

**ENVIRONMENTAL IMPACT REPORT  
MINTURN NORTH PUD  
TAYLOR STREET AND MINTURN ROAD  
MINTURN, COLORADO**

**Prepared for:**

**RESORT CONCEPTS  
225 Main Street, Suite C-101  
Edwards, Colorado 81632**

**Attention: Mr. Rick Hermes**

**Project No. SU01922.001-240-R1**

**December 8, 2022**



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## **EXECUTIVE SUMMARY**

This report presents the results of the Environmental Impact Report that was performed by CTL/Thompson (CTL) for Resort Concepts for the Subject Property known as Minturn North PUD. The Property is located north of Taylor Street and Minturn Road in the Town of Minturn, Colorado and is proposed for a total of 39 residential units.

Based on our findings we believe that significant environmental impacts associated with the development of the site are expected to be fully avoided or mitigated.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.



## **1.0 INTRODUCTION AND SITE DESCRIPTION**

CTL Thompson (CTL) has been contracted by Resort Concepts to perform an Environmental Impact Report (EIR) for the Subject Property known as Minturn North PUD, located between Minturn Road and Taylor Street, in Minturn, Eagle County, Colorado.

The Subject Property, located between Taylor Street and Minturn Avenue, is primarily vacant aside from six mobile homes. The Property is generally triangular shaped and is approximately 14 acres in size. The Property was historically used for railyard storage and is vegetated by invasive grass species such as crested wheatgrass (*Agropyron cristatum*) and quackgrass (*Elymus repens*). Game Creek Trail, a popular year-round hiking and mountain biking trail, is present at the northwest corner of the Property, to the south of Game Creek. A residential development borders the Property along Taylor Street to the east, and the Union Pacific Railroad and Eagle River border the Property along Minturn Road to the west. The surrounding area is a popular recreation area year-round, with hiking, mountain biking, and ski trails nearby. 4th Street and 4th Avenue cross the Subject Property in the central portion, adjacent to the mobile homes.

## **2.0 PROJECT AND PURPOSE**

The purpose of the project is to create a low-impact residential development within the Town of Minturn. The proposed development will include 39 residential lots and related infrastructure. Development includes 6 units which will be deed-restricted for Town of Minturn permanent residents. The lots include an internal roadway (Game Creek Lane). Development will not disturb Taylor Street.

## **3.0 IMPACT ANALYSIS**

### **3.1 *Hydrologic Conditions***

Minturn, Colorado is located in the Upper Colorado River Basin and is a part of the Eagle River Watershed. The Subject Property is located just east and up-gradient of the



Eagle River. Ground water and surface drainage is flowing towards Eagle River. To the north of the Property is Game Creek, which flows into the Eagle River. The soil is predominantly Forsey cobbly loam. According to USDA's Web Soil Survey, Forsey cobbly loam outflow is considered somewhat limited. Development of the Subject Property should not impact the Eagle River as long as care is taken to preserve Game Creek.

### **3.2 Atmospheric Conditions**

The Town of Minturn regulates air quality standards for smoke emissions, particulate matter, dust and fumes. Without the impacts of forest fires in the surrounding area, Minturn maintains a standard of "good" air quality, with an Air Quality Index (AQI) usually ranging from 0-50 AQI. The development of the Property will have minimal long term and short-term impacts for particulate matter, dust and fumes.

Construction activities have the potential to generate a substantial amount of air pollution for the short term. We estimate the construction phase of the project will have the highest temporary impacts to air quality. We expect that construction emissions will be generated from common construction activities and could potentially include increases from the following activities:

- Exhaust emissions of particulate matter (PM) and oxides of nitrogen (NOX) from fuel combustion for mobile heavy-duty diesel and gasoline-powered equipment, portable auxiliary equipment, material delivery trucks, and worker commute trips;
- Fugitive PM dust from soil disturbance and demolition activity;
- Evaporative emissions of reactive organic gases (ROG or VOC) from paving activity and the application of architectural coatings.
- Exhaust emissions of greenhouse gases (GHG) such as carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O).

According to the Town of Minturn air quality standards, dust shall not be projected beyond any boundary line of the property. Additionally, fumes shall not be emitted from the boundary line of construction to an obnoxious or dangerous degree. Subject Property infrastructure construction will require the contractor to utilize a wash area for equipment and will also require a dust mitigation plan with use of a water-spray truck when necessary.



A dust control plan will be implemented that will control site dust and protect nearby residences.

Long term air quality impacts of the development may slightly increase due to the increase of traffic emissions from private vehicles. A Traffic Impact Report has yet to be completed for this development. The increase in traffic emissions is expected to increase the amount of air particulates and exhaust emissions; however, this increase is not expected to negatively impact overall air quality standards significantly. We do not expect that the increase in traffic will violate the Town of Minturn's air quality standards.

### **3.3 *Geologic Conditions***

CTL conducted a Soils and Foundation Investigation for the Property (Project No. SU01922.000-120-R1, report dated August 26, 2020). We conducted this investigation to evaluate subsurface conditions at the site and provide geotechnical engineering recommendations for the proposed development.

The ground surface across the Subject Property generally slopes down to the west and southwest. Slope amounts are variable and generally decrease from east to west. The slopes range from 5 to 15 percent south of Game Creek. According to the Minturn Quadrangle Geologic Map, most of the property is mapped as fan deposits.

Subsurface conditions observed in our exploratory borings and pits generally consisted of about 6 to 12 inches of "topsoil" overlying sand and gravel deposits. Existing man-placed fill was encountered in the upper 2 to 7 feet of several of the borings and pits. The maximum depth explored was 30 feet. Groundwater was not encountered in any of the borings/pits at the time of drilling/excavation, or in the borings when checked several days after drilling.

CTL completed a Limited Phase II Environmental Site Assessment for the Subject Property with letter dated September 25, 2020. A previous soil screen assessment completed by Jacobs, indicated an exceedance of benzo(a)pyrene, a Polynuclear Aromatic Hydrocarbon (PAH), in a soil boring (SB08) located adjacent to the northwest of



the corner of Taylor Street and 4<sup>th</sup> Street, in the central portion of the Property. We advanced a total of nine (9) shallow borings, in a 3 x 3 grid around the assumed location of the soil boring. Benzo(a)pyrene is typically a remnant of coal ash, soot, or other byproducts of combustion. It is unknown if the source is from historic rail use, drainage from pollutants on nearby roadways, or other sources. In any event, we delineated the extent of the PAH impact, so that this finite area can be removed by a contractor and taken to a landfill that accepts special / industrial / non-hazardous waste. Our laboratory data can be provided to the landfill in order to facilitate the creation of a waste profile. After and assuming proper disposal of this finite yardage, we consider the PAH issue resolved, and the environmental condition of the Subject Property improved.

### **3.4 Biotic Conditions**

CTL conducted a Biological Assessment and Cultural Record Review for a larger property which included the Subject Property (Report No. SU01922.000-240-R1, report September 17, 2020). Our assessment evaluated the Subject Property for the presence of jurisdictional wetlands and Waters of the U.S., the presence of State and Federally threatened or endangered species, the presence of critical habitat for endangered or threatened species, migratory birds, and the presence of registered archeological and/or historic sites on the Subject Property.

The Property currently exists in a naturally vegetated state. Common species observed at the Property mostly consisted of invasive prairie grasses such as crested wheatgrass (*Agropyron cristatum*), quackgrass (*Elymus repens*) and smooth brome (*Bromus inermus*). Other herbaceous species observed on the site included invasive weeds and some native plants such as musk thistle (*Carduus nutans*), silver wormwood (*Artemisia ludoviciana*) tansy (*Tanacetum vulgare*) and scentless chamomile (*Tripleurospermum inodorum*). Game Creek is present to the north of the Property. The EPA's Region 8 Ecoregion Map classifies the Property as sedimentary subalpine forests and northwestern forested mountains.

Our evaluation identified potential wetlands and Waters of the U.S. located to the north of the Property in the form of Game Creek. Game Creek is located approximately



30 feet to the north of the Property and flows west into Eagle River. Eagle River is a tributary to the Colorado River. We consulted a Wetland Delineation Report prepared by Birch Ecology, dated September 2020. Birch Ecology identified one Palustrine, Forested and Scrub-Shrub Wetland along Game Creek, approximately 0.36 acres in size. Birch Ecology also corroborated our opinion that Game Creek and the associated wetlands would be considered jurisdictional by the U.S. Army Corps of Engineers. We also determined that impacts and discharge to Game Creek could potentially impact four federally endangered fish species which include the bonytail chub (*Gila elegans*), Colorado pikeminnow (*Ptychocheilus lucius*), humpback chub (*Gila cypha*), and the razorback sucker (*Xyrauchen texanus*). We do not believe that development will impact Game Creek or the associated wetlands. A map of Game Creek wetlands can be found in **Figure 2**.

By regulation, the owner or contractor will need to develop and implement a Stormwater Management Plan (SWMP) to control sediment leaving the Property. A stormwater management plan will be utilized in order to avoid impacts to Game Creek.

Our assessment identified potential habitat for ground-nesting and tree-nesting migratory birds which are protected under the Migratory Bird Treaty Act. Several species of migratory bird were observed on the Property which included a red-tailed hawk (*Buteo jamacicensis*), black-billed magpies (*Pica hudsonia*) and American robins (*Turdus migratorius*). We recommended vegetation be removed outside of the breeding season (March to August) or a migratory bird nest survey be performed prior to development.

According to data obtained by History Colorado, Office of Archaeology and Historic Preservation, the Subject Property contains one record for a historic unpaved road named Stage Road on the western border of the Subject Property. This road dates back to the 1880s but is officially not eligible for inclusion on the National Registrar. We do not believe development will impact eligible historic sites.

According to previous conversations with CPW, the Property occurs within a quarter mile of a golden eagle nest. However, more recent data indicates that this nest has been confirmed to be abandoned by CPW. The surrounding area is a residential area



of Minturn with on-going residential construction along Taylor Street, as well as being a popular recreation area year-round. We do not believe that the development will create increased human impact on this golden eagle nest.

The project occurs within CPW-mapped Bear-Human Conflict Area and in the state's only mountain lion (*Puma concolor*) Special Management Area (SMA). Black bears are considered a problem in Minturn. The development will adhere to "best management practices" in order to reduce potential predator encounters. The development will recommend no composting, no fruit-bearing trees or shrubs, no feeding pets outside, and use of bear proof trash containers. The development commits to develop a Wildlife Mitigation Plan.

Elk herds in the area have experienced a severe decline in the last ten years. Approximately 2.50 acres in the northeastern portion of the Property occur within the elk severe winter range. This is approximately 0.07% of the elk winter range in Colorado. Due to the developed nature of the adjoining properties within the elk severe winter range, we believe it is unlikely that development will impact elk populations. The recreational trails in the surrounding area are open year-round, and not subject to regulation by the development.

Based on the biological and cultural studies conducted on the Subject Property and due to the actions the developers plan on taking in order to minimize impacts, we do not believe development of the Property will have significant impacts on critical habitats, state or federally listed species, Waters of the U.S., or other critical biological and cultural features on the Property.

### **3.5 Noise and Odors**

The Town of Minturn requires that noise levels do not exceed 60 dBA (decibels) between the hours of 7:00 a.m. to 7:00 p.m. and 55 dBA from 7:00 p.m. to 7:00 a.m. Properties adjacent to the project area are transportation corridors and residential properties. During our Subject Property visit on August 21, 2020, we used a decimeter to estimate current noise levels. During mid-day we estimated noise levels on the Property



to be below 50 dBA during daytime hours. CDOT estimates the average maximum noise level of construction equipment to be around 80 dBA at 50 feet. We predict that noise at 50 feet from the project boundary may exceed 60 dBA from 7:00 a.m. to 7:00 p.m. but should not exceed 55 dBA from 7:00 p.m. to 7:00 a.m. Additionally, we expect that some odors emanating from operating machinery may increase during construction hours. We do not expect these odors will exceed permissible amounts or create an unreasonable nuisance to the surrounding area. We do not expect these impacts to have a significant impact on wildlife as critical habitat for wildlife was not identified on or nearby the Subject Property. Noise and odors related to construction are temporary impacts and will only be short term.

Long-term impacts are expected to be minimal, as we do not expect the completed project to exceed the maximum permissible noise levels for the Town of Minturn. We do not expect the completed project to exceed permissible odor regulations for the Town of Minturn.

### **3.6 Visual Conditions**

The Subject Property and surrounding area overlook a view to the west of Grouse Mountain and the Holy Cross Wilderness Area within White River National Forest. Grouse Mountain and associated hiking trails are present in this area. To the north is more Forest Service land which overlooks a steep ridge. Directly east are single-family residential homes and more Forest Service land which look up to steep mountains and Cougar Ridge. To the south are residential homes and downtown Minturn.

The main visual impacts due to the development of the Property are to the residences to the east. Building plans for the proposed residences have not been developed yet; however, buildings will not exceed maximum height standards for the town of Minturn. Although the proposed project may somewhat obscure the view for existing residences, the general topography of the neighborhood slants to the west, putting the existing residences to the east at a higher vantage point. The proposed development may cause some concern from nearby neighbors; however, the project is properly in line with the designated zoning of the area. We contacted Mr. Scott Fleming, GIS Analyst with



Eagle County, for information regarding protected viewsheds or view corridors. According to the information provided by Eagle County, there are not restricted, protected, or designated view corridors within the area of the Subject Property.

Development of the Subject Property may also impact the view to the east from Highway 24. We see this impact as less of a concern as the area is already developed as residential. Overall, the project is in line with the established zoning of the area and does not obscure the view of designated viewing corridors.

### **3.7     *Zoning and Land Use***

The Property was historically vacant until the 1950s and 1960s when structures and equipment were present, likely storage for the railroad. Mobile homes are visible beginning in the 1970s until present. According to the Town of Minturn, the Property is visually prominent from the north entry way into the town and is predominantly devoted to railroad use. The area is bisected by the railroad right-of-way, which will remain as a transportation corridor. The town's community plan identified this area as an area for extension of the Old Town commercial core, mixed-use and residential development. High impact industrial use is discouraged. Enhancement of the Eagle River corridor is a community priority. The Property is currently zoned Planned Unit Development Holding zone (PUD Holding Zone) by the Town of Minturn. The Town of Minturn provides the purpose of this area is to "provide for continued residential use and redevelopment that preserve the small-town residential character and scale of the neighborhood." Development incorporate appropriate residential and low-impact land uses along Taylor Avenue to minimize impacts to the existing neighborhood.

### **3.8     *Traffic Impacts***

A Traffic Impact Report was completed by CivTrans on October 3, 2022. This report indicated that the development will generate 424 average daily trips, with peak hours of 32 trips (AM) and 41 trips (PM). The estimated peak hour trips for the site are less than the CDOT trip generation threshold of 100 peak hour trips. So no additional traffic analysis should be required.



The report indicated that all of the study area intersections operate at level of service C or better for all conditions analyzed. Therefore, the study area intersections are anticipated to operate at acceptable levels.

A southbound left turn lane is currently required for the intersection of US Highway 24 and County Road, based on existing traffic volumes.

The development is not planned to improve or disturb Taylor Street Roadway.

The CivTrans Trip Generation Letter is presented in **Attachment C**.

### **3.9 Fiscal Impacts**

A Town of Minturn Financial Impact and Estimated Tax Revenue Report, dated September 19, 2022, indicated that the most significant fiscal impacts to the Town of Minturn were identified as the incremental General Fund revenue and expenditure impacts, and Water Enterprise Fund. These impacts are summarized below:

- The report expects incremental costs of an average \$600 per residence, and revenue over expenditures of approximately \$1.2 million during years 2023 – 2030. Incremental General Fund revenues are forecast to exceed incremental expenditures by approximately \$3.9 million annually at stabilization (2030).
- Incremental Water Enterprise Fund revenues are forecast to generate approximately \$2.67 million during years 2023 – 2030. The resulting sustaining and ongoing Water Use Revenue in 2030 is estimated at approximately \$1.47 million.

The Minturn North Economic Impact Study is presented in **Attachment D**.

### **3.10 Population Impacts**

The Town of Minturn is currently at a population of 1,027 and has remained relatively constant over the last twenty years. The median age was around 40 years and



estimated median household income around \$75,754. The town of Minturn is surrounded by The White River National Forest, and thus the population is concentrated along the US 24 and Eagle River corridor. The town maintains about an 80% year-round occupancy level. In recent years, home prices have increased as have the number of short-term rentals.

The Property, located east of the railroad, is currently vacant land with several mobile homes. There is potential for displacement of the residents of these mobile homes.

According to the Minturn Housing Action Plan, development of this area would promote affordable year-round residency, and an extension of the Old Town commercial core.

### **3.11 Regulatory Agencies**

Below is a list of regulatory or review agencies and the specific regulations to which the proposed development will be subject:

| Agency Name  | Regulations                                |
|--|--|
| Town of Minturn                                      | Reviewing agency.                          |
| Eagle River Water & Sanitation District              | Within sanitation district jurisdiction.   |
| Colorado Department of Public Health and Environment | Stormwater management during construction. |
| Occupational Safety and Health Administration (OSHA) | Worker Health and Safety                   |

## **4.0 GENERAL SUMMARY**

Game Creek, present approximately 30 feet to the North of the Property, contains wetlands and is a tributary to Eagle River and the Colorado River. Development is not expected to impact Game Creek.

Atmospheric conditions are expected to be somewhat impacted in the short term and long term. We expect temporary, short-term impacts will be the highest, due to



construction and development. In the long-term, we expect that air quality will be slightly impacted due to the increase in traffic to the area. Air particulates and exhaust emissions may increase. However, we expect that these increases will only minimally impact overall air quality in the area.

The Property generally slopes down to the west and southwest. Subsurface conditions generally consisted of about 6 to 12 inches of “topsoil” overlying sand and gravel deposits. Existing man-placed fill was encountered in the upper 2 to 7 feet of several of the borings and pits. Groundwater was not encountered in any of the borings/pits at the time of drilling/excavation, or in the borings when checked several days after drilling.

According to a Limited Phase II ESA completed on the Subject Property, soils in the northwest corner of 4<sup>th</sup> Street and Taylor Street contain PAHs below their EPA RSLs and are suitable for disposal in a solid waste landfill.

Short-term impacts to noise and odor levels in the area are expected to be highest due to construction. We do not expect that noise and odor levels will exceed Town ordinances from 7 p.m. to 7 a.m. We do not expect that long-term impacts of the development will exceed noise and odor ordinances.

Development of the Subject Property may somewhat obscure the views of Grouse Mountain for the existing residences to the east of the Property. Views of the completed development from Highway 24 will not be impacted significantly as the area is already residential. There are no designated or restricted scenic corridors or viewsheds in the area of the project.

The project does not conflict with the designated land use and zoning requirements of the area.

The Traffic Impact Report indicated that the development will generate 424 average daily trips, with peak hourly trips well under the 100-trip threshold of CDOT. No additional traffic analysis should be required. All of the study area intersections operate at



level of service C or better for all conditions analyzed. Therefore, the study area intersections are anticipated to operate at acceptable levels. The development is not planned to improve or disturb Taylor Street Roadway.

The Town of Minturn Financial Impact and Estimated Tax Revenue Report, dated September 19, 2022, indicated that the most significant fiscal impacts to the Town of Minturn were identified as the incremental General Fund revenue and expenditure impacts, and Water Enterprise Fund. The revenue over expenditures is expected to result in approximately \$1.2 million during years 2023 – 2030. Incremental General Fund revenues are forecast to exceed incremental expenditures by approximately \$3.9 million annually at stabilization (2030). Incremental Water Enterprise Fund revenues are forecast to generate approximately \$2.67 million during years 2023 – 2030. The resulting sustaining and ongoing Water Use Revenue in 2030 is estimated at approximately \$1.47 million.

The Subject Property in its current condition mostly consists of vacant land occupied by several mobile homes. The development of the Site will displace the current residents of the mobile homes; however, the development of the Property will overall create more affordable housing in the area.

## **5.0 MITIGATION STRATEGIES**

In order to avoid impacts to hydrology, wetlands, Waters of the U.S. and potential impacts to endangered fish species, development will remain outside of Game Creek. A Storm Water Management Plan (SWMP) or Storm Water Pollution Prevention Plan (SWPPP) will be implemented at the Property to prevent sediment and other pollutants entering Game Creek during construction.

Subject Property construction will require the contractor to utilize a wash area for equipment and will also require a dust mitigation plan with use of a water-spray truck when necessary. A dust control plan will be implemented that will control site dust and protect nearby residences. The increase in traffic emissions is expected to increase the amount



of air particulates and exhaust emissions; however, this increase is not expected to negatively impact overall air quality standards significantly. We do not expect that the increase in traffic will violate the Town of Minturn's air quality standards.

The finite area of PAH impacted soil near the northwest corner of 4<sup>th</sup> Street and Taylor Street may be removed by a contractor and taken to a landfill that accepts special /industrial/non-hazardous waste. Our laboratory data can be provided to the landfill in order to facilitate the creation of a waste profile. After and assuming proper disposal PAH-impacted soil, we consider the PAH issue resolved, and the environmental condition of the Subject Property improved.

Approximately 2.5 acres of Property development occurs within the Severe Winter Elk Range. However, due to the residential and recreational nature of the area, the development is not anticipated to increase the impact to local elk populations.

Black bears and mountain lions are a concern in the Town of Minturn. In order to reduce human-predator interaction, the development will utilize "best management practices."

The Property generally provides habitat for migratory birds. In order to avoid impacts to migratory birds, vegetation will be removed outside of the breeding season, or a migratory bird survey will be conducted prior to the removal of vegetation.

