12:32		
Surrogate: 2-Fluorobiphenyl			30-115	71 %	06/26/19		06/27/19 12:32		
Surrogate: Terphenyl-d14			18-137	91 %	06/26/19		06/27/19 12:32		

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Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TT-EA3C-S-03

9062409-03 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 5035/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.10	0.03	1	06/27/19	06/27/19 12:16	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	ND		mg/kg dry	8.6	8.6	1	06/24/19	06/25/19 17:03	SJA
Surrogate: o-Terphenyl			70-130	91 %	06/24/19		06/25/19 17:03		
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	93		%			1	06/27/19	06/28/19 10:52	GEM
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	4.60		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Barium	16.0		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Cadmium	ND		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Chromium	16.8		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Lead	3.93		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Mercury	0.0161		mg/kg dry	0.0134	0.0134	1	06/24/19	06/25/19 13:25	VVD
Selenium	0.675		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Silver	ND		mg/kg dry	0.269	0.269	1	06/24/19	06/25/19 13:25	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.207		mg/kg dry	0.0851	0.0851	1	06/26/19	06/28/19 09:10	BMG
Wet Chemistry Performed at Enviro-Chem									
% Solids	91.2		%	1.00	1.00	1	06/26/19	06/26/19 16:00	FRD

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

DUP-1

9062409-04 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS)									
Acetone	11.1		ug/kg dry	9.2	9.2	1	06/27/19	06/27/19 13:36	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	45.9	45.9	1	06/27/19	06/27/19 13:36	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Benzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Bromobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Bromochloromethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Bromodichloromethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Bromoform	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Bromomethane	ND		ug/kg dry	4.6	4.6	1	06/27/19	06/27/19 13:36	GM
tert-Butanol (TBA)	ND		ug/kg dry	45.9	45.9	1	06/27/19	06/27/19 13:36	GM
2-Butanone (MEK)	ND		ug/kg dry	9.2	9.2	1	06/27/19	06/27/19 13:36	GM
n-Butylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
sec-Butylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
tert-Butylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Carbon disulfide	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Carbon tetrachloride	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Chlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Chloroethane	ND		ug/kg dry	4.6	4.6	1	06/27/19	06/27/19 13:36	GM
Chloroform	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Chloromethane	ND		ug/kg dry	4.6	4.6	1	06/27/19	06/27/19 13:36	GM
2-Chlorotoluene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
4-Chlorotoluene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Dibromochloromethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Dibromomethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2-Dichlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,3-Dichlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,4-Dichlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Dichlorodifluoromethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1-Dichloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2-Dichloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

DUP-1

9062409-04 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
1,1-Dichloroethene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
trans-1,2-Dichloroethene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Dichlorofluoromethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2-Dichloropropane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,3-Dichloropropane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
2,2-Dichloropropane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1-Dichloropropene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Ethylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Hexachlorobutadiene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
2-Hexanone	ND		ug/kg dry	9.2	9.2	1	06/27/19	06/27/19 13:36	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
4-Isopropyltoluene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
4-Methyl-2-pentanone	ND		ug/kg dry	9.2	9.2	1	06/27/19	06/27/19 13:36	GM
Methylene chloride	ND		ug/kg dry	18.3	18.3	1	06/27/19	06/27/19 13:36	GM
Naphthalene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
n-Propylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Styrene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Tetrachloroethene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Toluene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1,1-Trichloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,1,2-Trichloroethane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Trichloroethene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

DUP-1

9062409-04 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) (continued)									
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2,3-Trichloropropane	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Vinyl chloride	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
o-Xylene	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
m- & p-Xylenes	ND		ug/kg dry	4.6	1.8	1	06/27/19	06/27/19 13:36	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	120 %	06/27/19		06/27/19 13:36		
Surrogate: Toluene-d8			75-120	99 %	06/27/19		06/27/19 13:36		
Surrogate: 4-Bromofluorobenzene			70-120	95 %	06/27/19		06/27/19 13:36		
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Acenaphthylene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Anthracene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Benzo[a]anthracene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Benzo[b]fluoranthene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Benzo[k]fluoranthene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Benzo[ghi]perylene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Benzo[a]pyrene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Chrysene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Fluoranthene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Fluorene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Naphthalene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Phenanthrene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Pyrene	ND		ug/kg dry	10.6	10.6	1	06/26/19	06/27/19 12:55	WB
Surrogate: Nitrobenzene-d5			23-120	54 %	06/26/19		06/27/19 12:55		
Surrogate: 2-Fluorobiphenyl			30-115	60 %	06/26/19		06/27/19 12:55		
Surrogate: Terphenyl-d14			18-137	90 %	06/26/19		06/27/19 12:55		

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

DUP-1

9062409-04 (Soil)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 5035/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.03	1	06/27/19	06/27/19 12:47	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	ND		mg/kg dry	8.5	8.5	1	06/24/19	06/25/19 17:29	SJA
Surrogate: o-Terphenyl			70-130	89 %	06/24/19		06/25/19 17:29		
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	94		%			1	06/27/19	06/28/19 10:52	GEM
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.49		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Barium	11.8		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Cadmium	ND		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Chromium	8.76		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Lead	2.88		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Mercury	ND		mg/kg dry	0.0133	0.0133	1	06/24/19	06/25/19 13:35	VVD
Selenium	0.517		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Silver	ND		mg/kg dry	0.266	0.266	1	06/24/19	06/25/19 13:35	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.207		mg/kg dry	0.0778	0.0778	1	06/26/19	06/28/19 09:46	BMG
Wet Chemistry Performed at Enviro-Chem									
% Solids	93.2		%	1.00	1.00	1	06/26/19	06/26/19 16:00	FRD

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

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9062409-05 (Nonpotable Water)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)									
Acetone	ND		ug/L	10.0	10.0	1	06/27/19	06/27/19 15:05	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	06/27/19	06/27/19 15:05	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Benzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Bromobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Bromochloromethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Bromodichloromethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Bromoform	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Bromomethane	ND		ug/L	5.0	5.0	1	06/27/19	06/27/19 15:05	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	06/27/19	06/27/19 15:05	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	06/27/19	06/27/19 15:05	GM
n-Butylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Carbon disulfide	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Chlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Chloroethane	ND		ug/L	5.0	5.0	1	06/27/19	06/27/19 15:05	GM
Chloroform	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Chloromethane	ND		ug/L	5.0	5.0	1	06/27/19	06/27/19 15:05	GM
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Dibromochloromethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Dibromomethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TRIP BLANK

9062409-05 (Nonpotable Water)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)									
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Diisopropyl ether (DIPE)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	06/27/19	06/27/19 15:05	GM
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	06/27/19	06/27/19 15:05	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	06/27/19	06/27/19 15:05	GM
Naphthalene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
n-Propylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Styrene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Tetrachloroethene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Toluene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Trichloroethene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
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9062409-05 (Nonpotable Water)
Sample Date: 06/24/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)									
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Vinyl chloride	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
o-Xylene	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	06/27/19	06/27/19 15:05	GM
Surrogate: 1,2-Dichloroethane-d4			75-120	120 %	06/27/19		06/27/19 15:05		
Surrogate: Toluene-d8			75-120	96 %	06/27/19		06/27/19 15:05		
Surrogate: 4-Bromofluorobenzene			78-110	106 %	06/27/19		06/27/19 15:05		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Blank (B906370-BLK1)

Prepared & Analyzed: 06/27/19

Acetone	ND		10.0	ug/L
tert-Amyl alcohol (TAA)	ND		20.0	ug/L
tert-Amyl methyl ether (TAME)	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
Bromobenzene	ND		5.0	ug/L
Bromochloromethane	ND		5.0	ug/L
Bromodichloromethane	ND		5.0	ug/L
Bromoform	ND		5.0	ug/L
Bromomethane	ND		5.0	ug/L
tert-Butanol (TBA)	ND		15.0	ug/L
2-Butanone (MEK)	ND		10.0	ug/L
n-Butylbenzene	ND		5.0	ug/L
sec-Butylbenzene	ND		5.0	ug/L
tert-Butylbenzene	ND		5.0	ug/L
Carbon disulfide	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Chloroethane	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
Chloromethane	ND		5.0	ug/L
2-Chlorotoluene	ND		5.0	ug/L
4-Chlorotoluene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
Dibromomethane	ND		5.0	ug/L
1,2-Dichlorobenzene	ND		5.0	ug/L
1,3-Dichlorobenzene	ND		5.0	ug/L
1,4-Dichlorobenzene	ND		5.0	ug/L
Dichlorodifluoromethane	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Blank (B906370-BLK1)

Prepared & Analyzed: 06/27/19

1,2-Dichloroethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		5.0	ug/L
trans-1,2-Dichloroethene	ND		5.0	ug/L
Dichlorofluoromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
1,3-Dichloropropane	ND		5.0	ug/L
2,2-Dichloropropane	ND		5.0	ug/L
1,1-Dichloropropene	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
Diisopropyl ether (DIPE)	ND		5.0	ug/L
Ethyl tert-butyl ether (ETBE)	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Hexachlorobutadiene	ND		5.0	ug/L
2-Hexanone	ND		10.0	ug/L
Isopropylbenzene (Cumene)	ND		5.0	ug/L
4-Isopropyltoluene	ND		5.0	ug/L
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10.0	ug/L
Methylene chloride	ND		10.0	ug/L
Naphthalene	ND		5.0	ug/L
n-Propylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Tetrachloroethene	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
1,2,3-Trichlorobenzene	ND		5.0	ug/L
1,2,4-Trichlorobenzene	ND		5.0	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Blank (B906370-BLK1)

Prepared & Analyzed: 06/27/19

1,1,2-Trichloroethane	ND		5.0	ug/L						
Trichloroethene	ND		5.0	ug/L						
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/L						
1,2,3-Trichloropropane	ND		5.0	ug/L						
1,2,4-Trimethylbenzene	ND		5.0	ug/L						
1,3,5-Trimethylbenzene	ND		5.0	ug/L						
Vinyl chloride	ND		5.0	ug/L						
o-Xylene	ND		5.0	ug/L						
m- & p-Xylenes	ND		5.0	ug/L						
Xylenes, Total	ND		5.0	ug/L						
Tentatively Identified Compounds (TICs)	0.0			ug/L						
Surrogate: 1,2-Dichloroethane-d4	58.95			ug/L	50.0		118	75-120		
Surrogate: Toluene-d8	47.10			ug/L	50.0		94	75-120		
Surrogate: 4-Bromofluorobenzene	51.59			ug/L	50.0		103	78-110		

LCS (B906370-BS1)

Prepared & Analyzed: 06/27/19

Acetone	7.8	J	10.0	ug/L	10.0		78	25-140		
tert-Amyl alcohol (TAA)	22.4		20.0	ug/L	25.0		90	25-150		
tert-Amyl methyl ether (TAME)	4.3	J	5.0	ug/L	5.00		86	70-140		
Benzene	4.8	J	5.0	ug/L	5.00		96	70-140		
Bromobenzene	4.3	J	5.0	ug/L	5.00		85	70-140		
Bromochloromethane	5.2		5.0	ug/L	5.00		105	70-140		
Bromodichloromethane	5.1		5.0	ug/L	5.00		102	70-140		
Bromoform	3.9	J	5.0	ug/L	5.00		78	70-140		
Bromomethane	5.4		5.0	ug/L	5.00		108	25-150		
tert-Butanol (TBA)	27.0		15.0	ug/L	25.0		108	25-150		
2-Butanone (MEK)	9.1	J	10.0	ug/L	10.0		91	25-150		
n-Butylbenzene	4.9	J	5.0	ug/L	5.00		98	70-140		
sec-Butylbenzene	4.2	J	5.0	ug/L	5.00		85	70-140		
tert-Butylbenzene	4.1	J	5.0	ug/L	5.00		82	70-140		
Carbon disulfide	4.8	J	5.0	ug/L	5.00		96	70-140		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

LCS (B906370-BS1)

Prepared & Analyzed: 06/27/19

Carbon tetrachloride	5.1		5.0	ug/L	5.00		101	70-140		
Chlorobenzene	4.3	J	5.0	ug/L	5.00		87	70-140		
Chloroethane	5.0		5.0	ug/L	5.00		100	25-150		
Chloroform	5.1		5.0	ug/L	5.00		102	70-140		
Chloromethane	6.2		5.0	ug/L	5.00		124	25-150		
2-Chlorotoluene	4.5	J	5.0	ug/L	5.00		89	70-140		
4-Chlorotoluene	4.6	J	5.0	ug/L	5.00		92	70-140		
Dibromochloromethane	4.4	J	5.0	ug/L	5.00		88	70-140		
1,2-Dibromo-3-chloropropane	4.4	J	5.0	ug/L	5.00		88	70-140		
1,2-Dibromoethane (EDB)	4.4	J	5.0	ug/L	5.00		88	70-140		
Dibromomethane	5.4		5.0	ug/L	5.00		108	70-140		
1,2-Dichlorobenzene	4.4	J	5.0	ug/L	5.00		88	70-140		
1,3-Dichlorobenzene	4.6	J	5.0	ug/L	5.00		92	70-140		
1,4-Dichlorobenzene	4.5	J	5.0	ug/L	5.00		89	70-140		
Dichlorodifluoromethane	6.4		5.0	ug/L	5.00		128	25-150		
1,1-Dichloroethane	5.3		5.0	ug/L	5.00		106	70-140		
1,2-Dichloroethane	5.6		5.0	ug/L	5.00		111	70-140		
1,1-Dichloroethene	4.5	J	5.0	ug/L	5.00		91	70-140		
cis-1,2-Dichloroethene	4.7	J	5.0	ug/L	5.00		93	70-140		
trans-1,2-Dichloroethene	4.5	J	5.0	ug/L	5.00		91	70-140		
Dichlorofluoromethane	4.7	J	5.0	ug/L	5.00		94	70-140		
1,2-Dichloropropane	4.9	J	5.0	ug/L	5.00		98	70-140		
1,3-Dichloropropane	4.7	J	5.0	ug/L	5.00		93	70-140		
2,2-Dichloropropane	5.6		5.0	ug/L	5.00		111	70-140		
1,1-Dichloropropene	4.9	J	5.0	ug/L	5.00		97	70-140		
cis-1,3-Dichloropropene	4.3	J	5.0	ug/L	5.00		86	70-140		
trans-1,3-Dichloropropene	4.4	J	5.0	ug/L	5.00		88	70-140		
Diisopropyl ether (DIPE)	4.2	J	5.0	ug/L	5.00		84	70-140		
Ethyl tert-butyl ether (ETBE)	4.5	J	5.0	ug/L	5.00		91	70-140		
Ethylbenzene	4.3	J	5.0	ug/L	5.00		86	70-140		
Hexachlorobutadiene	4.6	J	5.0	ug/L	5.00		92	70-140		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

LCS (B906370-BS1)

Prepared & Analyzed: 06/27/19

2-Hexanone	8.8	J	10.0	ug/L	10.0		88	25-150		
Isopropylbenzene (Cumene)	4.1	J	5.0	ug/L	5.00		82	70-140		
4-Isopropyltoluene	4.1	J	5.0	ug/L	5.00		81	70-140		
Methyl tert-butyl ether (MTBE)	4.2	J	5.0	ug/L	5.00		85	70-140		
4-Methyl-2-pentanone	8.4	J	10.0	ug/L	10.0		84	25-150		
Methylene chloride	5.2	J	10.0	ug/L	5.00		104	25-150		
Naphthalene	4.3	J	5.0	ug/L	5.00		86	70-140		
n-Propylbenzene	4.7	J	5.0	ug/L	5.00		93	70-140		
Styrene	4.0	J	5.0	ug/L	5.00		80	70-140		
1,1,1,2-Tetrachloroethane	4.3	J	5.0	ug/L	5.00		86	70-140		
1,1,2,2-Tetrachloroethane	4.7	J	5.0	ug/L	5.00		95	70-140		
Tetrachloroethene	4.1	J	5.0	ug/L	5.00		82	70-140		
Toluene	4.7	J	5.0	ug/L	5.00		94	70-140		
1,2,3-Trichlorobenzene	4.8	J	5.0	ug/L	5.00		95	70-140		
1,2,4-Trichlorobenzene	4.6	J	5.0	ug/L	5.00		92	70-140		
1,1,1-Trichloroethane	5.0	J	5.0	ug/L	5.00		99	70-140		
1,1,2-Trichloroethane	4.6	J	5.0	ug/L	5.00		92	70-140		
Trichloroethene	4.7	J	5.0	ug/L	5.00		94	70-140		
Trichlorofluoromethane (Freon 11)	4.9	J	5.0	ug/L	5.00		97	70-140		
1,2,3-Trichloropropane	5.1		5.0	ug/L	5.00		102	70-140		
1,2,4-Trimethylbenzene	3.9	J	5.0	ug/L	5.00		79	70-140		
1,3,5-Trimethylbenzene	4.2	J	5.0	ug/L	5.00		84	70-140		
Vinyl chloride	6.0		5.0	ug/L	5.00		120	25-150		
o-Xylene	3.9	J	5.0	ug/L	5.00		79	70-140		
m- & p-Xylenes	7.7		5.0	ug/L	10.0		77	70-140		
Xylenes, Total	11.6		5.0	ug/L	15.0		77	70-140		
Surrogate: 1,2-Dichloroethane-d4	56.14			ug/L	50.0		112	75-120		
Surrogate: Toluene-d8	48.46			ug/L	50.0		97	75-120		
Surrogate: 4-Bromofluorobenzene	54.02			ug/L	50.0		108	78-110		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Duplicate (B906370-DUP1)		Source: 9062610-01		Prepared & Analyzed: 06/27/19	
Acetone	ND	10.0	ug/L	ND	20
tert-Amyl alcohol (TAA)	ND	20.0	ug/L	ND	20
tert-Amyl methyl ether (TAME)	ND	5.0	ug/L	ND	20
Benzene	ND	5.0	ug/L	ND	20
Bromobenzene	ND	5.0	ug/L	ND	20
Bromochloromethane	ND	5.0	ug/L	ND	20
Bromodichloromethane	ND	5.0	ug/L	ND	20
Bromoform	ND	5.0	ug/L	ND	20
Bromomethane	ND	5.0	ug/L	ND	20
tert-Butanol (TBA)	ND	15.0	ug/L	ND	20
2-Butanone (MEK)	ND	10.0	ug/L	ND	20
n-Butylbenzene	ND	5.0	ug/L	ND	20
sec-Butylbenzene	ND	5.0	ug/L	ND	20
tert-Butylbenzene	ND	5.0	ug/L	ND	20
Carbon disulfide	ND	5.0	ug/L	ND	20
Carbon tetrachloride	ND	5.0	ug/L	ND	20
Chlorobenzene	ND	5.0	ug/L	ND	20
Chloroethane	ND	5.0	ug/L	ND	20
Chloroform	ND	5.0	ug/L	ND	20
Chloromethane	ND	5.0	ug/L	ND	20
2-Chlorotoluene	ND	5.0	ug/L	ND	20
4-Chlorotoluene	ND	5.0	ug/L	ND	20
Dibromochloromethane	ND	5.0	ug/L	ND	20
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	ND	20
1,2-Dibromoethane (EDB)	ND	5.0	ug/L	ND	20
Dibromomethane	ND	5.0	ug/L	ND	20
1,2-Dichlorobenzene	ND	5.0	ug/L	ND	20
1,3-Dichlorobenzene	ND	5.0	ug/L	ND	20
1,4-Dichlorobenzene	ND	5.0	ug/L	ND	20
Dichlorodifluoromethane	ND	5.0	ug/L	ND	20
1,1-Dichloroethane	ND	5.0	ug/L	ND	20

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Duplicate (B906370-DUP1)	Source: 9062610-01		Prepared & Analyzed: 06/27/19							
1,2-Dichloroethane	ND	5.0	ug/L	ND					20	
1,1-Dichloroethene	ND	5.0	ug/L	ND					20	
cis-1,2-Dichloroethene	ND	5.0	ug/L	ND					20	
trans-1,2-Dichloroethene	ND	5.0	ug/L	ND					20	
Dichlorofluoromethane	ND	5.0	ug/L	ND					20	
1,2-Dichloropropane	ND	5.0	ug/L	ND					20	
1,3-Dichloropropane	ND	5.0	ug/L	ND					20	
2,2-Dichloropropane	ND	5.0	ug/L	ND					20	
1,1-Dichloropropene	ND	5.0	ug/L	ND					20	
cis-1,3-Dichloropropene	ND	5.0	ug/L	ND					20	
trans-1,3-Dichloropropene	ND	5.0	ug/L	ND					20	
Diisopropyl ether (DIPE)	ND	5.0	ug/L	ND					20	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/L	ND					20	
Ethylbenzene	ND	5.0	ug/L	ND					20	
Hexachlorobutadiene	ND	5.0	ug/L	ND					20	
2-Hexanone	ND	10.0	ug/L	ND					20	
Isopropylbenzene (Cumene)	ND	5.0	ug/L	ND					20	
4-Isopropyltoluene	ND	5.0	ug/L	ND					20	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	ND					20	
4-Methyl-2-pentanone	ND	10.0	ug/L	ND					20	
Methylene chloride	ND	10.0	ug/L	ND					20	
Naphthalene	ND	5.0	ug/L	ND					20	
n-Propylbenzene	ND	5.0	ug/L	ND					20	
Styrene	ND	5.0	ug/L	ND					20	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	ND					20	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	ND					20	
Tetrachloroethene	ND	5.0	ug/L	ND					20	
Toluene	ND	5.0	ug/L	ND					20	
1,2,3-Trichlorobenzene	ND	5.0	ug/L	ND					20	
1,2,4-Trichlorobenzene	ND	5.0	ug/L	ND					20	
1,1,1-Trichloroethane	ND	5.0	ug/L	ND					20	

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Duplicate (B906370-DUP1)			Source: 9062610-01			Prepared & Analyzed: 06/27/19				
1,1,2-Trichloroethane	ND		5.0	ug/L		ND				20
Trichloroethene	ND		5.0	ug/L		ND				20
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/L		ND				20
1,2,3-Trichloropropane	ND		5.0	ug/L		ND				20
1,2,4-Trimethylbenzene	ND		5.0	ug/L		ND				20
1,3,5-Trimethylbenzene	ND		5.0	ug/L		ND				20
Vinyl chloride	ND		5.0	ug/L		ND				20
o-Xylene	ND		5.0	ug/L		ND				20
m- & p-Xylenes	ND		5.0	ug/L		ND				20
Xylenes, Total	ND		5.0	ug/L		ND				20
Tentatively Identified Compounds (TICs)	0.0			ug/L		0.0				200
Surrogate: 1,2-Dichloroethane-d4	62.08	S-FAIL		ug/L	50.0		124	75-120		
Surrogate: Toluene-d8	47.12			ug/L	50.0		94	75-120		
Surrogate: 4-Bromofluorobenzene	51.53			ug/L	50.0		103	78-110		

Matrix Spike (B906370-MS1)			Source: 9062610-01			Prepared & Analyzed: 06/27/19				
Acetone	12.0		10.0	ug/L	10.0	ND	120	25-150		
tert-Amyl alcohol (TAA)	67.4		20.0	ug/L	50.0	ND	135	25-150		
tert-Amyl methyl ether (TAME)	9.0		5.0	ug/L	10.0	ND	90	70-140		
Benzene	10.4		5.0	ug/L	10.0	ND	104	70-140		
Bromobenzene	8.8		5.0	ug/L	10.0	ND	88	70-140		
Bromochloromethane	10.6		5.0	ug/L	10.0	ND	106	70-140		
Bromodichloromethane	11.0		5.0	ug/L	10.0	ND	110	70-140		
Bromoform	7.8		5.0	ug/L	10.0	ND	78	70-140		
Bromomethane	5.4		5.0	ug/L	10.0	ND	54	25-150		
tert-Butanol (TBA)	72.6		15.0	ug/L	50.0	ND	145	25-150		
2-Butanone (MEK)	11.0		10.0	ug/L	10.0	ND	110	25-150		
n-Butylbenzene	8.3		5.0	ug/L	10.0	ND	83	70-140		
sec-Butylbenzene	8.6		5.0	ug/L	10.0	ND	86	70-140		
tert-Butylbenzene	8.4		5.0	ug/L	10.0	ND	84	70-140		
Carbon disulfide	9.3		5.0	ug/L	10.0	ND	93	70-140		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Matrix Spike (B906370-MS1)	Source: 9062610-01		Prepared & Analyzed: 06/27/19							
Carbon tetrachloride	11.1		5.0	ug/L	10.0	ND	111	70-140		
Chlorobenzene	9.1		5.0	ug/L	10.0	ND	91	70-140		
Chloroethane	10.7		5.0	ug/L	10.0	ND	107	25-150		
Chloroform	11.6		5.0	ug/L	10.0	ND	116	70-140		
Chloromethane	12.9		5.0	ug/L	10.0	ND	129	25-150		
2-Chlorotoluene	9.3		5.0	ug/L	10.0	ND	93	70-140		
4-Chlorotoluene	9.2		5.0	ug/L	10.0	ND	92	70-140		
Dibromochloromethane	9.1		5.0	ug/L	10.0	ND	91	70-140		
1,2-Dibromo-3-chloropropane	9.4		5.0	ug/L	10.0	ND	94	70-140		
1,2-Dibromoethane (EDB)	9.5		5.0	ug/L	10.0	ND	95	70-140		
Dibromomethane	10.8		5.0	ug/L	10.0	ND	108	70-140		
1,2-Dichlorobenzene	8.5		5.0	ug/L	10.0	ND	85	70-140		
1,3-Dichlorobenzene	8.7		5.0	ug/L	10.0	ND	87	70-140		
1,4-Dichlorobenzene	8.6		5.0	ug/L	10.0	ND	86	70-140		
Dichlorodifluoromethane	14.0		5.0	ug/L	10.0	ND	140	25-150		
1,1-Dichloroethane	11.4		5.0	ug/L	10.0	ND	114	70-140		
1,2-Dichloroethane	11.6		5.0	ug/L	10.0	ND	116	70-140		
1,1-Dichloroethene	9.1		5.0	ug/L	10.0	ND	91	70-140		
cis-1,2-Dichloroethene	9.7		5.0	ug/L	10.0	ND	97	70-140		
trans-1,2-Dichloroethene	9.2		5.0	ug/L	10.0	ND	92	70-140		
Dichlorofluoromethane	10.4		5.0	ug/L	10.0	ND	104	70-140		
1,2-Dichloropropane	11.5		5.0	ug/L	10.0	ND	115	70-140		
1,3-Dichloropropane	10.1		5.0	ug/L	10.0	ND	101	70-140		
2,2-Dichloropropane	9.8		5.0	ug/L	10.0	ND	98	70-140		
1,1-Dichloropropene	10.7		5.0	ug/L	10.0	ND	107	70-140		
cis-1,3-Dichloropropene	9.0		5.0	ug/L	10.0	ND	90	70-140		
trans-1,3-Dichloropropene	9.1		5.0	ug/L	10.0	ND	91	70-140		
Diisopropyl ether (DIPE)	7.9		5.0	ug/L	10.0	ND	79	70-140		
Ethyl tert-butyl ether (ETBE)	9.4		5.0	ug/L	10.0	ND	94	70-140		
Ethylbenzene	8.8		5.0	ug/L	10.0	ND	88	70-140		
Hexachlorobutadiene	6.5		5.0	ug/L	10.0	ND	65	70-140		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906370 - GCMS-WATER-VOLATILES

