# Expanded Disposal Cell Design

# Mt. Taylor Mine

# Existing Mine Permit No. CI002RE

*Prepared for:*

**Rio Grande Resources**

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## TABLE OF CONTENTS

**1.0 INTRODUCTION ..... 7**
**2.0 CURRENT SITE CONDITIONS ..... 9**
2.1 Location and Land Use ..... 9
2.2 Geology ..... 9
2.3 Results of January 2025 Field Investigation ..... 11
2.4 Results of Laboratory Testing for the Site ..... 12
2.4.1 Historical Laboratory Testing ..... 12
2.4.2 Laboratory Testing Completed in 2025 ..... 12
2.5 Seismicity ..... 13
2.6 Climate ..... 13
**3.0 DESIGN CRITERIA ..... 15**
**4.0 EXPANDED DISPOSAL CELL DESIGN ..... 17**
4.1 General ..... 17
4.2 Description of Cover ..... 17
4.3 Frost Penetration Analysis ..... 17
4.4 Radon Attenuation ..... 18
4.5 Biointrusion ..... 19
4.6 Infiltration Analysis ..... 20
4.6.1 General ..... 20
4.6.2 Method of Analysis ..... 20
4.6.3 Parameters Used for Analysis ..... 21
4.6.4 Results of Infiltration Analysis ..... 23
4.7 Settlement Analysis ..... 23
4.7.1 General ..... 23
4.8 Slope Stability Analysis ..... 23
4.8.1 General ..... 23
4.8.2 Method of Analysis ..... 23
4.8.3 Material Properties ..... 24
4.8.4 Results of Analysis ..... 24
4.9 Surface Water Hydrology and Erosion Protection ..... 24

4.9.1 Rock Mulch Cover ..... 24
4.10 Grading ..... 24
4.11 Borrow Source Location and Characterization ..... 24
4.11.1 Borrow Source Locations ..... 25
4.11.2 Borrow Source Characterization ..... 25
4.12 Borrow Source Quantities ..... 25
4.13 Revegetation of Disturbed Areas ..... 26
4.13.1 Seedbed Preparation ..... 26
4.14 Material Placement ..... 26
**5.0 CONCLUSIONS ..... 28**
**6.0 REFERENCES ..... 28**

## LIST OF TABLES

Table 4.1 Highlight of design measures against ecological threats in the cover design

Table 4.2 Soil Parameters used for the Analysis

Table 4.3 Proposed Seed Mix and Application Rates

## LIST OF FIGURES

Figure 2-1 Site Location Plan
Figure 2-2 Detailed Site Plan
Figure 2-3 Test Pit Location Map
Figure 4-1 Cover Design Profile
Figure 4-2 Infiltration Analysis Model Profile
Figure 4-3 Section used for the Stability Assessment
Figure 4.4 Results of the Slope Stability Analyses Results
Figure 4-5 Results of the Pseudo-Seismic Slope Stability Results
Figure 4-6 Location of Burrow Sources

## LIST OF APPENDICES

Appendix A Test Pit Logs for 2025 Field Investigation

Appendix B Results of Geotechnical Laboratory Testing for Mt Taylor Disposal Cell

Appendix C Seismic Hazard Analysis – Mt. Taylor

Appendix D Technical Memorandum – Frost Depth Analysis

Appendix E Technical Memorandum – Radon Cover Design and

Appendix F Selected Results of Infiltration Analysis

## ABBREVIATIONS

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| bgs | Below Ground Surface |
| CCD | Counter-current Decantation |
| cy | Cubic Yards |
| DBS&A | Daniel B. Stephens & Associates, Inc. |
| DQO | Data Quality Objectives |
| EA | Engineering Analytics, Inc. |
| EPA | Environmental Protection Agency |
| g | The unit for peak ground acceleration, the acceleration due to Earth's gravity |
| IPCC | Intergovernmental Panel on Climate Change |
| HDPE | High Density Polyethylene |
| K | Hydraulic Conductivity |
| MARSSIM | Multi-Agency Radiation Survey and Site Investigation Manual |
| MSL | Mean Sea Level |
| NOAA | National Oceanic and Atmospheric Administration |
| NRC | Nuclear Regulatory Commission |
| pcf | Pounds per Cubic Foot |
| pCi | picoCuries |
| PI | Plasticity Index |
| QAPP | Quality Assurance Project Plan |
| SWCC | Soil Water Characteristic Curves |
| SOPs | Standard Operating Procedures |
| TEDE | Total Effective Dose Equivalent |
| UMTRCA | Uranium Mill Tailings Radiation Control Act |
| USCS | Unified Soil Classification System |
| USGS | United States Geological Survey |
| UDEQ/DWMRC | Utah Department of Environmental Quality, Division of Waste Management and Radiation Control |
| DRC | Division of Radiation Control |

# 1.0 INTRODUCTION

This report outlines the planned expansion of the disposal cell at the Mt. Taylor Uranium Mine facility in Cibola County, New Mexico. The primary aim of this project is to ensure the safe and efficient accommodation of additional volume of radioactive and contaminated waste arising from the mining activities at the site. The proposed design adheres to relevant state and federal regulations, including those issued by the U.S. Nuclear Regulatory Commission (NRC), along with guidelines provided by the New Mexico Environment Department (NMEND) and the Energy, Minerals, and Natural Resources Department. Such regulatory compliance is essential to protect human health and the environment.