Construction of the development is expected to temporarily increase noise, emissions, and odors in the surrounding area. Construction activities will remain within the hours of 7 a.m. to 7 p.m. to not exceed high-time noise ordinances. Construction vehicles may also contribute to increased particulate matter, dust, and fumes. Dust will not be projected beyond any boundary line of the property. Additionally, fumes will not be emitted from the boundary line of construction to an obnoxious or dangerous degree. During development, the construction yard will be located at the northern end of the Site. Site infrastructure construction will require the contractor to utilize a wash area for equipment and will also require a dust mitigation plan with use of a water-spray truck when necessary. A full dust control plan will be developed with the contractor after one is selected. These



emissions are not expected to exceed the Town of Minturn's air quality standards. The completed project is not expected to contribute significant impacts to air quality.

The development is not expected to significantly impact traffic. A southbound left turn lane is currently required for the intersection of US Highway 24 and County Road, based on existing traffic volumes.

## 6.0 LIMITATIONS

This document was prepared to provide the required information for the Town of Minturn's required for an Environmental Inventory Report (EIR). We believe we have performed this EIR with a level of skill and care ordinarily used by environmental professionals practicing in this area at this time.

This document was prepared by CTL | Thompson, Inc. on behalf of Resort Concepts. Should additional information or evaluation be required, please contact us.

Sincerely,

CTL | THOMPSON, INC.

Christine Whitacre  
Environmental Scientist

Reviewed by:

Matthew L. Wardlow, P.E.  
Environmental Department Manager, Denver Office

Via e-mail: [rickh@resortconceptsco.com](mailto:rickh@resortconceptsco.com)



## REFERENCES

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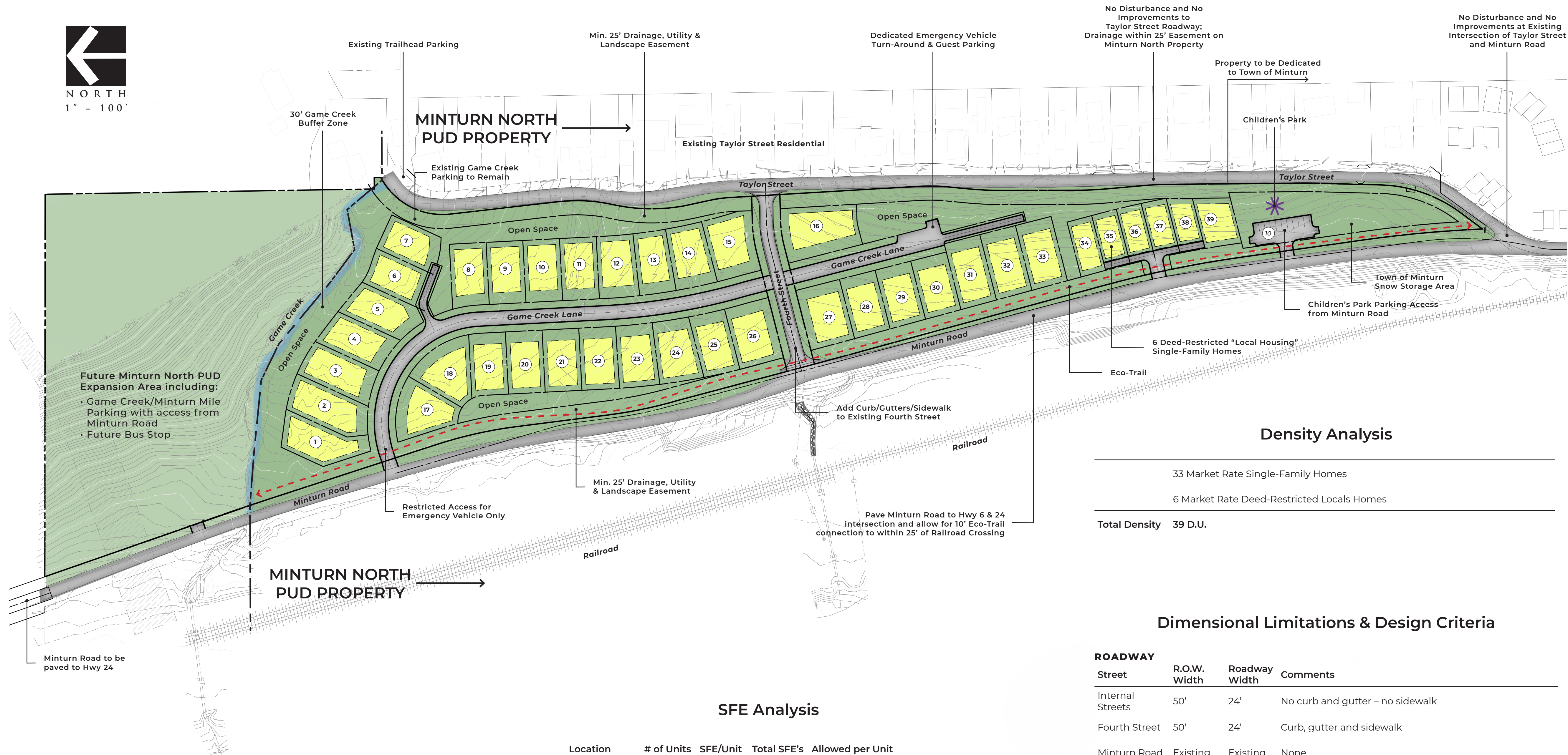


*Soils and Foundation Investigation, Minturn Railroad PUD, CTL/Thompson, Project No. SU01922.000-120-R1, dated August 26, 2020*

*Wetland Delineation Report, Birch Ecology, LLC, Report No. Unknown, dated September 2020.*

*Analysis of Potential Incremental Town of Minturn Revenues Generated, and General Fund Expenditures Incurred as a result of the development of the North Minturn PUD, Stan Bernstein and Associates, Report No. Unknown, dated September 14, 2020.*

# MINTURN NORTH PUD – PRELIMINARY PLAN REVISIONS



Local Housing Conceptual Floor Plan – 1,840sf

| Location           | # of Units | SFE/Unit | Total SFE's | Allowed per Unit                  |
|--------------------|------------|----------|-------------|-----------------------------------|
| Lots 1–33          | 33         | 2        | 66          | Max. 6,000sf + 4,000sf irrigation |
| Lots 34–39         | 6          | 1        | 6           | Max. 3,000sf + 2,000sf irrigation |
| Common Area        | N/A        | N/A      | 4           | Max. 10,000sf irrigation          |
| <b>Total SFE's</b> |            |          | <b>76</b>   |                                   |

Note: Homes which are less than 3,000sf shall require 1 SFE in accordance with Minturn Town Ordinance. This determination shall be made upon each building permit application. In the event excess SFE's become available resulting from homes less than 3,000sf, remaining SFE's may be utilized within the future Minturn North PUD expansion area.

## Density Analysis

|  |                |
|--|----------------|
| 33 Market Rate Single-Family Homes         |                |
| 6 Market Rate Deed-Restricted Locals Homes |                |
| <b>Total Density</b>                       | <b>39 D.U.</b> |

## Dimensional Limitations & Design Criteria

| ROADWAY Street   | R.O.W. Width | Roadway Width | Comments  |
|------------------|--------------|---------------|---|
| Internal Streets | 50'          | 24'           | No curb and gutter – no sidewalk  |
| Fourth Street    | 50'          | 24'           | Curb, gutter and sidewalk   |
| Minturn Road     | Existing     | Existing      | None  |
| Taylor Street    | Existing     | Existing      | No improvements required – drainage within minimum 25' Drainage, Utility & Landscape easement |

| BUILDING Lot # | Front Setback   | Rear Setback    | Side Setback          | Max. Roof Height |
|----------------|-----------------|-----------------|-----------------------|------------------|
| 1–33           | 20' from R.O.W. | 10' from R.O.W. | 7.5' from R.O.W.      | Per T.O.M. code  |
| 34–39          | 20' from R.O.W. | 10' from R.O.W. | 5' from Property Line | Per T.O.M. code  |

## Planning Response to Stakeholder Comments

| TOPIC                                  | PLAN REVISIONS/PUBLIC BENEFITS   |
|--|--|
| Density                                | <ul style="list-style-type: none"><li>Revised plan provides for a 80% reduction in density from 193 to 39 units. The Revised Minturn North PUD only includes the property South of Game Creek.</li><li>39 single family homes (6 are Deed Restricted Town of Minturn "Locals Housing" Single-Family Homes)</li><li>Property North of Game Creek is not included in the Minturn North PUD. However, it is labeled as Future PUD Expansion Area which will be subject to future T.O.M. review and approval.</li><li>Minturn North lot sizes are consistent with existing Taylor Street lots and the 2009 T.O.M. Master Community Plan</li><li>Revised plan allows for low vehicular, pedestrian and visual impact from existing Taylor Street residences and maintains the Fourth Street access to Minturn Road for Taylor Street residents.</li></ul> |
| Water                                  | <ul style="list-style-type: none"><li>Revised plan utilizes the 76 currently available SFE's (70 provided by T.O.M. + 6 existing SFE's on the property)</li><li>2 SFE's are allocated to Lots 1-33 and 1 SFE is allocated to Lots 34-39.</li></ul> <p>Note: Homes which are less than 3,000sf shall require 1 SFE in accordance with Minturn Town Ordinance. This determination shall be made upon each building permit application. In the event excess SFE's become available resulting from homes less than 3,000sf, remaining SFE's may be utilized within the future Minturn North PUD expansion area.</p>  |
| Taylor Street                          | <ul style="list-style-type: none"><li>Access to Taylor Street has been reduced to existing Fourth Street location.</li><li>A minimum 25' drainage, utility and landscape easement has been located along the western boundary of Taylor Street on Minturn North property to reduce visual impacts on Taylor Street residents.</li><li>Revised plan reduces hardscape and infrastructure thereby increasing landscaping and open space around homes.</li></ul>  |
| Natural Resources Protection           | <ul style="list-style-type: none"><li>Revised plan maintains a 30'+ buffer along Game Creek</li></ul>  |
| Local Housing                          | <ul style="list-style-type: none"><li>6 Units of the revised Minturn North PUD shall be deed restricted for T.O.M. permanent residents.</li><li>33 single family homes shall be offered to the general public. A perpetual deed restriction shall stipulate that Non-Minturn permanent resident Buyers shall pay a 1% transfer fee to the T.O.M. Community Fund.</li></ul>   |
| Open Space                             | <ul style="list-style-type: none"><li>The revised Minturn North PUD will meet or exceed the minimum 25% required open space within each phase.</li><li>A public Children's Park has been relocated to the South end of the property – more accessible to the majority of Town residents. This revision also increases vehicular and pedestrian visibility at the intersection thereby providing for safer connectivity. The property shall be dedicated to T.O.M.</li><li>Space for T.O.M. snow storage has been added to the South end of the property. The property shall be dedicated to T.O.M.</li></ul>   |
| Infrastructure and Public Improvements | <ul style="list-style-type: none"><li>The revised Minturn North PUD purposefully creates a low impact infrastructure plan which substantially simplifies and reduces the need for on-site and off-site public improvements. This reduction is critical to the viability of the revised plan.</li><li>The revised Minturn North PUD design intent is to create a low impact neighborhood rather than an urban footprint.</li><li>The revised Minturn North PUD does not include an overlapping metropolitan district.</li><li>With the exception of Fourth Street, internal roadway maintenance will be managed and paid for by the to-be-formed property owners association.</li><li>The park and associated improvements shall be dedicated to the T.O.M.</li><li>Revised plan requires minimal Town Code variances.</li></ul>                      |
| Sustainability                         | <ul style="list-style-type: none"><li>Residential fixtures including toilets, shower heads, faucets, irrigation controllers shall be certified by the EPA's Water Sense program or have an equivalent rating.</li><li>Irrigation devices such as spray sprinkler bodies shall be rated for efficiency and low flow.</li><li>All water using appliances such as dishwashers, ice machines and washing machines shall be Energy Star certified.</li><li>All exterior lighting fixtures will be dark sky compliant. Non dark sky compliant lighting may be used at specific locations for the purpose of safety if approved by the T.O.M. design review board.</li></ul>  |
| Architectural                          | <ul style="list-style-type: none"><li>The architectural style of Minturn North will allow for diversity of forms, massing and colors to create an eclectic timeless style grounded in the rich heritage of the area and in harmony with the Town.</li><li>Neutral tones will create the broad canvas that binds the neighborhood with splashes of color on accent elements such as windows, doors, shutter's and additive forms allowing for an eclectic individuality.</li></ul>  |
| Character                              | <ul style="list-style-type: none"><li>Appropriate landscaping material will be used to weave the architecture and streetscape into a cohesive neighborhood, respectful of existing homes.</li><li>A Design Review Board will be established by the Property Owners Association to enforce Design Guidelines.</li></ul>   |



Local Home Inspiration



Single-Family Home Inspiration



Public Park Inspiration



Single-Family Home Inspiration



Single-Family Home Inspiration



Single-Family Home Inspiration

Figure 2 - Site Wetlands



October 12, 2022





Wetlands

- |  |   |  |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland       |  Lake     |
|  Estuarine and Marine Wetland   |  Freshwater Forested/Shrub Wetland |  Other    |
|  |  Freshwater Pond                   |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



## **ATTACHMENT A SITE PHOTOGRAPHS**

| Overall Site Photos                                       |  |  |  |
|---|--|--|--|
|   |   |  |   |
| Description: General Property view<br>Direction: North    |  | Description: General Property view<br>Direction: North |  |
|   |  |  |  |
| Description: On-site mobile homes<br>Direction: Southwest |  | Description: General Property view<br>Direction: South |  |

## SITE PHOTOGRAPHS



**ATTACHMENT B**  
**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**

September 23, 2020  
Revised September 25, 2020

Minturn Crossing, LLC  
245 Pine Street  
Minturn, Colorado 81645

Attention: Gregory Sparhawk

Subject: Limited Phase II Environmental Site Assessment  
Minturn Railroad PUD  
19 Acres Between N. Taylor Street and Minturn Road  
Minturn, Colorado  
Project No. SU01922.000-205-L1

This letter was prepared by CTL | Thompson, Inc. (CTL) for **Minturn Crossing, LLC**, and presents the results of the Limited Phase II Environmental Site Assessment (ESA) for the Proposed Minturn Railroad PUD in Minturn, Colorado.

#### Introduction

Minturn Crossing, LLC requested that the subsurface conditions be evaluated at the Site. This included soil sampling in nine locations on the Site. This letter includes our methods for gathering data of the shallow subsurface conditions at the site and evaluation of the analytical data.

Per our Contract Modification #2 dated August 10, 2020, we advanced a total of nine (9) shallow borings, in a 3 x 3 grid around the assumed the location of SB08 from the December 2018 soil screening assessment performed by others. Our borings were spaced between 30 and 50 feet apart. The previous SB08 location had an elevated concentration of Benzo(a)pyrene, a Polynuclear Aromatic Hydrocarbon (PAH) that is typically a remnant of coal ash, soot, or other byproducts of combustion. It is unknown if the source is from historic rail use, drainage from pollutants on nearby roadways, or other sources. Our borings were to at least 12 inches using a shovel, decontaminated between borings.

#### Site Description

The sites consist of approximately 19 acres between N. Taylor Street and Minturn Road in Minturn, Colorado. The Eagle County Assessor website lists the size of this parcel as approximately 19 acres. Figure 1 (Topographic Map) presents the location of the Site and Figure 2 (Site Plan) presents the approximate locations of the soil samples, as well as a summary of significant results.



## Field Investigation

Following utility clearances, CTL visited the site on September 10, 2020 and collected shallow soil samples with a shovel. Soil samples were collected to an approximate depth of 12 inches at six locations, and to approximately 24 inches at three locations.

Environmental protocol was used by CTL during digging and sampling of the soil. Disposable nitrile gloves were used by CTL to obtain subsurface soils. Sampling equipment was decontaminated with an Alconox® wash, followed by rinse, and deionization rinse between sample locations.

The portions of the samples from the shovel borings that were composited (metals) were collected by combining the boring spoils in a plastic bucket. The spoils were then mixed and quartered.

The soil samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) and one location was additionally analyzed for Volatile Organic Compounds (VOCs) via EPA Method 8260, and Resource Conservation and Recovery Act (RCRA) 8 Metals via EPA Methods 6010C/7471A, as well as pH and Flashpoint. The VOC sample was not composited but was a discrete (“grab”) samples to minimize volatilization. These additional analyses were performed simply to provide to a landfill for approval in the event of excavation and disposal, rather than out of concern for these contaminants at the Site. All samples were placed in laboratory provided glassware and transported on ice to Origins Laboratory in Denver, Colorado.

## Laboratory Results and Discussion

Table I and II presents a summary of the soil sample results. A complete copy of the laboratory results is presented in Attachment A.

Table I  
Summary of Soil Sampling Results

| ANALYTE |                        | HB1    | HB2     | HB3    | HB4     | HB5     | HB6     | HB7     | HB8     | HB9     | EPA RSL |
|---------|------------------------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| PAHs    | 1-Methylnaphthalene    | 0.0123 | 0.0136  | 0.0126 | 0.0233  | 0.0180  | 0.0159  | 0.00750 | 0.0442  | 0.0249  | 18      |
|         | 2-Methylnaphthalene    | 0.0163 | 0.0165  | 0.0158 | 0.0275  | 0.0222  | 0.0195  | 0.00822 | 0.0530  | 0.0283  | 240     |
|         | Acenaphthene           | ND     | ND      | ND     | ND      | ND      | 0.00217 | ND      | ND      | ND      | 36,000  |
|         | Acenaphthylene         | ND     | 0.00179 | ND     | 0.00625 | ND      | 0.00253 | ND      | 0.00405 | 0.00297 | NSF     |
|         | Anthracene             | ND     | 0.00287 | ND     | 0.0100  | ND      | 0.00579 | ND      | 0.00589 | 0.00446 | 180,000 |
|         | Benzo(a)anthracene     | ND     | 0.0125  | 0.0205 | 0.0675  | 0.00970 | 0.0355  | 0.00750 | 0.0210  | 0.0178  | 1.1     |
|         | Benzo(a)pyrene         | 0.0102 | 0.0168  | 0.0379 | 0.0709  | 0.0125  | 0.0423  | 0.0104  | 0.0291  | 0.0268  | 0.11    |
|         | Benzo(b)fluoranthene   | 0.0184 | 0.0398  | 0.0838 | 0.123   | 0.0250  | 0.0593  | 0.0411  | 0.119   | 0.111   | 1.1     |
|         | Benzo(ghi)perylene     | 0.0102 | 0.0204  | 0.0427 | 0.0438  | 0.0180  | 0.0260  | 0.0204  | 0.0508  | 0.0494  | NSF     |
|         | Benzo(k)fluoranthene   | ND     | 0.0108  | 0.0221 | 0.0409  | 0.00693 | 0.0199  | 0.0100  | 0.0287  | 0.0260  | 11      |
|         | Chrysene               | 0.0123 | 0.0208  | 0.0300 | 0.0763  | 0.0166  | 0.0398  | 0.0168  | 0.0512  | 0.0461  | 110     |
|         | Dibenzo(a,h)anthracene | ND     | 0.00538 | 0.0111 | 0.0138  | ND      | 0.00724 | 0.00500 | 0.0121  | 0.0155  | 0.10    |
|         | Fluoranthene           | 0.0163 | 0.0212  | 0.0379 | 0.110   | 0.0152  | 0.0445  | 0.0129  | 0.0427  | 0.0357  | 2,400   |



| ANALYTE                | HB1    | HB2    | HB3    | HB4    | HB5    | HB6     | HB7     | HB8     | HB9    | EPA RSL |
|------------------------|--------|--------|--------|--------|--------|---------|---------|---------|--------|---------|
| Fluorene               | ND     | ND     | ND     | ND     | ND     | 0.00217 | ND      | 0.00184 | ND     | 2,400   |
| Indeno(1,2,3-cd)pyrene | 0.0123 | 0.0294 | 0.0474 | 0.0655 | 0.0194 | 0.0351  | 0.0347  | 0.0876  | 0.0844 | 1.1     |
| Napthalene             | 0.0102 | 0.0115 | 0.0111 | 0.0250 | 0.0139 | 0.0119  | 0.00857 | 0.0387  | 0.0249 | 2.0     |
| Phenanthrene           | 0.0123 | 0.0176 | 0.0190 | 0.0434 | 0.0152 | 0.0268  | 0.0132  | 0.0449  | 0.0353 | NSF     |
| Pyrene                 | 0.0204 | 0.0229 | 0.0506 | 0.111  | 0.0194 | 0.0554  | 0.0111  | 0.0342  | 0.0305 | 1,800   |

ND = None Detected

NA = Not Analyzed

NSF = No Standard Found

EPA RSL = United States Environmental Protection Agency Regional Screening Level (Residential) Summary Table (TR=1E-06, HQ=1.0) May 2020

TCLP = Toxicity Characteristic Leaching Procedure

**BOLD = Exceeds RSL**

Note: All concentrations in milligrams per kilogram (mg/kg) unless otherwise noted

Table II  
Summary of Soil Sampling Results for Landfill (If Disposal Needed)

| ANALYTE       | HB5      | EPA RSL     |
|---------------|----------|-------------|
| VOCs          | ND       | Varies      |
| pH            | 7.49     | NA          |
| Flash Point   | >200     | NA          |
| TCLP Lead     | ND       | 5           |
| RCRA 8 Metals | Arsenic  | <b>1.80</b> |
|               | Barium   | 129         |
|               | Cadmium  | ND          |
|               | Chromium | 17.1        |
|               | Lead     | 19.0        |
|               | Selenium | ND          |
|               | Silver   | ND          |
|               | Mercury  | 0.00968     |

ND = None Detected

NA = Not Analyzed

NSF = No Standard Found

EPA RSL = United States Environmental Protection Agency Regional Screening Level (Residential) Summary Table (TR=1E-06, HQ=1.0) May 2020

TCLP = Toxicity Characteristic Leaching Procedure

**BOLD = Exceeds RSL**

Note: All concentrations in milligrams per kilogram (mg/kg) unless otherwise noted

VOCs were not detected in the sample collected.