Matrix Spike (B906370-MS1)		Source: 9062610-01		Prepared & Analyzed: 06/27/19						
2-Hexanone	10.1		10.0	ug/L	10.0	ND	101	25-150		
Isopropylbenzene (Cumene)	8.5		5.0	ug/L	10.0	ND	85	70-140		
4-Isopropyltoluene	7.6		5.0	ug/L	10.0	ND	76	70-140		
Methyl tert-butyl ether (MTBE)	9.1		5.0	ug/L	10.0	ND	91	70-140		
4-Methyl-2-pentanone	9.4	J	10.0	ug/L	10.0	ND	94	25-150		
Methylene chloride	9.7	J	10.0	ug/L	10.0	ND	97	25-150		
Naphthalene	7.4		5.0	ug/L	10.0	ND	74	70-140		
n-Propylbenzene	9.4		5.0	ug/L	10.0	ND	94	70-140		
Styrene	8.1		5.0	ug/L	10.0	ND	81	70-140		
1,1,1,2-Tetrachloroethane	8.7		5.0	ug/L	10.0	ND	87	70-140		
1,1,2,2-Tetrachloroethane	10.3		5.0	ug/L	10.0	ND	103	70-140		
Tetrachloroethene	8.0		5.0	ug/L	10.0	ND	80	70-140		
Toluene	9.7		5.0	ug/L	10.0	ND	97	70-140		
1,2,3-Trichlorobenzene	7.3		5.0	ug/L	10.0	ND	73	70-140		
1,2,4-Trichlorobenzene	7.2		5.0	ug/L	10.0	ND	72	70-140		
1,1,1-Trichloroethane	11.1		5.0	ug/L	10.0	ND	111	70-140		
1,1,2-Trichloroethane	9.6		5.0	ug/L	10.0	ND	96	70-140		
Trichloroethene	10.0		5.0	ug/L	10.0	ND	100	70-140		
Trichlorofluoromethane (Freon 11)	10.4		5.0	ug/L	10.0	ND	104	70-140		
1,2,3-Trichloropropane	10.5		5.0	ug/L	10.0	ND	105	70-140		
1,2,4-Trimethylbenzene	8.0		5.0	ug/L	10.0	ND	80	70-140		
1,3,5-Trimethylbenzene	7.9		5.0	ug/L	10.0	ND	79	70-140		
Vinyl chloride	12.3		5.0	ug/L	10.0	ND	123	25-150		
o-Xylene	8.1		5.0	ug/L	10.0	ND	81	70-140		
m- & p-Xylenes	17.0		5.0	ug/L	20.0	ND	85	70-140		
Xylenes, Total	25.0		5.0	ug/L	30.0	ND	83	70-140		
Surrogate: 1,2-Dichloroethane-d4	57.57			ug/L	50.0		115	75-120		
Surrogate: Toluene-d8	48.41			ug/L	50.0		97	75-120		
Surrogate: 4-Bromofluorobenzene	54.55			ug/L	50.0		109	78-110		

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Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Blank (B906371-BLK1)

Prepared & Analyzed: 06/27/19

Acetone	ND		10.0	ug/kg wet
tert-Amyl alcohol (TAA)	ND		50.0	ug/kg wet
tert-Amyl methyl ether (TAME)	ND		5.0	ug/kg wet
Benzene	ND		5.0	ug/kg wet
Bromobenzene	ND		5.0	ug/kg wet
Bromochloromethane	ND		5.0	ug/kg wet
Bromodichloromethane	ND		5.0	ug/kg wet
Bromoform	ND		5.0	ug/kg wet
Bromomethane	ND		5.0	ug/kg wet
tert-Butanol (TBA)	ND		50.0	ug/kg wet
2-Butanone (MEK)	ND		10.0	ug/kg wet
n-Butylbenzene	ND		5.0	ug/kg wet
sec-Butylbenzene	ND		5.0	ug/kg wet
tert-Butylbenzene	ND		5.0	ug/kg wet
Carbon disulfide	ND		5.0	ug/kg wet
Carbon tetrachloride	ND		5.0	ug/kg wet
Chlorobenzene	ND		5.0	ug/kg wet
Chloroethane	ND		5.0	ug/kg wet
Chloroform	ND		5.0	ug/kg wet
Chloromethane	ND		5.0	ug/kg wet
2-Chlorotoluene	ND		5.0	ug/kg wet
4-Chlorotoluene	ND		5.0	ug/kg wet
1,2-Dibromo-3-chloropropane	ND		5.0	ug/kg wet
Dibromochloromethane	ND		5.0	ug/kg wet
1,2-Dibromoethane (EDB)	ND		5.0	ug/kg wet
Dibromomethane	ND		5.0	ug/kg wet
1,2-Dichlorobenzene	ND		5.0	ug/kg wet
1,3-Dichlorobenzene	ND		5.0	ug/kg wet
1,4-Dichlorobenzene	ND		5.0	ug/kg wet
Dichlorodifluoromethane	ND		5.0	ug/kg wet
1,1-Dichloroethane	ND		5.0	ug/kg wet

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Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Blank (B906371-BLK1)

Prepared & Analyzed: 06/27/19

1,2-Dichloroethane	ND		5.0	ug/kg wet
1,1-Dichloroethene	ND		5.0	ug/kg wet
cis-1,2-Dichloroethene	ND		5.0	ug/kg wet
trans-1,2-Dichloroethene	ND		5.0	ug/kg wet
Dichlorofluoromethane	ND		5.0	ug/kg wet
1,2-Dichloropropane	ND		5.0	ug/kg wet
1,3-Dichloropropane	ND		5.0	ug/kg wet
2,2-Dichloropropane	ND		5.0	ug/kg wet
1,1-Dichloropropene	ND		5.0	ug/kg wet
cis-1,3-Dichloropropene	ND		5.0	ug/kg wet
trans-1,3-Dichloropropene	ND		5.0	ug/kg wet
Diisopropyl ether (DIPE)	ND		5.0	ug/kg wet
Ethyl tert-butyl ether (ETBE)	ND		5.0	ug/kg wet
Ethylbenzene	ND		5.0	ug/kg wet
Hexachlorobutadiene	ND		5.0	ug/kg wet
2-Hexanone	ND		10.0	ug/kg wet
Isopropylbenzene (Cumene)	ND		5.0	ug/kg wet
4-Isopropyltoluene	ND		5.0	ug/kg wet
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/kg wet
4-Methyl-2-pentanone	ND		10.0	ug/kg wet
Methylene chloride	ND		20.0	ug/kg wet
Naphthalene	ND		5.0	ug/kg wet
n-Propylbenzene	ND		5.0	ug/kg wet
Styrene	ND		5.0	ug/kg wet
1,1,1,2-Tetrachloroethane	ND		5.0	ug/kg wet
1,1,2,2-Tetrachloroethane	ND		5.0	ug/kg wet
Tetrachloroethene	ND		5.0	ug/kg wet
Toluene	ND		5.0	ug/kg wet
1,2,3-Trichlorobenzene	ND		5.0	ug/kg wet
1,2,4-Trichlorobenzene	ND		5.0	ug/kg wet
1,1,1-Trichloroethane	ND		5.0	ug/kg wet

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Blank (B906371-BLK1)

Prepared & Analyzed: 06/27/19

1,1,2-Trichloroethane	ND		5.0	ug/kg wet						
Trichloroethene	ND		5.0	ug/kg wet						
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/kg wet						
1,2,3-Trichloropropane	ND		5.0	ug/kg wet						
1,2,4-Trimethylbenzene	ND		5.0	ug/kg wet						
1,3,5-Trimethylbenzene	ND		5.0	ug/kg wet						
Vinyl chloride	ND		5.0	ug/kg wet						
o-Xylene	ND		5.0	ug/kg wet						
m- & p-Xylenes	ND		5.0	ug/kg wet						
Surrogate: 1,2-Dichloroethane-d4	53.0			ug/L	50.0		106	70-130		
Surrogate: Toluene-d8	51.1			ug/L	50.0		102	75-120		
Surrogate: 4-Bromofluorobenzene	46.9			ug/L	50.0		94	70-120		

LCS (B906371-BS1)

Prepared & Analyzed: 06/27/19

Acetone	6.3	J	10.0	ug/kg wet	10.0		63	50-150		
tert-Amyl alcohol (TAA)	17.3	J	50.0	ug/kg wet	25.0		69	50-150		
tert-Amyl methyl ether (TAME)	4.1	J	5.0	ug/kg wet	5.00		82	50-150		
Benzene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
Bromobenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
Bromochloromethane	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
Bromodichloromethane	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
Bromoform	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
Bromomethane	5.6		5.0	ug/kg wet	5.00		112	50-150		
tert-Butanol (TBA)	22.6	J	50.0	ug/kg wet	25.0		90	50-150		
2-Butanone (MEK)	6.7	J	10.0	ug/kg wet	10.0		67	50-150		
n-Butylbenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
sec-Butylbenzene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
tert-Butylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
Carbon disulfide	5.2		5.0	ug/kg wet	5.00		105	50-150		
Carbon tetrachloride	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
Chlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
Chloroethane	4.8	J	5.0	ug/kg wet	5.00		96	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

LCS (B906371-BS1)

Prepared & Analyzed: 06/27/19

Chloroform	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
Chloromethane	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
2-Chlorotoluene	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
4-Chlorotoluene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,2-Dibromo-3-chloropropane	5.0		5.0	ug/kg wet	5.00		100	50-150		
Dibromochloromethane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,2-Dibromoethane (EDB)	4.3	J	5.0	ug/kg wet	5.00		86	50-150		
Dibromomethane	4.6	J	5.0	ug/kg wet	5.00		92	50-150		
1,2-Dichlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
1,3-Dichlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
1,4-Dichlorobenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
Dichlorodifluoromethane	5.0		5.0	ug/kg wet	5.00		101	50-150		
1,1-Dichloroethane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
1,2-Dichloroethane	4.5	J	5.0	ug/kg wet	5.00		91	50-150		
1,1-Dichloroethene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
cis-1,2-Dichloroethene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
trans-1,2-Dichloroethene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
Dichlorofluoromethane	4.2	J	5.0	ug/kg wet	5.00		84	50-150		
1,2-Dichloropropane	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
1,3-Dichloropropane	4.4	J	5.0	ug/kg wet	5.00		87	50-150		
2,2-Dichloropropane	4.8	J	5.0	ug/kg wet	5.00		97	50-150		
1,1-Dichloropropene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
cis-1,3-Dichloropropene	4.0	J	5.0	ug/kg wet	5.00		81	50-150		
trans-1,3-Dichloropropene	4.0	J	5.0	ug/kg wet	5.00		80	50-150		
Diisopropyl ether (DIPE)	3.9	J	5.0	ug/kg wet	5.00		77	50-150		
Ethyl tert-butyl ether (ETBE)	4.0	J	5.0	ug/kg wet	5.00		79	50-150		
Ethylbenzene	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
Hexachlorobutadiene	5.7		5.0	ug/kg wet	5.00		113	50-150		
2-Hexanone	5.0	J	10.0	ug/kg wet	10.0		50	50-150		
Isopropylbenzene (Cumene)	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
4-Isopropyltoluene	4.8	J	5.0	ug/kg wet	5.00		95	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

LCS (B906371-BS1)

Prepared & Analyzed: 06/27/19

Methyl tert-butyl ether (MTBE)	4.1	J	5.0	ug/kg wet	5.00		83	50-150		
4-Methyl-2-pentanone	7.3	J	10.0	ug/kg wet	10.0		73	50-150		
Methylene chloride	11.7	J	20.0	ug/kg wet	5.00		234	0-200		
Naphthalene	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
n-Propylbenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
Styrene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,1,1,2-Tetrachloroethane	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
1,1,2,2-Tetrachloroethane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
Tetrachloroethene	5.0	J	5.0	ug/kg wet	5.00		99	50-150		
Toluene	4.7	J	5.0	ug/kg wet	5.00		95	50-150		
1,2,3-Trichlorobenzene	5.2		5.0	ug/kg wet	5.00		103	50-150		
1,2,4-Trichlorobenzene	5.3		5.0	ug/kg wet	5.00		106	50-150		
1,1,1-Trichloroethane	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
1,1,2-Trichloroethane	4.5	J	5.0	ug/kg wet	5.00		91	50-150		
Trichloroethene	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
Trichlorofluoromethane (Freon 11)	5.0	J	5.0	ug/kg wet	5.00		100	50-150		
1,2,3-Trichloropropane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,2,4-Trimethylbenzene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
1,3,5-Trimethylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
Vinyl chloride	5.0		5.0	ug/kg wet	5.00		100	50-150		
o-Xylene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
m- & p-Xylenes	9.6		5.0	ug/kg wet	10.0		96	50-150		
Surrogate: 1,2-Dichloroethane-d4	52.2			ug/L	50.0		104	70-130		
Surrogate: Toluene-d8	52.3			ug/L	50.0		105	75-120		
Surrogate: 4-Bromofluorobenzene	49.2			ug/L	50.0		98	70-120		

Duplicate (B906371-DUP1)

Source: 9062625-04

Prepared & Analyzed: 06/27/19

Acetone	ND		10.4	ug/kg dry		ND			20	
tert-Amyl alcohol (TAA)	ND		52.1	ug/kg dry		ND			20	
tert-Amyl methyl ether (TAME)	ND		5.2	ug/kg dry		ND			20	
Benzene	ND		5.2	ug/kg dry		ND			20	
Bromobenzene	ND		5.2	ug/kg dry		ND			20	

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Duplicate (B906371-DUP1)	Source: 9062625-04		Prepared & Analyzed: 06/27/19							
Bromochloromethane	ND	5.2	ug/kg dry	ND					20	
Bromodichloromethane	ND	5.2	ug/kg dry	ND					20	
Bromoform	ND	5.2	ug/kg dry	ND					20	
Bromomethane	ND	5.2	ug/kg dry	ND					20	
tert-Butanol (TBA)	ND	52.1	ug/kg dry	ND					20	
2-Butanone (MEK)	ND	10.4	ug/kg dry	ND					20	
n-Butylbenzene	ND	5.2	ug/kg dry	ND					20	
sec-Butylbenzene	ND	5.2	ug/kg dry	ND					20	
tert-Butylbenzene	ND	5.2	ug/kg dry	ND					20	
Carbon disulfide	ND	5.2	ug/kg dry	ND					20	
Carbon tetrachloride	ND	5.2	ug/kg dry	ND					20	
Chlorobenzene	ND	5.2	ug/kg dry	ND					20	
Chloroethane	ND	5.2	ug/kg dry	ND					20	
Chloroform	ND	5.2	ug/kg dry	ND					20	
Chloromethane	ND	5.2	ug/kg dry	ND					20	
2-Chlorotoluene	ND	5.2	ug/kg dry	ND					20	
4-Chlorotoluene	ND	5.2	ug/kg dry	ND					20	
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg dry	ND					20	
Dibromochloromethane	ND	5.2	ug/kg dry	ND					20	
1,2-Dibromoethane (EDB)	ND	5.2	ug/kg dry	ND					20	
Dibromomethane	ND	5.2	ug/kg dry	ND					20	
1,2-Dichlorobenzene	ND	5.2	ug/kg dry	ND					20	
1,3-Dichlorobenzene	ND	5.2	ug/kg dry	ND					20	
1,4-Dichlorobenzene	ND	5.2	ug/kg dry	ND					20	
Dichlorodifluoromethane	ND	5.2	ug/kg dry	ND					20	
1,1-Dichloroethane	ND	5.2	ug/kg dry	ND					20	
1,2-Dichloroethane	ND	5.2	ug/kg dry	ND					20	
1,1-Dichloroethene	ND	5.2	ug/kg dry	ND					20	
cis-1,2-Dichloroethene	ND	5.2	ug/kg dry	ND					20	
trans-1,2-Dichloroethene	ND	5.2	ug/kg dry	ND					20	
Dichlorofluoromethane	ND	5.2	ug/kg dry	ND					20	

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Duplicate (B906371-DUP1)	Source: 9062625-04		Prepared & Analyzed: 06/27/19							
1,2-Dichloropropane	ND	5.2	ug/kg dry	ND					20	
1,3-Dichloropropane	ND	5.2	ug/kg dry	ND					20	
2,2-Dichloropropane	ND	5.2	ug/kg dry	ND					20	
1,1-Dichloropropene	ND	5.2	ug/kg dry	ND					20	
cis-1,3-Dichloropropene	ND	5.2	ug/kg dry	ND					20	
trans-1,3-Dichloropropene	ND	5.2	ug/kg dry	ND					20	
Diisopropyl ether (DIPE)	ND	5.2	ug/kg dry	ND					20	
Ethyl tert-butyl ether (ETBE)	ND	5.2	ug/kg dry	ND					20	
Ethylbenzene	ND	5.2	ug/kg dry	ND					20	
Hexachlorobutadiene	ND	5.2	ug/kg dry	ND					20	
2-Hexanone	ND	10.4	ug/kg dry	ND					20	
Isopropylbenzene (Cumene)	ND	5.2	ug/kg dry	ND					20	
4-Isopropyltoluene	ND	5.2	ug/kg dry	ND					20	
Methyl tert-butyl ether (MTBE)	ND	5.2	ug/kg dry	ND					20	
4-Methyl-2-pentanone	ND	10.4	ug/kg dry	ND					20	
Methylene chloride	ND	20.8	ug/kg dry	22.9					20	
Naphthalene	ND	5.2	ug/kg dry	ND					20	
n-Propylbenzene	ND	5.2	ug/kg dry	ND					20	
Styrene	ND	5.2	ug/kg dry	ND					20	
1,1,1,2-Tetrachloroethane	ND	5.2	ug/kg dry	ND					20	
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg dry	ND					20	
Tetrachloroethene	ND	5.2	ug/kg dry	ND					20	
Toluene	ND	5.2	ug/kg dry	ND					20	
1,2,3-Trichlorobenzene	ND	5.2	ug/kg dry	ND					20	
1,2,4-Trichlorobenzene	ND	5.2	ug/kg dry	ND					20	
1,1,1-Trichloroethane	ND	5.2	ug/kg dry	ND					20	
1,1,2-Trichloroethane	ND	5.2	ug/kg dry	ND					20	
Trichloroethene	ND	5.2	ug/kg dry	ND					20	
Trichlorofluoromethane (Freon 11)	ND	5.2	ug/kg dry	ND					20	
1,2,3-Trichloropropane	ND	5.2	ug/kg dry	ND					20	
1,2,4-Trimethylbenzene	ND	5.2	ug/kg dry	ND					20	

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Duplicate (B906371-DUP1)		Source: 9062625-04		Prepared & Analyzed: 06/27/19						
1,3,5-Trimethylbenzene	ND		5.2	ug/kg dry		ND				20
Vinyl chloride	ND		5.2	ug/kg dry		ND				20
o-Xylene	ND		5.2	ug/kg dry		ND				20
m- & p-Xylenes	ND		5.2	ug/kg dry		ND				20
Surrogate: 1,2-Dichloroethane-d4	48.6			ug/L	50.0		97	70-130		
Surrogate: Toluene-d8	51.5			ug/L	50.0		103	75-120		
Surrogate: 4-Bromofluorobenzene	47.8			ug/L	50.0		96	70-120		

Matrix Spike (B906371-MS1)		Source: 9062625-04		Prepared & Analyzed: 06/27/19						
Acetone	ND		10.4	ug/kg dry	20.8	ND		0-200		
tert-Amyl alcohol (TAA)	32.1	J	52.1	ug/kg dry	52.1	ND	62	0-200		
tert-Amyl methyl ether (TAME)	8.1		5.2	ug/kg dry	10.4	ND	78	0-200		
Benzene	8.0		5.2	ug/kg dry	10.4	ND	77	66-142		
Bromobenzene	7.6		5.2	ug/kg dry	10.4	ND	73	0-200		
Bromochloromethane	7.8		5.2	ug/kg dry	10.4	ND	75	0-200		
Bromodichloromethane	7.7		5.2	ug/kg dry	10.4	ND	74	0-200		
Bromoform	7.9		5.2	ug/kg dry	10.4	ND	76	0-200		
Bromomethane	8.1		5.2	ug/kg dry	10.4	ND	77	0-200		
tert-Butanol (TBA)	38.7	J	52.1	ug/kg dry	52.1	ND	74	0-200		
2-Butanone (MEK)	11.5		10.4	ug/kg dry	20.8	ND	55	0-200		
n-Butylbenzene	5.3		5.2	ug/kg dry	10.4	ND	50	0-200		
sec-Butylbenzene	6.5		5.2	ug/kg dry	10.4	ND	62	0-200		
tert-Butylbenzene	6.8		5.2	ug/kg dry	10.4	ND	65	0-200		
Carbon disulfide	8.2		5.2	ug/kg dry	10.4	ND	79	0-200		
Carbon tetrachloride	8.0		5.2	ug/kg dry	10.4	ND	77	0-200		
Chlorobenzene	7.6		5.2	ug/kg dry	10.4	ND	73	60-133		
Chloroethane	7.8		5.2	ug/kg dry	10.4	ND	75	0-200		
Chloroform	8.2		5.2	ug/kg dry	10.4	ND	79	0-200		
Chloromethane	7.8		5.2	ug/kg dry	10.4	ND	75	0-200		
2-Chlorotoluene	6.6		5.2	ug/kg dry	10.4	ND	64	0-200		
4-Chlorotoluene	6.3		5.2	ug/kg dry	10.4	ND	60	0-200		
1,2-Dibromo-3-chloropropane	8.5		5.2	ug/kg dry	10.4	ND	82	0-200		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Matrix Spike (B906371-MS1)		Source: 9062625-04		Prepared & Analyzed: 06/27/19						
Dibromochloromethane	7.9		5.2	ug/kg dry	10.4	ND	76	0-200		
1,2-Dibromoethane (EDB)	7.7		5.2	ug/kg dry	10.4	ND	74	0-200		
Dibromomethane	8.3		5.2	ug/kg dry	10.4	ND	80	0-200		
1,2-Dichlorobenzene	6.9		5.2	ug/kg dry	10.4	ND	66	0-200		
1,3-Dichlorobenzene	6.2		5.2	ug/kg dry	10.4	ND	60	0-200		
1,4-Dichlorobenzene	6.4		5.2	ug/kg dry	10.4	ND	61	0-200		
Dichlorodifluoromethane	9.1		5.2	ug/kg dry	10.4	ND	87	0-200		
1,1-Dichloroethane	8.0		5.2	ug/kg dry	10.4	ND	77	0-200		
1,2-Dichloroethane	8.1		5.2	ug/kg dry	10.4	ND	78	0-200		
1,1-Dichloroethene	8.5		5.2	ug/kg dry	10.4	ND	81	59-172		
cis-1,2-Dichloroethene	8.4		5.2	ug/kg dry	10.4	ND	81	0-200		
trans-1,2-Dichloroethene	7.8		5.2	ug/kg dry	10.4	ND	75	0-200		
Dichlorofluoromethane	7.1		5.2	ug/kg dry	10.4	ND	68	0-200		
1,2-Dichloropropane	8.3		5.2	ug/kg dry	10.4	ND	80	0-200		
1,3-Dichloropropane	8.5		5.2	ug/kg dry	10.4	ND	82	0-200		
2,2-Dichloropropane	7.8		5.2	ug/kg dry	10.4	ND	75	0-200		
1,1-Dichloropropene	8.1		5.2	ug/kg dry	10.4	ND	78	0-200		
cis-1,3-Dichloropropene	7.4		5.2	ug/kg dry	10.4	ND	71	0-200		
trans-1,3-Dichloropropene	7.3		5.2	ug/kg dry	10.4	ND	70	0-200		
Diisopropyl ether (DIPE)	7.9		5.2	ug/kg dry	10.4	ND	75	0-200		
Ethyl tert-butyl ether (ETBE)	7.9		5.2	ug/kg dry	10.4	ND	76	0-200		
Ethylbenzene	7.3		5.2	ug/kg dry	10.4	ND	70	0-200		
Hexachlorobutadiene	5.1	J	5.2	ug/kg dry	10.4	ND	49	0-200		
2-Hexanone	12.3		10.4	ug/kg dry	20.8	ND	59	0-200		
Isopropylbenzene (Cumene)	7.4		5.2	ug/kg dry	10.4	ND	71	0-200		
4-Isopropyltoluene	6.1		5.2	ug/kg dry	10.4	ND	58	0-200		
Methyl tert-butyl ether (MTBE)	7.9		5.2	ug/kg dry	10.4	ND	76	0-200		
4-Methyl-2-pentanone	13.7		10.4	ug/kg dry	20.8	ND	66	0-200		
Methylene chloride	27.9		20.8	ug/kg dry	10.4	22.9	48	0-200		
Naphthalene	7.3		5.2	ug/kg dry	10.4	ND	70	0-200		
n-Propylbenzene	6.5		5.2	ug/kg dry	10.4	ND	63	0-200		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906371 - 5030-GCMS

Matrix Spike (B906371-MS1)		Source: 9062625-04		Prepared & Analyzed: 06/27/19						
Styrene	7.5	5.2	ug/kg dry	10.4	ND	72	0-200			
1,1,1,2-Tetrachloroethane	7.8	5.2	ug/kg dry	10.4	ND	75	0-200			
1,1,2,2-Tetrachloroethane	8.5	5.2	ug/kg dry	10.4	ND	82	0-200			
Tetrachloroethene	8.2	5.2	ug/kg dry	10.4	ND	78	0-200			
Toluene	7.8	5.2	ug/kg dry	10.4	ND	75	59-139			
1,2,3-Trichlorobenzene	6.4	5.2	ug/kg dry	10.4	ND	61	0-200			
1,2,4-Trichlorobenzene	5.9	5.2	ug/kg dry	10.4	ND	57	0-200			
1,1,1-Trichloroethane	8.3	5.2	ug/kg dry	10.4	ND	80	0-200			
1,1,2-Trichloroethane	8.2	5.2	ug/kg dry	10.4	ND	78	0-200			
Trichloroethene	8.1	5.2	ug/kg dry	10.4	ND	78	62-137			
Trichlorofluoromethane (Freon 11)	8.5	5.2	ug/kg dry	10.4	ND	82	0-200			
1,2,3-Trichloropropane	7.7	5.2	ug/kg dry	10.4	ND	73	0-200			
1,2,4-Trimethylbenzene	6.4	5.2	ug/kg dry	10.4	ND	61	0-200			
1,3,5-Trimethylbenzene	6.6	5.2	ug/kg dry	10.4	ND	63	0-200			
Vinyl chloride	8.0	5.2	ug/kg dry	10.4	ND	77	0-200			
o-Xylene	7.2	5.2	ug/kg dry	10.4	ND	69	0-200			
m- & p-Xylenes	14.2	5.2	ug/kg dry	20.8	ND	68	0-200			
Surrogate: 1,2-Dichloroethane-d4	52.0		ug/L	50.0		104	70-130			
Surrogate: Toluene-d8	51.3		ug/L	50.0		103	75-120			
Surrogate: 4-Bromofluorobenzene	48.7		ug/L	50.0		97	70-120			

Batch B906398 - MED SOIL (GC/MS)

Blank (B906398-BLK1)		Prepared & Analyzed: 06/27/19								
Acetone	ND	10.0	ug/kg wet							
tert-Amyl alcohol (TAA)	ND	50.0	ug/kg wet							
tert-Amyl methyl ether (TAME)	ND	5.0	ug/kg wet							
Benzene	ND	5.0	ug/kg wet							
Bromobenzene	ND	5.0	ug/kg wet							
Bromochloromethane	ND	5.0	ug/kg wet							
Bromodichloromethane	ND	5.0	ug/kg wet							
Bromoform	ND	5.0	ug/kg wet							

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906398 - MED SOIL (GC/MS)

Blank (B906398-BLK1)

Prepared & Analyzed: 06/27/19

Bromomethane	ND		5.0	ug/kg wet
tert-Butanol (TBA)	ND		50.0	ug/kg wet
2-Butanone (MEK)	ND		10.0	ug/kg wet
n-Butylbenzene	ND		5.0	ug/kg wet
sec-Butylbenzene	ND		5.0	ug/kg wet
tert-Butylbenzene	ND		5.0	ug/kg wet
Carbon disulfide	ND		5.0	ug/kg wet
Carbon tetrachloride	ND		5.0	ug/kg wet
Chlorobenzene	ND		5.0	ug/kg wet
Chloroethane	ND		5.0	ug/kg wet
Chloroform	ND		5.0	ug/kg wet
Chloromethane	ND		5.0	ug/kg wet
2-Chlorotoluene	ND		5.0	ug/kg wet
4-Chlorotoluene	ND		5.0	ug/kg wet
1,2-Dibromo-3-chloropropane	ND		5.0	ug/kg wet
Dibromochloromethane	ND		5.0	ug/kg wet
1,2-Dibromoethane (EDB)	ND		5.0	ug/kg wet
Dibromomethane	ND		5.0	ug/kg wet
1,2-Dichlorobenzene	ND		5.0	ug/kg wet
1,3-Dichlorobenzene	ND		5.0	ug/kg wet
1,4-Dichlorobenzene	ND		5.0	ug/kg wet
Dichlorodifluoromethane	ND		5.0	ug/kg wet
1,1-Dichloroethane	ND		5.0	ug/kg wet
1,2-Dichloroethane	ND		5.0	ug/kg wet
1,1-Dichloroethene	ND		5.0	ug/kg wet
cis-1,2-Dichloroethene	ND		5.0	ug/kg wet
trans-1,2-Dichloroethene	ND		5.0	ug/kg wet
Dichlorofluoromethane	ND		5.0	ug/kg wet
1,2-Dichloropropane	ND		5.0	ug/kg wet
1,3-Dichloropropane	ND		5.0	ug/kg wet
2,2-Dichloropropane	ND		5.0	ug/kg wet

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Project: TIMBERS AT TROY

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Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906398 - MED SOIL (GC/MS)

Blank (B906398-BLK1)