PAHs were not detected in concentrations above the EPA Regional Screening Levels (RSLs) for residential soil, or else there was no clear standard.

Seven of the eight RCRA Metals were not detected in concentrations above the EPA RSLs for residential soil.

Arsenic was detected in concentrations which exceed the EPA RSL for residential soil; however, it should be noted that arsenic is naturally occurring in some



geologic environments in Colorado. The Colorado Department of Public Health and Environment (CDPHE) released a soil guidance document in June 2011 (re-viewed/revised July 2014) related to evaluating arsenic concentrations in soil, specifically regarding screening data collected from sites where historical use does not indicate the potential for arsenic contamination. More than 2,700 soil samples were collected from 44 counties in Colorado and were separated into three different land use categories. The average concentration of the land use categories was 11 mg/kg and the average concentration for the urban mixed-use category was 19 mg/kg. According to the CDPHE document, if arsenic concentrations are lower than 11 mg/kg, and releases of arsenic could not have occurred at the site, then the division would require no further action to address arsenic in soil. Four of the samples collected also slightly exceeded the CDPHE guidance document level of 11 mg/kg. Based on the laboratory results, as well as the CDPHE guidance document, we do not believe that arsenic concentrations in the soils represent a concern.

### Conclusions and Recommendations

Based on the results of the limited sampling and evaluation at the sites, the following can be concluded.

- PAHs were not detected in the shallow soils in concentrations which exceed EPA RSLs.
- Arsenic was detected in the soil sample above the EPA RSL for residential soil, but not in exceedance of the Colorado standard of 11 mg/kg. Other RCRA metals were not identified in concentrations that exceeded the EPA RSLs for residential soil where a clear standard is provided.
- Based on the laboratory results, as well as our field observations, the soils in question appear suitable for disposal in a Subtitle D landfill, such as the Denver Arapahoe Disposal Site (DADS). The laboratory data can be provided to the landfill in order to facilitate the creation of a waste profile.

We recommend excavation and disposal of the immediate area of SB8 (our HB5 one foot deeper) from the 2018 sampling effort. We did not find elevated PAH concentrations, likely because we deliberately went deeper in the central location of SB08, in an effort to bracket the contaminated area and provide an estimated yardage and pathway for closure. Disposal of this area, assuming SB08 and our HB5 are centrally located, would be the most definitive solution. The estimated yardage could be the central sample (the former SB08 or our deeper HB5), which is approximately two feet deep and 40' x 40' in area, or about 118 yards. We can assist with developing an approved waste profile with a local landfill, if requested.



## LIMITATIONS

This letter was prepared for the use of the Minturn Crossing, LLC in evaluating the soils which will be disturbed during planned improvements of the Proposed Minturn Railroad PUD. Our sampling and analytical plan was designed using previously obtained environmental background information and our judgment for the performance of a limited subsurface evaluation. The accuracy and reliability of environmental studies are a reflection of the number and type of samples taken and extent of the analyses conducted by CTL. This investigation does not result in any guarantee that the site is free and clear of hazardous materials other than those that may be indicated by CTL in this letter.

If you have any questions or need additional information or assistance with future evaluation of the site, please feel free to call.

Sincerely,

CTL | THOMPSON, INC.

Reviewed by:

John P Castellano  
Environmental Scientist  
[jcastellano@ctlthompson.com](mailto:jcastellano@ctlthompson.com)

Matthew L. Wardlow, P.E.  
Environmental Department Manager

JPC:MLW/nn

Attachments:    Figure 1 – Topographic Area Map  
                      Figure 2 – Approximate Sample Locations and Laboratory Results  
   Summary  
                      Attachment A – Soil Sample Laboratory Data

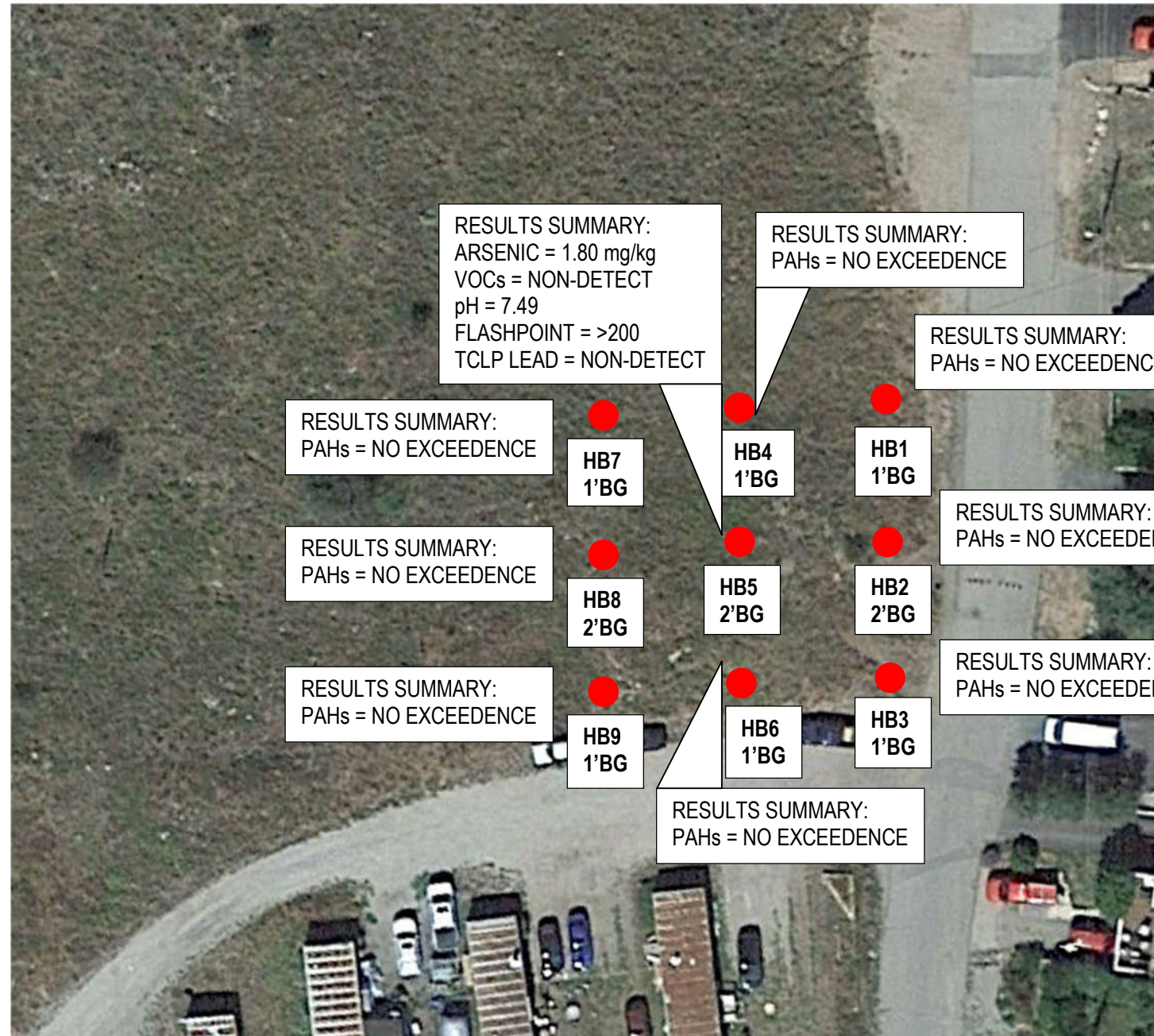
Via e-mail:        [gregs@gpsdesigns.com](mailto:gregs@gpsdesigns.com)

S 26  
T 5 S  
R 81 W



**Source:**  
Google Maps  
Minturn, Colorado  
Online - 2020

1" ~ 100'



**LEGEND:**

● HB1      Approximate location of Sample

HB5 is presumed to be in the vicinity of SB8 from 2018 Site Assessment



ATTACHMENT A  
SOIL SAMPLE LABORATORY DATA



September 17, 2020

CTL Thompson, Inc.

John Castellano

1971 West 12th Avenue

Denver

CO 80204

**Project Name - Minturn P11**

**Project Number - SU01922.000-205**

Attached are your analytical results for Minturn P11 received by Origins Laboratory, Inc. September 10, 2020. This project is associated with Origins project number Y009128-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| HB1       | Y009128-01    | Soil   | September 10, 2020 9:00  | 09/10/2020 15:00 |
| HB2       | Y009128-02    | Soil   | September 10, 2020 9:40  | 09/10/2020 15:00 |
| HB3       | Y009128-03    | Soil   | September 10, 2020 10:20 | 09/10/2020 15:00 |
| HB4       | Y009128-04    | Soil   | September 10, 2020 10:40 | 09/10/2020 15:00 |
| HB5       | Y009128-05    | Soil   | September 10, 2020 11:00 | 09/10/2020 15:00 |
| HB6       | Y009128-06    | Soil   | September 10, 2020 11:25 | 09/10/2020 15:00 |
| HB7       | Y009128-07    | Soil   | September 10, 2020 11:45 | 09/10/2020 15:00 |
| HB8       | Y009128-08    | Soil   | September 10, 2020 12:15 | 09/10/2020 15:00 |
| HB9       | Y009128-09    | Soil   | September 10, 2020 13:00 | 09/10/2020 15:00 |

Origins Laboratory, Inc.



*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.*

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

# ORIGINS

## LABORATORY, INC

www.originslaboratory.com

page 1 of 2 SPC

**Client:** CTL Thompson

**Address:** 1971 W 12 Ave

**Telephone Number:** 720 697 3758

**Email Address:** J.Castellano@atlthompson.com

**Project Manager:** John Castellano

**Project Name:** Mission P11

**Project Number:** SU 01972-000-205

**Samples Collected By:** John

| Sample ID Description | Date Sampled | Time Sampled | # of Containers    | Preservative |       |   |       |             | Matrix |             |  | Analysis         | Sample Instructions |
|-----------------------|--------------|--------------|--------------------|--------------|-------|---|-------|-------------|--------|-------------|--|------------------|---------------------|
|                       |              |              |                    | Unpreserved  | HCl   | HNO <sub>3</sub>  | Other | Groundwater | Soil   | Air Summa # | Other  |                  |                     |
| HB1                   | 9/10/20      | 9:30a        | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 1                   |
| HB2                   |              | 9:40a        | 1                  | X            |       |   |       |             | X      |             | PAH  | 2'B <sub>6</sub> | 2                   |
| HB3                   |              | 10:20a       | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 3                   |
| HB4                   |              | 10:40a       | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 4                   |
| HB5                   |              | 11:00a       | 4                  | X            |       |   |       |             | X      |             | PAH, PH, H <sub>2</sub> SO <sub>4</sub> , R <sub>2</sub> PAH, VOC, TC <sub>10</sub> PAH, Z <sub>10</sub> PAH |                  |                     |
| HB6                   |              | 11:25a       | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 6                   |
| HB7                   |              | 11:45a       | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 7                   |
| HB8                   |              | 12:15a       | 1                  | X            |       |   |       |             | X      |             | PAH  | 2'B <sub>6</sub> | 8                   |
| HB9                   |              | 1:00a        | 1                  | X            |       |   |       |             | X      |             | PAH  | 1'B <sub>6</sub> | 9                   |
|                       |              |              |                    |              |       |   |       |             |        |             |  |                  | 10                  |
| Relinquished By:      | Date:        | Time:        | Received By:       | Date:        | Time: | Turnaround Time:  |       |             |        |             |  |                  |                     |
| <i>[Signature]</i>    | 9/10/20      | 3:00         | <i>[Signature]</i> | 9/10/20      | 5:00  | Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> |       |             |        |             |  |                  |                     |
| Relinquished By:      | Date:        | Time:        | Received By:       | Date:        | Time: |   |       |             |        |             |  |                  |                     |

Date Results Needed

2.4

Imen

*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.*

CTL Thompson, Inc.  
171 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y009128

Client: CTL Thompson  
Client Project ID: Minturn P11

Checklist Completed by: JG

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Date/time completed: 9/10/2020

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1, 24 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

| Requirement Description  | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is there ice present (document if blue ice is used)  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)   |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Additional Comments (if any):  |                                     |                                     |                                     |                   |

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jm

Date/Time Reviewed 9-11-20

Origins Laboratory, Inc.

*Jm*

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB1

9/10/2020 9:00:00AM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-01 (Soil)

## PAH by EPA 8270D

|                        |        |        |           |   |         |      |            |            |   |
|------------------------|--------|--------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0123 | 0.0204 | mg/kg dry | 5 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 | J |
| 2-Methylnaphthalene    | 0.0163 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Acenaphthene           | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Anthracene             | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Benzo(a)anthracene     | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Benzo(a)pyrene         | 0.0102 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Benzo(b)fluoranthene   | 0.0184 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Benzo(ghi)perylene     | 0.0102 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Benzo(k)fluoranthene   | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Chrysene               | 0.0123 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Dibenzo(a,h)anthracene | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Fluoranthene           | 0.0163 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Fluorene               | ND     | 0.0204 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0123 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Naphthalene            | 0.0102 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Phenanthrene           | 0.0123 | 0.0204 | "         | " | "       | JMB3 | "          | "          | J |
| Pyrene                 | 0.0204 | 0.0204 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

83 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB2

9/10/2020 9:40:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-02 (Soil)

## PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0136  | 0.00359 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/14/2020 |   |
| 2-Methylnaphthalene    | 0.0165  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND      | 0.00359 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | 0.00179 | 0.00359 | "         | " | "       | JMB3 | "          | "          | J |
| Anthracene             | 0.00287 | 0.00359 | "         | " | "       | JMB3 | "          | "          | J |
| Benzo(a)anthracene     | 0.0125  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0168  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.0398  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0204  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0108  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0208  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.00538 | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.0212  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | ND      | 0.00359 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0294  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0115  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0176  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0229  | 0.00359 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

73 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB3

9/10/2020 10:20:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-03 (Soil)

## PAH by EPA 8270D

|                        |        |        |           |   |         |      |            |            |   |
|------------------------|--------|--------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0126 | 0.0158 | mg/kg dry | 4 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 | J |
| 2-Methylnaphthalene    | 0.0158 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND     | 0.0158 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | ND     | 0.0158 | "         | " | "       | JMB3 | "          | "          | U |
| Anthracene             | ND     | 0.0158 | "         | " | "       | JMB3 | "          | "          | U |
| Benzo(a)anthracene     | 0.0205 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0379 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.0838 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0427 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0221 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0300 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.0111 | 0.0158 | "         | " | "       | JMB3 | "          | "          | J |
| Fluoranthene           | 0.0379 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | ND     | 0.0158 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0474 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0111 | 0.0158 | "         | " | "       | JMB3 | "          | "          | J |
| Phenanthrene           | 0.0190 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0506 | 0.0158 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

83 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB4

9/10/2020 10:40:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-04 (Soil)

## PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0233  | 0.00417 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |   |
| 2-Methylnaphthalene    | 0.0275  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND      | 0.00417 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | 0.00625 | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Anthracene             | 0.0100  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)anthracene     | 0.0675  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0709  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.123   | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0438  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0409  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0763  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.0138  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.110   | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | ND      | 0.00417 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0655  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0250  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0434  | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.111   | 0.00417 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

72 %

25-121

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Origins Laboratory, Inc.

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB5

9/10/2020 11:00:00AM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

**GEL Laboratories, LLC**  
Y009128-05 (Soil)

**Flash Point by EPA 1020A**

|               |      |      |            |   |         |     |            |            |
|---------------|------|------|------------|---|---------|-----|------------|------------|
| Setaflash-200 | >200 | 75.0 | Fahrenheit | 1 | 2037954 | VH1 | 09/10/2020 | 09/14/2020 |
|---------------|------|------|------------|---|---------|-----|------------|------------|

**PAH by EPA 8270D**

|                        |         |        |           |   |         |      |            |            |
|------------------------|---------|--------|-----------|---|---------|------|------------|------------|
| 1-Methylnaphthalene    | 0.0180  | 0.0139 | mg/kg dry | 4 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |
| 2-Methylnaphthalene    | 0.0222  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Acenaphthene           | ND      | 0.0139 | "         | " | "       | JMB3 | "          | " U        |
| Acenaphthylene         | ND      | 0.0139 | "         | " | "       | JMB3 | "          | " U        |
| Anthracene             | ND      | 0.0139 | "         | " | "       | JMB3 | "          | " U        |
| Benzo(a)anthracene     | 0.00970 | 0.0139 | "         | " | "       | JMB3 | "          | " J        |
| Benzo(a)pyrene         | 0.0125  | 0.0139 | "         | " | "       | JMB3 | "          | " J        |
| Benzo(b)fluoranthene   | 0.0250  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Benzo(ghi)perylene     | 0.0180  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Benzo(k)fluoranthene   | 0.00693 | 0.0139 | "         | " | "       | JMB3 | "          | " J        |
| Chrysene               | 0.0166  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Dibenzo(a,h)anthracene | ND      | 0.0139 | "         | " | "       | JMB3 | "          | " U        |
| Fluoranthene           | 0.0152  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Fluorene               | ND      | 0.0139 | "         | " | "       | JMB3 | "          | " U        |
| Indeno(1,2,3-cd)pyrene | 0.0194  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Naphthalene            | 0.0139  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Phenanthrene           | 0.0152  | 0.0139 | "         | " | "       | JMB3 | "          | "          |
| Pyrene                 | 0.0194  | 0.0139 | "         | " | "       | JMB3 | "          | "          |

Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB5

9/10/2020 11:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## GEL Laboratories, LLC

Y009128-05 (Soil)

### PAH by EPA 8270D

|                               |      |        |             |            |            |
|-------------------------------|------|--------|-------------|------------|------------|
| Surrogate: 5-alpha-Androstane | 69 % | 25-121 | 20396<br>75 | 09/14/2020 | 09/15/2020 |
|-------------------------------|------|--------|-------------|------------|------------|

### pH in Soil by EPA 9045D

|    |      |          |   |         |     |            |            |
|----|------|----------|---|---------|-----|------------|------------|
| pH | 7.49 | pH Units | 1 | B011108 | KDK | 09/11/2020 | 09/11/2020 |
|----|------|----------|---|---------|-----|------------|------------|

### RCRA 8 Metals by EPA 6010C

|          |      |       |           |   |         |     |            |            |   |
|----------|------|-------|-----------|---|---------|-----|------------|------------|---|
| Arsenic  | 1.80 | 3.09  | mg/kg dry | 1 | 2039783 | JWJ | 09/14/2020 | 09/14/2020 | J |
| Barium   | 129  | 0.515 | "         | " | "       | JWJ | "          | "          |   |
| Cadmium  | ND   | 0.515 | "         | " | "       | JWJ | "          | "          | U |
| Chromium | 17.1 | 1.03  | "         | " | "       | JWJ | "          | "          |   |
| Lead     | 19.0 | 2.06  | "         | " | "       | JWJ | "          | "          |   |
| Selenium | ND   | 3.09  | "         | " | "       | JWJ | "          | "          | U |
| Silver   | ND   | 0.515 | "         | " | "       | JWJ | "          | "          | U |

### RCRA 8 Metals by EPA 7471

|         |         |        |           |   |         |      |   |            |   |
|---------|---------|--------|-----------|---|---------|------|---|------------|---|
| Mercury | 0.00968 | 0.0236 | mg/kg dry | 1 | 2040105 | MTM1 | " | 09/15/2020 | J |
|---------|---------|--------|-----------|---|---------|------|---|------------|---|

### TCLP Metals by EPA 1311/6010C

|      |    |       |      |   |         |     |            |            |   |
|------|----|-------|------|---|---------|-----|------------|------------|---|
| Lead | ND | 0.200 | mg/L | 1 | 2040504 | JWJ | 09/15/2020 | 09/15/2020 | U |
|------|----|-------|------|---|---------|-----|------------|------------|---|

Origins Laboratory, Inc.



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1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## HB5

9/10/2020 11:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## GEL Laboratories, LLC

Y009128-05 (Soil)

### VOC by EPA 8260D

|                             |    |         |       |   |         |     |            |            |    |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|----|
| 1,1,1,2-Tetrachloroethane   | ND | 0.00200 | mg/kg | 1 | B011414 | KDK | 09/14/2020 | 09/15/2020 | Ua |
| 1,1,1-Trichloroethane       | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,1,2,2-Tetrachloroethane   | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,1,2-Trichloroethane       | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,1-Dichloroethane          | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,1-Dichloroethene          | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,1-Dichloropropene         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2,3-Trichlorobenzene      | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2,3-Trichloropropane      | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2,4-Trichlorobenzene      | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2-Dibromo-3-chloropropane | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2-Dibromoethane (EDB)     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2-Dichlorobenzene         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2-Dichloroethane          | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,2-Dichloropropane         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,3-Dichlorobenzene         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 1,3-Dichloropropane         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |

Origins Laboratory, Inc.



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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## HB5

9/10/2020 11:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y009128-05 (Soil)

### VOC by EPA 8260D

|                      |    |         |       |   |         |     |            |            |    |
|----------------------|----|---------|-------|---|---------|-----|------------|------------|----|
| 1,4-Dichlorobenzene  | ND | 0.00200 | mg/kg | 1 | B011414 | KDK | 09/14/2020 | 09/15/2020 | Ua |
| 2,2-Dichloropropane  | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 2-Butanone           | ND | 0.0100  | "     | " | "       | KDK | "          | "          | Ua |
| 2-Chlorotoluene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 2-Hexanone           | ND | 0.0100  | "     | " | "       | KDK | "          | "          | Ua |
| 4-Chlorotoluene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 4-Isopropyltoluene   | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| 4-Methyl-2-pentanone | ND | 0.0100  | "     | " | "       | KDK | "          | "          | Ua |
| Acetone              | ND | 0.0200  | "     | " | "       | KDK | "          | "          | Ua |
| Benzene              | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Bromobenzene         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Bromochloromethane   | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Bromodichloromethane | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Bromoform            | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Bromomethane         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Carbon disulfide     | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |
| Carbon tetrachloride | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Chlorobenzene        | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Chloroethane         | ND | 0.00500 | "     | " | "       | KDK | "          | "          | Ua |

Origins Laboratory, Inc.



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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## HB5

9/10/2020 11:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

### Origins Laboratory, Inc. Y009128-05 (Soil)

#### VOC by EPA 8260D

|                         |    |         |       |   |        |     |            |            |    |
|-------------------------|----|---------|-------|---|--------|-----|------------|------------|----|
| Chloroform              | ND | 0.00200 | mg/kg | 1 | B01414 | KDK | 09/14/2020 | 09/15/2020 | Ua |
| Chloromethane           | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| cis-1,2-Dichloroethene  | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| cis-1,3-Dichloropropene | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Dibromochloromethane    | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Dibromomethane          | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Ethylbenzene            | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Hexachlorobutadiene     | ND | 0.00500 | "     | " | "      | KDK | "          | "          | Ua |
| Iodomethane             | ND | 0.0150  | "     | " | "      | KDK | "          | "          | Ua |
| Isopropylbenzene        | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| m,p-Xylene              | ND | 0.00400 | "     | " | "      | KDK | "          | "          | Ua |
| Methyl tert-Butyl Ether | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Methylene Chloride      | ND | 0.0200  | "     | " | "      | KDK | "          | "          | Ua |
| Naphthalene             | ND | 0.0100  | "     | " | "      | KDK | "          | "          | Ua |
| n-Butylbenzene          | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| n-Propylbenzene         | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| o-Xylene                | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| sec-Butylbenzene        | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |
| Styrene                 | ND | 0.00200 | "     | " | "      | KDK | "          | "          | Ua |

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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## HB5

9/10/2020 11:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y009128-05 (Soil)

### VOC by EPA 8260D

|                           |    |         |       |   |         |     |            |            |    |
|---------------------------|----|---------|-------|---|---------|-----|------------|------------|----|
| tert-Butylbenzene         | ND | 0.00200 | mg/kg | 1 | B011414 | KDK | 09/14/2020 | 09/15/2020 | Ua |
| Tetrachloroethene         | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Toluene                   | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| trans-1,2-Dichloroethene  | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| trans-1,3-Dichloropropene | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Trichloroethene           | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |
| Trichlorofluoromethane    | ND | 0.00300 | "     | " | "       | KDK | "          | "          | Ua |
| Vinyl chloride            | ND | 0.00200 | "     | " | "       | KDK | "          | "          | Ua |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 93.7 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8            | 105 %  | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 70-130 | " | " | " |

Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB6

9/10/2020 11:25:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-06 (Soil)

## PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0159  | 0.00362 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |   |
| 2-Methylnaphthalene    | 0.0195  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | 0.00217 | 0.00362 | "         | " | "       | JMB3 | "          | "          | J |
| Acenaphthylene         | 0.00253 | 0.00362 | "         | " | "       | JMB3 | "          | "          | J |
| Anthracene             | 0.00579 | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)anthracene     | 0.0355  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0423  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.0593  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0260  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0199  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0398  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.00724 | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.0445  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | 0.00217 | 0.00362 | "         | " | "       | JMB3 | "          | "          | J |
| Indeno(1,2,3-cd)pyrene | 0.0351  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0119  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0268  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0554  | 0.00362 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

68 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB7

9/10/2020 11:45:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## GEL Laboratories, LLC

Y009128-07 (Soil)

### PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.00750 | 0.00357 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |   |
| 2-Methylnaphthalene    | 0.00822 | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND      | 0.00357 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | ND      | 0.00357 | "         | " | "       | JMB3 | "          | "          | U |
| Anthracene             | ND      | 0.00357 | "         | " | "       | JMB3 | "          | "          | U |
| Benzo(a)anthracene     | 0.00750 | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0104  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.0411  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0204  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0100  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0168  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.00500 | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.0129  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | ND      | 0.00357 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0347  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.00857 | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0132  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0111  | 0.00357 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

60 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB8

9/10/2020 12:15:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-08 (Soil)

## PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0442  | 0.00368 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |   |
| 2-Methylnaphthalene    | 0.0530  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND      | 0.00368 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | 0.00405 | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Anthracene             | 0.00589 | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)anthracene     | 0.0210  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0291  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.119   | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0508  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0287  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0512  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.0121  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.0427  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | 0.00184 | 0.00368 | "         | " | "       | JMB3 | "          | "          | J |
| Indeno(1,2,3-cd)pyrene | 0.0876  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0387  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0449  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0342  | 0.00368 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

64 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

HB9

9/10/2020 1:00:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

GEL Laboratories, LLC

Y009128-09 (Soil)

## PAH by EPA 8270D

|                        |         |         |           |   |         |      |            |            |   |
|------------------------|---------|---------|-----------|---|---------|------|------------|------------|---|
| 1-Methylnaphthalene    | 0.0249  | 0.00372 | mg/kg dry | 1 | 2039675 | JMB3 | 09/14/2020 | 09/15/2020 |   |
| 2-Methylnaphthalene    | 0.0283  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Acenaphthene           | ND      | 0.00372 | "         | " | "       | JMB3 | "          | "          | U |
| Acenaphthylene         | 0.00297 | 0.00372 | "         | " | "       | JMB3 | "          | "          | J |
| Anthracene             | 0.00446 | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)anthracene     | 0.0178  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(a)pyrene         | 0.0268  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(b)fluoranthene   | 0.111   | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(ghi)perylene     | 0.0494  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Benzo(k)fluoranthene   | 0.0260  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Chrysene               | 0.0461  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Dibenzo(a,h)anthracene | 0.0115  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Fluoranthene           | 0.0357  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Fluorene               | ND      | 0.00372 | "         | " | "       | JMB3 | "          | "          | U |
| Indeno(1,2,3-cd)pyrene | 0.0844  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Naphthalene            | 0.0249  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Phenanthrene           | 0.0353  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |
| Pyrene                 | 0.0305  | 0.00372 | "         | " | "       | JMB3 | "          | "          |   |

Surrogate: 5-alpha-Androstane

63 %

25-121

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Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B011414 - EPA 5030 (soil)**

**Blank (B011414-BLK1)**

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                             |    |         |       |  |  |  |  |  |  |    |
|-----------------------------|----|---------|-------|--|--|--|--|--|--|----|
| 1,1,1,2-Tetrachloroethane   | ND | 0.00200 | mg/kg |  |  |  |  |  |  | Ua |
| 1,1,1-Trichloroethane       | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,1,2,2-Tetrachloroethane   | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,1,2-Trichloroethane       | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,1-Dichloroethane          | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,1-Dichloroethene          | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,1-Dichloropropene         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,2,3-Trichlorobenzene      | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| 1,2,3-Trichloropropane      | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| 1,2,4-Trichlorobenzene      | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,2-Dibromo-3-chloropropane | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| 1,2-Dibromoethane (EDB)     | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,2-Dichlorobenzene         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,2-Dichloroethane          | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,2-Dichloropropane         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,3-Dichlorobenzene         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,3-Dichloropropane         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 1,4-Dichlorobenzene         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 2,2-Dichloropropane         | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 2-Butanone                  | ND | 0.0100  | "     |  |  |  |  |  |  | Ua |
| 2-Chlorotoluene             | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 2-Hexanone                  | ND | 0.0100  | "     |  |  |  |  |  |  | Ua |
| 4-Chlorotoluene             | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| 4-Isopropyltoluene          | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |

Origins Laboratory, Inc.



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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B011414 - EPA 5030 (soil)**

**Blank (B011414-BLK1)**

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                         |    |         |       |  |  |  |  |  |  |    |
|-------------------------|----|---------|-------|--|--|--|--|--|--|----|
| 4-Methyl-2-pentanone    | ND | 0.0100  | mg/kg |  |  |  |  |  |  | Ua |
| Acetone                 | ND | 0.0200  | "     |  |  |  |  |  |  | Ua |
| Benzene                 | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Bromobenzene            | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Bromochloromethane      | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Bromodichloromethane    | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Bromoform               | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Bromomethane            | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Carbon disulfide        | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| Carbon tetrachloride    | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Chlorobenzene           | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Chloroethane            | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| Chloroform              | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Chloromethane           | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| cis-1,2-Dichloroethene  | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| cis-1,3-Dichloropropene | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Dibromochloromethane    | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Dibromomethane          | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Ethylbenzene            | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Hexachlorobutadiene     | ND | 0.00500 | "     |  |  |  |  |  |  | Ua |
| Iodomethane             | ND | 0.0150  | "     |  |  |  |  |  |  | Ua |
| Isopropylbenzene        | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| m,p-Xylene              | ND | 0.00400 | "     |  |  |  |  |  |  | Ua |
| Methyl tert-Butyl Ether | ND | 0.00200 | "     |  |  |  |  |  |  | Ua |
| Methylene Chloride      | ND | 0.0200  | "     |  |  |  |  |  |  | Ua |
| Naphthalene             | ND | 0.0100  | "     |  |  |  |  |  |  | Ua |

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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B011414 - EPA 5030 (soil)**

**Blank (B011414-BLK1)**

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                                  |      |         |       |       |      |  |        |  |  |    |
|----------------------------------|------|---------|-------|-------|------|--|--------|--|--|----|
| n-Butylbenzene                   | ND   | 0.00200 | mg/kg |       |      |  |        |  |  | Ua |
| n-Propylbenzene                  | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| o-Xylene                         | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| sec-Butylbenzene                 | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Styrene                          | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| tert-Butylbenzene                | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Tetrachloroethene                | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Toluene                          | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| trans-1,2-Dichloroethene         | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| trans-1,3-Dichloropropene        | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Trichloroethene                  | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Trichlorofluoromethane           | ND   | 0.00300 | "     |       |      |  |        |  |  | Ua |
| Vinyl chloride                   | ND   | 0.00200 | "     |       |      |  |        |  |  | Ua |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 |         | "     | 0.125 | 90.3 |  | 70-130 |  |  |    |
| Surrogate: Toluene-d8            | 0.13 |         | "     | 0.125 | 104  |  | 70-130 |  |  |    |
| Surrogate: 4-Bromofluorobenzene  | 0.12 |         | "     | 0.125 | 99.9 |  | 70-130 |  |  |    |

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

Batch B011414 - EPA 5030 (soil)

LCS (B011414-BS1)

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                             |        |         |       |        |  |      |        |  |  |  |
|-----------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 1,1,1,2-Tetrachloroethane   | 0.0535 | 0.00200 | mg/kg | 0.0500 |  | 107  | 70-130 |  |  |  |
| 1,1,1-Trichloroethane       | 0.0474 | 0.00200 | "     | 0.0500 |  | 94.8 | 70-130 |  |  |  |
| 1,1,2,2-Tetrachloroethane   | 0.0552 | 0.00200 | "     | 0.0500 |  | 110  | 70-130 |  |  |  |
| 1,1,2-Trichloroethane       | 0.0523 | 0.00200 | "     | 0.0500 |  | 105  | 70-130 |  |  |  |
| 1,1-Dichloroethane          | 0.0505 | 0.00200 | "     | 0.0500 |  | 101  | 70-130 |  |  |  |
| 1,1-Dichloroethene          | 0.0499 | 0.00200 | "     | 0.0500 |  | 99.8 | 70-130 |  |  |  |
| 1,1-Dichloropropene         | 0.0503 | 0.00200 | "     | 0.0500 |  | 101  | 70-130 |  |  |  |
| 1,2,3-Trichlorobenzene      | 0.0474 | 0.00500 | "     | 0.0500 |  | 94.8 | 70-130 |  |  |  |
| 1,2,3-Trichloropropane      | 0.0508 | 0.00500 | "     | 0.0500 |  | 102  | 70-130 |  |  |  |
| 1,2,4-Trichlorobenzene      | 0.0482 | 0.00500 | "     | 0.0500 |  | 96.5 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene      | 0.0530 | 0.00200 | "     | 0.0500 |  | 106  | 70-130 |  |  |  |
| 1,2-Dibromo-3-chloropropane | 0.0412 | 0.00500 | "     | 0.0500 |  | 82.4 | 70-130 |  |  |  |
| 1,2-Dibromoethane (EDB)     | 0.0510 | 0.00200 | "     | 0.0500 |  | 102  | 70-130 |  |  |  |
| 1,2-Dichlorobenzene         | 0.0501 | 0.00200 | "     | 0.0500 |  | 100  | 70-130 |  |  |  |
| 1,2-Dichloroethane          | 0.0424 | 0.00200 | "     | 0.0500 |  | 84.7 | 70-130 |  |  |  |
| 1,2-Dichloropropane         | 0.0529 | 0.00200 | "     | 0.0500 |  | 106  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene      | 0.0529 | 0.00200 | "     | 0.0500 |  | 106  | 70-130 |  |  |  |
| 1,3-Dichlorobenzene         | 0.0515 | 0.00200 | "     | 0.0500 |  | 103  | 70-130 |  |  |  |
| 1,3-Dichloropropane         | 0.0519 | 0.00200 | "     | 0.0500 |  | 104  | 70-130 |  |  |  |
| 1,4-Dichlorobenzene         | 0.0496 | 0.00200 | "     | 0.0500 |  | 99.3 | 70-130 |  |  |  |
| 2,2-Dichloropropane         | 0.0464 | 0.00200 | "     | 0.0500 |  | 92.8 | 70-130 |  |  |  |
| 2-Butanone                  | 0.266  | 0.0100  | "     | 0.250  |  | 106  | 70-130 |  |  |  |
| 2-Chlorotoluene             | 0.0522 | 0.00200 | "     | 0.0500 |  | 104  | 70-130 |  |  |  |
| 2-Hexanone                  | 0.277  | 0.0100  | "     | 0.250  |  | 111  | 70-130 |  |  |  |
| 4-Chlorotoluene             | 0.0534 | 0.00200 | "     | 0.0500 |  | 107  | 70-130 |  |  |  |
| 4-Isopropyltoluene          | 0.0542 | 0.00200 | "     | 0.0500 |  | 108  | 70-130 |  |  |  |

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

Batch B011414 - EPA 5030 (soil)

LCS (B011414-BS1)

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                         |        |         |       |        |  |      |        |  |  |  |
|-------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 4-Methyl-2-pentanone    | 0.282  | 0.0100  | mg/kg | 0.250  |  | 113  | 70-130 |  |  |  |
| Acetone                 | 0.237  | 0.0200  | "     | 0.250  |  | 94.7 | 70-130 |  |  |  |
| Benzene                 | 0.0515 | 0.00200 | "     | 0.0500 |  | 103  | 70-130 |  |  |  |
| Bromobenzene            | 0.0523 | 0.00200 | "     | 0.0500 |  | 105  | 70-130 |  |  |  |
| Bromochloromethane      | 0.0488 | 0.00200 | "     | 0.0500 |  | 97.6 | 70-130 |  |  |  |
| Bromodichloromethane    | 0.0493 | 0.00200 | "     | 0.0500 |  | 98.6 | 70-130 |  |  |  |
| Bromoform               | 0.0524 | 0.00200 | "     | 0.0500 |  | 105  | 70-130 |  |  |  |
| Bromomethane            | 0.0510 | 0.00200 | "     | 0.0500 |  | 102  | 70-130 |  |  |  |
| Carbon disulfide        | 0.0562 | 0.00500 | "     | 0.0500 |  | 112  | 70-130 |  |  |  |
| Carbon tetrachloride    | 0.0476 | 0.00200 | "     | 0.0500 |  | 95.2 | 70-130 |  |  |  |
| Chlorobenzene           | 0.0508 | 0.00200 | "     | 0.0500 |  | 102  | 70-130 |  |  |  |
| Chloroethane            | 0.0584 | 0.00500 | "     | 0.0500 |  | 117  | 70-130 |  |  |  |
| Chloroform              | 0.0484 | 0.00200 | "     | 0.0500 |  | 96.8 | 70-130 |  |  |  |
| Chloromethane           | 0.0453 | 0.00200 | "     | 0.0500 |  | 90.7 | 70-130 |  |  |  |
| cis-1,2-Dichloroethene  | 0.0500 | 0.00200 | "     | 0.0500 |  | 100  | 70-130 |  |  |  |
| cis-1,3-Dichloropropene | 0.0544 | 0.00200 | "     | 0.0500 |  | 109  | 70-130 |  |  |  |
| Dibromochloromethane    | 0.0521 | 0.00200 | "     | 0.0500 |  | 104  | 70-130 |  |  |  |
| Dibromomethane          | 0.0462 | 0.00200 | "     | 0.0500 |  | 92.4 | 70-130 |  |  |  |
| Ethylbenzene            | 0.0550 | 0.00200 | "     | 0.0500 |  | 110  | 70-130 |  |  |  |
| Hexachlorobutadiene     | 0.0474 | 0.00500 | "     | 0.0500 |  | 94.8 | 70-130 |  |  |  |
| Iodomethane             | 0.0542 | 0.0150  | "     | 0.0500 |  | 108  | 70-130 |  |  |  |
| Isopropylbenzene        | 0.0545 | 0.00200 | "     | 0.0500 |  | 109  | 70-130 |  |  |  |
| m,p-Xylene              | 0.112  | 0.00400 | "     | 0.100  |  | 112  | 70-130 |  |  |  |
| Methyl tert-Butyl Ether | 0.0448 | 0.00200 | "     | 0.0500 |  | 89.5 | 70-130 |  |  |  |
| Methylene Chloride      | 0.0491 | 0.0200  | "     | 0.0500 |  | 98.2 | 70-130 |  |  |  |
| Naphthalene             | 0.0513 | 0.0100  | "     | 0.0500 |  | 103  | 70-130 |  |  |  |

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1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

Batch B011414 - EPA 5030 (soil)

LCS (B011414-BS1)

Prepared: 09/14/2020 Analyzed: 09/15/2020

|                                  |        |         |       |        |  |      |        |  |  |  |
|----------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| n-Butylbenzene                   | 0.0554 | 0.00200 | mg/kg | 0.0500 |  | 111  | 70-130 |  |  |  |
| n-Propylbenzene                  | 0.0553 | 0.00200 | "     | 0.0500 |  | 111  | 70-130 |  |  |  |
| o-Xylene                         | 0.0545 | 0.00200 | "     | 0.0500 |  | 109  | 70-130 |  |  |  |
| sec-Butylbenzene                 | 0.0560 | 0.00200 | "     | 0.0500 |  | 112  | 70-130 |  |  |  |
| Styrene                          | 0.0544 | 0.00200 | "     | 0.0500 |  | 109  | 70-130 |  |  |  |
| tert-Butylbenzene                | 0.0537 | 0.00200 | "     | 0.0500 |  | 107  | 70-130 |  |  |  |
| Tetrachloroethene                | 0.0498 | 0.00200 | "     | 0.0500 |  | 99.5 | 70-130 |  |  |  |
| Toluene                          | 0.0531 | 0.00200 | "     | 0.0500 |  | 106  | 70-130 |  |  |  |
| trans-1,2-Dichloroethene         | 0.0509 | 0.00200 | "     | 0.0500 |  | 102  | 70-130 |  |  |  |
| trans-1,3-Dichloropropene        | 0.0523 | 0.00200 | "     | 0.0500 |  | 105  | 70-130 |  |  |  |
| Trichloroethene                  | 0.0494 | 0.00200 | "     | 0.0500 |  | 98.8 | 70-130 |  |  |  |
| Trichlorofluoromethane           | 0.0449 | 0.00300 | "     | 0.0500 |  | 89.8 | 70-130 |  |  |  |
| Vinyl chloride                   | 0.0465 | 0.00200 | "     | 0.0500 |  | 93.0 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11   |         | "     | 0.125  |  | 87.2 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.13   |         | "     | 0.125  |  | 103  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |         | "     | 0.125  |  | 101  | 70-130 |  |  |  |