Prepared & Analyzed: 06/27/19

1,1-Dichloropropene	ND		5.0	ug/kg wet
cis-1,3-Dichloropropene	ND		5.0	ug/kg wet
trans-1,3-Dichloropropene	ND		5.0	ug/kg wet
Diisopropyl ether (DIPE)	ND		5.0	ug/kg wet
Ethyl tert-butyl ether (ETBE)	ND		5.0	ug/kg wet
Ethylbenzene	ND		5.0	ug/kg wet
Hexachlorobutadiene	ND		5.0	ug/kg wet
2-Hexanone	ND		10.0	ug/kg wet
Isopropylbenzene (Cumene)	ND		5.0	ug/kg wet
4-Isopropyltoluene	ND		5.0	ug/kg wet
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/kg wet
4-Methyl-2-pentanone	ND		10.0	ug/kg wet
Methylene chloride	ND		20.0	ug/kg wet
Naphthalene	ND		5.0	ug/kg wet
n-Propylbenzene	ND		5.0	ug/kg wet
Styrene	ND		5.0	ug/kg wet
1,1,1,2-Tetrachloroethane	ND		5.0	ug/kg wet
1,1,2,2-Tetrachloroethane	ND		5.0	ug/kg wet
Tetrachloroethene	ND		5.0	ug/kg wet
Toluene	ND		5.0	ug/kg wet
1,2,3-Trichlorobenzene	ND		5.0	ug/kg wet
1,2,4-Trichlorobenzene	ND		5.0	ug/kg wet
1,1,1-Trichloroethane	ND		5.0	ug/kg wet
1,1,2-Trichloroethane	ND		5.0	ug/kg wet
Trichloroethene	ND		5.0	ug/kg wet
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/kg wet
1,2,3-Trichloropropane	ND		5.0	ug/kg wet
1,2,4-Trimethylbenzene	ND		5.0	ug/kg wet
1,3,5-Trimethylbenzene	ND		5.0	ug/kg wet
Vinyl chloride	ND		5.0	ug/kg wet
o-Xylene	ND		5.0	ug/kg wet

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906398 - MED SOIL (GC/MS)

Blank (B906398-BLK1)

Prepared & Analyzed: 06/27/19

m- & p-Xylenes	ND		5.0	ug/kg wet						
Surrogate: 1,2-Dichloroethane-d4	53.0			ug/L	50.0		106	70-130		
Surrogate: Toluene-d8	51.1			ug/L	50.0		102	75-120		
Surrogate: 4-Bromofluorobenzene	46.9			ug/L	50.0		94	70-120		

LCS (B906398-BS1)

Prepared & Analyzed: 06/27/19

Acetone	6.3	J	10.0	ug/kg wet	10.0		63	50-150		
tert-Amyl alcohol (TAA)	17.3	J	50.0	ug/kg wet	25.0		69	50-150		
tert-Amyl methyl ether (TAME)	4.1	J	5.0	ug/kg wet	5.00		82	50-150		
Benzene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
Bromobenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
Bromochloromethane	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
Bromodichloromethane	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
Bromoform	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
Bromomethane	5.6		5.0	ug/kg wet	5.00		112	50-150		
tert-Butanol (TBA)	22.6	J	50.0	ug/kg wet	25.0		90	50-150		
2-Butanone (MEK)	6.7	J	10.0	ug/kg wet	10.0		67	50-150		
n-Butylbenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
sec-Butylbenzene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
tert-Butylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
Carbon disulfide	5.2		5.0	ug/kg wet	5.00		105	50-150		
Carbon tetrachloride	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
Chlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
Chloroethane	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
Chloroform	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
Chloromethane	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
2-Chlorotoluene	4.9	J	5.0	ug/kg wet	5.00		97	50-150		
4-Chlorotoluene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,2-Dibromo-3-chloropropane	5.0		5.0	ug/kg wet	5.00		100	50-150		
Dibromochloromethane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,2-Dibromoethane (EDB)	4.3	J	5.0	ug/kg wet	5.00		86	50-150		
Dibromomethane	4.6	J	5.0	ug/kg wet	5.00		92	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906398 - MED SOIL (GC/MS)

LCS (B906398-BS1)

Prepared & Analyzed: 06/27/19

1,2-Dichlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
1,3-Dichlorobenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
1,4-Dichlorobenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
Dichlorodifluoromethane	5.0		5.0	ug/kg wet	5.00		101	50-150		
1,1-Dichloroethane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
1,2-Dichloroethane	4.5	J	5.0	ug/kg wet	5.00		91	50-150		
1,1-Dichloroethene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
cis-1,2-Dichloroethene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
trans-1,2-Dichloroethene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
Dichlorofluoromethane	4.2	J	5.0	ug/kg wet	5.00		84	50-150		
1,2-Dichloropropane	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
1,3-Dichloropropane	4.4	J	5.0	ug/kg wet	5.00		87	50-150		
2,2-Dichloropropane	4.8	J	5.0	ug/kg wet	5.00		97	50-150		
1,1-Dichloropropene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
cis-1,3-Dichloropropene	4.0	J	5.0	ug/kg wet	5.00		81	50-150		
trans-1,3-Dichloropropene	4.0	J	5.0	ug/kg wet	5.00		80	50-150		
Diisopropyl ether (DIPE)	3.9	J	5.0	ug/kg wet	5.00		77	50-150		
Ethyl tert-butyl ether (ETBE)	4.0	J	5.0	ug/kg wet	5.00		79	50-150		
Ethylbenzene	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
Hexachlorobutadiene	5.7		5.0	ug/kg wet	5.00		113	50-150		
2-Hexanone	5.0	J	10.0	ug/kg wet	10.0		50	50-150		
Isopropylbenzene (Cumene)	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
4-Isopropyltoluene	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
Methyl tert-butyl ether (MTBE)	4.1	J	5.0	ug/kg wet	5.00		83	50-150		
4-Methyl-2-pentanone	7.3	J	10.0	ug/kg wet	10.0		73	50-150		
Methylene chloride	11.7	J	20.0	ug/kg wet	5.00		234	0-200		
Naphthalene	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
n-Propylbenzene	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
Styrene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,1,1,2-Tetrachloroethane	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
1,1,2,2-Tetrachloroethane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906398 - MED SOIL (GC/MS)

LCS (B906398-BS1)

Prepared & Analyzed: 06/27/19

Tetrachloroethene	5.0	J	5.0	ug/kg wet	5.00		99	50-150		
Toluene	4.7	J	5.0	ug/kg wet	5.00		95	50-150		
1,2,3-Trichlorobenzene	5.2		5.0	ug/kg wet	5.00		103	50-150		
1,2,4-Trichlorobenzene	5.3		5.0	ug/kg wet	5.00		106	50-150		
1,1,1-Trichloroethane	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
1,1,2-Trichloroethane	4.5	J	5.0	ug/kg wet	5.00		91	50-150		
Trichloroethene	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
Trichlorofluoromethane (Freon 11)	5.0	J	5.0	ug/kg wet	5.00		100	50-150		
1,2,3-Trichloropropane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,2,4-Trimethylbenzene	4.8	J	5.0	ug/kg wet	5.00		96	50-150		
1,3,5-Trimethylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
Vinyl chloride	5.0		5.0	ug/kg wet	5.00		100	50-150		
o-Xylene	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
m- & p-Xylenes	9.6		5.0	ug/kg wet	10.0		96	50-150		
Surrogate: 1,2-Dichloroethane-d4	52.2			ug/L	50.0		104	70-130		
Surrogate: Toluene-d8	52.3			ug/L	50.0		105	75-120		
Surrogate: 4-Bromofluorobenzene	49.2			ug/L	50.0		98	70-120		

Batch B907006 - 5030-GCMS

Blank (B907006-BLK1)

Prepared & Analyzed: 07/01/19

Acetone	ND		10.0	ug/kg wet						
tert-Amyl alcohol (TAA)	ND		50.0	ug/kg wet						
tert-Amyl methyl ether (TAME)	ND		5.0	ug/kg wet						
Benzene	ND		5.0	ug/kg wet						
Bromobenzene	ND		5.0	ug/kg wet						
Bromochloromethane	ND		5.0	ug/kg wet						
Bromodichloromethane	ND		5.0	ug/kg wet						
Bromoform	ND		5.0	ug/kg wet						
Bromomethane	ND		5.0	ug/kg wet						
tert-Butanol (TBA)	ND		50.0	ug/kg wet						
2-Butanone (MEK)	ND		10.0	ug/kg wet						

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Blank (B907006-BLK1)

Prepared & Analyzed: 07/01/19

n-Butylbenzene	ND		5.0	ug/kg wet
sec-Butylbenzene	ND		5.0	ug/kg wet
tert-Butylbenzene	ND		5.0	ug/kg wet
Carbon disulfide	ND		5.0	ug/kg wet
Carbon tetrachloride	ND		5.0	ug/kg wet
Chlorobenzene	ND		5.0	ug/kg wet
Chloroethane	ND		5.0	ug/kg wet
Chloroform	ND		5.0	ug/kg wet
Chloromethane	ND		5.0	ug/kg wet
2-Chlorotoluene	ND		5.0	ug/kg wet
4-Chlorotoluene	ND		5.0	ug/kg wet
1,2-Dibromo-3-chloropropane	ND		5.0	ug/kg wet
Dibromochloromethane	ND		5.0	ug/kg wet
1,2-Dibromoethane (EDB)	ND		5.0	ug/kg wet
Dibromomethane	ND		5.0	ug/kg wet
1,2-Dichlorobenzene	ND		5.0	ug/kg wet
1,3-Dichlorobenzene	ND		5.0	ug/kg wet
1,4-Dichlorobenzene	ND		5.0	ug/kg wet
Dichlorodifluoromethane	ND		5.0	ug/kg wet
1,1-Dichloroethane	ND		5.0	ug/kg wet
1,2-Dichloroethane	ND		5.0	ug/kg wet
1,1-Dichloroethene	ND		5.0	ug/kg wet
cis-1,2-Dichloroethene	ND		5.0	ug/kg wet
trans-1,2-Dichloroethene	ND		5.0	ug/kg wet
Dichlorofluoromethane	ND		5.0	ug/kg wet
1,2-Dichloropropane	ND		5.0	ug/kg wet
1,3-Dichloropropane	ND		5.0	ug/kg wet
2,2-Dichloropropane	ND		5.0	ug/kg wet
1,1-Dichloropropene	ND		5.0	ug/kg wet
cis-1,3-Dichloropropene	ND		5.0	ug/kg wet
trans-1,3-Dichloropropene	ND		5.0	ug/kg wet

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Blank (B907006-BLK1)

Prepared & Analyzed: 07/01/19

Diisopropyl ether (DIPE)	ND		5.0	ug/kg wet
Ethyl tert-butyl ether (ETBE)	ND		5.0	ug/kg wet
Ethylbenzene	ND		5.0	ug/kg wet
Hexachlorobutadiene	ND		5.0	ug/kg wet
2-Hexanone	ND		10.0	ug/kg wet
Isopropylbenzene (Cumene)	ND		5.0	ug/kg wet
4-Isopropyltoluene	ND		5.0	ug/kg wet
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/kg wet
4-Methyl-2-pentanone	ND		10.0	ug/kg wet
Methylene chloride	ND		20.0	ug/kg wet
Naphthalene	ND		5.0	ug/kg wet
n-Propylbenzene	ND		5.0	ug/kg wet
Styrene	ND		5.0	ug/kg wet
1,1,1,2-Tetrachloroethane	ND		5.0	ug/kg wet
1,1,2,2-Tetrachloroethane	ND		5.0	ug/kg wet
Tetrachloroethene	ND		5.0	ug/kg wet
Toluene	ND		5.0	ug/kg wet
1,2,3-Trichlorobenzene	ND		5.0	ug/kg wet
1,2,4-Trichlorobenzene	ND		5.0	ug/kg wet
1,1,1-Trichloroethane	ND		5.0	ug/kg wet
1,1,2-Trichloroethane	ND		5.0	ug/kg wet
Trichloroethene	ND		5.0	ug/kg wet
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/kg wet
1,2,3-Trichloropropane	ND		5.0	ug/kg wet
1,2,4-Trimethylbenzene	ND		5.0	ug/kg wet
1,3,5-Trimethylbenzene	ND		5.0	ug/kg wet
Vinyl chloride	ND		5.0	ug/kg wet
o-Xylene	ND		5.0	ug/kg wet
m- & p-Xylenes	ND		5.0	ug/kg wet

Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.0		101	70-130
Surrogate: Toluene-d8	51.3		ug/L	50.0		103	75-120

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Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Blank (B907006-BLK1)

Prepared & Analyzed: 07/01/19

Surrogate: 4-Bromofluorobenzene	47.5			ug/L	50.0		95	70-120		

LCS (B907006-BS1)

Prepared & Analyzed: 07/01/19

Acetone	7.1	J	10.0	ug/kg wet	10.0		71	50-150		
tert-Amyl alcohol (TAA)	21.7	J	50.0	ug/kg wet	25.0		87	50-150		
tert-Amyl methyl ether (TAME)	4.2	J	5.0	ug/kg wet	5.00		83	50-150		
Benzene	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
Bromobenzene	5.1		5.0	ug/kg wet	5.00		101	50-150		
Bromochloromethane	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
Bromodichloromethane	4.4	J	5.0	ug/kg wet	5.00		87	50-150		
Bromoform	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
Bromomethane	5.1		5.0	ug/kg wet	5.00		102	50-150		
tert-Butanol (TBA)	26.7	J	50.0	ug/kg wet	25.0		107	50-150		
2-Butanone (MEK)	6.6	J	10.0	ug/kg wet	10.0		66	50-150		
n-Butylbenzene	5.1		5.0	ug/kg wet	5.00		102	50-150		
sec-Butylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
tert-Butylbenzene	5.0	J	5.0	ug/kg wet	5.00		99	50-150		
Carbon disulfide	5.0	J	5.0	ug/kg wet	5.00		100	50-150		
Carbon tetrachloride	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
Chlorobenzene	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
Chloroethane	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
Chloroform	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
Chloromethane	4.8	J	5.0	ug/kg wet	5.00		95	50-150		
2-Chlorotoluene	4.8	J	5.0	ug/kg wet	5.00		97	50-150		
4-Chlorotoluene	4.6	J	5.0	ug/kg wet	5.00		92	50-150		
1,2-Dibromo-3-chloropropane	5.2		5.0	ug/kg wet	5.00		104	50-150		
Dibromochloromethane	4.3	J	5.0	ug/kg wet	5.00		87	50-150		
1,2-Dibromoethane (EDB)	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
Dibromomethane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,2-Dichlorobenzene	5.0		5.0	ug/kg wet	5.00		100	50-150		
1,3-Dichlorobenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
1,4-Dichlorobenzene	5.1		5.0	ug/kg wet	5.00		103	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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Reported:
07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

LCS (B907006-BS1)

Prepared & Analyzed: 07/01/19

Dichlorodifluoromethane	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,1-Dichloroethane	4.4	J	5.0	ug/kg wet	5.00		89	50-150		
1,2-Dichloroethane	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
1,1-Dichloroethene	4.5	J	5.0	ug/kg wet	5.00		90	50-150		
cis-1,2-Dichloroethene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
trans-1,2-Dichloroethene	4.4	J	5.0	ug/kg wet	5.00		89	50-150		
Dichlorofluoromethane	3.8	J	5.0	ug/kg wet	5.00		76	50-150		
1,2-Dichloropropane	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
1,3-Dichloropropane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
2,2-Dichloropropane	4.6	J	5.0	ug/kg wet	5.00		93	50-150		
1,1-Dichloropropene	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
cis-1,3-Dichloropropene	4.4	J	5.0	ug/kg wet	5.00		87	50-150		
trans-1,3-Dichloropropene	4.3	J	5.0	ug/kg wet	5.00		85	50-150		
Diisopropyl ether (DIPE)	3.9	J	5.0	ug/kg wet	5.00		79	50-150		
Ethyl tert-butyl ether (ETBE)	4.2	J	5.0	ug/kg wet	5.00		84	50-150		
Ethylbenzene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
Hexachlorobutadiene	5.4		5.0	ug/kg wet	5.00		109	50-150		
2-Hexanone	6.4	J	10.0	ug/kg wet	10.0		64	50-150		
Isopropylbenzene (Cumene)	4.9	J	5.0	ug/kg wet	5.00		99	50-150		
4-Isopropyltoluene	5.0		5.0	ug/kg wet	5.00		101	50-150		
Methyl tert-butyl ether (MTBE)	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
4-Methyl-2-pentanone	7.3	J	10.0	ug/kg wet	10.0		73	50-150		
Methylene chloride	8.2	J	20.0	ug/kg wet	5.00		165	0-200		
Naphthalene	5.0		5.0	ug/kg wet	5.00		100	50-150		
n-Propylbenzene	4.9	J	5.0	ug/kg wet	5.00		98	50-150		
Styrene	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
1,1,1,2-Tetrachloroethane	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
1,1,1,2,2-Tetrachloroethane	5.0		5.0	ug/kg wet	5.00		101	50-150		
Tetrachloroethene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
Toluene	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
1,2,3-Trichlorobenzene	5.6		5.0	ug/kg wet	5.00		111	50-150		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

LCS (B907006-BS1)

Prepared & Analyzed: 07/01/19

1,2,4-Trichlorobenzene	5.4		5.0	ug/kg wet	5.00		107	50-150		
1,1,1-Trichloroethane	4.6	J	5.0	ug/kg wet	5.00		92	50-150		
1,1,2-Trichloroethane	4.6	J	5.0	ug/kg wet	5.00		91	50-150		
Trichloroethene	4.7	J	5.0	ug/kg wet	5.00		93	50-150		
Trichlorofluoromethane (Freon 11)	4.5	J	5.0	ug/kg wet	5.00		89	50-150		
1,2,3-Trichloropropane	4.7	J	5.0	ug/kg wet	5.00		94	50-150		
1,2,4-Trimethylbenzene	5.0	J	5.0	ug/kg wet	5.00		99	50-150		
1,3,5-Trimethylbenzene	5.1		5.0	ug/kg wet	5.00		101	50-150		
Vinyl chloride	4.4	J	5.0	ug/kg wet	5.00		88	50-150		
o-Xylene	4.7	J	5.0	ug/kg wet	5.00		95	50-150		
m- & p-Xylenes	9.4		5.0	ug/kg wet	10.0		94	50-150		
Surrogate: 1,2-Dichloroethane-d4	50.1			ug/L	50.0		100	70-130		
Surrogate: Toluene-d8	52.2			ug/L	50.0		104	75-120		
Surrogate: 4-Bromofluorobenzene	49.3			ug/L	50.0		99	70-120		

Duplicate (B907006-DUP1)

Source: 9062822-01

Prepared & Analyzed: 07/01/19

Acetone	ND		11.5	ug/kg dry		ND			20	
tert-Amyl alcohol (TAA)	ND		57.5	ug/kg dry		ND			20	
tert-Amyl methyl ether (TAME)	ND		5.7	ug/kg dry		ND			20	
Benzene	ND		5.7	ug/kg dry		ND			20	
Bromobenzene	ND		5.7	ug/kg dry		ND			20	
Bromochloromethane	ND		5.7	ug/kg dry		ND			20	
Bromodichloromethane	ND		5.7	ug/kg dry		ND			20	
Bromoform	ND		5.7	ug/kg dry		ND			20	
Bromomethane	ND		5.7	ug/kg dry		ND			20	
tert-Butanol (TBA)	ND		57.5	ug/kg dry		ND			20	
2-Butanone (MEK)	ND		11.5	ug/kg dry		ND			20	
n-Butylbenzene	ND		5.7	ug/kg dry		ND			20	
sec-Butylbenzene	ND		5.7	ug/kg dry		ND			20	
tert-Butylbenzene	ND		5.7	ug/kg dry		ND			20	
Carbon disulfide	ND		5.7	ug/kg dry		ND			20	
Carbon tetrachloride	ND		5.7	ug/kg dry		ND			20	

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Duplicate (B907006-DUP1)	Source: 9062822-01		Prepared & Analyzed: 07/01/19							
Chlorobenzene	ND	5.7	ug/kg dry	ND					20	
Chloroethane	ND	5.7	ug/kg dry	ND					20	
Chloroform	ND	5.7	ug/kg dry	ND					20	
Chloromethane	ND	5.7	ug/kg dry	ND					20	
2-Chlorotoluene	ND	5.7	ug/kg dry	ND					20	
4-Chlorotoluene	ND	5.7	ug/kg dry	ND					20	
1,2-Dibromo-3-chloropropane	ND	5.7	ug/kg dry	ND					20	
Dibromochloromethane	ND	5.7	ug/kg dry	ND					20	
1,2-Dibromoethane (EDB)	ND	5.7	ug/kg dry	ND					20	
Dibromomethane	ND	5.7	ug/kg dry	ND					20	
1,2-Dichlorobenzene	ND	5.7	ug/kg dry	ND					20	
1,3-Dichlorobenzene	ND	5.7	ug/kg dry	ND					20	
1,4-Dichlorobenzene	ND	5.7	ug/kg dry	ND					20	
Dichlorodifluoromethane	ND	5.7	ug/kg dry	ND					20	
1,1-Dichloroethane	ND	5.7	ug/kg dry	ND					20	
1,2-Dichloroethane	ND	5.7	ug/kg dry	ND					20	
1,1-Dichloroethene	ND	5.7	ug/kg dry	ND					20	
cis-1,2-Dichloroethene	ND	5.7	ug/kg dry	ND					20	
trans-1,2-Dichloroethene	ND	5.7	ug/kg dry	ND					20	
Dichlorofluoromethane	ND	5.7	ug/kg dry	ND					20	
1,2-Dichloropropane	ND	5.7	ug/kg dry	ND					20	
1,3-Dichloropropane	ND	5.7	ug/kg dry	ND					20	
2,2-Dichloropropane	ND	5.7	ug/kg dry	ND					20	
1,1-Dichloropropene	ND	5.7	ug/kg dry	ND					20	
cis-1,3-Dichloropropene	ND	5.7	ug/kg dry	ND					20	
trans-1,3-Dichloropropene	ND	5.7	ug/kg dry	ND					20	
Diisopropyl ether (DIPE)	ND	5.7	ug/kg dry	ND					20	
Ethyl tert-butyl ether (ETBE)	ND	5.7	ug/kg dry	ND					20	
Ethylbenzene	ND	5.7	ug/kg dry	ND					20	
Hexachlorobutadiene	ND	5.7	ug/kg dry	ND					20	
2-Hexanone	ND	11.5	ug/kg dry	ND					20	

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Duplicate (B907006-DUP1)		Source: 9062822-01		Prepared & Analyzed: 07/01/19						
Isopropylbenzene (Cumene)	ND	5.7	ug/kg dry	ND						20
4-Isopropyltoluene	ND	5.7	ug/kg dry	ND						20
Methyl tert-butyl ether (MTBE)	ND	5.7	ug/kg dry	ND						20
4-Methyl-2-pentanone	ND	11.5	ug/kg dry	ND						20
Methylene chloride	ND	23.0	ug/kg dry	ND						20
Naphthalene	ND	5.7	ug/kg dry	ND						20
n-Propylbenzene	ND	5.7	ug/kg dry	ND						20
Styrene	ND	5.7	ug/kg dry	ND						20
1,1,1,2-Tetrachloroethane	ND	5.7	ug/kg dry	ND						20
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg dry	ND						20
Tetrachloroethene	ND	5.7	ug/kg dry	ND						20
Toluene	ND	5.7	ug/kg dry	ND						20
1,2,3-Trichlorobenzene	ND	5.7	ug/kg dry	ND						20
1,2,4-Trichlorobenzene	ND	5.7	ug/kg dry	ND						20
1,1,1-Trichloroethane	ND	5.7	ug/kg dry	ND						20
1,1,2-Trichloroethane	ND	5.7	ug/kg dry	ND						20
Trichloroethene	ND	5.7	ug/kg dry	ND						20
Trichlorofluoromethane (Freon 11)	ND	5.7	ug/kg dry	ND						20
1,2,3-Trichloropropane	ND	5.7	ug/kg dry	ND						20
1,2,4-Trimethylbenzene	ND	5.7	ug/kg dry	ND						20
1,3,5-Trimethylbenzene	ND	5.7	ug/kg dry	ND						20
Vinyl chloride	ND	5.7	ug/kg dry	ND						20
o-Xylene	ND	5.7	ug/kg dry	ND						20
m- & p-Xylenes	ND	5.7	ug/kg dry	ND						20
Surrogate: 1,2-Dichloroethane-d4	52.4		ug/L	50.0		105		70-130		
Surrogate: Toluene-d8	50.5		ug/L	50.0		101		75-120		
Surrogate: 4-Bromofluorobenzene	49.6		ug/L	50.0		99		70-120		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Matrix Spike (B907006-MS1)		Source: 9062822-01		Prepared & Analyzed: 07/01/19						
Acetone	17.6		11.5	ug/kg dry	23.0	ND	76	0-200		
tert-Amyl alcohol (TAA)	43.8	J	57.5	ug/kg dry	57.5	ND	76	0-200		
tert-Amyl methyl ether (TAME)	9.8		5.7	ug/kg dry	11.5	ND	85	0-200		
Benzene	10.5		5.7	ug/kg dry	11.5	ND	91	66-142		
Bromobenzene	10.8		5.7	ug/kg dry	11.5	ND	94	0-200		
Bromochloromethane	10.7		5.7	ug/kg dry	11.5	ND	93	0-200		
Bromodichloromethane	10.1		5.7	ug/kg dry	11.5	ND	88	0-200		
Bromoform	9.9		5.7	ug/kg dry	11.5	ND	86	0-200		
Bromomethane	9.8		5.7	ug/kg dry	11.5	ND	85	0-200		
tert-Butanol (TBA)	54.3	J	57.5	ug/kg dry	57.5	ND	95	0-200		
2-Butanone (MEK)	11.4	J	11.5	ug/kg dry	23.0	ND	49	0-200		
n-Butylbenzene	10.8		5.7	ug/kg dry	11.5	ND	94	0-200		
sec-Butylbenzene	11.1		5.7	ug/kg dry	11.5	ND	97	0-200		
tert-Butylbenzene	10.5		5.7	ug/kg dry	11.5	ND	92	0-200		
Carbon disulfide	10.4		5.7	ug/kg dry	11.5	ND	90	0-200		
Carbon tetrachloride	10.5		5.7	ug/kg dry	11.5	ND	91	0-200		
Chlorobenzene	10.8		5.7	ug/kg dry	11.5	ND	94	60-133		
Chloroethane	9.5		5.7	ug/kg dry	11.5	ND	83	0-200		
Chloroform	9.9		5.7	ug/kg dry	11.5	ND	86	0-200		
Chloromethane	10.1		5.7	ug/kg dry	11.5	ND	88	0-200		
2-Chlorotoluene	10.3		5.7	ug/kg dry	11.5	ND	90	0-200		
4-Chlorotoluene	10.5		5.7	ug/kg dry	11.5	ND	91	0-200		
1,2-Dibromo-3-chloropropane	9.8		5.7	ug/kg dry	11.5	ND	86	0-200		
Dibromochloromethane	9.9		5.7	ug/kg dry	11.5	ND	86	0-200		
1,2-Dibromoethane (EDB)	9.8		5.7	ug/kg dry	11.5	ND	86	0-200		
Dibromomethane	9.9		5.7	ug/kg dry	11.5	ND	86	0-200		
1,2-Dichlorobenzene	10.5		5.7	ug/kg dry	11.5	ND	91	0-200		
1,3-Dichlorobenzene	10.3		5.7	ug/kg dry	11.5	ND	90	0-200		
1,4-Dichlorobenzene	10.2		5.7	ug/kg dry	11.5	ND	88	0-200		
Dichlorodifluoromethane	11.0		5.7	ug/kg dry	11.5	ND	96	0-200		
1,1-Dichloroethane	10.3		5.7	ug/kg dry	11.5	ND	90	0-200		

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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Matrix Spike (B907006-MS1)		Source: 9062822-01		Prepared & Analyzed: 07/01/19						
1,2-Dichloroethane	10.0	5.7	ug/kg dry	11.5	ND	87	0-200			
1,1-Dichloroethene	10.2	5.7	ug/kg dry	11.5	ND	89	59-172			
cis-1,2-Dichloroethene	10.7	5.7	ug/kg dry	11.5	ND	93	0-200			
trans-1,2-Dichloroethene	10.8	5.7	ug/kg dry	11.5	ND	94	0-200			
Dichlorofluoromethane	8.5	5.7	ug/kg dry	11.5	ND	74	0-200			
1,2-Dichloropropane	10.3	5.7	ug/kg dry	11.5	ND	89	0-200			
1,3-Dichloropropane	10.3	5.7	ug/kg dry	11.5	ND	90	0-200			
2,2-Dichloropropane	10.5	5.7	ug/kg dry	11.5	ND	91	0-200			
1,1-Dichloropropene	11.2	5.7	ug/kg dry	11.5	ND	97	0-200			
cis-1,3-Dichloropropene	9.7	5.7	ug/kg dry	11.5	ND	84	0-200			
trans-1,3-Dichloropropene	9.3	5.7	ug/kg dry	11.5	ND	81	0-200			
Diisopropyl ether (DIPE)	9.8	5.7	ug/kg dry	11.5	ND	85	0-200			
Ethyl tert-butyl ether (ETBE)	9.8	5.7	ug/kg dry	11.5	ND	86	0-200			
Ethylbenzene	10.4	5.7	ug/kg dry	11.5	ND	91	0-200			
Hexachlorobutadiene	11.0	5.7	ug/kg dry	11.5	ND	96	0-200			
2-Hexanone	15.8	11.5	ug/kg dry	23.0	ND	69	0-200			
Isopropylbenzene (Cumene)	11.3	5.7	ug/kg dry	11.5	ND	98	0-200			
4-Isopropyltoluene	11.0	5.7	ug/kg dry	11.5	ND	96	0-200			
Methyl tert-butyl ether (MTBE)	10.3	5.7	ug/kg dry	11.5	ND	89	0-200			
4-Methyl-2-pentanone	17.6	11.5	ug/kg dry	23.0	ND	77	0-200			
Methylene chloride	26.7	23.0	ug/kg dry	11.5	14.3	108	0-200			
Naphthalene	10.6	5.7	ug/kg dry	11.5	ND	92	0-200			
n-Propylbenzene	10.9	5.7	ug/kg dry	11.5	ND	95	0-200			
Styrene	10.5	5.7	ug/kg dry	11.5	ND	91	0-200			
1,1,1,2-Tetrachloroethane	10.0	5.7	ug/kg dry	11.5	ND	87	0-200			
1,1,2,2-Tetrachloroethane	10.1	5.7	ug/kg dry	11.5	ND	88	0-200			
Tetrachloroethene	11.2	5.7	ug/kg dry	11.5	ND	97	0-200			
Toluene	10.2	5.7	ug/kg dry	11.5	ND	88	59-139			
1,2,3-Trichlorobenzene	10.3	5.7	ug/kg dry	11.5	ND	89	0-200			
1,2,4-Trichlorobenzene	10.7	5.7	ug/kg dry	11.5	ND	94	0-200			
1,1,1-Trichloroethane	10.4	5.7	ug/kg dry	11.5	ND	91	0-200			

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Will Brewington, President

1500 Caton Center Dr Suite G
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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

VOLATILE ORGANICS BY EPA METHOD 5035/8260B (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907006 - 5030-GCMS

Matrix Spike (B907006-MS1)	Source: 9062822-01		Prepared & Analyzed: 07/01/19							
1,1,2-Trichloroethane	10.0		5.7	ug/kg dry	11.5	ND	87	0-200		
Trichloroethene	11.0		5.7	ug/kg dry	11.5	ND	96	62-137		
Trichlorofluoromethane (Freon 11)	10.1		5.7	ug/kg dry	11.5	ND	88	0-200		
1,2,3-Trichloropropane	10.4		5.7	ug/kg dry	11.5	ND	90	0-200		
1,2,4-Trimethylbenzene	11.2		5.7	ug/kg dry	11.5	ND	97	0-200		
1,3,5-Trimethylbenzene	10.4		5.7	ug/kg dry	11.5	ND	91	0-200		
Vinyl chloride	9.9		5.7	ug/kg dry	11.5	ND	86	0-200		
o-Xylene	11.0		5.7	ug/kg dry	11.5	ND	95	0-200		
m- & p-Xylenes	21.8		5.7	ug/kg dry	23.0	ND	95	0-200		
Surrogate: 1,2-Dichloroethane-d4	53.0			ug/L	50.0		106	70-130		
Surrogate: Toluene-d8	50.8			ug/L	50.0		102	75-120		
Surrogate: 4-Bromofluorobenzene	48.9			ug/L	50.0		98	70-120		



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906365 - 3540-GCMS(Soxhlet)

Blank (B906365-BLK1)

Prepared: 06/26/19 Analyzed: 06/27/19

Acenaphthene	ND		10.0	ug/kg wet						
Acenaphthylene	ND		10.0	ug/kg wet						
Anthracene	ND		10.0	ug/kg wet						
Benzo[a]anthracene	ND		10.0	ug/kg wet						
Benzo[b]fluoranthene	ND		10.0	ug/kg wet						
Benzo[k]fluoranthene	ND		10.0	ug/kg wet						
Benzo[ghi]perylene	ND		10.0	ug/kg wet						
Benzo[a]pyrene	ND		10.0	ug/kg wet						
Chrysene	ND		10.0	ug/kg wet						
Dibenzo[a,h]anthracene	ND		10.0	ug/kg wet						
Fluoranthene	ND		10.0	ug/kg wet						
Fluorene	ND		10.0	ug/kg wet						
Indeno[1,2,3-cd]pyrene	ND		10.0	ug/kg wet						
1-Methylnaphthalene	ND		10.0	ug/kg wet						
2-Methylnaphthalene	ND		10.0	ug/kg wet						
Naphthalene	ND		10.0	ug/kg wet						
Phenanthrene	ND		10.0	ug/kg wet						
Pyrene	ND		10.0	ug/kg wet						
Surrogate: Nitrobenzene-d5	34.5			ug/kg wet	50.0		69	23-120		
Surrogate: 2-Fluorobiphenyl	36.0			ug/kg wet	50.0		72	30-115		
Surrogate: Terphenyl-d14	44.6			ug/kg wet	50.0		89	18-137		

LCS (B906365-BS1)

Prepared: 06/26/19 Analyzed: 06/27/19

Acenaphthene	19		10.0	ug/kg wet	25.0		76	50-130		
Acenaphthylene	17		10.0	ug/kg wet	25.0		67	50-130		
Anthracene	16		10.0	ug/kg wet	25.0		64	50-130		
Benzo[a]anthracene	18		10.0	ug/kg wet	25.0		74	50-130		
Benzo[b]fluoranthene	17		10.0	ug/kg wet	25.0		68	50-130		
Benzo[k]fluoranthene	19		10.0	ug/kg wet	25.0		76	50-130		
Benzo[ghi]perylene	16		10.0	ug/kg wet	25.0		65	50-130		
Benzo[a]pyrene	16		10.0	ug/kg wet	25.0		65	50-130		
Chrysene	18		10.0	ug/kg wet	25.0		74	50-130		

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Project: TIMBERS AT TROY

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Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
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07/24/19 18:26

SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906365 - 3540-GCMS(Soxhlet)

LCS (B906365-BS1)

Prepared: 06/26/19 Analyzed: 06/27/19

Dibenzo[a,h]anthracene	17		10.0	ug/kg wet	25.0		67	50-130		
Fluoranthene	19		10.0	ug/kg wet	25.0		75	50-130		
Fluorene	17		10.0	ug/kg wet	25.0		68	50-130		
Indeno[1,2,3-cd]pyrene	15		10.0	ug/kg wet	25.0		62	50-130		
1-Methylnaphthalene	ND		10.0	ug/kg wet				50-110		
2-Methylnaphthalene	ND		10.0	ug/kg wet				50-110		
Naphthalene	15		10.0	ug/kg wet	25.0		60	50-130		
Phenanthrene	17		10.0	ug/kg wet	25.0		67	50-130		
Pyrene	18		10.0	ug/kg wet	25.0		74	50-130		
Surrogate: Nitrobenzene-d5	28.7			ug/kg wet	50.0		57	23-120		
Surrogate: 2-Fluorobiphenyl	32.0			ug/kg wet	50.0		64	30-115		
Surrogate: Terphenyl-d14	42.8			ug/kg wet	50.0		86	18-137		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

GASOLINE RANGE ORGANICS BY EPA 5035/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906373 - 5030-GC

Blank (B906373-BLK1)

Prepared & Analyzed: 06/27/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	418			ug/L	400		105	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	418			ug/L	400		105	85-115		

LCS (B906373-BS1)

Prepared & Analyzed: 06/27/19

Gasoline-Range Organics	0.15		0.10	mg/kg wet	0.145		104	70-130		
Surrogate: a,a,a-Trifluorotoluene	419			ug/L	400		105	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	419			ug/L	400		105	85-115		

Duplicate (B906373-DUP1)

Source: 9062625-04

Prepared & Analyzed: 06/27/19

Gasoline-Range Organics	ND		0.10	mg/kg dry		ND			20	
Surrogate: a,a,a-Trifluorotoluene	410			ug/L	400		102	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	410			ug/L	400		102	85-115		

Matrix Spike (B906373-MS1)

Source: 9062625-04

Prepared & Analyzed: 06/27/19

Gasoline-Range Organics	0.14		0.10	mg/kg dry	0.151	ND	94	70-130		
Surrogate: a,a,a-Trifluorotoluene	396			ug/L	400		99	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	396			ug/L	400		99	85-115		

Batch B906402 - 5030-GC

Blank (B906402-BLK1)

Prepared & Analyzed: 06/28/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	416			ug/L	400		104	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	416			ug/L	400		104	85-115		

LCS (B906402-BS1)

Prepared & Analyzed: 06/28/19

Gasoline-Range Organics	0.18		0.10	mg/kg wet	0.145		122	70-130		
Surrogate: a,a,a-Trifluorotoluene	414			ug/L	400		104	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	414			ug/L	400		104	85-115		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

DIESEL RANGE ORGANICS BY EPA 3540/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906330 - 3540-GC(Soxhlet)

Blank (B906330-BLK1)

Prepared: 06/24/19 Analyzed: 06/25/19

Diesel-Range Organics	ND		8.0	mg/kg wet						
Surrogate: o-Terphenyl	1.70			mg/kg wet	2.00		85	70-130		

LCS (B906330-BS1)

Prepared: 06/24/19 Analyzed: 06/25/19

Diesel-Range Organics	19.7		8.0	mg/kg wet	20.0		98	60-130		
Surrogate: o-Terphenyl	1.82			mg/kg wet	2.00		91	70-130		



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906331 - 3050B-Metals Digestion

Blank (B906331-BLK1)

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	ND		0.250	mg/kg wet						
Barium	ND		0.250	mg/kg wet						
Cadmium	ND		0.250	mg/kg wet						
Chromium	ND		0.250	mg/kg wet						
Lead	ND		0.250	mg/kg wet						
Mercury	ND		0.0125	mg/kg wet						
Selenium	ND		0.250	mg/kg wet						
Silver	ND		0.250	mg/kg wet						

Blank (B906331-BLK2)

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	ND		0.250	mg/kg wet						
Barium	ND		0.250	mg/kg wet						
Cadmium	ND		0.250	mg/kg wet						
Chromium	ND		0.250	mg/kg wet						
Lead	ND		0.250	mg/kg wet						
Mercury	ND		0.0125	mg/kg wet						
Selenium	ND		0.250	mg/kg wet						
Silver	ND		0.250	mg/kg wet						

LCS (B906331-BS1)

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	1.45		0.250	mg/kg wet	1.25		116	80-120		
Barium	1.35		0.250	mg/kg wet	1.25		108	80-120		
Cadmium	1.40		0.250	mg/kg wet	1.25		112	80-120		
Chromium	1.40		0.250	mg/kg wet	1.25		112	80-120		
Lead	1.34		0.250	mg/kg wet	1.25		107	80-120		
Mercury	0.0718		0.0125	mg/kg wet	0.0625		115	80-120		
Selenium	1.52		0.250	mg/kg wet	1.25		122	80-120		
Silver	0.386		0.250	mg/kg wet	1.25		31	80-120		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732

Reported:
07/24/19 18:26

TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906331 - 3050B-Metals Digestion

LCS (B906331-BS2)

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	1.38		0.250	mg/kg wet	1.25		110	80-120		
Barium	1.28		0.250	mg/kg wet	1.25		103	80-120		
Cadmium	1.30		0.250	mg/kg wet	1.25		104	80-120		
Chromium	1.35		0.250	mg/kg wet	1.25		108	80-120		
Lead	1.29		0.250	mg/kg wet	1.25		103	80-120		
Mercury	0.0680		0.0125	mg/kg wet	0.0625		109	80-120		
Selenium	1.35		0.250	mg/kg wet	1.25		108	80-120		
Silver	0.341		0.250	mg/kg wet	1.25		27	80-120		

Duplicate (B906331-DUP1)

Source: 9062409-01

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	2.14		0.269	mg/kg dry		3.47			47	200
Barium	13.8		0.269	mg/kg dry		23.2			51	200
Cadmium	ND		0.269	mg/kg dry		ND				200
Chromium	8.27		0.269	mg/kg dry		14.3			54	200
Lead	3.17		0.269	mg/kg dry		5.63			56	200
Mercury	0.0142		0.0134	mg/kg dry		0.0230			48	200
Selenium	0.551		0.269	mg/kg dry		0.947			53	200
Silver	ND		0.269	mg/kg dry		ND				200

Duplicate (B906331-DUP2)

Source: 9062109-01

Prepared: 06/24/19 Analyzed: 06/25/19

Arsenic	13.1		0.294	mg/kg dry		12.4			5	200
Barium	80.7		0.294	mg/kg dry		68.7			16	200
Cadmium	ND		0.294	mg/kg dry		ND				200
Chromium	76.4		0.294	mg/kg dry		74.2			3	200
Lead	15.1		0.294	mg/kg dry		10.1			40	200
Mercury	0.0308		0.0147	mg/kg dry		0.0198			43	200
Selenium	3.13		0.294	mg/kg dry		2.76			13	200
Silver	ND		0.294	mg/kg dry		ND				200

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
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TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906331 - 3050B-Metals Digestion

Matrix Spike (B906331-MS1)		Source: 9062409-01		Prepared: 06/24/19		Analyzed: 06/25/19	
Arsenic	5.37	0.269	mg/kg dry	2.69	3.47	71	80-120
Barium	18.9	0.269	mg/kg dry	2.69	23.2	NR	80-120
Cadmium	3.04	0.269	mg/kg dry	2.69	ND	113	80-120
Chromium	13.5	0.269	mg/kg dry	2.69	14.3	NR	80-120
Lead	6.73	0.269	mg/kg dry	2.69	5.63	41	80-120
Mercury	0.167	0.0134	mg/kg dry	0.134	0.0230	107	80-120
Selenium	2.89	0.269	mg/kg dry	2.69	0.947	72	80-120
Silver	0.771	0.269	mg/kg dry	2.69	ND	29	80-120

Matrix Spike (B906331-MS2)		Source: 9062109-01		Prepared: 06/24/19		Analyzed: 06/25/19	
Arsenic	14.5	0.294	mg/kg dry	2.94	12.4	70	80-120
Barium	70.2	0.294	mg/kg dry	2.94	68.7	53	80-120
Cadmium	3.43	0.294	mg/kg dry	2.94	ND	117	80-120
Chromium	90.8	0.294	mg/kg dry	2.94	74.2	564	80-120
Lead	15.9	0.294	mg/kg dry	2.94	10.1	200	80-120
Mercury	0.220	0.0147	mg/kg dry	0.147	0.0198	136	80-120
Selenium	5.65	0.294	mg/kg dry	2.94	2.76	98	80-120
Silver	0.944	0.294	mg/kg dry	2.94	ND	32	80-120

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Reported:
07/24/19 18:26

Chromium VI by EPA 7199 - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit
Batch B9F0247 - EPA 3060								
Blank (B9F0247-BLK1)			Prepared: 06/26/19 Analyzed: 06/27/19					
Chromium VI	ND		0.0800	mg/kg wet				
LCS (B9F0247-BS1)			Prepared: 06/26/19 Analyzed: 06/27/19					
Chromium VI	3.62		0.0800	mg/kg wet	4.00	90.6	80-120	
Duplicate (B9F0247-DUP1)			Source: E059297-01			Prepared: 06/26/19 Analyzed: 06/27/19		
Chromium VI	ND		0.0843	mg/kg dry		ND		20
Matrix Spike (B9F0247-MS1)			Source: E059297-01			Prepared: 06/26/19 Analyzed: 06/27/19		
Chromium VI	3.87		0.0844	mg/kg dry	4.22	ND	91.7	75-125
Matrix Spike (B9F0247-MS2)			Source: E059297-01			Prepared: 06/26/19 Analyzed: 06/27/19		
Chromium VI	844		4.00	mg/kg dry	1040	ND	81.4	75-125
Post Spike (B9F0247-PS1)			Source: E059297-01			Prepared: 06/26/19 Analyzed: 06/27/19		
Chromium VI	98.3			ug/L	100	0.209	98.1	80-120



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062409 07 01 19 1732
Reported:
07/24/19 18:26

Wet Chemistry - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B9F0251 - No Prep WC

Duplicate (B9F0251-DUP1)

Source: 9062409-01

Prepared & Analyzed: 06/26/19

% Solids	92.3		1.00	%		91.8			0.575	20



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Project: TIMBERS AT TROY

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Project Manager: Vicki Pitman

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Notes and Definitions

S-FAIL	Surrogate recovery was outside of established QC limits
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation



Will Brewington, President

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SUBCONTRACT ORDER
Maryland Spectral Services

9062409

Auto-log Sent
Date/Initial

SENDING LABORATORY:

Maryland Spectral Services
1500 Caton Center Dr. Suite G
Halethorpe, MD 21227
Phone: 410.247.7600
Project Manager: Cory Koons
Reports Email: Reporting@mdspectral.com

RECEIVING LABORATORY:

Enviro-Chem Laboratories, Inc
47 Loveton Circle, Suite K
Sparks, MD 21152
Phone: (410) 472-1112
Fax: (410) 472-1116

Due 4:00 PM 07/01/19

Laboratory ID

Comments

Sample ID: 9062409-01 TT-EA3C-S-01 Soil Sampled: 06/24/19 12:07

7199- (Chromium6)

Containers Supplied:

Sample ID: 9062409-02 TT-EA3C-S-02 Soil Sampled: 06/24/19 12:50

7199- (Chromium6)

Containers Supplied:

Sample ID: 9062409-03 TT-EA3C-S-03 Soil Sampled: 06/24/19 13:25

7199- (Chromium6)

Containers Supplied:

Sample ID: 9062409-04 DUP-1 Soil Sampled: 06/24/19 13:25

7199- (Chromium6)

Containers Supplied:

Received By

Date

Received By

Date

Received By

Date

Received By

Date

REVISED REPORT. Original report ID: 9062409 07 01 19 1732

4-5-18

8/25/19 11:55

8/25/19 11:55

24 July 2019

REVISED REPORT. Original report ID 9062821 07 08 19 1642

Vicki Pitman
EA Engineering
225 Schilling Circle, STE 400
Hunt Valley, MD 21031
RE: TIMBERS AT TROY

Enclosed are the results of analyses for samples received by the laboratory on 06/28/19 12:16.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Will Brewington
President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT-EA1a-S-01		9062821-01	Soil	06/25/19 16:35	06/28/19 12:16
TT-EA1a-S-02		9062821-02	Soil	06/25/19 16:42	06/28/19 12:16
TT-EA1b-S-01		9062821-03	Soil	06/25/19 17:15	06/28/19 12:16
TT-EA1b-S-02		9062821-04	Soil	06/25/19 17:28	06/28/19 12:16
TT-EA1b-S-03		9062821-05	Soil	06/25/19 17:40	06/28/19 12:16
TT-EA1b-S-04		9062821-06	Soil	06/25/19 17:52	06/28/19 12:16
TT-EA2b-SD-01		9062821-07	Soil	06/26/19 09:20	06/28/19 12:16
TT-EA2b-SD-02		9062821-08	Soil	06/26/19 09:30	06/28/19 12:16
DUP-3		9062821-09	Soil	06/26/19 00:00	06/28/19 12:16
TT-EA2a-S-01		9062821-10	Soil	06/25/19 09:30	06/28/19 12:16
TT-EA2a-S-02		9062821-11	Soil	06/25/19 10:00	06/28/19 12:16
TT-EA2c-S-01		9062821-12	Soil	06/25/19 12:10	06/28/19 12:16
TT-EA2c-S-02		9062821-13	Soil	06/25/19 12:32	06/28/19 12:16
TT-EA2c-S-03		9062821-14	Soil	06/25/19 11:35	06/28/19 12:16
TT-EA2c-S-04		9062821-15	Soil	06/25/19 11:55	06/28/19 12:16
TT-EA4-S-01		9062821-16	Soil	06/25/19 13:20	06/28/19 12:16
TT-EA4-S-02		9062821-17	Soil	06/25/19 13:45	06/28/19 12:16
DUP-2		9062821-18	Soil	06/25/19 00:00	06/28/19 12:16
TT-EA5-S-01		9062821-19	Soil	06/26/19 11:05	06/28/19 12:16
TT-EA5-S-02		9062821-20	Soil	06/26/19 11:20	06/28/19 12:16
TT-EA5-S-03		9062821-21	Soil	06/26/19 11:50	06/28/19 12:16
TT-EA5-S-04		9062821-22	Soil	06/26/19 12:26	06/28/19 12:16
TT-EA5-S-05		9062821-23	Soil	06/26/19 15:35	06/28/19 12:16
TT-EA5-S-06		9062821-24	Soil	06/26/19 16:00	06/28/19 12:16
TT-EA5-S-07		9062821-25	Soil	06/26/19 16:36	06/28/19 12:16

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Will Brewington, President

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT-EA5-S-08		9062821-26	Soil	06/26/19 16:45	06/28/19 12:16
DUP-4		9062821-27	Soil	06/26/19 00:00	06/28/19 12:16
TT-EA6a-S-01		9062821-28	Soil	06/26/19 12:52	06/28/19 12:16
TT-EA6a-S-02		9062821-29	Soil	06/26/19 13:10	06/28/19 12:16
TT-EA6a-S-03		9062821-30	Soil	06/26/19 13:34	06/28/19 12:16
TT-EA6a-S-04		9062821-31	Soil	06/26/19 13:48	06/28/19 12:16
TT-EA6b-S-01		9062821-32	Soil	06/26/19 17:04	06/28/19 12:16
TT-EA6b-S-02		9062821-33	Soil	06/26/19 17:23	06/28/19 12:16
TT-EA6b-S-03		9062821-34	Soil	06/26/19 17:35	06/28/19 12:16
TT-EA6b-S-04		9062821-35	Soil	06/26/19 17:41	06/28/19 12:16



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1a-S-01

9062821-01 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Acenaphthylene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Benzo[a]anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Benzo[b]fluoranthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Benzo[k]fluoranthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Benzo[ghi]perylene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Benzo[a]pyrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Chrysene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Fluoranthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Fluorene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Naphthalene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Phenanthrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Pyrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 15:27	WB
Surrogate: Nitrobenzene-d5		23-120		66 %	07/01/19		07/02/19 15:27		
Surrogate: 2-Fluorobiphenyl		30-115		75 %	07/01/19		07/02/19 15:27		
Surrogate: Terphenyl-d14		18-137		86 %	07/01/19		07/02/19 15:27		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/02/19	07/02/19 16:58	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	ND		mg/kg dry	9.6	9.6	1	06/28/19	07/01/19 14:18	SJA
Surrogate: o-Terphenyl		70-130		93 %	06/28/19		07/01/19 14:18		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:

07/24/19 18:29

TT-EA1a-S-01

9062821-01 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	83		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1221	ND		ug/kg dry	205	205	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1232	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1242	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1248	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1254	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1260	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1262	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Aroclor-1268	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 00:37	SJA
Surrogate: Tetrachloro-m-xylene		40-150		74 %		06/28/19		07/02/19 00:37	
Surrogate: Decachlorobiphenyl		40-150		91 %		06/28/19		07/02/19 00:37	
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.95		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Barium	29.8		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Cadmium	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Chromium	10.2		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Lead	10.9		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Mercury	0.0246		mg/kg dry	0.0151	0.0151	1	07/01/19	07/02/19 14:11	VVD
Selenium	0.942		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD
Silver	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:11	VVD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1a-S-01

9062821-01 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.110		mg/kg dry	0.0855	0.0855	1	07/01/19	07/02/19 17:44	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	83.6		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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Reported:
07/24/19 18:29

TT-EA1a-S-02

9062821-02 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Acenaphthylene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Anthracene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Benzo[a]anthracene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Benzo[b]fluoranthene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Benzo[k]fluoranthene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Benzo[ghi]perylene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Benzo[a]pyrene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Chrysene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Fluoranthene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Fluorene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Naphthalene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Phenanthrene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Pyrene	ND		ug/kg dry	17.5	17.5	1	07/01/19	07/02/19 15:50	WB
Surrogate: Nitrobenzene-d5		23-120		69 %	07/01/19		07/02/19 15:50		
Surrogate: 2-Fluorobiphenyl		30-115		70 %	07/01/19		07/02/19 15:50		
Surrogate: Terphenyl-d14		18-137		70 %	07/01/19		07/02/19 15:50		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	0.26		mg/kg dry	0.18	0.18	1	07/02/19	07/02/19 17:28	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	30.1		mg/kg dry	14.0	14.0	1	06/28/19	07/01/19 14:44	SJA
Surrogate: o-Terphenyl		70-130		86 %	06/28/19		07/01/19 14:44		

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Project Number: 1483559
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Reported:
07/24/19 18:29

TT-EA1a-S-02

9062821-02 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	57		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1221	ND		ug/kg dry	298	298	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1232	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1242	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1248	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1254	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1260	213		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1262	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Aroclor-1268	ND		ug/kg dry	146	146	1	06/28/19	07/02/19 01:05	SJA
Surrogate: Tetrachloro-m-xylene			40-150	68 %	06/28/19		07/02/19 01:05		
Surrogate: Decachlorobiphenyl			40-150	79 %	06/28/19		07/02/19 01:05		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.10		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Barium	41.0		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Cadmium	ND		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Chromium	11.1		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Lead	22.1		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Mercury	0.0539		mg/kg dry	0.0219	0.0219	1	07/01/19	07/02/19 14:14	VVD
Selenium	1.24		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD
Silver	ND		mg/kg dry	0.439	0.439	1	07/01/19	07/02/19 14:14	VVD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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Reported:
07/24/19 18:29

TT-EA1a-S-02

9062821-02 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.152		mg/kg dry	0.149	0.149	1	07/01/19	07/02/19 18:44	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	52.8		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-01

9062821-03 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Acenaphthylene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Benzo[a]anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Benzo[b]fluoranthene	18.2		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Benzo[k]fluoranthene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Benzo[ghi]perylene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Benzo[a]pyrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Chrysene	13.5		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Fluoranthene	20.6		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Fluorene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Naphthalene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Phenanthrene	ND		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Pyrene	18.5		ug/kg dry	12.0	12.0	1	07/01/19	07/02/19 16:13	WB
Surrogate: Nitrobenzene-d5		23-120		69 %		07/01/19		07/02/19 16:13	
Surrogate: 2-Fluorobiphenyl		30-115		73 %		07/01/19		07/02/19 16:13	
Surrogate: Terphenyl-d14		18-137		106 %		07/01/19		07/02/19 16:13	
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/02/19	07/02/19 17:58	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	116		mg/kg dry	19.3	19.3	1	06/28/19	07/01/19 15:41	SJA
Surrogate: o-Terphenyl		70-130		89 %		06/28/19		07/01/19 15:41	

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Project Number: 1483559
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TT-EA1b-S-01

9062821-03 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	83		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1221	ND		ug/kg dry	205	205	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1232	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1242	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1248	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1254	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1260	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1262	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Aroclor-1268	ND		ug/kg dry	100	100	1	06/28/19	07/02/19 01:33	SJA
Surrogate: Tetrachloro-m-xylene		40-150		87 %		06/28/19		07/02/19 01:33	
Surrogate: Decachlorobiphenyl		40-150		105 %		06/28/19		07/02/19 01:33	
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.95		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Barium	15.4		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Cadmium	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Chromium	9.09		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Lead	7.37		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Mercury	0.0343		mg/kg dry	0.0151	0.0151	1	07/01/19	07/02/19 14:16	VVD
Selenium	0.641		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD
Silver	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 14:16	VVD

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-01

9062821-03 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.129		mg/kg dry	0.0777	0.0777	1	07/01/19	07/02/19 18:56	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	93.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-02

9062821-04 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Acenaphthylene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Anthracene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Benzo[a]anthracene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Benzo[b]fluoranthene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Benzo[k]fluoranthene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Benzo[ghi]perylene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Benzo[a]pyrene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Chrysene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Fluoranthene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Fluorene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Naphthalene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Phenanthrene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Pyrene	ND		ug/kg dry	10.8	10.8	1	07/01/19	07/02/19 16:36	WB
Surrogate: Nitrobenzene-d5		23-120		66 %	07/01/19		07/02/19 16:36		
Surrogate: 2-Fluorobiphenyl		30-115		75 %	07/01/19		07/02/19 16:36		
Surrogate: Terphenyl-d14		18-137		69 %	07/01/19		07/02/19 16:36		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	07/03/19	07/03/19 13:54	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	56.2		mg/kg dry	8.6	8.6	1	06/28/19	07/01/19 16:07	SJA
Surrogate: o-Terphenyl		70-130		105 %	06/28/19		07/01/19 16:07		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-02