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1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B011414 - EPA 5030 (soil)

| Matrix Spike (B011414-MS1)  |        | Source: Y009139-01 |       |        | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |        |  |  |       |
|-----------------------------|--------|--------------------|-------|--------|---|------|--------|--|--|-------|
| 1,1,1,2-Tetrachloroethane   | 0.0479 | 0.00200            | mg/kg | 0.0500 | ND  | 95.7 | 70-130 |  |  |       |
| 1,1,1-Trichloroethane       | 0.0415 | 0.00200            | "     | 0.0500 | ND  | 83.1 | 70-130 |  |  |       |
| 1,1,2,2-Tetrachloroethane   | 0.0495 | 0.00200            | "     | 0.0500 | ND  | 99.0 | 70-130 |  |  |       |
| 1,1,2-Trichloroethane       | 0.0471 | 0.00200            | "     | 0.0500 | ND  | 94.3 | 70-130 |  |  |       |
| 1,1-Dichloroethane          | 0.0458 | 0.00200            | "     | 0.0500 | ND  | 91.7 | 70-130 |  |  |       |
| 1,1-Dichloroethene          | 0.0426 | 0.00200            | "     | 0.0500 | ND  | 85.2 | 70-130 |  |  |       |
| 1,1-Dichloropropene         | 0.0413 | 0.00200            | "     | 0.0500 | ND  | 82.6 | 70-130 |  |  |       |
| 1,2,3-Trichlorobenzene      | 0.0279 | 0.00500            | "     | 0.0500 | ND  | 55.8 | 70-130 |  |  | QM-07 |
| 1,2,3-Trichloropropane      | 0.0453 | 0.00500            | "     | 0.0500 | ND  | 90.5 | 70-130 |  |  |       |
| 1,2,4-Trichlorobenzene      | 0.0279 | 0.00500            | "     | 0.0500 | ND  | 55.8 | 70-130 |  |  | QM-07 |
| 1,2,4-Trimethylbenzene      | 0.0405 | 0.00200            | "     | 0.0500 | ND  | 80.9 | 70-130 |  |  |       |
| 1,2-Dibromo-3-chloropropane | 0.0357 | 0.00500            | "     | 0.0500 | ND  | 71.3 | 70-130 |  |  |       |
| 1,2-Dibromoethane (EDB)     | 0.0444 | 0.00200            | "     | 0.0500 | ND  | 88.9 | 70-130 |  |  |       |
| 1,2-Dichlorobenzene         | 0.0359 | 0.00200            | "     | 0.0500 | ND  | 71.8 | 70-130 |  |  |       |
| 1,2-Dichloroethane          | 0.0395 | 0.00200            | "     | 0.0500 | ND  | 79.0 | 70-130 |  |  |       |
| 1,2-Dichloropropane         | 0.0479 | 0.00200            | "     | 0.0500 | ND  | 95.9 | 70-130 |  |  |       |
| 1,3,5-Trimethylbenzene      | 0.0410 | 0.00200            | "     | 0.0500 | ND  | 82.0 | 70-130 |  |  |       |
| 1,3-Dichlorobenzene         | 0.0356 | 0.00200            | "     | 0.0500 | ND  | 71.2 | 70-130 |  |  |       |
| 1,3-Dichloropropane         | 0.0463 | 0.00200            | "     | 0.0500 | ND  | 92.5 | 70-130 |  |  |       |
| 1,4-Dichlorobenzene         | 0.0349 | 0.00200            | "     | 0.0500 | ND  | 69.8 | 70-130 |  |  | QM-07 |
| 2,2-Dichloropropane         | 0.0402 | 0.00200            | "     | 0.0500 | ND  | 80.4 | 70-130 |  |  |       |
| 2-Butanone                  | 0.253  | 0.0100             | "     | 0.250  | ND  | 101  | 70-130 |  |  |       |
| 2-Chlorotoluene             | 0.0380 | 0.00200            | "     | 0.0500 | ND  | 76.1 | 70-130 |  |  |       |
| 2-Hexanone                  | 0.249  | 0.0100             | "     | 0.250  | ND  | 99.6 | 70-130 |  |  |       |
| 4-Chlorotoluene             | 0.0404 | 0.00200            | "     | 0.0500 | ND  | 80.8 | 70-130 |  |  |       |
| 4-Isopropyltoluene          | 0.0391 | 0.00200            | "     | 0.0500 | ND  | 78.2 | 70-130 |  |  |       |

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1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B011414 - EPA 5030 (soil)

| Matrix Spike (B011414-MS1) |        | Source: Y009139-01 |       |        | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |        |  |  |       |
|----------------------------|--------|--------------------|-------|--------|---|------|--------|--|--|-------|
| 4-Methyl-2-pentanone       | 0.262  | 0.0100             | mg/kg | 0.250  | ND  | 105  | 70-130 |  |  |       |
| Acetone                    | 0.228  | 0.0200             | "     | 0.250  | ND  | 91.4 | 70-130 |  |  |       |
| Benzene                    | 0.0449 | 0.00200            | "     | 0.0500 | ND  | 89.7 | 70-130 |  |  |       |
| Bromobenzene               | 0.0404 | 0.00200            | "     | 0.0500 | ND  | 80.9 | 70-130 |  |  |       |
| Bromochloromethane         | 0.0442 | 0.00200            | "     | 0.0500 | ND  | 88.4 | 70-130 |  |  |       |
| Bromodichloromethane       | 0.0446 | 0.00200            | "     | 0.0500 | ND  | 89.2 | 70-130 |  |  |       |
| Bromoform                  | 0.0461 | 0.00200            | "     | 0.0500 | ND  | 92.2 | 70-130 |  |  |       |
| Bromomethane               | 0.0480 | 0.00200            | "     | 0.0500 | ND  | 95.9 | 70-130 |  |  |       |
| Carbon disulfide           | 0.0424 | 0.00500            | "     | 0.0500 | ND  | 84.7 | 70-130 |  |  |       |
| Carbon tetrachloride       | 0.0402 | 0.00200            | "     | 0.0500 | ND  | 80.4 | 70-130 |  |  |       |
| Chlorobenzene              | 0.0397 | 0.00200            | "     | 0.0500 | ND  | 79.4 | 70-130 |  |  |       |
| Chloroethane               | 0.0575 | 0.00500            | "     | 0.0500 | ND  | 115  | 70-130 |  |  |       |
| Chloroform                 | 0.0440 | 0.00200            | "     | 0.0500 | ND  | 88.0 | 70-130 |  |  |       |
| Chloromethane              | 0.0455 | 0.00200            | "     | 0.0500 | ND  | 91.0 | 70-130 |  |  |       |
| cis-1,2-Dichloroethene     | 0.0434 | 0.00200            | "     | 0.0500 | ND  | 86.7 | 70-130 |  |  |       |
| cis-1,3-Dichloropropene    | 0.0459 | 0.00200            | "     | 0.0500 | ND  | 91.9 | 70-130 |  |  |       |
| Dibromochloromethane       | 0.0459 | 0.00200            | "     | 0.0500 | ND  | 91.9 | 70-130 |  |  |       |
| Dibromomethane             | 0.0418 | 0.00200            | "     | 0.0500 | ND  | 83.6 | 70-130 |  |  |       |
| Ethylbenzene               | 0.0447 | 0.00200            | "     | 0.0500 | ND  | 89.5 | 70-130 |  |  |       |
| Hexachlorobutadiene        | 0.0266 | 0.00500            | "     | 0.0500 | ND  | 53.2 | 70-130 |  |  | QM-07 |
| Iodomethane                | 0.0455 | 0.0150             | "     | 0.0500 | ND  | 91.0 | 70-130 |  |  |       |
| Isopropylbenzene           | 0.0431 | 0.00200            | "     | 0.0500 | ND  | 86.2 | 70-130 |  |  |       |
| m,p-Xylene                 | 0.0894 | 0.00400            | "     | 0.100  | ND  | 89.4 | 70-130 |  |  |       |
| Methyl tert-Butyl Ether    | 0.0435 | 0.00200            | "     | 0.0500 | ND  | 86.9 | 70-130 |  |  |       |
| Methylene Chloride         | 0.0473 | 0.0200             | "     | 0.0500 | ND  | 94.6 | 70-130 |  |  |       |
| Naphthalene                | 0.0333 | 0.0100             | "     | 0.0500 | ND  | 66.7 | 70-130 |  |  | QM-07 |

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B011414 - EPA 5030 (soil)

| Matrix Spike (B011414-MS1)       |        | Source: Y009139-01 |       |        | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |        |  |  |  |
|----------------------------------|--------|--------------------|-------|--------|---|------|--------|--|--|--|
| n-Butylbenzene                   | 0.0367 | 0.00200            | mg/kg | 0.0500 | ND  | 73.4 | 70-130 |  |  |  |
| n-Propylbenzene                  | 0.0412 | 0.00200            | "     | 0.0500 | ND  | 82.4 | 70-130 |  |  |  |
| o-Xylene                         | 0.0452 | 0.00200            | "     | 0.0500 | ND  | 90.3 | 70-130 |  |  |  |
| sec-Butylbenzene                 | 0.0404 | 0.00200            | "     | 0.0500 | ND  | 80.8 | 70-130 |  |  |  |
| Styrene                          | 0.0420 | 0.00200            | "     | 0.0500 | ND  | 84.0 | 70-130 |  |  |  |
| tert-Butylbenzene                | 0.0411 | 0.00200            | "     | 0.0500 | ND  | 82.3 | 70-130 |  |  |  |
| Tetrachloroethene                | 0.0388 | 0.00200            | "     | 0.0500 | ND  | 77.5 | 70-130 |  |  |  |
| Toluene                          | 0.0437 | 0.00200            | "     | 0.0500 | ND  | 87.5 | 70-130 |  |  |  |
| trans-1,2-Dichloroethene         | 0.0418 | 0.00200            | "     | 0.0500 | ND  | 83.6 | 70-130 |  |  |  |
| trans-1,3-Dichloropropene        | 0.0434 | 0.00200            | "     | 0.0500 | ND  | 86.9 | 70-130 |  |  |  |
| Trichloroethene                  | 0.0408 | 0.00200            | "     | 0.0500 | ND  | 81.6 | 70-130 |  |  |  |
| Trichlorofluoromethane           | 0.0440 | 0.00300            | "     | 0.0500 | ND  | 88.1 | 70-130 |  |  |  |
| Vinyl chloride                   | 0.0450 | 0.00200            | "     | 0.0500 | ND  | 90.1 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11   |                    | "     | 0.125  |   | 89.9 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.13   |                    | "     | 0.125  |   | 102  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |                    | "     | 0.125  |   | 102  | 70-130 |  |  |  |

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

#### Batch B011414 - EPA 5030 (soil)

| Matrix Spike Dup (B011414-MSD1) |        | Source: Y009139-01 |       |        | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |        |        |    |       |
|---------------------------------|--------|--------------------|-------|--------|---|------|--------|--------|----|-------|
| 1,1,1,2-Tetrachloroethane       | 0.0477 | 0.00200            | mg/kg | 0.0500 | ND  | 95.4 | 70-130 | 0.335  | 20 |       |
| 1,1,1-Trichloroethane           | 0.0418 | 0.00200            | "     | 0.0500 | ND  | 83.7 | 70-130 | 0.720  | 20 |       |
| 1,1,2,2-Tetrachloroethane       | 0.0501 | 0.00200            | "     | 0.0500 | ND  | 100  | 70-130 | 1.16   | 20 |       |
| 1,1,2-Trichloroethane           | 0.0477 | 0.00200            | "     | 0.0500 | ND  | 95.4 | 70-130 | 1.18   | 20 |       |
| 1,1-Dichloroethane              | 0.0463 | 0.00200            | "     | 0.0500 | ND  | 92.7 | 70-130 | 1.08   | 20 |       |
| 1,1-Dichloroethene              | 0.0428 | 0.00200            | "     | 0.0500 | ND  | 85.6 | 70-130 | 0.421  | 20 |       |
| 1,1-Dichloropropene             | 0.0417 | 0.00200            | "     | 0.0500 | ND  | 83.5 | 70-130 | 1.06   | 20 |       |
| 1,2,3-Trichlorobenzene          | 0.0278 | 0.00500            | "     | 0.0500 | ND  | 55.6 | 70-130 | 0.287  | 20 | QM-07 |
| 1,2,3-Trichloropropane          | 0.0458 | 0.00500            | "     | 0.0500 | ND  | 91.6 | 70-130 | 1.19   | 20 |       |
| 1,2,4-Trichlorobenzene          | 0.0280 | 0.00500            | "     | 0.0500 | ND  | 55.9 | 70-130 | 0.287  | 20 | QM-07 |
| 1,2,4-Trimethylbenzene          | 0.0398 | 0.00200            | "     | 0.0500 | ND  | 79.6 | 70-130 | 1.64   | 20 |       |
| 1,2-Dibromo-3-chloropropane     | 0.0361 | 0.00500            | "     | 0.0500 | ND  | 72.3 | 70-130 | 1.34   | 20 |       |
| 1,2-Dibromoethane (EDB)         | 0.0451 | 0.00200            | "     | 0.0500 | ND  | 90.2 | 70-130 | 1.52   | 20 |       |
| 1,2-Dichlorobenzene             | 0.0359 | 0.00200            | "     | 0.0500 | ND  | 71.8 | 70-130 | 0.0557 | 20 |       |
| 1,2-Dichloroethane              | 0.0395 | 0.00200            | "     | 0.0500 | ND  | 79.0 | 70-130 | 0.0506 | 20 |       |
| 1,2-Dichloropropane             | 0.0482 | 0.00200            | "     | 0.0500 | ND  | 96.4 | 70-130 | 0.541  | 20 |       |
| 1,3,5-Trimethylbenzene          | 0.0404 | 0.00200            | "     | 0.0500 | ND  | 80.7 | 70-130 | 1.57   | 20 |       |
| 1,3-Dichlorobenzene             | 0.0355 | 0.00200            | "     | 0.0500 | ND  | 71.1 | 70-130 | 0.169  | 20 |       |
| 1,3-Dichloropropane             | 0.0467 | 0.00200            | "     | 0.0500 | ND  | 93.5 | 70-130 | 1.03   | 20 |       |
| 1,4-Dichlorobenzene             | 0.0343 | 0.00200            | "     | 0.0500 | ND  | 68.6 | 70-130 | 1.68   | 20 | QM-07 |
| 2,2-Dichloropropane             | 0.0408 | 0.00200            | "     | 0.0500 | ND  | 81.6 | 70-130 | 1.38   | 20 |       |
| 2-Butanone                      | 0.261  | 0.0100             | "     | 0.250  | ND  | 104  | 70-130 | 3.16   | 20 |       |
| 2-Chlorotoluene                 | 0.0380 | 0.00200            | "     | 0.0500 | ND  | 76.0 | 70-130 | 0.158  | 20 |       |
| 2-Hexanone                      | 0.255  | 0.0100             | "     | 0.250  | ND  | 102  | 70-130 | 2.25   | 20 |       |
| 4-Chlorotoluene                 | 0.0401 | 0.00200            | "     | 0.0500 | ND  | 80.1 | 70-130 | 0.895  | 20 |       |
| 4-Isopropyltoluene              | 0.0385 | 0.00200            | "     | 0.0500 | ND  | 77.1 | 70-130 | 1.39   | 20 |       |

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD    | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|--------|-----------|-------|
| <b>Batch B011414 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |        |           |       |
| <b>Matrix Spike Dup (B011414-MSD1)</b> |        | <b>Source: Y009139-01</b> |       |             | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |             |        |           |       |
| 4-Methyl-2-pentanone                   | 0.268  | 0.0100                    | mg/kg | 0.250       | ND  | 107  | 70-130      | 2.30   | 20        |       |
| Acetone                                | 0.234  | 0.0200                    | "     | 0.250       | ND  | 93.7 | 70-130      | 2.53   | 20        |       |
| Benzene                                | 0.0453 | 0.00200                   | "     | 0.0500      | ND  | 90.6 | 70-130      | 1.02   | 20        |       |
| Bromobenzene                           | 0.0404 | 0.00200                   | "     | 0.0500      | ND  | 80.8 | 70-130      | 0.0990 | 20        |       |
| Bromochloromethane                     | 0.0455 | 0.00200                   | "     | 0.0500      | ND  | 90.9 | 70-130      | 2.86   | 20        |       |
| Bromodichloromethane                   | 0.0452 | 0.00200                   | "     | 0.0500      | ND  | 90.4 | 70-130      | 1.34   | 20        |       |
| Bromoform                              | 0.0455 | 0.00200                   | "     | 0.0500      | ND  | 91.0 | 70-130      | 1.40   | 20        |       |
| Bromomethane                           | 0.0459 | 0.00200                   | "     | 0.0500      | ND  | 91.9 | 70-130      | 4.30   | 20        |       |
| Carbon disulfide                       | 0.0426 | 0.00500                   | "     | 0.0500      | ND  | 85.2 | 70-130      | 0.565  | 20        |       |
| Carbon tetrachloride                   | 0.0406 | 0.00200                   | "     | 0.0500      | ND  | 81.2 | 70-130      | 1.09   | 20        |       |
| Chlorobenzene                          | 0.0400 | 0.00200                   | "     | 0.0500      | ND  | 79.9 | 70-130      | 0.653  | 20        |       |
| Chloroethane                           | 0.0524 | 0.00500                   | "     | 0.0500      | ND  | 105  | 70-130      | 9.17   | 20        |       |
| Chloroform                             | 0.0445 | 0.00200                   | "     | 0.0500      | ND  | 89.1 | 70-130      | 1.22   | 20        |       |
| Chloromethane                          | 0.0431 | 0.00200                   | "     | 0.0500      | ND  | 86.3 | 70-130      | 5.37   | 20        |       |
| cis-1,2-Dichloroethene                 | 0.0437 | 0.00200                   | "     | 0.0500      | ND  | 87.5 | 70-130      | 0.873  | 20        |       |
| cis-1,3-Dichloropropene                | 0.0461 | 0.00200                   | "     | 0.0500      | ND  | 92.1 | 70-130      | 0.261  | 20        |       |
| Dibromochloromethane                   | 0.0467 | 0.00200                   | "     | 0.0500      | ND  | 93.3 | 70-130      | 1.56   | 20        |       |
| Dibromomethane                         | 0.0424 | 0.00200                   | "     | 0.0500      | ND  | 84.8 | 70-130      | 1.52   | 20        |       |
| Ethylbenzene                           | 0.0442 | 0.00200                   | "     | 0.0500      | ND  | 88.5 | 70-130      | 1.12   | 20        |       |
| Hexachlorobutadiene                    | 0.0256 | 0.00500                   | "     | 0.0500      | ND  | 51.3 | 70-130      | 3.68   | 20        | QM-07 |
| Iodomethane                            | 0.0462 | 0.0150                    | "     | 0.0500      | ND  | 92.5 | 70-130      | 1.66   | 20        |       |
| Isopropylbenzene                       | 0.0426 | 0.00200                   | "     | 0.0500      | ND  | 85.2 | 70-130      | 1.17   | 20        |       |
| m,p-Xylene                             | 0.0887 | 0.00400                   | "     | 0.100       | ND  | 88.7 | 70-130      | 0.719  | 20        |       |
| Methyl tert-Butyl Ether                | 0.0446 | 0.00200                   | "     | 0.0500      | ND  | 89.2 | 70-130      | 2.54   | 20        |       |
| Methylene Chloride                     | 0.0490 | 0.0200                    | "     | 0.0500      | ND  | 98.0 | 70-130      | 3.49   | 20        |       |
| Naphthalene                            | 0.0334 | 0.0100                    | "     | 0.0500      | ND  | 66.8 | 70-130      | 0.240  | 20        | QM-07 |

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1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B011414 - EPA 5030 (soil)**

| Matrix Spike Dup (B011414-MSD1)  |        | Source: Y009139-01 |       |        | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |        |       |    |  |
|----------------------------------|--------|--------------------|-------|--------|---|------|--------|-------|----|--|
| n-Butylbenzene                   | 0.0367 | 0.00200            | mg/kg | 0.0500 | ND  | 73.3 | 70-130 | 0.109 | 20 |  |
| n-Propylbenzene                  | 0.0409 | 0.00200            | "     | 0.0500 | ND  | 81.8 | 70-130 | 0.682 | 20 |  |
| o-Xylene                         | 0.0444 | 0.00200            | "     | 0.0500 | ND  | 88.8 | 70-130 | 1.65  | 20 |  |
| sec-Butylbenzene                 | 0.0399 | 0.00200            | "     | 0.0500 | ND  | 79.8 | 70-130 | 1.29  | 20 |  |
| Styrene                          | 0.0419 | 0.00200            | "     | 0.0500 | ND  | 83.9 | 70-130 | 0.191 | 20 |  |
| tert-Butylbenzene                | 0.0408 | 0.00200            | "     | 0.0500 | ND  | 81.6 | 70-130 | 0.879 | 20 |  |
| Tetrachloroethene                | 0.0387 | 0.00200            | "     | 0.0500 | ND  | 77.4 | 70-130 | 0.103 | 20 |  |
| Toluene                          | 0.0441 | 0.00200            | "     | 0.0500 | ND  | 88.2 | 70-130 | 0.820 | 20 |  |
| trans-1,2-Dichloroethene         | 0.0422 | 0.00200            | "     | 0.0500 | ND  | 84.3 | 70-130 | 0.858 | 20 |  |
| trans-1,3-Dichloropropene        | 0.0436 | 0.00200            | "     | 0.0500 | ND  | 87.3 | 70-130 | 0.459 | 20 |  |
| Trichloroethene                  | 0.0409 | 0.00200            | "     | 0.0500 | ND  | 81.7 | 70-130 | 0.147 | 20 |  |
| Trichlorofluoromethane           | 0.0420 | 0.00300            | "     | 0.0500 | ND  | 84.0 | 70-130 | 4.69  | 20 |  |
| Vinyl chloride                   | 0.0425 | 0.00200            | "     | 0.0500 | ND  | 84.9 | 70-130 | 5.90  | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11   |                    | "     | 0.125  |   | 90.5 | 70-130 |       |    |  |
| Surrogate: Toluene-d8            | 0.13   |                    | "     | 0.125  |   | 102  | 70-130 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |                    | "     | 0.125  |   | 102  | 70-130 |       |    |  |

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1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

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

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

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

Batch B011108 - NO PREP

Duplicate (B011108-DUP1)

Source: Y009128-05

Prepared: 09/11/2020 Analyzed: 09/11/2020

|    |      |          |      |      |    |
|----|------|----------|------|------|----|
| pH | 7.49 | pH Units | 7.49 | 0.00 | 25 |
|----|------|----------|------|------|----|

Origins Laboratory, Inc.