9062821-04 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	93		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1221	ND		ug/kg dry	183	183	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1232	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1242	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1248	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1254	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1260	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1262	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Aroclor-1268	ND		ug/kg dry	89.2	89.2	1	06/28/19	07/02/19 02:01	SJA
Surrogate: Tetrachloro-m-xylene			40-150	84 %			06/28/19	07/02/19 02:01	
Surrogate: Decachlorobiphenyl			40-150	98 %			06/28/19	07/02/19 02:01	
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.02		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Barium	7.29		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Cadmium	ND		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Chromium	8.04		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Lead	6.48		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Mercury	0.0145		mg/kg dry	0.0134	0.0134	1	07/01/19	07/02/19 14:19	VVD
Selenium	0.657		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD
Silver	ND		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 14:19	VVD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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Reported:
07/24/19 18:29

TT-EA1b-S-02

9062821-04 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.175		mg/kg dry	0.0911	0.0911	1	07/01/19	07/02/19 19:08	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	86.4		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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TT-EA1b-S-03

9062821-05 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Acenaphthylene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Benzo[a]anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Benzo[b]fluoranthene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Benzo[k]fluoranthene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Benzo[ghi]perylene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Benzo[a]pyrene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Chrysene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Fluoranthene	16.0		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Fluorene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Naphthalene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Phenanthrene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Pyrene	13.1		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 16:59	WB
Surrogate: Nitrobenzene-d5		23-120		77 %	07/01/19		07/02/19 16:59		
Surrogate: 2-Fluorobiphenyl		30-115		82 %	07/01/19		07/02/19 16:59		
Surrogate: Terphenyl-d14		18-137		92 %	07/01/19		07/02/19 16:59		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/03/19	07/03/19 14:24	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	15.3		mg/kg dry	9.3	9.3	1	06/28/19	07/01/19 16:34	SJA
Surrogate: o-Terphenyl		70-130		91 %	06/28/19		07/01/19 16:34		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:29

TT-EA1b-S-03

9062821-05 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1221	ND		ug/kg dry	198	198	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1232	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1242	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1248	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1254	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1260	112		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1262	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Aroclor-1268	ND		ug/kg dry	96.5	96.5	1	06/28/19	07/02/19 02:28	SJA
Surrogate: Tetrachloro-m-xylene			40-150	77 %	06/28/19		07/02/19 02:28		
Surrogate: Decachlorobiphenyl			40-150	91 %	06/28/19		07/02/19 02:28		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.20		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Barium	35.8		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Cadmium	0.476		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Chromium	10.1		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Lead	17.0		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Mercury	0.0410		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 14:22	VVD
Selenium	0.854		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:22	VVD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-03

9062821-05 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.217		mg/kg dry	0.0975	0.0975	1	07/01/19	07/02/19 19:44	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	80.8		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:29

TT-EA1b-S-04

9062821-06 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Acenaphthylene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Anthracene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Benzo[a]anthracene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Benzo[b]fluoranthene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Benzo[k]fluoranthene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Benzo[ghi]perylene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Benzo[a]pyrene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Chrysene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Fluoranthene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Fluorene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Naphthalene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Phenanthrene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Pyrene	ND		ug/kg dry	12.3	12.3	1	07/01/19	07/02/19 17:22	WB
Surrogate: Nitrobenzene-d5		23-120		75 %	07/01/19		07/02/19 17:22		
Surrogate: 2-Fluorobiphenyl		30-115		74 %	07/01/19		07/02/19 17:22		
Surrogate: Terphenyl-d14		18-137		90 %	07/01/19		07/02/19 17:22		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/03/19	07/03/19 14:54	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	ND		mg/kg dry	9.9	9.9	1	06/28/19	07/01/19 17:00	SJA
Surrogate: o-Terphenyl		70-130		100 %	06/28/19		07/01/19 17:00		



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-04

9062821-06 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	81		%			1	07/01/19	07/02/19 10:39	CEB
POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD)									
Aroclor-1016	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1221	ND		ug/kg dry	210	210	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1232	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1242	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1248	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1254	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1260	169		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1262	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Aroclor-1268	ND		ug/kg dry	102	102	1	06/28/19	07/02/19 02:56	SJA
Surrogate: Tetrachloro-m-xylene			40-150	78 %	06/28/19		07/02/19 02:56		
Surrogate: Decachlorobiphenyl			40-150	94 %	06/28/19		07/02/19 02:56		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.23		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Barium	39.3		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Cadmium	0.584		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Chromium	14.6		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Lead	36.8		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Mercury	0.0560		mg/kg dry	0.0154	0.0154	1	07/01/19	07/02/19 14:24	VVD
Selenium	1.03		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD
Silver	ND		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 14:24	VVD

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA1b-S-04

9062821-06 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.232		mg/kg dry	0.0901	0.0901	1	07/01/19	07/02/19 19:56	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	81.0		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2b-SD-01

9062821-07 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Acenaphthylene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Anthracene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Benzo[a]anthracene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Benzo[b]fluoranthene	18.7		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Benzo[k]fluoranthene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Benzo[ghi]perylene	14.6		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Benzo[a]pyrene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Chrysene	21.3		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Fluoranthene	36.6		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Fluorene	20.9		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Naphthalene	15.0		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Phenanthrene	47.2		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Pyrene	42.4		ug/kg dry	13.3	13.3	1	07/01/19	07/02/19 17:45	WB
Surrogate: Nitrobenzene-d5		23-120		65 %	07/01/19		07/02/19 17:45		
Surrogate: 2-Fluorobiphenyl		30-115		88 %	07/01/19		07/02/19 17:45		
Surrogate: Terphenyl-d14		18-137		76 %	07/01/19		07/02/19 17:45		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.13	0.13	1	07/03/19	07/03/19 15:25	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	330		mg/kg dry	21.3	21.3	1	06/28/19	07/01/19 17:26	SJA
Surrogate: o-Terphenyl		70-130		110 %	06/28/19		07/01/19 17:26		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2b-SD-01

9062821-07 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	75		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.52		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Barium	17.9		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Cadmium	ND		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Chromium	9.97		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Lead	4.09		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Mercury	ND		mg/kg dry	0.0167	0.0167	1	07/01/19	07/02/19 14:27	VVD
Selenium	ND		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Silver	ND		mg/kg dry	0.333	0.333	1	07/01/19	07/02/19 14:27	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.115	0.115	1	07/01/19	07/02/19 20:08	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	68.0		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2b-SD-02

9062821-08 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Acenaphthylene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Anthracene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Benzo[a]anthracene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Benzo[b]fluoranthene	33.0		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Benzo[k]fluoranthene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Benzo[ghi]perylene	28.2		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Benzo[a]pyrene	16.2		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Chrysene	28.7		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Fluoranthene	38.7		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Fluorene	21.7		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Indeno[1,2,3-cd]pyrene	19.6		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Naphthalene	25.5		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Phenanthrene	50.6		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Pyrene	48.9		ug/kg dry	15.9	15.9	1	07/01/19	07/02/19 18:07	WB
Surrogate: Nitrobenzene-d5		23-120		55 %	07/01/19		07/02/19 18:07		
Surrogate: 2-Fluorobiphenyl		30-115		55 %	07/01/19		07/02/19 18:07		
Surrogate: Terphenyl-d14		18-137		60 %	07/01/19		07/02/19 18:07		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	0.18		mg/kg dry	0.16	0.16	1	07/03/19	07/03/19 16:38	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	164		mg/kg dry	25.4	25.4	1	06/28/19	07/01/19 17:52	SJA
Surrogate: o-Terphenyl		70-130		110 %	06/28/19		07/01/19 17:52		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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07/24/19 18:29

TT-EA2b-SD-02

9062821-08 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	63		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.61		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Barium	16.3		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Cadmium	ND		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Chromium	24.1		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Lead	6.87		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Mercury	0.0292		mg/kg dry	0.0198	0.0198	1	07/01/19	07/02/19 14:29	VVD
Selenium	0.519		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Silver	ND		mg/kg dry	0.397	0.397	1	07/01/19	07/02/19 14:29	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.182		mg/kg dry	0.130	0.130	1	07/01/19	07/02/19 20:20	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	61.1		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

DUP-3

9062821-09 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Acenaphthylene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Anthracene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Benzo[a]anthracene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Benzo[b]fluoranthene	14.5		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Benzo[k]fluoranthene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Benzo[ghi]perylene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Benzo[a]pyrene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Chrysene	16.9		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Fluoranthene	21.2		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Fluorene	16.2		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Naphthalene	14.5		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Phenanthrene	34.7		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Pyrene	32.7		ug/kg dry	12.5	12.5	1	07/01/19	07/02/19 18:30	WB
Surrogate: Nitrobenzene-d5		23-120		65 %		07/01/19		07/02/19 18:30	
Surrogate: 2-Fluorobiphenyl		30-115		91 %		07/01/19		07/02/19 18:30	
Surrogate: Terphenyl-d14		18-137		91 %		07/01/19		07/02/19 18:30	
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.13	0.13	1	07/03/19	07/03/19 17:08	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	222		mg/kg dry	20.0	20.0	1	06/28/19	07/01/19 18:19	SJA
Surrogate: o-Terphenyl		70-130		105 %		06/28/19		07/01/19 18:19	

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07/24/19 18:29

DUP-3

9062821-09 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	80		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.29		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Barium	21.1		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Cadmium	ND		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Chromium	18.0		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Lead	4.52		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Mercury	0.0177		mg/kg dry	0.0156	0.0156	1	07/01/19	07/02/19 14:32	VVD
Selenium	0.450		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Silver	ND		mg/kg dry	0.313	0.313	1	07/01/19	07/02/19 14:32	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.388		mg/kg dry	0.113	0.113	1	07/01/19	07/02/19 20:32	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	70.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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07/24/19 18:29

TT-EA2a-S-01

9062821-10 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Acenaphthylene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Anthracene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Benzo[a]anthracene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Benzo[b]fluoranthene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Benzo[k]fluoranthene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Benzo[ghi]perylene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Benzo[a]pyrene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Chrysene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Fluoranthene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Fluorene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Naphthalene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Phenanthrene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Pyrene	ND		ug/kg dry	55.6	55.6	1	07/01/19	07/02/19 18:53	WB
Surrogate: Nitrobenzene-d5		23-120		102 %	07/01/19		07/02/19 18:53		
Surrogate: 2-Fluorobiphenyl		30-115		100 %	07/01/19		07/02/19 18:53		
Surrogate: Terphenyl-d14		18-137		117 %	07/01/19		07/02/19 18:53		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	07/03/19	07/03/19 17:38	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	93.0		mg/kg dry	44.4	44.4	1	06/28/19	07/01/19 18:45	SJA
Surrogate: o-Terphenyl		70-130		80 %	06/28/19		07/01/19 18:45		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2a-S-01

9062821-10 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	90		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.09		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Barium	17.7		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Cadmium	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Chromium	15.8		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Lead	3.49		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Mercury	0.0179		mg/kg dry	0.0139	0.0139	1	07/01/19	07/02/19 14:35	VVD
Selenium	0.773		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Silver	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 14:35	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.340		mg/kg dry	0.0868	0.0868	1	07/01/19	07/02/19 20:44	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	89.3		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2a-S-02

9062821-11 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Acenaphthylene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Anthracene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Benzo[a]anthracene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Benzo[b]fluoranthene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Benzo[k]fluoranthene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Benzo[ghi]perylene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Benzo[a]pyrene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Chrysene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Fluoranthene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Fluorene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Naphthalene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Phenanthrene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Pyrene	ND		ug/kg dry	11.8	11.8	1	07/01/19	07/02/19 19:16	WB
Surrogate: Nitrobenzene-d5		23-120		56 %	07/01/19		07/02/19 19:16		
Surrogate: 2-Fluorobiphenyl		30-115		64 %	07/01/19		07/02/19 19:16		
Surrogate: Terphenyl-d14		18-137		90 %	07/01/19		07/02/19 19:16		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/03/19	07/03/19 18:09	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	26.6		mg/kg dry	9.4	9.4	1	06/28/19	07/01/19 19:11	SJA
Surrogate: o-Terphenyl		70-130		109 %	06/28/19		07/01/19 19:11		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2a-S-02

9062821-11 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	85		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	6.78		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Barium	25.6		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Cadmium	ND		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Chromium	24.5		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Lead	11.4		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Mercury	0.0358		mg/kg dry	0.0147	0.0147	1	07/01/19	07/02/19 14:42	VVD
Selenium	1.18		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Silver	ND		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 14:42	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0907	0.0907	1	07/01/19	07/02/19 20:55	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	85.2		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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07/24/19 18:29

TT-EA2c-S-01

9062821-12 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Acenaphthylene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Anthracene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Benzo[a]anthracene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Benzo[b]fluoranthene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Benzo[k]fluoranthene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Benzo[ghi]perylene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Benzo[a]pyrene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Chrysene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Fluoranthene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Fluorene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Naphthalene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Phenanthrene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Pyrene	ND		ug/kg dry	2750	2750	25	07/01/19	07/02/19 19:39	WB
Surrogate: Nitrobenzene-d5		23-120		%	07/01/19		07/02/19 19:39		S-01
Surrogate: 2-Fluorobiphenyl		30-115		%	07/01/19		07/02/19 19:39		S-01
Surrogate: Terphenyl-d14		18-137		%	07/01/19		07/02/19 19:39		S-01
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	137	137	1250	07/08/19	07/08/19 16:30	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	17900		mg/kg dry	1760	1760	20	06/28/19	07/01/19 19:37	SJA
Surrogate: o-Terphenyl		70-130		%	06/28/19		07/01/19 19:37		S-01

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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TT-EA2c-S-01

9062821-12 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	91		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.31		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Barium	382		mg/kg dry	1.37	1.37	5	07/01/19	07/02/19 16:20	VVD
Cadmium	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Chromium	13.5		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Lead	2.75		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Mercury	0.0194		mg/kg dry	0.0137	0.0137	1	07/01/19	07/02/19 14:45	VVD
Selenium	0.991		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Silver	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 14:45	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.211		mg/kg dry	0.0850	0.0850	1	07/01/19	07/02/19 21:07	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	90.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

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REVISED REPORT. Original report ID 9062821 07 08 19 1642
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07/24/19 18:29

TT-EA2c-S-02

9062821-13 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Acenaphthylene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Benzo[a]anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Benzo[b]fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Benzo[k]fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Benzo[ghi]perylene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Benzo[a]pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Chrysene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Fluorene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Naphthalene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Phenanthrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:02	WB
Surrogate: Nitrobenzene-d5		23-120		58 %	07/01/19		07/02/19 20:02		
Surrogate: 2-Fluorobiphenyl		30-115		58 %	07/01/19		07/02/19 20:02		
Surrogate: Terphenyl-d14		18-137		90 %	07/01/19		07/02/19 20:02		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	07/08/19	07/08/19 11:26	GM
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	87		%			1	07/01/19	07/02/19 10:39	CEB



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Project: TIMBERS AT TROY

Project Number: 1483559
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TT-EA2c-S-02

9062821-13 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	4.45		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Barium	42.4		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Cadmium	ND		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Chromium	15.2		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Lead	5.65		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Mercury	0.0228		mg/kg dry	0.0144	0.0144	1	07/01/19	07/02/19 14:48	VVD
Selenium	0.829		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Silver	ND		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 14:48	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.209		mg/kg dry	0.0912	0.0912	1	07/01/19	07/02/19 21:19	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	87.6		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:29

TT-EA2c-S-02

9062821-13RE1 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	16.0		mg/kg dry	9.2	9.2	1	07/02/19	07/03/19 15:44	SJA
Surrogate: o-Terphenyl			70-130	96 %	07/02/19		07/03/19 15:44		



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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TT-EA2c-S-03

9062821-14 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Acenaphthylene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Benzo[a]anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Benzo[b]fluoranthene	38.0		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Benzo[k]fluoranthene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Benzo[ghi]perylene	26.6		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Benzo[a]pyrene	17.5		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Chrysene	26.8		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Fluoranthene	36.2		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Fluorene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Indeno[1,2,3-cd]pyrene	21.1		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Naphthalene	ND		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Phenanthrene	17.3		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Pyrene	34.4		ug/kg dry	11.6	11.6	1	07/01/19	07/02/19 20:25	WB
Surrogate: Nitrobenzene-d5		23-120		59 %		07/01/19		07/02/19 20:25	
Surrogate: 2-Fluorobiphenyl		30-115		63 %		07/01/19		07/02/19 20:25	
Surrogate: Terphenyl-d14		18-137		82 %		07/01/19		07/02/19 20:25	
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/08/19	07/08/19 11:57	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	50.1		mg/kg dry	18.6	18.6	1	06/28/19	07/01/19 20:29	SJA
Surrogate: o-Terphenyl		70-130		113 %		06/28/19		07/01/19 20:29	

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:29

TT-EA2c-S-03

9062821-14 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.65		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Barium	24.6		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Cadmium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Chromium	10.6		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Lead	6.03		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Mercury	0.0223		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 14:50	VVD
Selenium	0.491		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 14:50	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.267		mg/kg dry	0.0917	0.0917	1	07/01/19	07/02/19 21:31	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	85.4		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2c-S-04

9062821-15 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Acenaphthylene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Benzo[a]anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Benzo[b]fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Benzo[k]fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Benzo[ghi]perylene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Benzo[a]pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Chrysene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Fluoranthene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Fluorene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Naphthalene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Phenanthrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Pyrene	ND		ug/kg dry	11.5	11.5	1	07/01/19	07/02/19 20:48	WB
Surrogate: Nitrobenzene-d5		23-120		72 %	07/01/19		07/02/19 20:48		
Surrogate: 2-Fluorobiphenyl		30-115		70 %	07/01/19		07/02/19 20:48		
Surrogate: Terphenyl-d14		18-137		88 %	07/01/19		07/02/19 20:48		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	07/08/19	07/08/19 12:27	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	33.8		mg/kg dry	18.4	18.4	1	06/28/19	07/01/19 20:56	SJA
Surrogate: o-Terphenyl		70-130		101 %	06/28/19		07/01/19 20:56		



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Project Number: 1483559
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REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA2c-S-04

9062821-15 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	87		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.83		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Barium	20.9		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Cadmium	0.623		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Chromium	12.7		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Lead	210		mg/kg dry	1.44	1.44	5	07/01/19	07/02/19 16:23	VVD
Mercury	ND		mg/kg dry	0.0144	0.0144	1	07/01/19	07/02/19 15:03	VVD
Selenium	0.765		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Silver	ND		mg/kg dry	0.287	0.287	1	07/01/19	07/02/19 15:03	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.249		mg/kg dry	0.0890	0.0890	1	07/01/19	07/02/19 22:07	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	87.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA4-S-01

9062821-16 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Acenaphthylene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Anthracene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Benzo[a]anthracene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Benzo[b]fluoranthene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Benzo[k]fluoranthene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Benzo[ghi]perylene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Benzo[a]pyrene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Chrysene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Fluoranthene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Fluorene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Naphthalene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Phenanthrene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Pyrene	ND		ug/kg dry	118	118	5	07/01/19	07/02/19 21:11	WB
Surrogate: Nitrobenzene-d5		23-120		94 %	07/01/19		07/02/19 21:11		
Surrogate: 2-Fluorobiphenyl		30-115		81 %	07/01/19		07/02/19 21:11		
Surrogate: Terphenyl-d14		18-137		117 %	07/01/19		07/02/19 21:11		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/08/19	07/08/19 12:58	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	1580		mg/kg dry	376	376	20	06/28/19	07/01/19 21:22	SJA
Surrogate: o-Terphenyl		70-130		%	06/28/19		07/01/19 21:22		S-01

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA4-S-01

9062821-16 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	85		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	5.38		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Barium	43.8		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Cadmium	0.360		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Chromium	20.8		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Lead	10.9		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Mercury	0.0323		mg/kg dry	0.0147	0.0147	1	07/01/19	07/02/19 15:06	VVD
Selenium	0.988		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Silver	ND		mg/kg dry	0.294	0.294	1	07/01/19	07/02/19 15:06	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.203		mg/kg dry	0.0892	0.0892	1	07/01/19	07/02/19 22:19	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	87.4		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA4-S-02

9062821-17 (Soil)

Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Acenaphthylene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Anthracene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Benzo[a]anthracene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Benzo[b]fluoranthene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Benzo[k]fluoranthene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Benzo[ghi]perylene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Benzo[a]pyrene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Chrysene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Fluoranthene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Fluorene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Naphthalene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Phenanthrene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Pyrene	ND		ug/kg dry	269	269	5	07/01/19	07/02/19 21:34	WB
Surrogate: Nitrobenzene-d5		23-120		%	07/01/19		07/02/19 21:34		S-01
Surrogate: 2-Fluorobiphenyl		30-115		%	07/01/19		07/02/19 21:34		S-01
Surrogate: Terphenyl-d14		18-137		%	07/01/19		07/02/19 21:34		S-01
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	0.14		mg/kg dry	0.11	0.11	1	07/08/19	07/08/19 13:28	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	9020		mg/kg dry	860	860	20	06/28/19	07/01/19 21:48	SJA
Surrogate: o-Terphenyl		70-130		%	06/28/19		07/01/19 21:48		S-01

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA4-S-02

9062821-17 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	93		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	7.63		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Barium	31.8		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Cadmium	ND		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Chromium	15.5		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Lead	6.71		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Mercury	0.0138		mg/kg dry	0.0134	0.0134	1	07/01/19	07/02/19 15:14	VVD
Selenium	1.11		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Silver	ND		mg/kg dry	0.269	0.269	1	07/01/19	07/02/19 15:14	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.137		mg/kg dry	0.0846	0.0846	1	07/01/19	07/02/19 22:31	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	87.2		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

DUP-2

9062821-18 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS)									
Acenaphthene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Acenaphthylene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Anthracene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Benzo[a]anthracene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Benzo[b]fluoranthene	44.8		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Benzo[k]fluoranthene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Benzo[ghi]perylene	31.9		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Benzo[a]pyrene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Chrysene	34.5		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Fluoranthene	43.3		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Fluorene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Indeno[1,2,3-cd]pyrene	24.5		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Naphthalene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Phenanthrene	ND		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Pyrene	44.5		ug/kg dry	23.3	23.3	1	07/01/19	07/02/19 21:57	WB
Surrogate: Nitrobenzene-d5		23-120		76 %	07/01/19		07/02/19 21:57		
Surrogate: 2-Fluorobiphenyl		30-115		79 %	07/01/19		07/02/19 21:57		
Surrogate: Terphenyl-d14		18-137		98 %	07/01/19		07/02/19 21:57		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	07/08/19	07/08/19 13:58	GM
DIESEL RANGE ORGANICS BY EPA 3540/8015C									
Diesel-Range Organics	78.1		mg/kg dry	18.6	18.6	1	06/28/19	07/01/19 22:15	SJA
Surrogate: o-Terphenyl		70-130		100 %	06/28/19		07/01/19 22:15		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

DUP-2

9062821-18 (Soil)
Sample Date: 06/25/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.69		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Barium	19.2		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Cadmium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Chromium	12.4		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Lead	5.77		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Mercury	0.0192		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 15:16	VVD
Selenium	0.359		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:16	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.118		mg/kg dry	0.0913	0.0913	1	07/01/19	07/02/19 22:43	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	84.9		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA5-S-01

9062821-19 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.08		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Barium	20.8		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Cadmium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Chromium	14.1		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Lead	5.86		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Mercury	0.0282		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 15:19	VVD
Selenium	0.873		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:19	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.210		mg/kg dry	0.0916	0.0916	1	07/01/19	07/02/19 22:55	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	86.9		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA5-S-02

9062821-20 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	91		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	0.820		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Barium	4.44		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Cadmium	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Chromium	4.57		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Lead	1.52		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Mercury	ND		mg/kg dry	0.0137	0.0137	1	07/01/19	07/02/19 15:21	VVD
Selenium	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Silver	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:21	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.251		mg/kg dry	0.0860	0.0860	1	07/01/19	07/02/19 23:07	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	91.6		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA5-S-03

9062821-21 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	84		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.14		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Barium	37.1		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Cadmium	ND		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Chromium	9.54		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Lead	4.82		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Mercury	0.0176		mg/kg dry	0.0149	0.0149	1	07/01/19	07/02/19 15:24	VVD
Selenium	0.876		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Silver	ND		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:24	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0865	0.0865	1	07/01/19	07/03/19 13:19	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	86.9		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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TT-EA5-S-04

9062821-22 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	0.662		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Barium	4.53		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Cadmium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Chromium	5.47		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Lead	1.50		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Mercury	ND		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 15:27	VVD
Selenium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:27	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0843	0.0843	1	07/01/19	07/03/19 14:19	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	90.6		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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TT-EA5-S-05

9062821-23 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	81		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.16		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Barium	49.4		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Cadmium	ND		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Chromium	36.6		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Lead	6.70		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Mercury	0.0196		mg/kg dry	0.0154	0.0154	1	07/01/19	07/02/19 15:29	VVD
Selenium	2.66		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Silver	ND		mg/kg dry	0.309	0.309	1	07/01/19	07/02/19 15:29	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	0.220		mg/kg dry	0.107	0.107	1	07/01/19	07/03/19 14:31	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	72.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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TT-EA5-S-06

9062821-24 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	90		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	0.680		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Barium	4.59		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Cadmium	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Chromium	3.59		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Lead	1.48		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Mercury	ND		mg/kg dry	0.0139	0.0139	1	07/01/19	07/02/19 15:32	VVD
Selenium	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Silver	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:32	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.104	0.104	1	07/01/19	07/03/19 14:43	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	73.1		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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TT-EA5-S-07

9062821-25 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	83		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.55		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Barium	41.2		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Cadmium	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Chromium	11.9		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Lead	20.1		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Mercury	0.0372		mg/kg dry	0.0151	0.0151	1	07/01/19	07/02/19 15:34	VVD
Selenium	3.32		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Silver	ND		mg/kg dry	0.301	0.301	1	07/01/19	07/02/19 15:34	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.119	0.119	1	07/01/19	07/03/19 15:19	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	69.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA5-S-08

9062821-26 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	61		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	4.04		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Barium	36.8		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Cadmium	ND		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Chromium	17.9		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Lead	14.5		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Mercury	0.0474		mg/kg dry	0.0205	0.0205	1	07/01/19	07/02/19 15:37	VVD
Selenium	2.02		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Silver	ND		mg/kg dry	0.410	0.410	1	07/01/19	07/02/19 15:37	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.119	0.119	1	07/01/19	07/03/19 15:31	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	67.5		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

DUP-4

9062821-27 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	84		%			1	07/01/19	07/02/19 10:39	CEB
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	0.691		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Barium	5.85		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Cadmium	ND		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Chromium	3.84		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Lead	1.73		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Mercury	ND		mg/kg dry	0.0149	0.0149	1	07/01/19	07/02/19 15:45	VVD
Selenium	ND		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Silver	ND		mg/kg dry	0.298	0.298	1	07/01/19	07/02/19 15:45	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.104	0.104	1	07/01/19	07/03/19 15:42	SES
Wet Chemistry Performed at Enviro-Chem									
% Solids	75.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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Reported:
07/24/19 18:29

TT-EA6a-S-01

9062821-28 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	96		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
alpha-BHC	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
beta-BHC	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
delta-BHC	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
alpha-Chlordane	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
gamma-Chlordane	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
4,4'-DDD	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
4,4'-DDE	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
4,4'-DDT	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Dieldrin	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Endosulfan I	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
Endosulfan II	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Endosulfan sulfate	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Endrin	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Endrin aldehyde	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Endrin ketone	ND		ug/kg dry	6.98	6.98	1	06/28/19	07/01/19 20:56	SJA
Heptachlor	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
Heptachlor epoxide	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.44	3.44	1	06/28/19	07/01/19 20:56	SJA
Methoxychlor	ND		ug/kg dry	34.4	34.4	1	06/28/19	07/01/19 20:56	SJA
Toxaphene	ND		ug/kg dry	69.8	69.8	1	06/28/19	07/01/19 20:56	SJA
Surrogate: Tetrachloro-m-xylene			40-150	75 %	06/28/19		07/01/19 20:56		
Surrogate: Decachlorobiphenyl			40-150	90 %	06/28/19		07/01/19 20:56		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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07/24/19 18:29