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1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## Flash Point by EPA 1020A - Quality Control GEL Laboratories, LLC

| Analyte              | Result | Reporting Limit | Units      | Spike Level | Source Result                                    | %REC   | %REC Limits | RPD | RPD Limit | Notes |
|----------------------|--------|-----------------|------------|-------------|--|--------|-------------|-----|-----------|-------|
| Batch 2037954 -      |        |                 |            |             |  |        |             |     |           |       |
| LCS (1204637519-BKS) |        |                 |            |             | Prepared: Analyzed: 09/14/2020                   |        |             |     |           |       |
| Setaflash-200        | 82.0   | 75.0            | Fahrenheit | 81.0        | 101  | 97-103 |             |     |           |       |
| DUP (1204637521 D)   |        |                 |            |             | Source: 519644001 Prepared: Analyzed: 09/14/2020 |        |             |     |           |       |
| Setaflash-200        | >200   | 75.0            | Fahrenheit |             | >200   | 0-9    | 0           | 9   |           |       |

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1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

**PAH by EPA 8270D - Quality Control**  
**GEL Laboratories, LLC**

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

**Batch 2039675 - SW846 3541**

**BLANK (1204641214-BLK)**

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                        |    |         |       |  |  |  |   |  |  |   |
|------------------------|----|---------|-------|--|--|--|---|--|--|---|
| Benzo(k)fluoranthene   | ND | 0.00329 | mg/kg |  |  |  | - |  |  | U |
| Pyrene                 | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Phenanthrene           | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Naphthalene            | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Indeno(1,2,3-cd)pyrene | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Fluorene               | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Fluoranthene           | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Chrysene               | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Benzo(ghi)perylene     | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Benzo(b)fluoranthene   | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Benzo(a)anthracene     | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Anthracene             | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Acenaphthylene         | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Acenaphthene           | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| 2-Methylnaphthalene    | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| 1-Methylnaphthalene    | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Benzo(a)pyrene         | ND | 0.00329 | "     |  |  |  | - |  |  | U |
| Dibenzo(a,h)anthracene | ND | 0.00329 | "     |  |  |  | - |  |  | U |

Surrogate: 5-alpha-Androstane

0.143

"

0.165

87

25-121

**LCS (1204641215-BKS)**

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                        |       |         |       |       |    |        |
|------------------------|-------|---------|-------|-------|----|--------|
| Naphthalene            | 0.251 | 0.00327 | mg/kg | 0.327 | 77 | 52-106 |
| Benzo(ghi)perylene     | 0.267 | 0.00327 | "     | 0.327 | 82 | 35-121 |
| Pyrene                 | 0.304 | 0.00327 | "     | 0.327 | 93 | 42-114 |
| Chrysene               | 0.272 | 0.00327 | "     | 0.327 | 83 | 53-108 |
| Dibenzo(a,h)anthracene | 0.293 | 0.00327 | "     | 0.327 | 90 | 40-137 |
| Fluoranthene           | 0.254 | 0.00327 | "     | 0.327 | 78 | 43-116 |

Origins Laboratory, Inc.



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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## PAH by EPA 8270D - Quality Control GEL Laboratories, LLC

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

Batch 2039675 - SW846 3541

### LCS (1204641215-BKS)

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                        |       |         |       |       |  |     |        |  |  |  |
|------------------------|-------|---------|-------|-------|--|-----|--------|--|--|--|
| Fluorene               | 0.263 | 0.00327 | mg/kg | 0.327 |  | 81  | 42-113 |  |  |  |
| Indeno(1,2,3-cd)pyrene | 0.321 | 0.00327 | "     | 0.327 |  | 98  | 40-132 |  |  |  |
| Phenanthrene           | 0.260 | 0.00327 | "     | 0.327 |  | 79  | 53-106 |  |  |  |
| Benzo(b)fluoranthene   | 0.334 | 0.00327 | "     | 0.327 |  | 102 | 42-119 |  |  |  |
| Benzo(k)fluoranthene   | 0.302 | 0.00327 | "     | 0.327 |  | 93  | 39-119 |  |  |  |
| Benzo(a)pyrene         | 0.318 | 0.00327 | "     | 0.327 |  | 97  | 42-123 |  |  |  |
| 1-Methylnaphthalene    | 0.245 | 0.00327 | "     | 0.327 |  | 75  | 50-109 |  |  |  |
| 2-Methylnaphthalene    | 0.251 | 0.00327 | "     | 0.327 |  | 77  | 50-109 |  |  |  |
| Acenaphthene           | 0.259 | 0.00327 | "     | 0.327 |  | 79  | 48-107 |  |  |  |
| Acenaphthylene         | 0.274 | 0.00327 | "     | 0.327 |  | 84  | 42-114 |  |  |  |
| Anthracene             | 0.264 | 0.00327 | "     | 0.327 |  | 81  | 49-113 |  |  |  |
| Benzo(a)anthracene     | 0.263 | 0.00327 | "     | 0.327 |  | 81  | 51-118 |  |  |  |

Surrogate: 5-alpha-Androstane

0.141

"

0.164

86

25-121

### LCSD (1204641216-BKSD)

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                        |       |         |       |       |  |    |        |   |    |  |
|------------------------|-------|---------|-------|-------|--|----|--------|---|----|--|
| Phenanthrene           | 0.247 | 0.00333 | mg/kg | 0.333 |  | 74 | 53-106 | 5 | 30 |  |
| Benzo(ghi)perylene     | 0.254 | 0.00333 | "     | 0.333 |  | 76 | 35-121 | 5 | 30 |  |
| Naphthalene            | 0.235 | 0.00333 | "     | 0.333 |  | 71 | 52-106 | 6 | 30 |  |
| Indeno(1,2,3-cd)pyrene | 0.310 | 0.00333 | "     | 0.333 |  | 93 | 40-132 | 4 | 30 |  |
| Fluorene               | 0.252 | 0.00333 | "     | 0.333 |  | 76 | 42-113 | 4 | 30 |  |
| Fluoranthene           | 0.247 | 0.00333 | "     | 0.333 |  | 74 | 43-116 | 3 | 30 |  |
| Dibenzo(a,h)anthracene | 0.280 | 0.00333 | "     | 0.333 |  | 84 | 40-137 | 5 | 30 |  |
| Chrysene               | 0.258 | 0.00333 | "     | 0.333 |  | 78 | 53-108 | 5 | 30 |  |
| Benzo(k)fluoranthene   | 0.286 | 0.00333 | "     | 0.333 |  | 86 | 39-119 | 6 | 30 |  |
| Pyrene                 | 0.279 | 0.00333 | "     | 0.333 |  | 84 | 42-114 | 9 | 30 |  |
| Benzo(a)pyrene         | 0.297 | 0.00333 | "     | 0.333 |  | 89 | 42-123 | 7 | 30 |  |
| Benzo(a)anthracene     | 0.246 | 0.00333 | "     | 0.333 |  | 74 | 51-118 | 7 | 30 |  |

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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

**PAH by EPA 8270D - Quality Control**  
**GEL Laboratories, LLC**

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

**Batch 2039675 - SW846 3541**

**LCSD (1204641216-BKSD)**

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                               |       |         |       |       |  |    |        |   |    |  |
|-------------------------------|-------|---------|-------|-------|--|----|--------|---|----|--|
| Anthracene                    | 0.250 | 0.00333 | mg/kg | 0.333 |  | 75 | 49-113 | 5 | 30 |  |
| Acenaphthylene                | 0.262 | 0.00333 | "     | 0.333 |  | 79 | 42-114 | 4 | 30 |  |
| Acenaphthene                  | 0.247 | 0.00333 | "     | 0.333 |  | 74 | 48-107 | 5 | 30 |  |
| 2-Methylnaphthalene           | 0.237 | 0.00333 | "     | 0.333 |  | 71 | 50-109 | 6 | 30 |  |
| 1-Methylnaphthalene           | 0.232 | 0.00333 | "     | 0.333 |  | 70 | 50-109 | 5 | 30 |  |
| Benzo(b)fluoranthene          | 0.307 | 0.00333 | "     | 0.333 |  | 92 | 42-119 | 8 | 30 |  |
| Surrogate: 5-alpha-Androstane | 0.134 |         | "     | 0.166 |  | 81 | 25-121 |   |    |  |

**MS (1204641217 S)**

**Source: 521186001**

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                        |       |        |           |       |         |    |        |  |  |  |
|------------------------|-------|--------|-----------|-------|---------|----|--------|--|--|--|
| Pyrene                 | 0.694 | 0.0193 | mg/kg dry | 0.387 | 0.595   | 26 | 19-139 |  |  |  |
| Benzo(k)fluoranthene   | 0.387 | 0.0193 | "         | 0.387 | 0.301   | 22 | 26-130 |  |  |  |
| Chrysene               | 0.512 | 0.0193 | "         | 0.387 | 0.612   | 0  | 31-119 |  |  |  |
| Dibenzo(a,h)anthracene | 0.340 | 0.0193 | "         | 0.387 | 0.132   | 54 | 16-139 |  |  |  |
| Fluoranthene           | 0.472 | 0.0193 | "         | 0.387 | 0.389   | 21 | 21-122 |  |  |  |
| Fluorene               | 0.271 | 0.0193 | "         | 0.387 | 0.0175  | 65 | 26-123 |  |  |  |
| Indeno(1,2,3-cd)pyrene | 0.543 | 0.0193 | "         | 0.387 | 0.570   | 0  | 14-132 |  |  |  |
| 1-Methylnaphthalene    | 0.259 | 0.0193 | "         | 0.387 | 0.00972 | 64 | 30-129 |  |  |  |
| Phenanthrene           | 0.336 | 0.0193 | "         | 0.387 | 0.233   | 27 | 27-124 |  |  |  |
| Benzo(a)pyrene         | 0.617 | 0.0193 | "         | 0.387 | 0.791   | 0  | 24-129 |  |  |  |
| Naphthalene            | 0.276 | 0.0193 | "         | 0.387 | 0.0194  | 66 | 29-122 |  |  |  |
| Benzo(a)anthracene     | 0.487 | 0.0193 | "         | 0.387 | 0.494   | 0  | 31-124 |  |  |  |
| Anthracene             | 0.284 | 0.0193 | "         | 0.387 | 0.0622  | 57 | 29-127 |  |  |  |
| Acenaphthylene         | 0.305 | 0.0193 | "         | 0.387 | 0.0117  | 76 | 27-122 |  |  |  |
| Acenaphthene           | 0.278 | 0.0193 | "         | 0.387 | 0.0175  | 67 | 29-118 |  |  |  |
| 2-Methylnaphthalene    | 0.265 | 0.0193 | "         | 0.387 | 0.0117  | 65 | 23-124 |  |  |  |
| Benzo(b)fluoranthene   | 0.678 | 0.0193 | "         | 0.387 | 0.896   | 0  | 22-130 |  |  |  |
| Benzo(ghi)perylene     | 0.437 | 0.0193 | "         | 0.387 | 0.474   | 0  | 16-124 |  |  |  |

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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

**PAH by EPA 8270D - Quality Control**  
**GEL Laboratories, LLC**

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

**Batch 2039675 - SW846 3541**

**MS (1204641217 S)**

**Source: 521186001**

Prepared: 09/14/2020 Analyzed: 09/14/2020

Surrogate: 5-alpha-Androstane

0.114

mg/kg dry

0.193

0.122

59

25-121

**MSD (1204641218 SD)**

**Source: 521186001**

Prepared: 09/14/2020 Analyzed: 09/14/2020

|                               |       |        |           |       |         |    |        |    |    |
|-------------------------------|-------|--------|-----------|-------|---------|----|--------|----|----|
| Naphthalene                   | 0.267 | 0.0194 | mg/kg dry | 0.387 | 0.0194  | 64 | 29-122 | 3  | 30 |
| Benzo(k)fluoranthene          | 0.467 | 0.0194 | "         | 0.387 | 0.301   | 43 | 26-130 | 19 | 30 |
| Chrysene                      | 0.643 | 0.0194 | "         | 0.387 | 0.612   | 8  | 31-119 | 23 | 30 |
| Dibenzo(a,h)anthracene        | 0.364 | 0.0194 | "         | 0.387 | 0.132   | 60 | 16-139 | 7  | 30 |
| Pyrene                        | 0.856 | 0.0194 | "         | 0.387 | 0.595   | 67 | 19-139 | 21 | 30 |
| Fluoranthene                  | 0.600 | 0.0194 | "         | 0.387 | 0.389   | 55 | 21-122 | 24 | 30 |
| Phenanthrene                  | 0.352 | 0.0194 | "         | 0.387 | 0.233   | 31 | 27-124 | 5  | 30 |
| Fluorene                      | 0.258 | 0.0194 | "         | 0.387 | 0.0175  | 62 | 26-123 | 5  | 30 |
| Benzo(ghi)perylene            | 0.552 | 0.0194 | "         | 0.387 | 0.474   | 20 | 16-124 | 23 | 30 |
| Indeno(1,2,3-cd)pyrene        | 0.688 | 0.0194 | "         | 0.387 | 0.570   | 30 | 14-132 | 23 | 30 |
| Benzo(b)fluoranthene          | 0.864 | 0.0194 | "         | 0.387 | 0.896   | 0  | 22-130 | 24 | 30 |
| Benzo(a)pyrene                | 0.794 | 0.0194 | "         | 0.387 | 0.791   | 1  | 24-129 | 25 | 30 |
| Benzo(a)anthracene            | 0.598 | 0.0194 | "         | 0.387 | 0.494   | 27 | 31-124 | 21 | 30 |
| Anthracene                    | 0.285 | 0.0194 | "         | 0.387 | 0.0622  | 57 | 29-127 | 0  | 30 |
| Acenaphthene                  | 0.265 | 0.0194 | "         | 0.387 | 0.0175  | 64 | 29-118 | 5  | 30 |
| 2-Methylnaphthalene           | 0.254 | 0.0194 | "         | 0.387 | 0.0117  | 62 | 23-124 | 4  | 30 |
| 1-Methylnaphthalene           | 0.248 | 0.0194 | "         | 0.387 | 0.00972 | 61 | 30-129 | 4  | 30 |
| Acenaphthylene                | 0.292 | 0.0194 | "         | 0.387 | 0.0117  | 72 | 27-122 | 4  | 30 |
| Surrogate: 5-alpha-Androstane | 0.114 |        | "         | 0.194 | 0.122   | 59 | 25-121 |    |    |

Origins Laboratory, Inc.

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CTL Thompson, Inc.

1971 West 12th Avenue

Denver CO 80204

John Castellano

Project Number: SU01922.000-205

Project: Minturn P11

## RCRA 8 Metals by EPA 6010C - Quality Control

### GEL Laboratories, LLC

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

#### Batch 2039783 - SW846 3050B

#### BLANK (1204641421-BLK)

Prepared: 09/14/2020 Analyzed: 09/14/2020

|          |       |       |       |  |  |  |   |  |  |   |
|----------|-------|-------|-------|--|--|--|---|--|--|---|
| Silver   | ND    | 0.450 | mg/kg |  |  |  | - |  |  | U |
| Selenium | 0.920 | 2.70  | "     |  |  |  | - |  |  | J |
| Lead     | 0.537 | 1.80  | "     |  |  |  | - |  |  | J |
| Chromium | ND    | 0.899 | "     |  |  |  | - |  |  | U |
| Cadmium  | ND    | 0.450 | "     |  |  |  | - |  |  | U |
| Barium   | ND    | 0.450 | "     |  |  |  | - |  |  | U |
| Arsenic  | ND    | 2.70  | "     |  |  |  | - |  |  | U |

#### LCS (1204641422-BKS)

Prepared: 09/14/2020 Analyzed: 09/14/2020

|          |      |       |       |      |      |        |
|----------|------|-------|-------|------|------|--------|
| Chromium | 43.5 | 0.912 | mg/kg | 45.6 | 95.3 | 80-120 |
| Selenium | 43.5 | 2.74  | "     | 45.6 | 95.4 | 80-120 |
| Lead     | 45.3 | 1.82  | "     | 45.6 | 99.4 | 80-120 |
| Silver   | 8.89 | 0.456 | "     | 9.12 | 97.5 | 80-120 |
| Barium   | 44.4 | 0.456 | "     | 45.6 | 97.4 | 80-120 |
| Arsenic  | 43.8 | 2.74  | "     | 45.6 | 95.9 | 80-120 |
| Cadmium  | 43.5 | 0.456 | "     | 45.6 | 95.4 | 80-120 |

#### DUP (1204641423 D)

Source: 521192016

Prepared: 09/14/2020 Analyzed: 09/14/2020

|          |       |       |           |        |      |      |    |   |
|----------|-------|-------|-----------|--------|------|------|----|---|
| Barium   | 235   | 0.565 | mg/kg dry | 186    | 0-20 | 23.5 | 20 |   |
| Cadmium  | 2.97  | 0.565 | "         | 1.06   | 0-20 | 95.1 | 20 |   |
| Chromium | 5.95  | 1.13  | "         | 12.4   | 0-20 | 70.5 | 20 |   |
| Lead     | 1270  | 2.26  | "         | 134    | 0-20 | 162  | 20 |   |
| Selenium | ND    | 3.39  | "         | <0.565 | 0-20 | 130  | 20 | U |
| Silver   | 0.724 | 0.565 | "         | 0.324  | 0-20 | 76.3 | 20 |   |
| Arsenic  | 8.11  | 3.39  | "         | 5.18   | 0-20 | 44   | 20 |   |

#### MS (1204641424 S)

Source: 521192016

Prepared: 09/14/2020 Analyzed: 09/14/2020

Origins Laboratory, Inc.



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1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## RCRA 8 Metals by EPA 6010C - Quality Control GEL Laboratories, LLC

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

Batch 2039783 - SW846 3050B

### MS (1204641424 S)

Source: 521192016

Prepared: 09/14/2020 Analyzed: 09/14/2020

|          |      |       |           |      |        |      |        |
|----------|------|-------|-----------|------|--------|------|--------|
| Barium   | 592  | 0.573 | mg/kg dry | 57.3 | 186    | 708  | 75-125 |
| Silver   | 12.9 | 0.573 | "         | 11.5 | 0.324  | 109  | 75-125 |
| Selenium | 51.6 | 3.44  | "         | 57.3 | <0.573 | 89.9 | 75-125 |
| Lead     | 292  | 2.29  | "         | 57.3 | 134    | 277  | 75-125 |
| Cadmium  | 53.8 | 0.573 | "         | 57.3 | 1.06   | 92   | 75-125 |
| Arsenic  | 62.5 | 3.44  | "         | 57.3 | 5.18   | 100  | 75-125 |
| Chromium | 63.1 | 1.15  | "         | 57.3 | 12.4   | 88.5 | 75-125 |

### PS (1204642842 S)

Source: 521192016

Prepared: 09/14/2020 Analyzed: 09/14/2020

|        |      |         |           |       |  |     |        |
|--------|------|---------|-----------|-------|--|-----|--------|
| Barium | 2.81 | 0.00578 | mg/kg dry | 0.500 |  | 156 | 75-125 |
| Lead   | 2.89 | 0.0231  | "         | 0.500 |  | 262 | 75-125 |

Origins Laboratory, Inc.



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1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

## RCRA 8 Metals by EPA 7471 - Quality Control GEL Laboratories, LLC

| Analyte                          | Result | Reporting Limit          | Units     | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|----------------------------------|--------|--------------------------|-----------|-------------|---|------|-------------|------|-----------|-------|
| Batch 2040105 - SW846 7471A Prep |        |                          |           |             |   |      |             |      |           |       |
| <b>BLANK (1204642279-BLK)</b>    |        |                          |           |             | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |             |      |           |       |
| Mercury                          | ND     | 0.0201                   | mg/kg     |             |   |      | -           |      |           | U     |
| <b>LCS (1204642280-BKS)</b>      |        |                          |           |             | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |             |      |           |       |
| Mercury                          | 0.220  | 0.0217                   | mg/kg     | 0.217       |   | 102  | 80-120      |      |           |       |
| <b>DUP (1204642281 D)</b>        |        |                          |           |             | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |             |      |           |       |
|                                  |        | <b>Source: 519532005</b> |           |             |   |      |             |      |           |       |
| Mercury                          | ND     | 0.0286                   | mg/kg dry |             | <0.00959                                  |      | 0-20        | 61.2 | 20        | U     |
| <b>MS (1204642282 S)</b>         |        |                          |           |             | Prepared: 09/14/2020 Analyzed: 09/15/2020 |      |             |      |           |       |
|                                  |        | <b>Source: 519532005</b> |           |             |   |      |             |      |           |       |
| Mercury                          | 0.257  | 0.0253                   | mg/kg dry | 0.253       | <0.00849                                  | 101  | 80-120      |      |           |       |

Origins Laboratory, Inc.



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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

**TCLP Metals by EPA 1311/6010C - Quality Control**  
**GEL Laboratories, LLC**

| Analyte                            | Result                    | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------------------------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch 2040504 - SW846 3010A</b> |                           |                 |       |             |   |      |             |     |           |       |
| <b>MS (1204640992 S)</b>           | <b>Source: Y009128-05</b> |                 |       |             | Prepared: 09/15/2020 Analyzed: 09/15/2020 |      |             |     |           |       |
| Lead                               | 4.63                      | 0.200           | mg/L  | 5.00        | <0.0330                                   | 92.7 | 75-125      |     |           |       |
| <b>TB (1204640993-BLK)</b>         |                           |                 |       |             | Prepared: 09/15/2020 Analyzed: 09/15/2020 |      |             |     |           |       |
| Lead                               | ND                        | 0.200           | mg/L  |             |   |      | -           |     |           | U     |
| <b>BLANK (1204643223-BLK)</b>      |                           |                 |       |             | Prepared: 09/15/2020 Analyzed: 09/15/2020 |      |             |     |           |       |
| Lead                               | ND                        | 0.200           | mg/L  |             |   |      | -           |     |           | U     |
| <b>LCS (1204643224-BKS)</b>        |                           |                 |       |             | Prepared: 09/15/2020 Analyzed: 09/15/2020 |      |             |     |           |       |
| Lead                               | 4.75                      | 0.200           | mg/L  | 5.00        |   | 94.9 | 80-120      |     |           |       |
| <b>DUP (1204643225 D)</b>          | <b>Source: Y009128-05</b> |                 |       |             | Prepared: 09/15/2020 Analyzed: 09/15/2020 |      |             |     |           |       |
| Lead                               | ND                        | 0.200           | mg/L  |             | <0.0330                                   |      | 0-20        | 171 | 20        | U     |

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CTL Thompson, Inc.  
1971 West 12th Avenue  
Denver CO 80204

John Castellano  
Project Number: SU01922.000-205  
Project: Minturn P11

### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

>200 >200

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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**ATTACHMENT C**  
**CIVTRANS TRIP GENERATION LETTER**



October 3, 2022

Michelle Meteer  
Town Manager  
Town of Minturn  
301 Boulder Street, #309  
Minturn, CO 81645

Re: **Minturn North PUD – Trip Generation Letter**  
**Minturn, Colorado**

Dear Michelle:

## **INTRODUCTION**

The Minturn North PUD project has modified its site plan to reduce the number of residential dwelling units and address neighbor comments and concerns. A traffic study was completed for the previous site plan, which proposed up to 193 dwelling units in a mix of single-family and multi-family residential buildings. The current proposal is for 39 single-family dwelling units. Local and regional access to the development is unchanged from the previous plan, which will utilize Minturn Road / County Road north and south of the site to access US 24. This traffic letter has been completed to update the trip generation estimates for the development and provide supplemental information for amendments to the previously completed access permits at US 24 & County Road and US 24 & Main Street.

This document includes a description of the proposed project, trip generation characteristics and trip distribution.

## **PROJECT DESCRIPTION**

Minturn Crossing, LLC is proposing a residential development within the Town of Minturn, Colorado. The site is currently vacant aside from six mobile homes, which will be removed as a part of the project. It is located between Taylor Street and Minturn Avenue in the vicinity of Game Creek and will accommodate 39 single family residential lots, a 30' Game Creek buffer zone, a children's park and snow storage area for the Town of Minturn. Six of the single-family homes will be deed-restricted for local housing. Property north of Game Creek is not included in the Minturn North PUD. The residential lots will primarily be accessed from an internal roadway that connects to Fourth Street. Fourth Street provides a connection to Taylor Street and Minturn Road. No access to Taylor Street is planned. Therefore, no improvements to Taylor Street are proposed as a part of this project.

The site is bordered on the south and east by existing residences, a non-operating Union Pacific Railroad line to the west and vacant land to the north. The primary population and

business of Minturn lies to the south. Eagle River runs north-south through the area, which forms a natural barrier between the site and US 24, the primary regional highway for the Town.

Regional access to the area is accommodated primarily by US 24 and I-70. I-70 is an interstate freeway located approximately 2 miles to the north and is accessed from US 24. There are two points of access to US 24 from the proposed development, Main Street (south of the site) and County Road (north of site).

A vicinity map is included as **Exhibit 1** and the current site plan is included as **Exhibit 2** at the end of this document. An aerial of the immediate vicinity is included as **Exhibit 3**.

## TRIP GENERATION

The proposed project will include up to 39 single-family residential dwelling units. The *Trip Generation Manual, 11<sup>th</sup> Edition* published by the Institute of Transportation Engineers (ITE) was used to determine the number of trips generated by the proposed land use. The purpose of the Trip Generation Manual (TGM) is to compile and quantify empirical trip generation rates for specific land uses within the US, UK and Canada. Generally, the Trip Generation Manual is the industry standard accepted reference for estimating trip generation. The proposed single-family housing falls within the TGM land use category 210, "Single-Family Detached Housing." The trip generation estimate for the site based on this land use category is shown in the table below.

**Table 1 - Project Trip Generation (unadjusted)**

| Land Use                       | ITE Code | Size | Units | Daily Trips | AM Peak Hour |     |       | PM Peak Hour |     |       |
|--------------------------------|----------|------|-------|-------------|--------------|-----|-------|--------------|-----|-------|
|                                |          |      |       |             | In           | Out | Total | In           | Out | Total |
| Single-Family Detached Housing | 210      | 39   | DU    | 424         | 8            | 24  | 32    | 26           | 15  | 41    |

DU = Dwelling Units

As shown in the table above, the project is anticipated to generate 32 AM peak hour trips, 41 PM peak hour trips and 424 average daily trips. It should be noted that the site historically has operated with several mobile homes. The net change in trips for this site due to the historic uses is likely slightly less than what is shown in the table above.

## Trip Types

Nearly all developments are made up of the following six trip types: new (destination) trips, pass-by trips, diverted trips, shared (internal) trips, multi-modal (non-vehicular) trips, and transit-oriented trips. To better understand the trip types available for land access and how they relate to this project, a description of each specific type follows.

**New (Destination) Trips** – These types of trips occur to access a specific land use such as a new retail development or a new residential subdivision. These types of trips will travel to and from the new site and a single other destination such as home or work. This is the only trip type that will result in a net increase in the total amount of traffic within the study area. The reason primarily is that these trips represent planned trips to a specific destination that never took trips to that part of the city prior to the development being constructed and occupied. This project will develop new trips.

**Pass-by Trips** – These trips represent vehicles which currently use adjacent roadways providing primary access to new land uses or projects. These trips, however, have an ultimate destination other than the project in question. They should be viewed as drop-in customers who stop in on their way home from work. A good example is a quick stop at the grocery store to pick up an ingredient for dinner on the way home from work or at a latte stand to grab a coffee on the way to work. This can make this trip pre-determined, but the stop is still on the way by. Another example would be on payday, where an individual generally drives by their bank every day without stopping, except on payday. On that day, this driver would drive into the bank, perform the prerequisite banking and then continue home. In this example, the trip started from work with a destination of home, however on the way, the driver stopped at the grocery store/latte stand and/or bank directly adjacent to their path. Pass-by trips are most always associated with commercial/retail types of developments. Therefore, no pass-by trips are anticipated for this project.

**Diverted (Linked) Trips** - Diverted trips are like pass-by trips, but diverted trips occur from roadways that do not provide direct access to the site. Instead, one or more streets must be utilized to get to and from the site. For this project, diverted trips could occur from Interstate 70, US 24 or any other street that does not provide direct access for the site. Due to the type of use, diverted trips were not accounted for within this analysis.

**Shared (Internal) Trips** - Internal trips are the portion of trips generated by a mixed-use development that both begin and end within the development. When estimating trip generation for a development with several uses, each use will generate its own trips. If those trips occur between two of the onsite uses without using the external roadway system, it is considered a shared or internal trip. This trip type reduces the number of new trips generated on the public road system and is most commonly used for commercial or mix-use developments. Determining these trip types is more difficult to quantify and without specific guidance are usually determined by engineering judgment on a project-by-project basis. For this project, the residences are the only use on site and no shared trips will occur.

**Multi-Modal (Non-Vehicular) Trips** - These are non-vehicular trips to and from the site, mostly comprised of pedestrian and bicycle trips. Generally, they are local trips from the surrounding neighborhood or adjacent businesses. If a development is in an area with a high amount of bicycle and pedestrian activity, such as a downtown setting or college campus, a reduction of vehicular trips would be anticipated. During traffic counts and field observations, very little bicycles or pedestrians were seen in the vicinity of the site. Around downtown Minturn there was significant pedestrian activity. The proximity of the site would allow for residents to walk between the downtown area and their home. Therefore, a small amount of pedestrian and bicycle activity for the site is anticipated, but no reduction of vehicular trips was applied. It should be noted that a portion of the Eco-trail will be incorporated into the site frontage along Minturn Road.

**Transit Trip** – Minturn and the Vail Valley are served by ECO Transit with a public bus connection from downtown Minturn. Although transit is available and would likely see some use from this development, no transit reduction was applied.

## TRIP DISTRIBUTION

The traffic associated with the project is expected to be made up of commuter trips

primarily during the peak hours with most of the trips oriented towards the Eagle-Vail Valley and the I-70 corridor. The directional distribution for how site-generated trips would access the development were based on existing traffic counts. A significant portion of the Minturn Road / County Road is currently unpaved. It is unknown when paving will occur on the portion of County Road north of the site, which provides a connection to US 24. If this roadway becomes paved in the future, a higher percentage of site generated trips are anticipated to use this roadway north of the site.

#### County Road paved

- US Highway 24 via County Road north of the site – 65%
- US Highway 24 via Main Street north of the site – 15%
- Main Street (US 24) south of the site – 20%

#### County Road unpaved

- US Highway 24 via County Road north of the site – 50%
- US Highway 24 via Main Street north of the site – 30%
- Main Street (US 24) south of the site – 20%

### **AUXILIARY LANE EVALUATION**

In the previous traffic impact study, the need for auxiliary turn lanes were evaluated using the CDOT State Highway Access Code (SHAC) for the intersections of US 24 & Main Street and US 24 & County Road based on traffic counts collected in February 2020. US 24 is designated as R-A (rural arterial) at the County Road intersection and NR-B (non-rural arterial) at the Main Street intersection. The need for a turn lane is based on roadway classification, design or posted speed, and design hour turning volume.

At US 24 & County Road, the threshold for requiring a left turn lane is 10 vehicles per hour, which is exceeded during the PM peak hour in the current conditions without the proposed project. At US 24 & Main Street, the threshold for requiring a left turn lane is 25 vehicles per hour, which is also exceeded during the PM peak hour in the current conditions. Any additional trips to these left turn movements would add to the need for a left turn lane and the proposed project is anticipated to add trips to these movements. Therefore, per the SHAC, left turn lanes should be installed at these intersections. Right turn volume is not anticipated to exceed the threshold for requiring a right turn deceleration lane at either intersection with the proposed project trips.

As discussed in the previous traffic impact study for this site, installing a left turn lane at US 24 & Main Street would require enormous effort due to the location of existing structures along both sides of US 24 around the intersection. Therefore, a variance was requested to not build this left turn lane and is continued to be requested with the new proposed site plan.

### **CONCLUSIONS/RECOMMENDATIONS**

It is anticipated that this project will generate 32 AM peak hour trips, 41 PM peak hour trips and 424 daily trips. The site historically has operated with six mobile home residences.

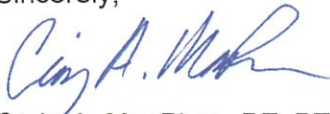
Therefore, the net change in trips to the surrounding transportation system may be slightly less than the values shown above. CDOT has a trip generation threshold of 100 peak hour trips by developments for requiring a traffic impact study. The estimated trips for the site are less than this threshold and are likely even less of a net impact when considering the historic use. Therefore, no additional traffic analysis should be required.

A previous traffic impact study was completed for the site in 2021 and the previous site plan included significantly more development and associated trips. This traffic study analyzed several intersections and found all of the study area intersections to operate at level of service (LOS) C or better for all conditions analyzed. The reduced number of residential dwelling units associated with the current plan is anticipated to generate significantly fewer trips. Therefore, the previous study area intersections are anticipated to operate at acceptable levels with the revised site plan.

An auxiliary lane evaluation was conducted utilizing CDOT access code criteria. A southbound left turn lane is currently required for the intersection of US Highway 24 & County Road based on existing traffic volumes. The proposed project is anticipated to add trips to this left turn movement.

Should you have any questions regarding this document or the information contained herein, please do not hesitate to contact me on my cell at 509-991-2803 or via email at [craig@civtrans.com](mailto:craig@civtrans.com).

Sincerely,



Craig A. MacPhee, PE, PTOE



NOT TO SCALE  
OCTOBER 3, 2022

**EXHIBIT 1**  
VICINITY MAP

**Civ****rans**  
ENGINEERING INC.





NOT TO SCALE  
OCTOBER 3, 2022

**EXHIBIT 3**  
EXISTING AERIAL

**Civ****rans**  
ENGINEERING INC.



**ATTACHMENT D**  
**MINTURN NORTH ECONOMIC IMPACT STUDY**

## **APPENDIX Q**

### **Town of Minturn Financial Impact and Estimated Tax Revenue Report**

**MINTURN NORTH**

September 19, 2022

**ECONOMIC IMPACT STUDY****Potential Incremental Revenue & Fiscal Impacts**

|                            | <u>Development</u> |
|----------------------------|--------------------|
| Number of Homes            | 39                 |
| Average Home and Lot Value | \$ 2,500,000       |
| Total Buildout Value       | \$ 97,500,000      |

**General Fund**

The General Fund includes new Property Tax @ 17.934 mill levy, Sales Tax @ 4% on incremental sales, Real Estate Transfer Tax @ 1% on new sales and resales, Building Permit Fees and intergovernmental revenues; minus incremental costs at an average of \$600 per residence, see Exhibit I for the period of 2023-2030 which shows excess Revenue over Expenditures of:

\$ 1,241,371

The resulting sustaining General Fund Revenue over Expenditures beginning in 2030 @ \$195,026 per year generates long-term capitalized value with 5% cap rate estimated as:

\$ 3,900,527

Construction Use Tax @ 4% of Materials, see Exhibit II:

\$ 1,170,000

**Water Enterprise (see Exhibit III)**

With Prepaid Water Tap Fee Revenue of \$392,280 and Water Enterprise SIF Revenue of \$904,670 and Cash in lieu Revenue of \$888,622 and Water User Fee Revenue for the period 2023-2030 of \$478,136 for a total of:

\$ 2,663,708

The resulting sustaining and ongoing Water User Revenue in 2030 of \$73,350 per year generates long-term capitalized value with 5% cap rate estimated as:

\$ 1,467,008

**TOTAL ECONOMIC IMPACT**

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**\$ 10,442,615****Note:**

- (1) Additionally, 1% Real Estate Transfer on initial sales and resales will generate \$236,500 over years 2023-2030 for the Community Fund with a sustaining value of \$4M at 5% cap rate (assuming 50% of sales are to non resident buyers), see Schedule 5.
- (2) Internal road maintenance is funded by the Property Owners Association.
- (3) Property donation to the Town of approx. 1 acre on the South end for Childrens Park, Open Space and Parking.



MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN  
CAPITAL FUND & COMMUNITY FUND  
FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030  
2022\$ (NO INFLATION)

September 16, 2022

EXHIBIT II - PROJECTED CAPITAL FUND REVENUES

CAPITAL IMPROVEMENT FUND REVENUES:

4% USE TAX (SCHEDULE 2)

TOTAL REVENUES

|                                   | 2023 | 2024    | 2025    | 2026    | 2027 | 2028 | 2029 | 2030 | TOTALS    |
|-----------------------------------|------|---------|---------|---------|------|------|------|------|-----------|
|                                   | 0    | 300,000 | 720,000 | 150,000 | 0    | 0    | 0    | 0    | 1,170,000 |
|                                   | 0    | 300,000 | 720,000 | 150,000 | 0    | 0    | 0    | 0    | 1,170,000 |
| EXPENDITURES:                     |      |         |         |         |      |      |      |      |           |
| NONE                              | 0    | 0       | 0       | 0       | 0    | 0    | 0    | 0    | 0         |
|                                   | 0    | 0       | 0       | 0       | 0    | 0    | 0    | 0    | 0         |
| TOTAL EXPENDITURES                | 0    | 0       | 0       | 0       | 0    | 0    | 0    | 0    | 0         |
| EXCESS REVENUES OVER EXPENDITURES | 0    | 300,000 | 720,000 | 150,000 | 0    | 0    | 0    | 0    | 1,170,000 |

EXHIBIT II - PROJECTED COMMUNITY FUND REVENUES

COMMUNITY FUND REVENUES:

1% RETT ON 50% OF SALES TO NON RESIDENT BUYERS (see bottom of Sched. 5)

TOTAL REVENUES

|                                   | 2023   | 2024   | 2025 | 2026   | 2027   | 2028   | 2029   | 2030   | TOTALS  |
|-----------------------------------|--------|--------|------|--------|--------|--------|--------|--------|---------|
|                                   | 68,500 | 43,000 | 0    | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 236,500 |
|                                   | 68,500 | 43,000 | 0    | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 236,500 |
| EXPENDITURES:                     |        |        |      |        |        |        |        |        |         |
| NONE                              | 0      | 0      | 0    | 0      | 0      | 0      | 0      | 0      | 0       |
|                                   | 0      | 0      | 0    | 0      | 0      | 0      | 0      | 0      | 0       |
| TOTAL EXPENDITURES                | 0      | 0      | 0    | 0      | 0      | 0      | 0      | 0      | 0       |
| EXCESS REVENUES OVER EXPENDITURES | 68,500 | 43,000 | 0    | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 236,500 |

MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN  
WATER ENTERPRISE FUND  
FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030  
2022\$ (NO INFLATION)

EXHIBIT III - PROJECTED WATER ENTERPRISE FUND REVENUES

| <u>WATER ENTERPRISE FUND</u>                    | <u>2023</u>      | <u>2024</u>      | <u>2025</u>      | <u>2026</u>      | <u>2027</u>      | <u>2028</u>      | <u>2029</u>      | <u>2030</u>      | <u>TOTALS</u>    |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Water Tap Fee Revenue (See Schedule 3)          | 392,280          | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 392,280          |
| Water SIF Fee Revenue (See Schedule 3)          | 226,050          | 558,720          | 119,900          | 0                | 0                | 0                | 0                | 0                | 904,670          |
| Water Cash in Lieu Fee Revenue (See Schedule 3) | 888,622          | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 888,622          |
| Water User Fee Revenue (See Schedule 3)         | 15,290           | 53,550           | 63,297           | 65,169           | 67,119           | 69,147           | 71,214           | 73,350           | 478,136          |
| <b>TOTAL WATER FUND REVENUES</b>                | <u>1,522,242</u> | <u>612,270</u>   | <u>183,197</u>   | <u>65,169</u>    | <u>67,119</u>    | <u>69,147</u>    | <u>71,214</u>    | <u>73,350</u>    | <u>2,663,708</u> |
| <b>TOTAL WATER FUND REVENUES - CUMULATIVE</b>   | <u>1,522,242</u> | <u>2,134,512</u> | <u>2,317,709</u> | <u>2,382,878</u> | <u>2,449,997</u> | <u>2,519,144</u> | <u>2,590,358</u> | <u>2,663,708</u> | <u>2,663,708</u> |

MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN  
 PROJECTED FIRE IMPACT FEE REVENUES  
 FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030  
 2022\$ (NO INFLATION)

September 16, 2022

EXHIBIT IV - FIRE IMPACT FEE REVENUES

|                                       | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> | <u>2027</u> | <u>2028</u> | <u>2029</u> | <u>2030</u> | <u>TOTALS</u> |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| FIRE IMPACT FEE REVENUES (SCH. 4)     | 16,710      | 40,104      | 8,355       | 0           | 0           | 0           | 0           | 0           | 65,169        |
| FIRE IMPACT FEE REVENUES - CUMULATIVE | 16,710      | 56,814      | 65,169      | 65,169      | 65,169      | 65,169      | 65,169      | #VALUE!     | #VALUE!       |

MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN  
 PROJECTED PROPERTY TAX REVENUES GENERATED FOR VARIOUS OVERLAPPING  
 TOWN OF MINTURN GOVERNMENTAL ENTITIES  
 FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030  
 2022\$ (NO INFLATION)

September 16, 2022

EXHIBIT V - PROJECTED PROPERTY TAX REVENUES GENERATED FOR OVERLAPPING TAXING ENTITIES

| PROJECTED ASSESSED VALUATION - MINTURN NORTH PUD         | ASSUMED<br>MILL LEVY | 2023 | 2024 | 2025 | 2026      | 2027      | 2028      | 2029      | 2030      | TOTALS    |
|--|----------------------|------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|
|  |                      | 0    | 0    | 0    | 2,787,500 | 6,577,500 | 6,971,250 | 6,971,250 | 6,971,250 | 6,971,250 |
| <u>OVERLAPPING ENTITIES (MINTURN IN TOWN MILL LEVY):</u> |                      |      |      |      |           |           |           |           |           |           |
| EAGLE COUNTY   | 8.499                | 0    | 0    | 0    | 23,691    | 55,902    | 59,249    | 59,249    | 59,249    | 59,249    |
| COLORADO MOUNTAIN COLLEGE                                | 4.013                | 0    | 0    | 0    | 11,186    | 26,396    | 27,976    | 27,976    | 27,976    | 27,976    |
| SCHOOL DISTRICT RE-50J                                   | 24.649               | 0    | 0    | 0    | 68,709    | 162,129   | 171,834   | 171,834   | 171,834   | 171,834   |
| TOWN OF MINTURN  | 17.934               | 0    | 0    | 0    | 49,991    | 117,961   | 125,022   | 125,022   | 125,022   | 125,022   |
| MINTURN CEMETERY   | 0.450                | 0    | 0    | 0    | 1,254     | 2,960     | 3,137     | 3,137     | 3,137     | 3,137     |
| EAGLE RIVER FIRE PROTECTION DISTRICT                     | 9.703                | 0    | 0    | 0    | 27,047    | 63,821    | 67,642    | 67,642    | 67,642    | 67,642    |
| EAGLE RIVER WATER AND SANITATION DISTRICT                | 0.759                | 0    | 0    | 0    | 2,116     | 4,992     | 5,291     | 5,291     | 5,291     | 5,291     |
| COLORADO RIVER WATER CONSERVATION DISTRICT               | 0.501                | 0    | 0    | 0    | 1,397     | 3,295     | 3,493     | 3,493     | 3,493     | 3,493     |
| EAGLE VALLEY LIBRARY DISTRICT                            | 2.763                | 0    | 0    | 0    | 7,702     | 18,174    | 19,262    | 19,262    | 19,262    | 19,262    |
| EAGLE COUNTY HEALTH SERVICE (AMBULANCE)                  | 2.774                | 0    | 0    | 0    | 7,733     | 18,246    | 19,338    | 19,338    | 19,338    | 19,338    |
| TOTAL - ALL OVERLAPPING ENTITIES                         | 72.808               | 0    | 0    | 0    | 200,825   | 473,876   | 502,244   | 502,244   | 502,244   | 502,244   |

Source: Eagle County Abstract of Levies 2021

**SCHEDULE 1**  
**MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN**  
**PROJECTED ASSESSED VALUATION - BUILDOUT & LOT SALES**  
**FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030**  
**2022\$ (NO INFLATION)**

| BUILDOUT - INCLUDES UNIT LOT VALUES AS SHOWN BELOW: |                               |                       |                           |                               |
|---|-------------------------------|-----------------------|---------------------------|-------------------------------|
| Description of Unit                                 | Planned<br>Number<br>of Units | Average<br>Value/Unit | Average<br>Square<br>Feet | Total<br>Gross Unit<br>Volume |
| Single Family Homes                                 | 39                            | 2,500,000             | 4,000                     | 97,500,000                    |
| Total Project                                       | <u>39</u>                     | 2,500,000             |                           | <u>97,500,000</u>             |
| Total Value - Entire Project                        |                               |                       |                           | <u>97,500,000</u>             |

**Estimated Actual Value of Residential**

Single Family Homes

Total Incremental Estimate Actual Value of Residential  
 Total Cumulative Estimate Actual Value of Residential

Estimate Assessed Value (Cumulative)  
 Estimated Assessed Value of Vacant Land @ 29%  
 Estimated Assessed Value of Residential Product @ 7.15%  
 Total Estimated Assessed Value of Vacant Land, Comm. & Resid.