TT-EA6a-S-01

9062821-28 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
2,4-DB	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
Dalapon	ND		ug/kg dry	83.3	83.3	1	07/02/19	07/05/19 23:01	SJA
Dicamba	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
Dichlorprop	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
Dinoseb	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
MCPA	ND		ug/kg dry	8330	8330	1	07/02/19	07/05/19 23:01	SJA
MCPP	ND		ug/kg dry	8330	8330	1	07/02/19	07/05/19 23:01	SJA
2,4,5-T	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	41.7	41.7	1	07/02/19	07/05/19 23:01	SJA
<i>Surrogate: DCAA</i>									
			50-150	75 %		07/02/19	07/05/19 23:01		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	2.39		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Barium	33.9		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Cadmium	ND		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Chromium	9.18		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Lead	26.8		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Mercury	0.0551		mg/kg dry	0.0130	0.0130	1	07/01/19	07/02/19 15:47	VVD
Selenium	0.823		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Silver	ND		mg/kg dry	0.260	0.260	1	07/01/19	07/02/19 15:47	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0843	0.0843	1	07/01/19	07/03/19 15:54	SES

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-01

9062821-28 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	95.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-02

9062821-29 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	90		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
alpha-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
beta-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
delta-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
alpha-Chlordane	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
gamma-Chlordane	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
4,4'-DDD	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
4,4'-DDE	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
4,4'-DDT	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Dieldrin	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Endosulfan I	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
Endosulfan II	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Endosulfan sulfate	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Endrin	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Endrin aldehyde	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Endrin ketone	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/01/19 21:24	SJA
Heptachlor	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
Heptachlor epoxide	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/01/19 21:24	SJA
Methoxychlor	ND		ug/kg dry	36.7	36.7	1	06/28/19	07/01/19 21:24	SJA
Toxaphene	ND		ug/kg dry	74.4	74.4	1	06/28/19	07/01/19 21:24	SJA
Surrogate: Tetrachloro-m-xylene			40-150	77 %	06/28/19		07/01/19 21:24		
Surrogate: Decachlorobiphenyl			40-150	90 %	06/28/19		07/01/19 21:24		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-02

9062821-29 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
2,4-DB	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
Dalapon	ND		ug/kg dry	88.9	88.9	1	07/02/19	07/05/19 23:36	SJA
Dicamba	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
Dichlorprop	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
Dinoseb	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
MCPA	ND		ug/kg dry	8890	8890	1	07/02/19	07/05/19 23:36	SJA
MCPP	ND		ug/kg dry	8890	8890	1	07/02/19	07/05/19 23:36	SJA
2,4,5-T	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/05/19 23:36	SJA
<i>Surrogate: DCAA</i>									
			50-150	70 %		07/02/19	07/05/19 23:36		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.32		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Barium	64.7		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Cadmium	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Chromium	15.5		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Lead	19.3		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Mercury	0.0454		mg/kg dry	0.0139	0.0139	1	07/01/19	07/02/19 15:50	VVD
Selenium	1.57		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Silver	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 15:50	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0872	0.0872	1	07/01/19	07/03/19 16:06	SES

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-02

9062821-29 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	91.2		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-03

9062821-30 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	94		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
alpha-BHC	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
beta-BHC	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
delta-BHC	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
alpha-Chlordane	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
gamma-Chlordane	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
4,4'-DDD	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
4,4'-DDE	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
4,4'-DDT	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Dieldrin	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Endosulfan I	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
Endosulfan II	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Endosulfan sulfate	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Endrin	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Endrin aldehyde	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Endrin ketone	ND		ug/kg dry	7.13	7.13	1	06/28/19	07/01/19 21:51	SJA
Heptachlor	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
Heptachlor epoxide	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.51	3.51	1	06/28/19	07/01/19 21:51	SJA
Methoxychlor	ND		ug/kg dry	35.1	35.1	1	06/28/19	07/01/19 21:51	SJA
Toxaphene	ND		ug/kg dry	71.3	71.3	1	06/28/19	07/01/19 21:51	SJA
Surrogate: Tetrachloro-m-xylene			40-150	74 %			06/28/19	07/01/19 21:51	
Surrogate: Decachlorobiphenyl			40-150	90 %			06/28/19	07/01/19 21:51	

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-03

9062821-30 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
2,4-DB	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
Dalapon	ND		ug/kg dry	85.1	85.1	1	07/02/19	07/06/19 00:11	SJA
Dicamba	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
Dichlorprop	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
Dinoseb	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
MCPA	ND		ug/kg dry	8510	8510	1	07/02/19	07/06/19 00:11	SJA
MCPP	ND		ug/kg dry	8510	8510	1	07/02/19	07/06/19 00:11	SJA
2,4,5-T	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	42.6	42.6	1	07/02/19	07/06/19 00:11	SJA
<i>Surrogate: DCAA</i>									
			50-150	74 %		07/02/19	07/06/19 00:11		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.57		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Barium	55.4		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Cadmium	ND		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Chromium	12.5		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Lead	13.5		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Mercury	0.0334		mg/kg dry	0.0133	0.0133	1	07/01/19	07/02/19 15:52	VVD
Selenium	1.56		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Silver	ND		mg/kg dry	0.266	0.266	1	07/01/19	07/02/19 15:52	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0856	0.0856	1	07/01/19	07/03/19 16:18	SES

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-03

9062821-30 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	92.3		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-04

9062821-31 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	91		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
alpha-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
beta-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
delta-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
alpha-Chlordane	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
gamma-Chlordane	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
4,4'-DDD	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
4,4'-DDE	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
4,4'-DDT	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Dieldrin	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Endosulfan I	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
Endosulfan II	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Endosulfan sulfate	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Endrin	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Endrin aldehyde	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Endrin ketone	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 22:19	SJA
Heptachlor	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
Heptachlor epoxide	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 22:19	SJA
Methoxychlor	ND		ug/kg dry	36.3	36.3	1	06/28/19	07/01/19 22:19	SJA
Toxaphene	ND		ug/kg dry	73.6	73.6	1	06/28/19	07/01/19 22:19	SJA
Surrogate: Tetrachloro-m-xylene			40-150	73 %	06/28/19		07/01/19 22:19		
Surrogate: Decachlorobiphenyl			40-150	87 %	06/28/19		07/01/19 22:19		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-04

9062821-31 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
2,4-DB	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
Dalapon	ND		ug/kg dry	87.9	87.9	1	07/02/19	07/06/19 00:45	SJA
Dicamba	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
Dichlorprop	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
Dinoseb	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
MCPA	ND		ug/kg dry	8790	8790	1	07/02/19	07/06/19 00:45	SJA
MCPP	ND		ug/kg dry	8790	8790	1	07/02/19	07/06/19 00:45	SJA
2,4,5-T	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 00:45	SJA
<i>Surrogate: DCAA</i>									
			50-150	74 %		07/02/19	07/06/19 00:45		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.21		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Barium	36.9		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Cadmium	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Chromium	9.60		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Lead	17.8		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Mercury	0.0433		mg/kg dry	0.0137	0.0137	1	07/01/19	07/02/19 15:55	VVD
Selenium	1.18		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Silver	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 15:55	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0851	0.0851	1	07/01/19	07/03/19 16:30	SES

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MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6a-S-04

9062821-31 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	90.1		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-01

9062821-32 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	86		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
alpha-BHC	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
beta-BHC	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
delta-BHC	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
alpha-Chlordane	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
gamma-Chlordane	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
4,4'-DDD	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
4,4'-DDE	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
4,4'-DDT	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Dieldrin	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Endosulfan I	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
Endosulfan II	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Endosulfan sulfate	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Endrin	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Endrin aldehyde	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Endrin ketone	ND		ug/kg dry	7.79	7.79	1	06/28/19	07/01/19 22:47	SJA
Heptachlor	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
Heptachlor epoxide	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.84	3.84	1	06/28/19	07/01/19 22:47	SJA
Methoxychlor	ND		ug/kg dry	38.4	38.4	1	06/28/19	07/01/19 22:47	SJA
Toxaphene	ND		ug/kg dry	77.9	77.9	1	06/28/19	07/01/19 22:47	SJA
Surrogate: Tetrachloro-m-xylene			40-150	77 %	06/28/19		07/01/19 22:47		
Surrogate: Decachlorobiphenyl			40-150	90 %	06/28/19		07/01/19 22:47		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-01

9062821-32 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
2,4-DB	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
Dalapon	ND		ug/kg dry	93.0	93.0	1	07/02/19	07/06/19 01:20	SJA
Dicamba	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
Dichlorprop	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
Dinoseb	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
MCPA	ND		ug/kg dry	9300	9300	1	07/02/19	07/06/19 01:20	SJA
MCP	ND		ug/kg dry	9300	9300	1	07/02/19	07/06/19 01:20	SJA
2,4,5-T	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	46.5	46.5	1	07/02/19	07/06/19 01:20	SJA
<i>Surrogate: DCAA</i>									
			50-150	67 %		07/02/19	07/06/19 01:20		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.68		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Barium	36.7		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Cadmium	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Chromium	14.2		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Lead	14.7		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Mercury	0.0469		mg/kg dry	0.0145	0.0145	1	07/01/19	07/02/19 15:58	VVD
Selenium	1.79		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Silver	ND		mg/kg dry	0.291	0.291	1	07/01/19	07/02/19 15:58	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0928	0.0928	1	07/01/19	07/03/19 16:42	SES

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-01

9062821-32 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	88.2		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-02

9062821-33 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	72		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
alpha-BHC	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
beta-BHC	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
delta-BHC	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
alpha-Chlordane	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
gamma-Chlordane	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
4,4'-DDD	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
4,4'-DDE	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
4,4'-DDT	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Dieldrin	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Endosulfan I	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
Endosulfan II	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Endosulfan sulfate	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Endrin	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Endrin aldehyde	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Endrin ketone	ND		ug/kg dry	9.31	9.31	1	06/28/19	07/01/19 23:15	SJA
Heptachlor	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
Heptachlor epoxide	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	4.58	4.58	1	06/28/19	07/01/19 23:15	SJA
Methoxychlor	ND		ug/kg dry	45.8	45.8	1	06/28/19	07/01/19 23:15	SJA
Toxaphene	ND		ug/kg dry	93.1	93.1	1	06/28/19	07/01/19 23:15	SJA
Surrogate: Tetrachloro-m-xylene			40-150	75 %	06/28/19		07/01/19 23:15		
Surrogate: Decachlorobiphenyl			40-150	83 %	06/28/19		07/01/19 23:15		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-02

9062821-33 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
2,4-DB	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
Dalapon	ND		ug/kg dry	111	111	1	07/02/19	07/06/19 01:55	SJA
Dicamba	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
Dichlorprop	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
Dinoseb	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
MCPA	ND		ug/kg dry	11100	11100	1	07/02/19	07/06/19 01:55	SJA
MCPP	ND		ug/kg dry	11100	11100	1	07/02/19	07/06/19 01:55	SJA
2,4,5-T	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	55.6	55.6	1	07/02/19	07/06/19 01:55	SJA
<i>Surrogate: DCAA</i>									
			50-150	72 %		07/02/19	07/06/19 01:55		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	1.77		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Barium	19.8		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Cadmium	ND		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Chromium	20.5		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Lead	11.5		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Mercury	0.0230		mg/kg dry	0.0174	0.0174	1	07/01/19	07/02/19 16:00	VVD
Selenium	2.93		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Silver	ND		mg/kg dry	0.347	0.347	1	07/01/19	07/02/19 16:00	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.103	0.103	1	07/01/19	07/03/19 16:54	SES

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-02

9062821-33 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
Wet Chemistry Performed at Enviro-Chem									
% Solids	77.6		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



Will Brewington, President

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-03

9062821-34 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	91		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
alpha-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
beta-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
delta-BHC	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
alpha-Chlordane	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
gamma-Chlordane	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
4,4'-DDD	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
4,4'-DDE	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
4,4'-DDT	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Dieldrin	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Endosulfan I	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
Endosulfan II	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Endosulfan sulfate	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Endrin	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Endrin aldehyde	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Endrin ketone	ND		ug/kg dry	7.36	7.36	1	06/28/19	07/01/19 23:42	SJA
Heptachlor	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
Heptachlor epoxide	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.63	3.63	1	06/28/19	07/01/19 23:42	SJA
Methoxychlor	ND		ug/kg dry	36.3	36.3	1	06/28/19	07/01/19 23:42	SJA
Toxaphene	ND		ug/kg dry	73.6	73.6	1	06/28/19	07/01/19 23:42	SJA
Surrogate: Tetrachloro-m-xylene			40-150	76 %	06/28/19		07/01/19 23:42		
Surrogate: Decachlorobiphenyl			40-150	90 %	06/28/19		07/01/19 23:42		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-03

9062821-34 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
2,4-DB	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
Dalapon	ND		ug/kg dry	87.9	87.9	1	07/02/19	07/06/19 02:30	SJA
Dicamba	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
Dichlorprop	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
Dinoseb	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
MCPA	ND		ug/kg dry	8790	8790	1	07/02/19	07/06/19 02:30	SJA
MCP	ND		ug/kg dry	8790	8790	1	07/02/19	07/06/19 02:30	SJA
2,4,5-T	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	44.0	44.0	1	07/02/19	07/06/19 02:30	SJA
<i>Surrogate: DCAA</i>									
			50-150	76 %		07/02/19	07/06/19 02:30		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	4.39		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Barium	34.2		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Cadmium	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Chromium	12.7		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Lead	19.8		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Mercury	0.0390		mg/kg dry	0.0137	0.0137	1	07/01/19	07/02/19 16:03	VVD
Selenium	1.77		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Silver	ND		mg/kg dry	0.275	0.275	1	07/01/19	07/02/19 16:03	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0887	0.0887	1	07/01/19	07/03/19 17:06	SES

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-03

9062821-34 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	91.7		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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Will Brewington, President

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

TT-EA6b-S-04

9062821-35 (Soil)
Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05									
Percent Solids	90		%			1	07/01/19	07/02/19 10:39	CEB
CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD)									
Aldrin	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
alpha-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
beta-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
delta-BHC	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
alpha-Chlordane	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
gamma-Chlordane	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
4,4'-DDD	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
4,4'-DDE	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
4,4'-DDT	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Dieldrin	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Endosulfan I	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
Endosulfan II	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Endosulfan sulfate	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Endrin	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Endrin aldehyde	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Endrin ketone	ND		ug/kg dry	7.44	7.44	1	06/28/19	07/02/19 00:10	SJA
Heptachlor	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
Heptachlor epoxide	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
Lindane (gamma-BHC)	ND		ug/kg dry	3.67	3.67	1	06/28/19	07/02/19 00:10	SJA
Methoxychlor	ND		ug/kg dry	36.7	36.7	1	06/28/19	07/02/19 00:10	SJA
Toxaphene	ND		ug/kg dry	74.4	74.4	1	06/28/19	07/02/19 00:10	SJA
Surrogate: Tetrachloro-m-xylene			40-150	79 %	06/28/19		07/02/19 00:10		
Surrogate: Decachlorobiphenyl			40-150	93 %	06/28/19		07/02/19 00:10		

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9062821-35 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD)									
2,4-D	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
2,4-DB	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
Dalapon	ND		ug/kg dry	88.9	88.9	1	07/02/19	07/06/19 03:05	SJA
Dicamba	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
Dichlorprop	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
Dinoseb	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
MCPA	ND		ug/kg dry	8890	8890	1	07/02/19	07/06/19 03:05	SJA
MCPP	ND		ug/kg dry	8890	8890	1	07/02/19	07/06/19 03:05	SJA
2,4,5-T	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
2,4,5-TP (Silvex)	ND		ug/kg dry	44.4	44.4	1	07/02/19	07/06/19 03:05	SJA
<i>Surrogate: DCAA</i>									
			50-150	71 %	07/02/19		07/06/19 03:05		
TOTAL METALS ANALYSIS BY EPA 3050B/6020A									
Arsenic	3.38		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Barium	44.7		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Cadmium	ND		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Chromium	13.2		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Lead	16.0		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Mercury	0.0544		mg/kg dry	0.0139	0.0139	1	07/01/19	07/02/19 16:05	VVD
Selenium	1.94		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Silver	0.295		mg/kg dry	0.278	0.278	1	07/01/19	07/02/19 16:05	VVD
Chromium VI by EPA 7199 Performed at Enviro-Chem									
Chromium VI	ND		mg/kg dry	0.0849	0.0849	1	07/01/19	07/03/19 17:42	SES

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Project: TIMBERS AT TROY

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Project Manager: Vicki Pitman

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TT-EA6b-S-04

9062821-35 (Soil)

Sample Date: 06/26/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst

Wet Chemistry Performed at Enviro-Chem

% Solids	90.9		%	1.00	1.00	1	07/02/19	07/02/19 11:56	FRD



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SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907020 - 3540-GCMS(Soxhlet)

Blank (B907020-BLK1)

Prepared: 07/01/19 Analyzed: 07/02/19

Acenaphthene	ND		10.0	ug/kg wet						
Acenaphthylene	ND		10.0	ug/kg wet						
Anthracene	ND		10.0	ug/kg wet						
Benzo[a]anthracene	ND		10.0	ug/kg wet						
Benzo[b]fluoranthene	ND		10.0	ug/kg wet						
Benzo[k]fluoranthene	ND		10.0	ug/kg wet						
Benzo[ghi]perylene	ND		10.0	ug/kg wet						
Benzo[a]pyrene	ND		10.0	ug/kg wet						
Chrysene	ND		10.0	ug/kg wet						
Dibenzo[a,h]anthracene	ND		10.0	ug/kg wet						
Fluoranthene	ND		10.0	ug/kg wet						
Fluorene	ND		10.0	ug/kg wet						
Indeno[1,2,3-cd]pyrene	ND		10.0	ug/kg wet						
1-Methylnaphthalene	ND		10.0	ug/kg wet						
2-Methylnaphthalene	ND		10.0	ug/kg wet						
Naphthalene	ND		10.0	ug/kg wet						
Phenanthrene	ND		10.0	ug/kg wet						
Pyrene	ND		10.0	ug/kg wet						
Surrogate: Nitrobenzene-d5	32.9			ug/kg wet	50.0		66	23-120		
Surrogate: 2-Fluorobiphenyl	36.3			ug/kg wet	50.0		73	30-115		
Surrogate: Terphenyl-d14	45.4			ug/kg wet	50.0		91	18-137		

LCS (B907020-BS1)

Prepared: 07/01/19 Analyzed: 07/02/19

Acenaphthene	21		10.0	ug/kg wet	25.0		85	50-130		
Acenaphthylene	19		10.0	ug/kg wet	25.0		78	50-130		
Anthracene	18		10.0	ug/kg wet	25.0		73	50-130		
Benzo[a]anthracene	19		10.0	ug/kg wet	25.0		75	50-130		
Benzo[b]fluoranthene	20		10.0	ug/kg wet	25.0		79	50-130		
Benzo[k]fluoranthene	20		10.0	ug/kg wet	25.0		79	50-130		
Benzo[ghi]perylene	18		10.0	ug/kg wet	25.0		71	50-130		
Benzo[a]pyrene	16		10.0	ug/kg wet	25.0		66	50-130		
Chrysene	20		10.0	ug/kg wet	25.0		81	50-130		

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SEMIVOLATILE ORGANICS BY EPA METHOD 8270D-SIM (GC/MS) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907020 - 3540-GCMS(Soxhlet)

LCS (B907020-BS1)

Prepared: 07/01/19 Analyzed: 07/02/19

Dibenzo[a,h]anthracene	17		10.0	ug/kg wet	25.0		67	50-130		
Fluoranthene	21		10.0	ug/kg wet	25.0		83	50-130		
Fluorene	20		10.0	ug/kg wet	25.0		78	50-130		
Indeno[1,2,3-cd]pyrene	15		10.0	ug/kg wet	25.0		62	50-130		
1-Methylnaphthalene	ND		10.0	ug/kg wet				50-110		
2-Methylnaphthalene	ND		10.0	ug/kg wet				50-110		
Naphthalene	18		10.0	ug/kg wet	25.0		74	50-130		
Phenanthrene	19		10.0	ug/kg wet	25.0		78	50-130		
Pyrene	20		10.0	ug/kg wet	25.0		81	50-130		
Surrogate: Nitrobenzene-d5	33.9			ug/kg wet	50.0		68	23-120		
Surrogate: 2-Fluorobiphenyl	39.4			ug/kg wet	50.0		79	30-115		
Surrogate: Terphenyl-d14	47.2			ug/kg wet	50.0		94	18-137		

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GASOLINE RANGE ORGANICS BY EPA 5030/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907035 - 5030-GC

Blank (B907035-BLK1)

Prepared & Analyzed: 07/02/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	406			ug/L	400		102	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	406			ug/L	400		102	85-115		

LCS (B907035-BS1)

Prepared & Analyzed: 07/02/19

Gasoline-Range Organics	0.16		0.10	mg/kg wet	0.145		111	70-130		
Surrogate: a,a,a-Trifluorotoluene	412			ug/L	400		103	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	412			ug/L	400		103	85-115		

Batch B907048 - 5030-GC

Blank (B907048-BLK1)

Prepared & Analyzed: 07/03/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	409			ug/L	400		102	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	409			ug/L	400		102	85-115		

LCS (B907048-BS1)

Prepared & Analyzed: 07/03/19

Gasoline-Range Organics	0.19		0.10	mg/kg wet	0.145		131	70-130		
Surrogate: a,a,a-Trifluorotoluene	412			ug/L	400		103	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	412			ug/L	400		103	85-115		

Batch B907075 - 5030-GC

Blank (B907075-BLK1)

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	379			ug/L	400		95	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	379			ug/L	400		95	85-115		

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GASOLINE RANGE ORGANICS BY EPA 5030/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907075 - 5030-GC

LCS (B907075-BS1)

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	0.14		0.10	mg/kg wet	0.145		95	70-130		
Surrogate: a,a,a-Trifluorotoluene	371			ug/L	400		93	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	371			ug/L	400		93	85-115		

Duplicate (B907075-DUP1)

Source: 9062821-18

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	ND		0.12	mg/kg dry		ND			20	
Surrogate: a,a,a-Trifluorotoluene	385			ug/L	400		96	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	385			ug/L	400		96	85-115		

Matrix Spike (B907075-MS1)

Source: 9062821-18

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	0.18		0.12	mg/kg dry	0.169	ND	105	70-130		
Surrogate: a,a,a-Trifluorotoluene	380			ug/L	400		95	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	380			ug/L	400		95	85-115		

Batch B907093 - MED SOIL (GC)

Blank (B907093-BLK1)

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	ND		0.10	mg/kg wet						
Surrogate: a,a,a-Trifluorotoluene	379			ug/L	400		95	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	379			ug/L	400		95	85-115		

LCS (B907093-BS1)

Prepared & Analyzed: 07/08/19

Gasoline-Range Organics	0.14		0.10	mg/kg wet	0.145		95	70-130		
Surrogate: a,a,a-Trifluorotoluene	371			ug/L	400		93	85-115		
Surrogate: a,a,a-Trifluorotoluene [2C]	371			ug/L	400		93	85-115		

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DIESEL RANGE ORGANICS BY EPA 3540/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B906403 - 3540-GC(Soxhlet)										
Blank (B906403-BLK1)					Prepared: 06/28/19 Analyzed: 07/01/19					
Diesel-Range Organics	ND		8.0	mg/kg wet						
Surrogate: o-Terphenyl	1.96			mg/kg wet	2.00		98	70-130		
Blank (B906403-BLK2)					Prepared: 06/28/19 Analyzed: 07/01/19					
Diesel-Range Organics	ND		8.0	mg/kg wet						
Surrogate: o-Terphenyl	2.09			mg/kg wet	2.00		104	70-130		
LCS (B906403-BS1)					Prepared: 06/28/19 Analyzed: 07/01/19					
Diesel-Range Organics	19.1		8.0	mg/kg wet	20.0		96	60-130		
Surrogate: o-Terphenyl	2.00			mg/kg wet	2.00		100	70-130		
LCS (B906403-BS2)					Prepared: 06/28/19 Analyzed: 07/01/19					
Diesel-Range Organics	20.9		8.0	mg/kg wet	20.0		105	60-130		
Surrogate: o-Terphenyl	2.39			mg/kg wet	2.00		120	70-130		
Batch B907039 - 3540-GC(Soxhlet)										
Blank (B907039-BLK1)					Prepared: 07/02/19 Analyzed: 07/03/19					
Diesel-Range Organics	ND		8.0	mg/kg wet						
Surrogate: o-Terphenyl	2.06			mg/kg wet	2.00		103	70-130		
Blank (B907039-BLK2)					Prepared: 07/02/19 Analyzed: 07/04/19					
Diesel-Range Organics	ND		8.0	mg/kg wet						
Surrogate: o-Terphenyl	1.94			mg/kg wet	2.00		97	70-130		
LCS (B907039-BS1)					Prepared: 07/02/19 Analyzed: 07/03/19					
Diesel-Range Organics	22.5		8.0	mg/kg wet	20.0		113	60-130		
Surrogate: o-Terphenyl	1.97			mg/kg wet	2.00		99	70-130		

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DIESEL RANGE ORGANICS BY EPA 3540/8015C - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907039 - 3540-GC(Soxhlet)

LCS (B907039-BS2)

Prepared: 07/02/19 Analyzed: 07/04/19

Diesel-Range Organics	24.0		8.0	mg/kg wet	20.0		120	60-130		
Surrogate: o-Terphenyl	1.97			mg/kg wet	2.00		99	70-130		



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CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906404 - 3540-GC(Soxhlet) CIPestPCB

Blank (B906404-BLK1)

Prepared: 06/28/19 Analyzed: 07/01/19

Aldrin	ND		3.30	ug/kg wet						
alpha-BHC	ND		3.30	ug/kg wet						
beta-BHC	ND		3.30	ug/kg wet						
delta-BHC	ND		3.30	ug/kg wet						
alpha-Chlordane	ND		3.30	ug/kg wet						
gamma-Chlordane	ND		3.30	ug/kg wet						
4,4'-DDD	ND		6.70	ug/kg wet						
4,4'-DDE	ND		6.70	ug/kg wet						
4,4'-DDT	ND		6.70	ug/kg wet						
Dieldrin	ND		6.70	ug/kg wet						
Endosulfan I	ND		3.30	ug/kg wet						
Endosulfan II	ND		6.70	ug/kg wet						
Endosulfan sulfate	ND		6.70	ug/kg wet						
Endrin	ND		6.70	ug/kg wet						
Endrin aldehyde	ND		6.70	ug/kg wet						
Endrin ketone	ND		6.70	ug/kg wet						
Heptachlor	ND		3.30	ug/kg wet						
Heptachlor epoxide	ND		3.30	ug/kg wet						
Lindane (gamma-BHC)	ND		3.30	ug/kg wet						
Methoxychlor	ND		33.0	ug/kg wet						
Toxaphene	ND		67.0	ug/kg wet						
Surrogate: Tetrachloro-m-xylene	46.6			ug/kg wet	66.7		70	40-150		
Surrogate: Decachlorobiphenyl	52.9			ug/kg wet	66.7		79	40-150		

LCS (B906404-BS1)

Prepared: 06/28/19 Analyzed: 07/01/19

Aldrin	4.53		3.30	ug/kg wet	6.73		67	70-130		
alpha-BHC	4.09		3.30	ug/kg wet	6.67		61	70-130		
beta-BHC	7.97		3.30	ug/kg wet	6.67		120	70-130		
delta-BHC	3.82		3.30	ug/kg wet	6.67		57	70-130		
alpha-Chlordane	5.20		3.30	ug/kg wet	6.73		77	70-130		
gamma-Chlordane	5.13		3.30	ug/kg wet	6.73		76	70-130		
4,4'-DDD	10.6		6.70	ug/kg wet	13.3		79	70-130		

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07/24/19 18:29

CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906404 - 3540-GC(Soxhlet) CIPestPCB

LCS (B906404-BS1)

Prepared: 06/28/19 Analyzed: 07/01/19

4,4'-DDE	9.84		6.70	ug/kg wet	13.4		73	70-130		
4,4'-DDT	13.1		6.70	ug/kg wet	13.4		98	70-130		
Dieldrin	9.95		6.70	ug/kg wet	13.3		75	70-130		
Endosulfan I	5.06		3.30	ug/kg wet	6.67		76	70-130		
Endosulfan II	10.1		6.70	ug/kg wet	13.4		75	70-130		
Endosulfan sulfate	12.4		6.70	ug/kg wet	13.3		93	70-130		
Endrin	10.7		6.70	ug/kg wet	13.5		79	70-130		
Endrin aldehyde	12.3		6.70	ug/kg wet	13.4		92	70-130		
Endrin ketone	11.5		6.70	ug/kg wet	13.4		86	70-130		
Heptachlor	5.37		3.30	ug/kg wet	6.73		80	70-130		
Heptachlor epoxide	5.13		3.30	ug/kg wet	6.67		77	70-130		
Lindane (gamma-BHC)	4.63		3.30	ug/kg wet	6.67		69	70-130		
Methoxychlor	73.6		33.0	ug/kg wet	67.3		109	70-130		
Surrogate: Tetrachloro-m-xylene	44.2			ug/kg wet	66.7		66	40-130		
Surrogate: Decachlorobiphenyl	50.1			ug/kg wet	66.7		75	40-130		

LCS (B906404-BS2)

Prepared: 06/28/19 Analyzed: 07/01/19

Aldrin	ND		3.30	ug/kg wet				70-130		
alpha-BHC	ND		3.30	ug/kg wet				70-130		
beta-BHC	ND		3.30	ug/kg wet				70-130		
delta-BHC	ND		3.30	ug/kg wet				70-130		
alpha-Chlordane	ND		3.30	ug/kg wet				70-130		
gamma-Chlordane	ND		3.30	ug/kg wet				70-130		
4,4'-DDD	ND		6.70	ug/kg wet				70-130		
4,4'-DDE	ND		6.70	ug/kg wet				70-130		
4,4'-DDT	ND		6.70	ug/kg wet				70-130		
Dieldrin	ND		6.70	ug/kg wet				70-130		
Endosulfan I	ND		3.30	ug/kg wet				70-130		
Endosulfan II	ND		6.70	ug/kg wet				70-130		
Endosulfan sulfate	ND		6.70	ug/kg wet				70-130		
Endrin	ND		6.70	ug/kg wet				70-130		
Endrin aldehyde	ND		6.70	ug/kg wet				70-130		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
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CHLORINATED PESTICIDES BY EPA 8081B (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906404 - 3540-GC(Soxhlet) CIPestPCB

LCS (B906404-BS2)

Prepared: 06/28/19 Analyzed: 07/01/19

Endrin ketone	ND		6.70	ug/kg wet				70-130		
Heptachlor	ND		3.30	ug/kg wet				70-130		
Heptachlor epoxide	ND		3.30	ug/kg wet				70-130		
Lindane (gamma-BHC)	ND		3.30	ug/kg wet				70-130		
Methoxychlor	ND		33.0	ug/kg wet				70-130		
Surrogate: Tetrachloro-m-xylene	47.9			ug/kg wet	66.7		72	40-130		
Surrogate: Decachlorobiphenyl	56.5			ug/kg wet	66.7		85	40-130		

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Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

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POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906404 - 3540-GC(Soxhlet) CIPestPCB

Blank (B906404-BLK1)

Prepared: 06/28/19 Analyzed: 07/01/19

Aroclor-1016	ND		83.0	ug/kg wet						
Aroclor-1221	ND		170	ug/kg wet						
Aroclor-1232	ND		83.0	ug/kg wet						
Aroclor-1242	ND		83.0	ug/kg wet						
Aroclor-1248	ND		83.0	ug/kg wet						
Aroclor-1254	ND		83.0	ug/kg wet						
Aroclor-1260	ND		83.0	ug/kg wet						
Aroclor-1262	ND		83.0	ug/kg wet						
Aroclor-1268	ND		83.0	ug/kg wet						
Surrogate: Tetrachloro-m-xylene	46.6			ug/kg wet	66.7		70	40-150		
Surrogate: Decachlorobiphenyl	52.9			ug/kg wet	66.7		79	40-150		

LCS (B906404-BS1)

Prepared: 06/28/19 Analyzed: 07/01/19

Aroclor-1016	ND		83.0	ug/kg wet				70-130		
Aroclor-1221	ND		170	ug/kg wet				70-130		
Aroclor-1232	ND		83.0	ug/kg wet				70-130		
Aroclor-1242	ND		83.0	ug/kg wet				70-130		
Aroclor-1248	ND		83.0	ug/kg wet				70-130		
Aroclor-1254	ND		83.0	ug/kg wet				70-130		
Aroclor-1260	ND		83.0	ug/kg wet				70-130		
Aroclor-1262	ND		83.0	ug/kg wet				70-130		
Aroclor-1268	ND		83.0	ug/kg wet				70-130		
Surrogate: Tetrachloro-m-xylene	44.2			ug/kg wet	66.7		66	50-150		
Surrogate: Decachlorobiphenyl	50.1			ug/kg wet	66.7		75	50-150		

LCS (B906404-BS2)

Prepared: 06/28/19 Analyzed: 07/01/19

Aroclor-1016	ND		83.0	ug/kg wet				70-130		
Aroclor-1221	ND		170	ug/kg wet				70-130		
Aroclor-1232	ND		83.0	ug/kg wet				70-130		
Aroclor-1242	ND		83.0	ug/kg wet				70-130		
Aroclor-1248	ND		83.0	ug/kg wet				70-130		
Aroclor-1254	614		83.0	ug/kg wet	667		92	70-130		

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Project Manager: Vicki Pitman

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POLYCHLORINATED BIPHENYLS BY EPA 3540/8082A (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B906404 - 3540-GC(Soxhlet) CIPestPCB

LCS (B906404-BS2)

Prepared: 06/28/19 Analyzed: 07/01/19

Aroclor-1260	ND		83.0	ug/kg wet				70-130		
Aroclor-1262	ND		83.0	ug/kg wet				70-130		
Aroclor-1268	ND		83.0	ug/kg wet				70-130		
Surrogate: Tetrachloro-m-xylene	47.9			ug/kg wet	66.7		72	50-150		
Surrogate: Decachlorobiphenyl	56.5			ug/kg wet	66.7		85	50-150		

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CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907023 - 8151(Herbicides)

Blank (B907023-BLK1)

Prepared: 07/02/19 Analyzed: 07/05/19

2,4-D	ND		40.0	ug/kg wet						
2,4-DB	ND		40.0	ug/kg wet						
Dalapon	ND		80.0	ug/kg wet						
Dicamba	ND		40.0	ug/kg wet						
Dichlorprop	ND		40.0	ug/kg wet						
Dinoseb	ND		40.0	ug/kg wet						
MCPA	ND		8000	ug/kg wet						
MCPP	ND		8000	ug/kg wet						
2,4,5-T	ND		40.0	ug/kg wet						
2,4,5-TP (Silvex)	ND		40.0	ug/kg wet						
Surrogate: DCAA	356			ug/kg wet	500		71	50-150		

LCS (B907023-BS1)

Prepared: 07/02/19 Analyzed: 07/05/19

2,4-D	437		40.0	ug/kg wet	500		87	15-150		
2,4-DB	429		40.0	ug/kg wet	500		86	15-150		
Dalapon	639		80.0	ug/kg wet	1000		64	15-150		
Dicamba	403		40.0	ug/kg wet	500		81	15-150		
Dichlorprop	570		40.0	ug/kg wet	500		114	15-150		
Dinoseb	76.5		40.0	ug/kg wet	500		15	15-150		
MCPA	31900		8000	ug/kg wet	80000		40	15-150		
MCPP	24800		8000	ug/kg wet	80000		31	15-150		
2,4,5-T	386		40.0	ug/kg wet	500		77	15-150		
2,4,5-TP (Silvex)	395		40.0	ug/kg wet	500		79	15-150		
Surrogate: DCAA	394			ug/kg wet	500		79	50-150		

Duplicate (B907023-DUP1)

Source: 9062821-29

Prepared: 07/02/19 Analyzed: 07/05/19

2,4-D	ND		44.4	ug/kg dry		ND			200	
2,4-DB	ND		44.4	ug/kg dry		ND			200	
Dalapon	ND		88.9	ug/kg dry		ND			200	
Dicamba	ND		44.4	ug/kg dry		ND			200	
Dichlorprop	ND		44.4	ug/kg dry		ND			200	
Dinoseb	ND		44.4	ug/kg dry		ND			200	

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CHLORINATED HERBICIDES BY EPA 8151A (GC/ECD) - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907023 - 8151(Herbicides)

Duplicate (B907023-DUP1)		Source: 9062821-29		Prepared: 07/02/19 Analyzed: 07/05/19	
MCPA	ND	8890	ug/kg dry	ND	200
MCPP	ND	8890	ug/kg dry	ND	200
2,4,5-T	ND	44.4	ug/kg dry	ND	200
2,4,5-TP (Silvex)	ND	44.4	ug/kg dry	ND	200
Surrogate: DCAA	391		ug/kg dry	556	70 50-150

Matrix Spike (B907023-MS1)		Source: 9062821-33		Prepared: 07/02/19 Analyzed: 07/05/19	
2,4-D	582	55.6	ug/kg dry	694	ND 84 10-150
2,4-DB	537	55.6	ug/kg dry	694	ND 77 10-150
Dalapon	767	111	ug/kg dry	1390	ND 55 10-150
Dicamba	535	55.6	ug/kg dry	694	ND 77 10-150
Dichlorprop	777	55.6	ug/kg dry	694	ND 112 10-150
Dinoseb	73.5	55.6	ug/kg dry	694	ND 11 10-150
MCPA	40200	11100	ug/kg dry	111000	ND 36 10-150
MCPP	29300	11100	ug/kg dry	111000	ND 26 10-150
2,4,5-T	524	55.6	ug/kg dry	694	ND 75 10-150
2,4,5-TP (Silvex)	517	55.6	ug/kg dry	694	ND 74 10-150
Surrogate: DCAA	514		ug/kg dry	694	74 50-150

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Project Number: 1483559
Project Manager: Vicki Pitman

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TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907022 - 3050B-Metals Digestion

Blank (B907022-BLK1)

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	ND		0.250	mg/kg wet						
Barium	ND		0.250	mg/kg wet						
Cadmium	ND		0.250	mg/kg wet						
Chromium	ND		0.250	mg/kg wet						
Lead	ND		0.250	mg/kg wet						
Mercury	ND		0.0125	mg/kg wet						
Selenium	ND		0.250	mg/kg wet						
Silver	ND		0.250	mg/kg wet						

Blank (B907022-BLK2)

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	ND		0.250	mg/kg wet						
Barium	ND		0.250	mg/kg wet						
Cadmium	ND		0.250	mg/kg wet						
Chromium	ND		0.250	mg/kg wet						
Lead	ND		0.250	mg/kg wet						
Mercury	ND		0.0125	mg/kg wet						
Selenium	ND		0.250	mg/kg wet						
Silver	ND		0.250	mg/kg wet						

LCS (B907022-BS1)

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	1.37		0.250	mg/kg wet	1.25		109	80-120		
Barium	1.32		0.250	mg/kg wet	1.25		106	80-120		
Cadmium	1.38		0.250	mg/kg wet	1.25		111	80-120		
Chromium	1.35		0.250	mg/kg wet	1.25		108	80-120		
Lead	1.30		0.250	mg/kg wet	1.25		104	80-120		
Mercury	0.0631		0.0125	mg/kg wet	0.0625		101	80-120		
Selenium	1.34		0.250	mg/kg wet	1.25		107	80-120		
Silver	1.53		0.250	mg/kg wet	1.25		123	80-120		

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Project: TIMBERS AT TROY

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TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907022 - 3050B-Metals Digestion

LCS (B907022-BS2)

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	1.32		0.250	mg/kg wet	1.25		106	80-120		
Barium	1.22		0.250	mg/kg wet	1.25		97	80-120		
Cadmium	1.29		0.250	mg/kg wet	1.25		103	80-120		
Chromium	1.28		0.250	mg/kg wet	1.25		102	80-120		
Lead	1.23		0.250	mg/kg wet	1.25		99	80-120		
Mercury	0.0618		0.0125	mg/kg wet	0.0625		99	80-120		
Selenium	1.06		0.250	mg/kg wet	1.25		85	80-120		
Silver	1.44		0.250	mg/kg wet	1.25		115	80-120		

Duplicate (B907022-DUP1)

Source: 9062821-01

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	1.37		0.301	mg/kg dry		1.95			35	200
Barium	28.7		0.301	mg/kg dry		29.8			4	200
Cadmium	ND		0.301	mg/kg dry		ND				200
Chromium	8.01		0.301	mg/kg dry		10.2			24	200
Lead	10.9		0.301	mg/kg dry		10.9			0.1	200
Mercury	0.0230		0.0151	mg/kg dry		0.0246			7	200
Selenium	0.840		0.301	mg/kg dry		0.942			11	200
Silver	ND		0.301	mg/kg dry		ND				200

Duplicate (B907022-DUP2)

Source: 9062822-01

Prepared: 07/01/19 Analyzed: 07/02/19

Arsenic	0.342		0.287	mg/kg dry		0.324			5	200
Barium	59.5		0.287	mg/kg dry		52.1			13	200
Cadmium	ND		0.287	mg/kg dry		ND				200
Chromium	1.36		0.287	mg/kg dry		1.13			18	200
Lead	4.82		0.287	mg/kg dry		6.29			27	200
Mercury	ND		0.0144	mg/kg dry		ND				200
Selenium	0.778		0.287	mg/kg dry		0.442			55	200
Silver	ND		0.287	mg/kg dry		ND				200

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Project Number: 1483559
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TOTAL METALS ANALYSIS BY EPA 3050B/6020A - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B907022 - 3050B-Metals Digestion

Matrix Spike (B907022-MS1)		Source: 9062821-01		Prepared: 07/01/19		Analyzed: 07/02/19	
Arsenic	4.42	0.301	mg/kg dry	3.01	1.95	82	80-120
Barium	38.0	0.301	mg/kg dry	3.01	29.8	272	80-120
Cadmium	3.43	0.301	mg/kg dry	3.01	ND	114	80-120
Chromium	12.3	0.301	mg/kg dry	3.01	10.2	68	80-120
Lead	13.3	0.301	mg/kg dry	3.01	10.9	77	80-120
Mercury	0.172	0.0151	mg/kg dry	0.151	0.0246	98	80-120
Selenium	3.37	0.301	mg/kg dry	3.01	0.942	81	80-120
Silver	3.65	0.301	mg/kg dry	3.01	ND	121	80-120

Matrix Spike (B907022-MS2)		Source: 9062822-01		Prepared: 07/01/19		Analyzed: 07/02/19	
Arsenic	3.14	0.287	mg/kg dry	2.87	0.324	98	80-120
Barium	57.7	0.287	mg/kg dry	2.87	52.1	195	80-120
Cadmium	3.08	0.287	mg/kg dry	2.87	ND	107	80-120
Chromium	4.14	0.287	mg/kg dry	2.87	1.13	105	80-120
Lead	7.97	0.287	mg/kg dry	2.87	6.29	58	80-120
Mercury	0.148	0.0144	mg/kg dry	0.144	ND	103	80-120
Selenium	3.69	0.287	mg/kg dry	2.87	0.442	113	80-120
Silver	3.31	0.287	mg/kg dry	2.87	ND	115	80-120

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Chromium VI by EPA 7199 - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B9G0006 - EPA 3060

Blank (B9G0006-BLK1)			Prepared: 07/01/19 Analyzed: 07/02/19							
Chromium VI	ND		0.0800	mg/kg wet						
LCS (B9G0006-BS1)			Prepared: 07/01/19 Analyzed: 07/02/19							
Chromium VI	4.02		0.0800	mg/kg wet	4.00		100	80-120		
Duplicate (B9G0006-DUP1)			Source: 9062821-01		Prepared: 07/01/19 Analyzed: 07/02/19					
Chromium VI	0.129		0.0930	mg/kg dry		0.110			16.0	20
Matrix Spike (B9G0006-MS1)			Source: 9062821-01		Prepared: 07/01/19 Analyzed: 07/02/19					
Chromium VI	4.82		0.0951	mg/kg dry	4.75	0.110	99.0	75-125		
Matrix Spike (B9G0006-MS2)			Source: 9062821-01		Prepared: 07/01/19 Analyzed: 07/02/19					
Chromium VI	726		4.58	mg/kg dry	1700	ND	42.8	75-125		
Post Spike (B9G0006-PS1)			Source: 9062821-01		Prepared: 07/01/19 Analyzed: 07/02/19					
Chromium VI	96.0			ug/L	100	1.15	94.9	80-120		

Batch B9G0007 - EPA 3060

Blank (B9G0007-BLK1)			Prepared: 07/01/19 Analyzed: 07/03/19							
Chromium VI	ND		0.0800	mg/kg wet						
LCS (B9G0007-BS1)			Prepared: 07/01/19 Analyzed: 07/03/19							
Chromium VI	4.04		0.0800	mg/kg wet	4.00		101	80-120		
Duplicate (B9G0007-DUP1)			Source: 9062821-21		Prepared: 07/01/19 Analyzed: 07/03/19					
Chromium VI	ND		0.0893	mg/kg dry		ND				20

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Chromium VI by EPA 7199 - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B9G0007 - EPA 3060

Matrix Spike (B9G0007-MS1)			Source: 9062821-21		Prepared: 07/01/19 Analyzed: 07/03/19					
Chromium VI	4.34		0.0907	mg/kg dry	4.54	ND	95.6	75-125		
Matrix Spike (B9G0007-MS2)			Source: 9062821-21		Prepared: 07/01/19 Analyzed: 07/03/19					
Chromium VI	978		4.69	mg/kg dry	1470	ND	66.4	75-125		
Post Spike (B9G0007-PS1)			Source: 9062821-21		Prepared: 07/01/19 Analyzed: 07/03/19					
Chromium VI	98.7			ug/L	100	0.00	98.7	80-120		



Will Brewington, President

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.

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

Wet Chemistry - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch B9G0017 - No Prep WC

Duplicate (B9G0017-DUP1)			Source: 9062821-01			Prepared & Analyzed: 07/02/19				
% Solids	81.2		1.00	%		83.6			2.91	20
Duplicate (B9G0017-DUP2)			Source: 9062821-21			Prepared & Analyzed: 07/02/19				
% Solids	85.3		1.00	%		86.9			1.86	20



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.

Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: TIMBERS AT TROY

Project Number: 1483559
Project Manager: Vicki Pitman

REVISED REPORT. Original report ID 9062821 07 08 19 1642
Reported:
07/24/19 18:29

Notes and Definitions

S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation



Will Brewington, President

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.

1 of 4

Company Name:		Project Manager:		Analysis Requested		CHAIN-OF-CUSTODY RECORD	
Project Name:		Project ID:		No. of Containers		Maryland Spectral Services, Inc.	
Sampler(s):		P.O. Number:				1500 Caton Center Drive, Suite G	
Field Sample ID		Date		Time		Baltimore, MD 21227	
		Water		Soil		410-247-7600 • Fax 410-247-7602	
		Other				labman@mdspectral.com	
						Matrix Codes: NW (nonpotable water)	
						Preservative: Field pH, Residual	
						1 + 1 HCL, H ₂ SO ₄ , Chlorine, QC	
						Methanol, Request, Trip	
						Na ₂ S ₂ O ₃ , NaHCO ₃ Blank, Field Blank	
						MSS Lab ID	
TT-EA1a-S-01	6/25/19	1635					9062821-01
TT-EA1a-S-02	1642						-02
TT-EA1b-S-01	1715						-03
TT-EA1b-S-02	1728						-04
TT-EA1b-S-03	1740						-05
TT-EA1b-S-04	6/25/19	1752					-06
TT-EA2b-SD-01	6/26/19	0920					-07
TT-EA2b-SD-02	6/26/19	0930					-08
DUP-3	6/26/19	—					-09
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
(Printed)		6/28/19		(Printed)		(Printed)	
Bethany Williams		1210					
Relinquished by: (Signature)		Date/Time		Received by Lab: (Signature)		Lab Use:	
(Printed)		6/28/19		(Printed)		Temp: 21 °C	
		1210		K. Williams		☒ Received on Ice ☐ Received same day ☐ Preservation Appropriate	
Delivery Method:		Special Instructions/QC Requirements & Comments:		Turn Around Time:		Sample Disposal:	
☐ Courier ☒ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other:		Please report via EA EOD format		☐ Normal (7 day) ☒ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other:		☐ Return to Client ☒ Disposal by lab ☐ Archive for ____ days	

REVIS REPORT. Original report ID 9062821 07 08 19 1642

2 of 4

Company Name: EA Engineering		Project Manager: Vicki P. Thman		Analysis Requested		CHAIN-OF-CUSTODY RECORD		
Project Name: Timbers at Troy		Project ID: 1483559		No. of Containers		Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com		
Sampler(s): Bethany Wolinski Rachel Giampa		P.O. Number: 19411				Matrix Codes: NW (nonpotable water) PW (potable water)		
Field Sample ID	Date	Time	Water	Soil	Other	Preservative: 1+ 1 HCL, H ₂ SO ₄ , Methanol, Na ₂ S ₂ O ₃ , NaHCO ₃	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
TT-EA2a-S-01	6/25/19	0930		X				9062821-010
TT-EA2a-S-02		1000						-11
TT-EA2c-S-01		1210						-12
TT-EA2c-S-02		1232						-13
TT-EA2c-S-03		1135						-14
TT-EA2c-S-04		1155						-15
TT-EA4-S-01		1320						-16
TT-EA4-S-02		1345						-17
DUP-2	6/25/19			X				-18

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	6/28/19	<i>[Signature]</i>	1210				
Bethany Wolinski							
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)	Date/Time	Turn Around Time:	Lab Use:	Temp: 21 °C	Original report ID 9062821 07 08 19 1642
	6/28/19	<i>[Signature]</i>	1210	Normal (7 day) ☒ 5 day ☐ 4 day ☐ 3 day	Received on ice ☒ Received same day ☐ Preservation Appropriate		
		<i>[Signature]</i>		Rush (2 day) ☐ Next Day ☐ Other: _____	Sample Disposal: ☐ Return to Client ☒ Disposal by lab ☐ Archive for _____ days		

Delivery Method:
☐ Courier
☒ Client
☐ UPS
☐ FedEx
☐ USPS
☐ Other: _____

Special Instructions/QC Requirements & Comments:
Please report via EA
EDD format

3 of 4

Company Name:		Project Manager:		Analysis Requested		CHAIN-OF-CUSTODY RECORD	
EA Engineering		Vicki Pitman				Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com	
Project Name:		Project ID:				Matrix Codes: NW (nonpotable water)	
Timbers at Tray		1483559				PW (potable water)	
Sampler(s):		P.O. Number:				Preservative: Field pH, Residual 1+ 1 HCL, H ₂ SO ₄ , Methanol, Request, Trip Na ₂ S ₂ O ₃ , NaHCO ₃ Blank, Field Blank	
Bethany Wolinski Rachel Grampa		19411				MSS Lab ID	
Field Sample ID		Date		Time			
		Water		Soil			
		Other					
		No. of Containers					
		✓		✓		9002821-19	
TT-EAS-S-01		6/20/19		1105		-20	
TT-EAS-S-02		1120				-21	
TT-EAS-S-03		1150				-22	
TT-EAS-S-04		1220				-23	
TT-EAS-S-05		1535				-24	
TT-EAS-S-06		1600				-25	
TT-EAS-S-07		1630				-26	
TT-EAS-S-08		1645				-27	
DUP-4		6/26/19					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
[Signature]		6/28/19		[Signature]			
(Printed)		1210		(Printed)		(Printed)	
Relinquished by: (Signature)		Date/Time		Received by Lab: (Signature)		Lab Use:	
Bethany Wolinski		6/28/19		[Signature]		Temp: 21 °C ☐ Received on Ice ☐ Received same day ☐ Preservation Appropriate	
(Printed)		1210		(Printed)		Sample Disposal: ☐ Return to Client ☒ Disposal by lab ☐ Archive for ___ days	
Delivery Method:		Special Instructions/QC Requirements & Comments:					
☒ Courier ☐ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other:		Please report via EA EDD format					

REVIS REPORT. Original report ID 9062821 07 08 19 1642

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

59342

SENDING LABORATORY:

RECEIVING LABORATORY:

Maryland Spectral Services
1500 Caton Center Dr. Suite G
Halethorpe, MD 21227
Phone: 410.247.7600
Project Manager: Cory Keons
Reports Email: Reports@mdspectral.com

Enviro-Chem Laboratories, Inc
47 Loveton Circle, Suite K
Sparks, MD 21152
Phone: (410) 472-1112
Fax: (410) 472-1116

Auto-log Sent
Date/Initial
6/28/19 / KS

REVISED REPORT Original Report ID 9062821 07/08/19 1642

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-01

TT-EA1a-S-01

Soil

Sampled:06/25/19 16:35

7199 - (Chromi um6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-02

TT-EA1a-S-02

Soil

Sampled:06/25/19 16:42

7199 - (Chromi um6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-03

TT-EA1b-S-01

Soil

Sampled:06/25/19 17:15

7199 - (Chromi um6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-04

TT-EA1b-S-02

Soil

Sampled:06/25/19 17:28

7199 - (Chromi um6)

Containers Supplied:

Glass Jar, 4 oz (C)

Released By: *[Signature]*

Date: 6/28/19

Received By: *[Signature]*

Date: 6/28/19

T=5.7

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-05

TT-EA1b-S-03

Soil

Sampled:06/25/19 17:40

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-06

TT-EA1b-S-04

Soil

Sampled:06/25/19 17:52

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-07

TT-EA2b-SD-01

Soil

Sampled:06/26/19 09:20

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-08

TT-EA2b-SD-02

Soil

Sampled:06/26/19 09:30

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-09

DUP-3

Soil

Sampled:06/26/19 00:00

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Released By 

Date 6/28/19

Received By 

Date 6/28/19 1653

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-10

TT-EA2a-S-01

Soil

Sampled:06/25/19 09:30

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-11

TT-EA2a-S-02

Soil

Sampled:06/25/19 10:00

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-12

TT-EA2c-S-01

Soil

Sampled:06/25/19 12:10

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-13

TT-EA2c-S-02

Soil

Sampled:06/25/19 12:32

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-14

TT-EA2c-S-03

Soil

Sampled:06/25/19 11:35

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

REVISED REPORT. Original report ID 9062821-03 19 1642

Released By

Date

Received By

Date

Robert J. Turner 6/28/19

So-9-Bull

4/28/19 1653

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-15

TT-EA2c-S-04

Soil

Sampled:06/25/19 11:55

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-16

TT-EA4-S-01

Soil

Sampled:06/25/19 13:20

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-17

TT-EA4-S-02

Soil

Sampled:06/25/19 13:45

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-18

DUP-2

Soil

Sampled:06/25/19 00:00

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-19

TT-EA5-S-01

Soil

Sampled:06/26/19 11:05

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Released By

Date

Received By

Date

Released By

Date

Received By

Date

REVISED REPORT. Original report ID 9062821-08 19 1642

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-20

TT-EAS-S-02

Soil

Sampled:06/26/19 11:20

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-21

TT-EAS-S-03

Soil

Sampled:06/26/19 11:50

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-22

TT-EAS-S-04

Soil

Sampled:06/26/19 12:26

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-23

TT-EAS-S-05

Soil

Sampled:06/26/19 15:35

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-24

TT-EAS-S-06

Soil

Sampled:06/26/19 16:00

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Released By 

Date 6/28/19

Received By 

Date 6/28/19

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID Comments

Sample ID: 9062821-25

TT-EA5-S-07

Soil

Sampled:06/26/19 16:36

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-26

TT-EA5-S-08

Soil

Sampled:06/26/19 16:45

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-27

DUP-4

Soil

Sampled:06/26/19 00:00

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-28

TT-EA6a-S-01

Soil

Sampled:06/26/19 12:52

7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Sample ID: 9062821-29

TT-EA6a-S-02

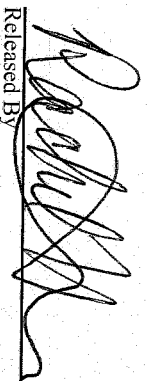
Soil

Sampled:06/26/19 13:10

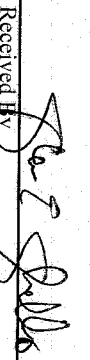
7199 - (Chromium6)

Containers Supplied:

Glass Jar, 4 oz (C)

Released By 

Date 6/28/19

Received By 

Date 6/28/19 1653

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-30

TT-EA6a-S-03

Soil

Sampled:06/26/19 13:34

7199 - (Chromium6)

Containers Supplied:
Glass Jar, 4 oz (C)

Sample ID: 9062821-31

TT-EA6a-S-04

Soil

Sampled:06/26/19 13:48

7199 - (Chromium6)

Containers Supplied:
Glass Jar, 4 oz (C)

Sample ID: 9062821-32

TT-EA6b-S-01

Soil

Sampled:06/26/19 17:04

7199 - (Chromium6)

Containers Supplied:
Glass Jar, 4 oz (C)

Sample ID: 9062821-33

TT-EA6b-S-02

Soil

Sampled:06/26/19 17:23

7199 - (Chromium6)

Containers Supplied:
Glass Jar, 4 oz (C)

Sample ID: 9062821-34

TT-EA6b-S-03

Soil

Sampled:06/26/19 17:35

7199 - (Chromium6)

Containers Supplied:
Glass Jar, 4 oz (C)

REVISED REPORT. Original report ID 9062821-03 19 1642

Released By 

Date 6/28/19

Received By 

Date 6/26/19 1650

Released By

Date

Received By

Date

SUBCONTRACT ORDER
Maryland Spectral Services

9062821

Due 4:00 PM 07/08/19

Laboratory ID

Comments

Sample ID: 9062821-35

TT-EA6b-S-04

Soil

Sampled:06/26/19 17:41

7199 - (Chromalum6)

Containers Supplied:
Glass Jar, 4 oz (C)

REVISED REPORT. Original report ID 9062821-35 08 19 1642

Released By [Signature] Date 6/28/19
Received By [Signature] Date 6/28/19 1653

Released By _____ Date _____ Received By _____ Date _____



Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/23/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628007
Location: TT-EA2a-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.236 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.136 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

Abbreviations/Definitions

ND = Non Detect (Values only known to be somewhere between zero and the reporting limit.)