TOWN OF MINTURN Mill Levy 17.934

Year Assessed Valuation Certified  
 Year Taxes Received

|  | 2023 | 2024       | 2025       | 2026       | 2027       | 2028       | 2029       | 2030       | 2031       |
|--|------|------------|------------|------------|------------|------------|------------|------------|------------|
|  | 0    | 10         | 24         | 5          | 0          | 0          | 0          | 0          | 0          |
|  | 0    | 10         | 24         | 5          | 0          | 0          | 0          | 0          | 0          |
|  | 0    | 10         | 34         | 39         | 39         | 39         | 39         | 39         | 39         |
|  | 0    | 25,000,000 | 60,000,000 | 12,500,000 | 0          | 0          | 0          | 0          | 0          |
|  | 0    | 25,000,000 | 60,000,000 | 12,500,000 | 0          | 0          | 0          | 0          | 0          |
|  | 0    | 25,000,000 | 85,000,000 | 97,500,000 | 97,500,000 | 97,500,000 | 97,500,000 | 97,500,000 | 97,500,000 |
|  | 0    | 1,000,000  | 500,000    | 0          | 0          | 0          | 0          | 0          | 0          |
|  | 0    | 1,787,500  | 6,077,500  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  |
|  | 0    | 2,787,500  | 6,577,500  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  | 6,971,250  |
|  | 0    | 49,991     | 117,961    | 125,022    | 125,022    | 125,022    | 125,022    | 125,022    | 125,022    |
|  | 2022 | 2023       | 2024       | 2025       | 2026       | 2027       | 2028       | 2029       | 2030       |
|  | 2023 | 2024       | 2025       | 2026       | 2027       | 2028       | 2029       | 2030       | 2033       |

**SCHEDULE 2**  
**MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN**  
**PROJECTED TOWN OF MINTURN 4.0% SALES AND USE TAXES**  
**FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030**  
**2022\$ (NO INFLATION)**

|   | <u>2023</u> | <u>2024</u> | <u>2025</u> | <u>2026</u> | <u>2027</u> | <u>2028</u> | <u>2029</u> | <u>2030</u> | <u>TOTALS</u> |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| <b>Projected Cumulative Households Completed (Occupied 1 year after completion)</b>   | 0           | 0           | 10          | 34          | 39          | 39          | 39          | 39          | 39            |
| <b>Projected Households:</b>  |             |             |             |             |             |             |             |             |               |
| Assumed Average Number of Residents per Household   | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00        | 3.00          |
| Assumed Number of Residents   | 0           | 0           | 30          | 102         | 117         | 117         | 117         | 117         | 117           |
| <b>Allocation of Types of Households:</b>   |             |             |             |             |             |             |             |             |               |
| Assumed Percentage of Households Occupied for Full Year   | 50.00%      | 50.00%      | 50.00%      | 50.00%      | 50.00%      | 50.00%      | 50.00%      | 50.00%      | 50.00%        |
| Assumed Percentage of Households Occupied for Half Year   | 25.00%      | 25.00%      | 25.00%      | 25.00%      | 25.00%      | 25.00%      | 25.00%      | 25.00%      | 25.00%        |
| Assumed Percentage of Households Occupied for Three Months  | 20.00%      | 20.00%      | 20.00%      | 20.00%      | 20.00%      | 20.00%      | 20.00%      | 20.00%      | 20.00%        |
| Assumed Number of Households Occupied for Full Year   | 0           | 0           | 5           | 17          | 20          | 20          | 20          | 20          | 20            |
| Assumed Number of Households Occupied for Half Year   | 0           | 0           | 3           | 9           | 10          | 10          | 10          | 10          | 10            |
| Assumed Percentage of Households Occupied for Three Months  | 0           | 0           | 2           | 7           | 8           | 8           | 8           | 8           | 8             |
| Assumed Total Number of Households  | 0           | 0           | 10          | 32          | 37          | 37          | 37          | 37          | 37            |
| Assumed Total Number of Full Year Equiv. Households   | 0           | 0           | 8           | 28          | 33          | 33          | 33          | 33          | 33            |
| <b>Projected Town of Minturn Taxable Sales Generated From Groceries/Residential Utilities/Other (liquor, sundries, hardware and materials, clothing, gifts, restaurants, etc.) per household:</b> |             |             |             |             |             |             |             |             |               |
| Assumed Annual Taxable Sales for Households Occupied for Full Year (1)  | 14,352      | 14,352      | 14,352      | 14,352      | 14,352      | 14,352      | 14,352      | 14,352      | 14,352        |
| Assumed Annual Taxable Sales for Households Occupied for Half Year  | 7,176       | 7,176       | 7,176       | 7,176       | 7,176       | 7,176       | 7,176       | 7,176       | 7,176         |
| Assumed Annual Taxable Sales for Households Occupied for Three Months   | 3,588       | 3,588       | 3,588       | 3,588       | 3,588       | 3,588       | 3,588       | 3,588       | 3,588         |
| <b>Projected Annual Taxable Sales Generated From Groceries/Residential Utilities/Other (liquor, sundries, hardware and materials, clothing, gifts, etc.):</b>                                     |             |             |             |             |             |             |             |             |               |
| Projected Annual Taxable Sales for Households Occupied for Full Year  | 0           | 0           | 71,760      | 243,984     | 279,864     | 279,864     | 279,864     | 279,864     | 279,864       |
| Projected Annual Taxable Sales for Households Occupied for Half Year  | 0           | 0           | 17,940      | 60,996      | 69,966      | 69,966      | 69,966      | 69,966      | 69,966        |
| Assumed Annual Taxable Sales for Households Occupied for Three Months   | 0           | 0           | 7,176       | 24,398      | 27,986      | 27,986      | 27,986      | 27,986      | 27,986        |
| <b>Projected Annual Sales from All Households - (Groceries/Utilities/Other)</b>   | 0           | 0           | 96,876      | 329,378     | 377,816     | 377,816     | 377,816     | 377,816     | 377,816       |
| <b>Projected 4.0% Town of Minturn Sales Tax Revenues from Groceries/Utilities/Other:</b>  |             |             |             |             |             |             |             |             |               |
| Projected 4.0% Sales Tax Revenues for Households Occupied for Full Year   | 0           | 0           | 2,870       | 9,759       | 11,195      | 11,195      | 11,195      | 11,195      | 11,195        |
| Projected 4.0% Sales Tax Revenues for Households Occupied for Half Year   | 0           | 0           | 718         | 2,440       | 2,799       | 2,799       | 2,799       | 2,799       | 2,799         |
| Projected 4.0% Sales Tax Revenues for Households Occupied for Three Months  | 0           | 0           | 287         | 976         | 1,119       | 1,119       | 1,119       | 1,119       | 1,119         |
| <b>Projected 4.0% Sales Tax Revenues from Groc./Util./Other - All Residents</b>   | 0           | 0           | 3,875       | 13,175      | 15,113      | 15,113      | 15,113      | 15,113      | 15,113        |
| <b>Projected 4.0% Sales Tax Revenues from North Minturn PUD to General Fund</b>   | 0           | 0           | 3,875       | 13,175      | 15,113      | 15,113      | 15,113      | 15,113      | 15,113        |
| <b>Projected 4% Town of Minturn Use Tax Revenues from Construction Materials:</b>   |             |             |             |             |             |             |             |             |               |
| Projected Bldg. Permit Value @ \$2.5M minus lot \$600k = 1.9M x 80% = \$1.5M Avg. Bldg. Permit  | 15,000,000  | 36,000,000  | 7,500,000   | 0           | 0           | 0           | 0           | 0           | 58,500,000    |
| Assumed Cost of Construction Materials @ 50% of Bldg. Permit Value, 1 yr. lag   | 0           | 7,500,000   | 18,000,000  | 3,750,000   | 0           | 0           | 0           | 0           | 29,250,000    |
| <b>Projected 4% Use Tax Construction Materials - Residential</b>  | 0           | 300,000     | 720,000     | 150,000     | 0           | 0           | 0           | 0           | 1,170,000     |

Note 1: The \$14,352 per household expenditure was estimated as follows: \$15,500,00 budgeted year 2019 taxable sales divided by 540 current Town of Minturn households = \$28,704 per household divided by two = \$14,352 sales taxable expend

**SCHEDULE 3**  
**MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN**  
**PROJECTED WATER TAP FEE AND USER FEE REVENUES**  
**FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030**  
**2022\$ (NO INFLATION)**

|   | 2023           | 2024           | 2025           | 2026          | 2027          | 2028          | 2029          | 2030          | TOTALS         |
|---|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Total Projec. Number of Incremental New Taps (subject to tap fee, SIF, cash in lieu fee)              | 4.00           | 24.00          | 5.00           | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 33.00          |
| Total Projec. Number of Existing Taps (subject to SIF only)   | 6.00           | 0.00           | 0.00           | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 6.00           |
| Cumulative Total  | <u>10.00</u>   | <u>34.00</u>   | <u>39.00</u>   | <u>39.00</u>  | <u>39.00</u>  | <u>39.00</u>  | <u>39.00</u>  | <u>39.00</u>  |                |
| <b>Projected Water Tap Fee, SIF Fee, and Cash in Lieu Fee Revenues:</b>                               |                |                |                |               |               |               |               |               |                |
| Assumed Tap Fee per 0-3,000 SF (3,001+ pays 2nd tap) per Town of Minturn (paid at permit; 3% increase | 5,604          | 5,772          | 5,946          | 6,124         | 6,308         | 6,497         | 6,692         | 6,893         |                |
| Assumed SIF Fee - Tier 1 (0 - 1,500 SF) per Town of Minturn (paid at permit; 3% increases)            | 4.60           | 4.74           | 4.88           | 5.03          | 5.18          | 5.34          | 5.50          | 5.66          |                |
| Assumed SIF Fee - Tier 2 (1,501 - 3,000 SF) per Town of Minturn (paid at permit; 3% increases)        | 5.81           | 5.98           | 6.16           | 6.35          | 6.54          | 6.73          | 6.94          | 7.14          |                |
| Assumed SIF Fee - Tier 3 (3,001+SF) per Town of Minturn (paid at permit; 3% increases)                | 6.99           | 7.20           | 7.42           | 7.64          | 7.87          | 8.11          | 8.35          | 8.59          |                |
| Assumed Cash in Lieu Fee per Town of Minturn (paid upfront; 3% increases)                             | 12.151         | 12.515         | 12.891         | 13.278        | 13.676        | 14.086        | 14.509        | 14.944        |                |
| <b>Projected Tap Fee Revenues</b>   | <u>48,604</u>  | <u>300,360</u> | <u>64,455</u>  | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>413,419</u> |
| <b>Prepaid Tap Fee Revenue (paid upfront)</b>   | <u>392,280</u> |                |                |               |               |               |               |               |                |
| <b>Projected SIF Fee Revenues</b>   |                |                |                |               |               |               |               |               |                |
| SIF TIER 1  | 69,000         | 170,640        | 36,600         | 0             | 0             | 0             | 0             | 0             | 276,240        |
| SIF TIER 2  | 87,150         | 215,280        | 46,200         | 0             | 0             | 0             | 0             | 0             | 348,630        |
| SIF TIER 3  | 69,900         | 172,800        | 37,100         | 0             | 0             | 0             | 0             | 0             | 279,800        |
| <b>Projected SIF Fee Revenues</b>   | <u>226,050</u> | <u>558,720</u> | <u>119,900</u> | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>904,670</u> |
| <b>Projected Cash in Lieu Fee Revenues (assumed 70 SFs paid upfront)</b>                              | <u>888,622</u> | <u>0</u>       | <u>0</u>       | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>888,622</u> |
| <b>Projected Water User Fee Revenues:</b>   |                |                |                |               |               |               |               |               |                |
| Assumed Average Annual Rate per dwelling unit (\$90.41 base +6.83x4 (assume 4,000 gallons per month)  | 1,529          | 1,575          | 1,623          | 1,671         | 1,721         | 1,773         | 1,826         | 1,881         |                |
| <b>Total Projected Water User Fee Revenues</b>  | <u>15,290</u>  | <u>53,550</u>  | <u>63,297</u>  | <u>65,169</u> | <u>67,119</u> | <u>69,147</u> | <u>71,214</u> | <u>73,350</u> | <u>478,136</u> |

SCHEDULE 4  
MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN  
PROJECTED FIRE IMPACT FEES  
FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030  
2022\$ (NO INFLATION)

September 16, 2022

Projected Fire Impact Fee Revenues (paid at permit):  
Assumed Average Rate per .75 inch water meter - Residential  
Projected Fire Impact Fee Revenues

|  | 2023          | 2024          | 2025         | 2026     | 2027     | 2028     | 2029     | 2030     | TOTALS        |
|--|---------------|---------------|--------------|----------|----------|----------|----------|----------|---------------|
|  | 1,671.00      | 1,671.00      | 1,671.00     | 1,671.00 | 1,671.00 | 1,671.00 | 1,671.00 | 1,671.00 |               |
|  | <u>16,710</u> | <u>40,104</u> | <u>8,355</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>65,169</u> |

**SCHEDULE 5**  
**MINTURN NORTH PUD - DIRECT FISCAL IMPACTS TO TOWN OF MINTURN**  
**PROJECTED REAL ESTATE TRANSFER ASSESSMENT (RETT)**  
**FOR THE YEARS ENDING DECEMBER 31, 2023 THROUGH 2030**  
**2022\$ (NO INFLATION)**

|   | 2023           | 2024          | 2025     | 2026          | 2027          | 2028          | 2029          | 2030          | TOTALS         |
|---|----------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|----------------|
| <b>INITIAL SALES</b>  |                |               |          |               |               |               |               |               |                |
| INCREMENTAL INITIAL LAND SALES  | 13,700,000     | 8,600,000     | 0        | 0             | 0             | 0             | 0             | 0             | 22,300,000     |
| 1% RETT ON INITIAL LAND SALES   | <u>137,000</u> | <u>86,000</u> | <u>0</u> | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>0</u>      | <u>223,000</u> |
| <b>RESALES</b>  |                |               |          |               |               |               |               |               |                |
| AVERAGE VALUE EACH HOME   | 0              | 0             | 0        | 2             | 2             | 2             | 2             | 2             |                |
| TOTAL RESALE REVENUE  | 0              | 0             | 0        | 2,500,000     | 2,500,000     | 2,500,000     | 2,500,000     | 2,500,000     |                |
| 1% RETT ON RESALES  | <u>0</u>       | <u>0</u>      | <u>0</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>250,000</u> |
| <b>TOTAL ANNUAL 1.0% RETT TO TOWN OF MINTURN GENERAL FUND</b>   | <u>137,000</u> | <u>86,000</u> | <u>0</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>50,000</u> | <u>473,000</u> |
| <b>TOTAL ANNUAL 1.0% RETT TO TOWN OF MINTURN COMMUNITY FUND</b><br>(Assuming 50% are Non-resident Buyers) | <u>68,500</u>  | <u>43,000</u> | <u>0</u> | <u>25,000</u> | <u>25,000</u> | <u>25,000</u> | <u>25,000</u> | <u>25,000</u> | <u>236,500</u> |

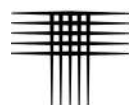


## **ATTACHMENT E RESUMES**

# Resume

**Chrissy Whitacre**

Environmental Technician



**CTL | THOMPSON**

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## Office Location

Denver, Colorado

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## Years of Experience

1 Year

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## Education

B.S. Environmental Science  
DePaul University  
2010

Ms. Whitacre joined CTL | Thompson in 2018 as an Engineering Field Technician for the Soils Department. Her past background includes plant identification and habitat remediation. Her current responsibilities include Phase I Environmental Site Assessments and Biological Evaluations.

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## Project Experience

### CTL/Thompson

Field technician managing soil inspections on construction sites, pier observation, pre-construction meetings, and field one-points to determine soil compaction curves; various projects, Colorado Front Range

Wetland Delineation, Gallegos Property, Mead, CO

Phase I ESA, Stapleton Northfield, Denver, CO

Phase I ESA, Legacy Ridge, Elizabeth, CO

Phase I ESA, 6985 East Chenango Avenue, Denver, CO

### Chicago Botanic Garden, Chicago, IL

Assisted in the evaluation of plants for green roofs, and planting trials. Maintained a photographic database of plants for documentation.

### Invasive Buckthorn Project, Chicago, IL

Assisted in the transformation of a habitat degraded by buckthorn into an outdoor laboratory, and the study of best methods to repair degraded habitats.

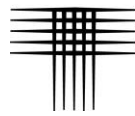
### SOYFACE Research Intern, Champaign, IL

Assisted in research on crops grown under elevated carbon dioxide and ozone levels, maintenance of research facility and assistance with grant writing.

### Rocky Mountain Catering, Denver, CO

Worked with a production team and families to put together weddings, and managed a staff to execute events.

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## Matthew L. Wardlow, P.E.

### Environmental Department Manager

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#### Office Location

Denver, Colorado

#### Years of Experience

20 Years

#### Professional

##### Registration

Registered Professional  
Engineer: Colorado

#### Education

B.S. Engineering and Policy,  
Washington University,  
St. Louis, MO, 1993

#### Training & Certifications

40 Hour OSHA Training

Confined Space Training

Mold Remediation  
Technician

Training Principals of Forced  
Air Remediation

Asbestos Inspector  
Air Monitoring Specialist  
Designer

#### Professional Affiliations

American Society of Civil  
Engineers

American Society of  
Foundation Engineers

Colorado Environmental  
Management Society

Urban Land Institute

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, CDPHE Voluntary Cleanup (VCP) applications, asbestos consultation, underground storage tank removals, site characterizations, and assessments under the National Environmental Policy Act. Mr. Wardlow reviews all environmental deliverables, making sure that the latest practices are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include the City & County of Denver, Auraria Campus and its colleges, and Boulder County. He encompasses a variety of project experience including brownfields, historical mine sites, medical facilities, and wastewater treatment plants.

#### Project Experience

##### Regency Athletic Complex at MSU Denver, Denver Colorado

##### **2016 ACEC CO GRAND CONCEPTOR AWARD – Highest Engineering Honor**

This former brownfield, located at the southern end of Auraria Campus, was the site of geotechnical and environmental issues from past industrial use. There was also the potential for settlement due to undocumented fill. Mr. Wardlow devised an idea using Deep Dynamic Compaction (DDC), which is a ground improvement technique that densifies the majority of soils and fills in-place by using a drop weight. CTL then provided on-site geotechnical and environmental inspection services, management of contaminants excavated, and also successfully entered the client into the State of Colorado Voluntary Cleanup Program. Measures were also taken to monitor air quality and vibrations from the impact. The solution was about 25% of the removal and replacement costs, and there has been no noticeable settlement.

##### Other Redevelopment/Voluntary Cleanup Projects:

Prepared Overall 2016 Auraria Campus Materials Management Plan

New Breckenridge Brewery – VCP – Remediation of Pesticides

Community College of Denver Confluence Building

Metro State Hotel and Hospitality Learning Center

Metro State Student Success Building

AHEC 5th Street Parking Garage – VCP – Coal Ash and Asbestos

Gold Hill Mesa - VCP - Subdivision Constructed on Mine Tailings

4<sup>th</sup> and Santa Fe – VCP Remediation of Chrome Plating Site

ConocoPhillips - Purchase/Redevelopment of 400-acre StorageTek

##### Other Major Projects and Clients

Denver Department of Environmental Health - 20+ P1 and P2 ESAs

CDOT - Over 30 Asbestos Surveys, Air Clearances of Buildings

Land Developers - Due Diligence Studies and SWMP Consultation

Urban Land Conservancy - P1 and P2 ESAs, IAQ Concerns

CU Boulder - Asbestos Consultant - Ketchum Hall, Hallett Hall

Homebuilders - Due Diligence, Mold and Moisture Consultation

Boulder County Risk Management - On-Call Industrial Hygienist

Boulder Valley School District - On-Call Asbestos Consultant

Regis University - P1 ESA of 7 Parcels of Campus