LOQ = Limit of Quantitation (The lowest concentration of analyte in a sample that can be determined with acceptable precision and accuracy under the stated experimental conditions.)

Detected = Compound was detected between zero and the Limit of Quantitation. Limits detected below the LOQ can not be quantitated.



Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/23/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628007
Location: TT-EA2a-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/23/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628007
Location: TT-EA2a-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.02 mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.031 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.027 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Consultant Name: Home Office
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Date Received: 06/28/2019

Lab Number: SE0628007
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Description:
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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.171 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.087 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.011 mg/kg	0.01

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Kari L. Long

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Date Collected: 06/25/2019 10:00:00 AM
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Lab Number: SE0628008
Location: TT-EA2a-S-02
Description:
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CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.027 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.018 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 10:00:00 AM
Date Received: 06/28/2019

Lab Number: SE0628008
Location: TT-EA2a-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.027 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.021 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.033 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.102 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.015 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Analytical Report

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:20:00 AM
Date Received: 06/28/2019

Lab Number: SE0628009
Location: TT-EA2b-SD-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.102 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.099 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.113 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.093 mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.036 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.148 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.694 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.33 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.089 mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:20:00 AM
Date Received: 06/28/2019

Lab Number: SE0628009
Location: TT-EA2b-SD-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628010
Location: TT-EA2b-SD-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.046 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.031 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.045 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628010
Location: TT-EA2b-SD-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628010
Location: TT-EA2b-SD-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.032 mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.079 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.903 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

Kari L. Long

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Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628010
Location: TT-EA2b-SD-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.024 mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.09 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.038 mg/kg	0.01

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Client Number: 66855
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Consultant Name: Home Office
Date Collected: 06/26/2019 9:30:00 AM
Date Received: 06/28/2019

Lab Number: SE0628010
Location: TT-EA2b-SD-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:10:00 PM
Date Received: 06/28/2019

Lab Number: SE0628011
Location: TT-EA2c-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:10:00 PM
Date Received: 06/28/2019

Lab Number: SE0628011
Location: TT-EA2c-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Lab Number: SE0628011
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Description:
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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	17.56 mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	1.775 mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	35.4 mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	12.62 mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	0.0629 mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.45 mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	0.0537 mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:10:00 PM
Date Received: 06/28/2019

Lab Number: SE0628011
Location: TT-EA2c-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	1.835 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-05	SRG	186.16 mg/kg	0.2
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.11 mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.181 mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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Analytical Report

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New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:10:00 PM
Date Received: 06/28/2019

Lab Number: SE0628011
Location: TT-EA2c-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.225 mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	1.79 mg/kg	0.01

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New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:10:00 PM
Date Received: 06/28/2019

Lab Number: SE0628011
Location: TT-EA2c-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.01 mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.135 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.028 mg/kg	0.01

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Client Number: 66855
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Consultant Name: Home Office
Date Collected: 06/25/2019 12:32:00 PM
Date Received: 06/28/2019

Lab Number: SE0628012
Location: TT-EA2c-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 11:35:00 AM
Date Received: 06/28/2019

Lab Number: SE0628013
Location: TT-EA2c-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.131 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Analytical Report

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 11:35:00 AM
Date Received: 06/28/2019

Lab Number: SE0628013
Location: TT-EA2c-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.017 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.019 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.011 mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.222 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.024 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 11:55:00 AM
Date Received: 06/28/2019

Lab Number: SE0628014
Location: TT-EA2c-S-04
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.243 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.058 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.046 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.0792 mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.089 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.108 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.015 mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019 11:55:00 AM
Date Received: 06/28/2019

Lab Number: SE0628014
Location: TT-EA2c-S-04
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:05:00 AM
Date Received: 06/28/2019

Lab Number: SE0628015
Location: TT-EA5-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.078 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:05:00 AM
Date Received: 06/28/2019

Lab Number: SE0628015
Location: TT-EA5-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:05:00 AM
Date Received: 06/28/2019

Lab Number: SE0628015
Location: TT-EA5-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.071 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.035 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
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Consultant Name: Home Office
Date Collected: 06/26/2019 11:05:00 AM
Date Received: 06/28/2019

Lab Number: SE0628015
Location: TT-EA5-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.03 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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ND = Non Detect (Values only known to be somewhere between zero and the reporting limit.)

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:05:00 AM
Date Received: 06/28/2019

Lab Number: SE0628015
Location: TT-EA5-S-01
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Lab Number: SE0628016
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CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.06 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.042 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.048 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.011 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:20:00 AM
Date Received: 06/28/2019

Lab Number: SE0628016
Location: TT-EA5-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Consultant Name: Home Office
Date Collected: 06/26/2019 11:20:00 AM
Date Received: 06/28/2019

Lab Number: SE0628016
Location: TT-EA5-S-02
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.036 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.125 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.013 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.141 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.065 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.045 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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Analytical Report

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Phone: (419) 977-2766
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Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.018 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 11:50:00 AM
Date Received: 06/28/2019

Lab Number: SE0628017
Location: TT-EA5-S-03
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 12:26:00 PM
Date Received: 06/28/2019

Lab Number: SE0628018
Location: TT-EA5-S-04
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.064 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.01 mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Date Collected: 06/26/2019 12:26:00 PM
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Lab Number: SE0628018
Location: TT-EA5-S-04
Description:
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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 12:26:00 PM
Date Received: 06/28/2019

Lab Number: SE0628018
Location: TT-EA5-S-04
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.023 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.068 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.012 mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Consultant Name: Home Office
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Date Received: 06/28/2019

Lab Number: SE0628018
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Description:
Sub Description:

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.011 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 12:26:00 PM
Date Received: 06/28/2019

Lab Number: SE0628018
Location: TT-EA5-S-04
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Lab Number: SE0628019
Location: TT-EA5-S-05
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.034 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.104 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Analytical Report

200 White Mountain Drive
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Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 3:35:00 PM
Date Received: 06/28/2019

Lab Number: SE0628019
Location: TT-EA5-S-05
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.084 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.106 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.015 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:00:00 PM
Date Received: 06/28/2019

Lab Number: SE0628020
Location: TT-EA5-S-06
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.061 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Consultant Name: Home Office
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Date Received: 06/28/2019

Lab Number: SE0628020
Location: TT-EA5-S-06
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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Consultant Name: Home Office
Date Collected: 06/26/2019 4:00:00 PM
Date Received: 06/28/2019

Lab Number: SE0628020
Location: TT-EA5-S-06
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.072 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.028 mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.052 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Consultant Name: Home Office
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Lab Number: SE0628020
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Description:
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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.055 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.0124 mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.016 mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.061 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:00:00 PM
Date Received: 06/28/2019

Lab Number: SE0628020
Location: TT-EA5-S-06
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:36:00 PM
Date Received: 06/28/2019

Lab Number: SE0628021
Location: TT-EA5-S-07
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Lab Number: SE0628021
Location: TT-EA5-S-07
Description:
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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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Date Collected: 06/26/2019 4:36:00 PM
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Lab Number: SE0628021
Location: TT-EA5-S-07
Description:
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<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:36:00 PM
Date Received: 06/28/2019

Lab Number: SE0628021
Location: TT-EA5-S-07
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Consultant Name: Home Office
Date Collected: 06/26/2019 4:36:00 PM
Date Received: 06/28/2019

Lab Number: SE0628021
Location: TT-EA5-S-07
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:45:00 PM
Date Received: 06/28/2019

Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.012 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.058 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:45:00 PM
Date Received: 06/28/2019

Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.022 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.014 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:45:00 PM
Date Received: 06/28/2019

Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.01 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:45:00 PM
Date Received: 06/28/2019

Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019 4:45:00 PM
Date Received: 06/28/2019

Lab Number: SE0628022
Location: TT-EA5-S-08
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019
Date Received: 06/28/2019

Lab Number: SE0628023
Location: DUP-2
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.274 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLORO BENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

Abbreviations/Definitions

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019
Date Received: 06/28/2019

Lab Number: SE0628023
Location: DUP-2
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.015 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.015 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.012 mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019
Date Received: 06/28/2019

Lab Number: SE0628023
Location: DUP-2
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.211 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019
Date Received: 06/28/2019

Lab Number: SE0628023
Location: DUP-2
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.021 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/25/2019
Date Received: 06/28/2019

Lab Number: SE0628023
Location: DUP-2
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.085 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.01 mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.116 mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

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Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

Approval

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Environmental Services Coordinator

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Brookside Laboratories, Inc.
Analytical Report

200 White Mountain Drive
New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.021 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.072 mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.033 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.152 mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	0.13 mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.029 mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

Approval

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Analytical Report

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New Bremen, OH 45869
Phone: (419) 977-2766
Fax: (419) 977-2767

Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.274 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.061 mg/kg	0.01

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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628024
Location: DUP-3
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628025
Location: DUP-4
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
CE385	DODEMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE395	TETRAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE425	METHOPRENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE460	CHLORFENAPYR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE495	BIFENAZATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE500	TETRADIFON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
CE540	PYRIPROXYFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE575	ACEQUINOCYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE585	ACETAMIPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE587	PIRIMICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE590	THIACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE595	METHOXYFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE610	TEBUFENOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE612	CLOFENTEZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
CE680	HEXYTHIAZOX	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HA155	BITERTANOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE108	FAMOXADONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE109	FENAMIDONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE110	FENBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE113	FLUOPYRAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.03 mg/kg	0.01
HE121	FLUTRIAFOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE122	FLUXAPYROXAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.054 mg/kg	0.01
HE125	KRESOXIM-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE130	CARBENDAZIM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE137	PENTHIOPYRAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
HE142	PYRIMETHANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
HE143	SPIROXAMINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IA106	ESFENVALERATE/FENVALERAT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA113	FENPROPATHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA122	FENTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA185	MEVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA190	NALED	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

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Environmental Services Coordinator

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Phone: (419) 977-2766
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Client Number: 66855
Client Name: EA Engineering
Consultant Name: Home Office
Date Collected: 06/26/2019
Date Received: 06/28/2019

Lab Number: SE0628025
Location: DUP-4
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Completed Prep</u>	<u>Anal</u>	<u>Analyst</u>	<u>Result</u>	<u>LOQ</u>
IA330	RESMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IA381	TETRACHLORVINPHOS	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IG085	PICLORAM	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IH071	ALDICARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH075	METRIBUZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH076	OXAMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH077	CARBARYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH081	METHOMYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH082	ACEPHATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH084	CYPERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IH089	DIMETHOMORPH	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IH092	MANDIPROPAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IM070	HEXACHLOROBENZENE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN010	ALDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN020	HCH, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN050	HCH, g- (LINDANE)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN061	a-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN062	g-CHLORDANE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN070	DDD	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN080	DDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN090	DDT	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN097	DELTAMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN100	DIELDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN110	ENDOSULFAN, a-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN120	ENDOSULFAN, b-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN130	ENDOSULFAN SULFATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN140	ENDRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN160	HEPTACHLOR	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN170	HEPTACHLOR EPOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IN300	BUPROFEZIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO007	CHLORPYRIFOS-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO008	FLUVALINATE, TAU-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO016	ACETOCHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO026	AMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO033	BOSCALID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.058 mg/kg	0.01
IO034	MECOPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO037	TRITICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO039	CHLORANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.04 mg/kg	0.01
IO040	DICAMBA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO046	CLOTHIANIDIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO047	FLUDIOXONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO110	CAPTAN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO112	PYRETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO113	IPRODIONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO115	CARBOFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO118	CHLOROTHALONIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO120	CHLORPYRIFOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO130	2,4-D	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO138	DICHLORPROP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO142	DIMETHOATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO143	DISULFOTON	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO162	ETHOPROPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO171	FLUTOLANIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO177	CYHALOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO180	OXYFLUORFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO185	HEXAZINONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO187	IMIDACLOPRID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO201	MGK-264	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO203	FENOXYCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO204	PIPERONYL BUTOXIDE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO206	ETOXENPROX	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO210	QUINMERAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO230	MALATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO234	METALAXYL/MEFENOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO236	MCPA	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO240	METHOXYCHLOR, p,p'-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

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IO242	METHIOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO245	METOLACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO251	NORFLURAZON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO282	PARATHION-METHYL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO283	ETRIDIAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO285	QUINTOZENE (PCNB)	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO286	PERMETHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO287	PHORATE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO290	SIMAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO295	PRODIAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO300	PROMETON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO305	PROMETRYN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO320	PROPAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO321	PROPICONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.026 mg/kg	0.01
IO330	PENDIMETHALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO334	IMAZETHAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO336	FENARIMOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO337	DACTHAL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO342	ATRAZINE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO350	TERBACIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO366	CLOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO367	GLYPHOSATE		547M		Jul-03	SRG	ND mg/kg	0.05
IO371	THIOPHANATE-METHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO372	ORYZALIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO373	IMAZAQUIN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO392	DICLOFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO401	TRICLOPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO404	COUMAPHOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO407	DICHLORVOS	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO416	FLUROXYPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO419	VINCLOZOLIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO420	TRIFLURALIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO423	HALOXYFOP	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025

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IO430	METCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO436	PROPYZAMIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO460	AMINOPYRALID	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO480	TOPRAMEZONE	LC-	LC-MS/MS	Jul-22	Jul-22	NAF	ND mg/kg	0.02
IO491	INDAZIFLAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO500	IMAZAPYR	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO525	PROPAMOCARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.1
IO535	SULFENTRAZONE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO550	ACIFLUORFEN	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO565	AZOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO575	TRINEXAPAC-ETHYL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.025
IO601	FIPRONIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO602	PACLOBUTRAZOL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO609	IMAZAPIC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO612	PHOSMET	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO614	PYRIDABEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO615	MYCLOBUTANIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO616	METHIDATHION	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO617	TEBUCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	0.02 mg/kg	0.01
IO618	THIABENDAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO619	TRIFLUMIZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO646	CYHALOTHRIN, LAMBDA-	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO647	BIFENTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO648	CYFLUTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO653	QUINCLORAC	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO661	PYRACLOSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO664	IMAZALIL	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO667	THIAMETHOXAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO668	IMAZAMOX	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IO715	DAMINOZIDE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO729	DIFENOCONAZOLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO735	CYPRODINIL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IO737	TRIADIMEFON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01

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IO744	DINOTEFURAN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO745	SPIROTETRAMAT	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IO759	PHENOTHRIN	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP160	METAZACHLOR	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP183	DIAZINON	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP195	TRIFLOXYSTROBIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP530	QUIZALOFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP540	FENOXAPROP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP550	FLUAZIFOP-P	BLI16050	BLI160507.0	Jul-15	Jul-15	NAF	ND mg/kg	0.025
IP551	ABAMECTIN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP552	CYANTRANILIPROLE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP557	ETOXAZOLE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP559	FENPYROXIMATE	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP561	FLONICAMID	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP564	METRAFENONE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP568	SPINETORAM	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP569	SPIRODICLOFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP571	SPIROMESIFEN	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP928	DIPHENYLAMINE	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP956	FENSULFOTHION	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP970	DICOFOL	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01
IP980	SPINOSAD	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP981	INDOXACARB	QUECHE	LC-MS/MS	Jul-01	Jul-22	NAF	ND mg/kg	0.01
IP982	FLUAZINAM	QUECHE	GC-MS	Jul-01	Jul-19	NAF	ND mg/kg	0.01

Approval

Kari L. Long

Kari Long
Environmental Services Coordinator

Abbreviations/Definitions

ND = Non Detect (Values only known to be somewhere between zero and the reporting limit.)

LOQ = Limit of Quantitation (The lowest concentration of analyte in a sample that can be determined with acceptable precision and accuracy under the stated experimental conditions.)

Detected = Compound was detected between zero and the Limit of Quantitation. Limits detected below the LOQ can not be quantitated.

2 1 of 3

66855 AEM
7/20/19

CHAIN OF CUSTODY

Instructions: In order for analysis to be completed correctly, please fill out this form completely. Test Method Codes are located on the back of this form.

White = Original - send to lab w/samples
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BROOKSIDE LABORATORIES, INC. AEM
Environmental Services Department
200 White Mountain Drive
New Bremen, Ohio 45869
Tel. (419) 977-2766
FAX (419) 977-2767

Client: <u>EA</u>		Account No: <u>66855</u>		TEST METHODS (If Specific Methods Required)										State in which samples were collected: <u>OH</u>																																																																																																					
Report Address: <u>225 Schuyler Ave. Hill Village, MO 63051</u>		Invoice Address: <u>225 Schuyler Ave. Hill Village, MO 63051</u>		<table border="1"> <tr> <td>EPH</td> <td>1</td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="12">TESTS REQUESTED</td> </tr> </table>										EPH	1	12										TESTS REQUESTED												MATRIX CODES: DW = Drinking Water O = Oil WW = Wastewater M = Manure S = Soil IL = Industrial Liquid IS = Industrial Solid SD = Sludge																																																																													
EPH	1	12																																																																																																																	
TESTS REQUESTED																																																																																																																			
ATTN: <u>Vicki Brown</u>		ATTN: <u>Vicki Brown</u>																																																																																																																	
Phone No: <u>618-211-1111</u>		P.O. No:		<table border="1"> <tr> <th colspan="5"># and type of containers</th> </tr> <tr> <th>HCl/NaOH</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>Other</th> <th>None</th> </tr> </table>										# and type of containers					HCl/NaOH	HNO ₃	H ₂ SO ₄	Other	None	LAB USE ONLY																																																																																											
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HCl/NaOH	HNO ₃	H ₂ SO ₄	Other	None																																																																																																															
Fax Results: Yes ☐ No ☒		Quote No: <u>711</u>																																																																																																																	
TURNAROUND TIME (additional fees)		Date Needed:		<table border="1"> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Comp (C) Grab (G)</th> <th>Matrix</th> <th>Field pH</th> <th>HCl/NaOH</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>Other</th> <th>None</th> <th></th> </tr> </table>										Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Field pH	HCl/NaOH	HNO ₃	H ₂ SO ₄	Other	None																																																																																											
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☐ Standard (none) ☐ 3 Day (+ 50%) ☐ 5 Day (+25%) ☐ 24 Hour Rush (+ 100%)																																																																																																																			
<table border="1"> <tr> <td>TT-3420-01</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628007</td> </tr> <tr> <td>TT-3420-02</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628008</td> </tr> <tr> <td>TT-3420-03</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628009</td> </tr> <tr> <td>TT-3420-04</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628010</td> </tr> <tr> <td>TT-3420-05</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628011</td> </tr> <tr> <td>TT-3420-06</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628012</td> </tr> <tr> <td>TT-3420-07</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628013</td> </tr> <tr> <td>TT-3420-08</td> <td></td> <td></td> <td>G</td> <td>S</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td>2</td> <td>SE0628014</td> </tr> </table>												TT-3420-01			G	S	-	✓	✓	✓			2	SE0628007	TT-3420-02			G	S	-	✓	✓	✓			2	SE0628008	TT-3420-03			G	S	-	✓	✓	✓			2	SE0628009	TT-3420-04			G	S	-	✓	✓	✓			2	SE0628010	TT-3420-05			G	S	-	✓	✓	✓			2	SE0628011	TT-3420-06			G	S	-	✓	✓	✓			2	SE0628012	TT-3420-07			G	S	-	✓	✓	✓			2	SE0628013	TT-3420-08			G	S	-	✓	✓	✓			2	SE0628014
TT-3420-01			G	S	-	✓	✓	✓			2	SE0628007																																																																																																							
TT-3420-02			G	S	-	✓	✓	✓			2	SE0628008																																																																																																							
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TT-3420-07			G	S	-	✓	✓	✓			2	SE0628013																																																																																																							
TT-3420-08			G	S	-	✓	✓	✓			2	SE0628014																																																																																																							
QC Deliverables: ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Other		COMMENTS: <u>For EPA E-5 EDD</u>										Chain of Custody Protocol is: ☐ Mandatory ☐ Optional																																																																																																							
Relinquished By: <u>[Signature]</u>		Date/Time: <u>7/20/19</u>		Rec'd By:		Date/Time:		Rec Lab Temp:																																																																																																											
Relinquished By:		Date/Time:		Rec'd By:		Date/Time:		Rec Lab Temp:																																																																																																											

CHAIN OF CUSTODY

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BROOKSIDE LABORATORIES, INC.
Environmental Services Department
200 White Mountain Drive
New Bremen, Ohio 45869
Tel. (419) 977-2766
FAX (419) 977-2767

Client: <u>Environmental</u>		Account No:		TEST METHODS (If Specific Methods Required)										State in which samples were collected: <u>Virginia</u>								
Report Address: <u>200 S. 1st St. #100</u>		Invoice Address: <u>225 S. 1st St. #100</u>		ATTN: <u>V. J. Smith</u>		Sampled By: <u>V. J. Smith</u>		P.O. No:		Quote No: <u>7111</u>		Fax Results: Yes ☐ No ☐ Fax No:		TURNAROUND TIME (additional fees)		☐ Standard (none) ☐ 3 Day (+ 50%) ☐ 5 Day (+25%) ☐ 24 Hour Rush (+ 100%) Date Needed:		# and type of containers HCl/NaOH HNO ₃ H ₂ SO ₄ Other None		LAB USE ONLY		
Sample ID		Date	Time	Comp (C) Grab (G)	Matrix	Field pH	Acid Halides	Organic	Heavy Metals	Trace Metals	Organics	PCBs	Pesticides	Herbicides	Fertilizers	Other	HCl/NaOH	HNO ₃	H ₂ SO ₄	Other	None	LAB USE ONLY
TT-1-5 S-01		1	11:00	C	S	—	✓	✓	✓													SE0628015
TT-1-5 S-02		1	11:00																			SE0628016
TT-1-5 S-03		1	11:00																			SE0628017
TT-1-5 S-04		1	11:00																			SE0628018
TT-1-5 S-05		1	11:00																			SE0628019
TT-1-5 S-06		1	11:00																			SE0628020
TT-1-5 S-07		1	11:00																			SE0628021
TT-1-5 S-08		1	11:00																			SE0628022
QC Deliverables: ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Other		COMMENTS: <u>Final report for EA 6021</u>														Chain of Custody Protocol is: ☐ Mandatory ☐ Optional						
Relinquished By: <u>V. J. Smith</u>		Date/Time: <u>11/1/01</u>		Rec'd By:		Date/Time:		Rec Lab Temp:		Relinquished By:		Date/Time:		Rec'd By:		Date/Time:		Rec Lab Temp:				

3 of 3
CHAIN OF CUSTODY

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BROOKSIDE LABORATORIES, INC.
Environmental Services Department
200 White Mountain Drive
New Bremen, Ohio 45869
Tel. (419) 977-2768
FAX (419) 977-2767

Client: State of Michigan		Account No:		TEST METHODS (If Specific Methods Required)										State in which samples were collected: Michigan									
Report Address:		Invoice Address:		ATTN:		Sampled By:		TESTS REQUESTED										MATRIX CODES: DW = Drinking Water O = Oil WW = Wastewater M = Manure S = Soil IL = Industrial Liquid IS = Industrial Solid SD = Sludge					
ATTN:		P.O. No:		Quote No:																			
Phone No:		Fax Results: Yes ☐ No ☐		Fax No:																			
TURNAROUND TIME (additional fees) ☒ Standard (none) ☐ 3 Day (+ 50%) ☐ 5 Day (+25%) ☐ 24 Hour Rush (+ 100%) Date Needed:														# and type of containers									
Sample ID		Date	Time	Comp (C) Grab (G)	Matrix	Field pH											HC/NaOH	HNO ₃	H ₂ SO ₄	Other	None	LAB USE ONLY	
DUP-2			-	-		-	✓	✓	✓									2	SE0628023				
DUP-3			-	-		-	✓	✓	✓									2	SE0628024				
DUP-4			-	C		-	✓	✓	✓									2	SE0628025				
QC Deliverables: ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Other				COMMENTS: See notes on SE0628023														Chain of Custody Protocol is: ☐ Mandatory ☐ Optional					
Relinquished By: [Signature]				Date/Time: 12/1/06		Rec'd By: [Signature]				Date/Time:				Rec Lab Temp:									
Relinquished By:				Date/Time:		Rec'd By:				Date/Time:				Rec Lab Temp:									

Kari Long

From: Pitman, Vicki <VPitman@eaest.com>
Sent: Friday, June 28, 2019 12:08 PM
To: Kari Long
Subject: RE: Pesticide Testing Question

Hi Kari – Our samples should be at the lab now via UPS.

We found screening values for all of the analytes we've requested analysis for on our COC, so there will be no need to omit anything, as I previously mentioned.

A review EA conducted this week in house revealed that there are 9 compounds used at the project site that have screening values, but are not included in the analyte lists for the analyses we requested on the COC.

Are any of the chemicals listed below things that Brookside analyzes for or are these compounds that would require customized analysis? If so, we could consider adding those depending on the fee involved. I'd also have to get client authorization, plus you have the samples now, so wanted to check first.

Active Ingredient	CAS #	RSL (mg/kg)	
X Aluminum tris (Fosetyl-AL)	39148-24-8	160000 nm	"100
Fluaziam	79622-59-6	860 n	✓
Paclobutrazol	76738-62-0	820 n	✓
Propamocarb hydrochloride	25606-41-1	9390 n	✓ high detection
Propiconazole 10321	60207-90-1	6300 n	7000?
Quinclorac	84087-01-4	29700 n	Acid
Tebuconazole 10617	107534-96-3	2270 n	1000?
Topramezone	64742-94-5	313 n	✓
Trinexapac-ethyl	95266-40-3	25000 n	~~7000~~ ✓

Many thanks,

Vicki
Victoria M. Pitman, P.G.

EA EA Engineering, Science, & Technology, Inc., PBC
225 Schilling Circle, Suite 400, Hunt Valley, MD 21031
(P) 410-329-5109
(C) 410-336-5020

IMPROVING THE QUALITY OF THE ENVIRONMENT IN WHICH WE LIVE, ONE PROJECT AT A TIME®

From: Kari Long <klong@blinc.com>
Sent: Friday, June 21, 2019 2:53 PM
To: Pitman, Vicki <VPitman@eaest.com>
Subject: RE: Pesticide Testing Question

Kari Long

From: Pitman, Vicki <VPitman@eaest.com>
Sent: Monday, July 1, 2019 3:13 PM
To: Kari Long
Cc: Giampa, Rachel; Wolinski, Bethany; Lamond, Tara; Cheatwood, Cynthia
Subject: RE: Pesticide Testing Question

Hi Kari – thank you for the email.

Please proceed with adding the analytes below to the existing suites that can be added without additional charge. I did some additional quick research and found that fosetyl-aluminum compound is unlikely to persist in soil, therefore no need to incur the additional charge on behalf of our client for that analysis.

I have copied my team here so they will know why the report will have 8 additional compounds included.

Thanks again for the prompt response!

Vicki

From: Kari Long <klong@blinc.com>
Sent: Monday, July 1, 2019 2:32 PM
To: Pitman, Vicki <VPitman@eaest.com>
Subject: RE: Pesticide Testing Question

Hi Vicki-

We can analyze all of the compounds listed with the IQ007 package except fosetyl-aluminum.

We would have to charge \$100 per sample for this compound. I can add the rest to the list of compounds we are analyzing with no extra charge.

Thanks

Kari

From: Pitman, Vicki <VPitman@eaest.com>
Sent: Friday, June 28, 2019 12:08 PM
To: Kari Long <klong@blinc.com>
Subject: RE: Pesticide Testing Question

Hi Kari – Our samples should be at the lab now via UPS.

We found screening values for all of the analytes we've requested analysis for on our COC, so there will be no need to omit anything, as I previously mentioned.

A review EA conducted this week in house revealed that there are 9 compounds used at the project site that have screening values, but are not included in the analyte lists for the analyses we requested on the COC.

Are any of the chemicals listed below things that Brookside analyzes for or are these compounds that would require customized analysis? If so, we could consider adding those depending on the fee involved. I'd also have to get client authorization, plus you have the samples now, so wanted to check first.

Active Ingredient	CAS #	RSL (mg/kg)
Aluminum tris (Fosetyl-AL)	39148-24-8	160000 nm