The technical foundation for disposal cell expansion incorporates several fundamental components. Earthwork and grading activities will reshape the site to optimize drainage, limit water infiltration, and establish a stable base for the expanded disposal cell. The cover system will utilize locally sourced clay borrow materials, as characterized during the January 2025 field investigation, to form a low-permeability barrier designed to prevent water ingress and reduce the potential for contaminant migration. Additional engineered layers, such as protective topsoil and vegetation, will be integrated to bolster erosion resistance, and support the structure's long-term stability.

Erosion control strategies are embedded within the expansion plan to shield the disposal cell from degradation caused by wind and water. These measures may include installing riprap or geotextile armor in vulnerable areas, constructing stormwater retention ponds, and developing diversion channels. The design considers the site's complex stratigraphy, drawing on recent geotechnical data to confirm the appropriateness of selected construction materials and containment approaches. The choice of cover systems and engineering methods is informed by the unique geological and hydrological conditions present at Mt. Taylor, including clay-rich sequences in the Menefee Formation and the natural containment properties of the Mancos Shale.

Prepared for Rio Grande Resources (RGR) by Engineering Analytics, Inc. (EA), this report reflects a comprehensive assessment of site conditions, regulatory mandates, and findings from recent field and laboratory studies. The following sections present detailed engineering analyses, modeling outcomes, and implementation recommendations to guide the execution of the proposed expansion, while maintaining ongoing compliance and safeguarding local communities and environmental resources.

# 2.0 CURRENT SITE CONDITIONS

## 2.1 Location and Land Use

The Mt. Taylor uranium mine is approximately 25 miles northeast of Grants, New Mexico. The mine was initially developed by Gulf Mineral Resources (Gulf) in 1971. Figure 2-1 shows the site location plan. Following surface drilling, several ore bodies were identified across a span of over seven miles, with estimated reserves totaling 120 million pounds of uranium oxide (Alief and Kern, 1989). Two shafts, measuring 24 feet and 14 feet in diameter were constructed to access ore deposits located 3,100 to 3,200 feet beneath the surface within the Westwater Canyon Member of the Morrison Formation. Figure 2-2 shows the detailed site plan. These shafts employed drill-and-blast excavation methods and were reinforced with concrete for enhanced safety. In the 1970s, wells were installed to extract groundwater for mining operations.

Mining activities commenced in 1980 but ceased in September 1982 due to unfavorable market conditions. Ownership transferred to Chevron Resources Company following a merger with Gulf in 1985, leading to the resumption of mining from 1986 to 1990 utilizing standard underground room-and-pillar techniques. During this period, approximately 675,000 tons of uranium ore and about 698,000 tons of waste rock were extracted.

In 1991, Rio Grande Resources Corporation (RGR) acquired the site but did not resume mining operations owing to unfavorable market conditions. Beginning in 2019, RGR initiated mine closure and land reclamation efforts under the oversight of the New Mexico Environment Department (NMEND) and the Energy, Minerals, and Natural Resources Department. Prior to closure, surface infrastructure at the site included two shafts, an ore stockpile, a waste rock pile, stormwater retention ponds, a sewage treatment plant, an ion exchange facility, eight clay-lined treatment ponds, and various ancillary support structures.

## 2.2 Geology

The geologic setting of the mine has been described in detail in the Baseline Study prepared by New Mexico Environmental Institute (NMEI) in 1974 (NMEI, 1974) and the Site Assessment submitted in 1994 (RGR, 1994a). Deposits of Quaternary age rock and soil exposed in the area consist of unconsolidated talus, alluvial, and eolian sediments. Extensive areas on the slopes adjacent to the high basalt-covered mesas to the south, southwest, and east of the mine are covered by talus, landslides, and black lava blocks. Beneath the valleys and lower topographic slopes, clay, silt, sand, and gravel alluvial lenses are present (NMEI, 1974).

The deepest geologic formation encountered in the Mount Taylor mine shaft is the Jurassic-age Morrison Formation. This formation consists, in ascending order, of the Recapture Creek, Westwater Canyon, and Brushy Basin members. The Recapture Creek member occurs at a depth between 3,240 and 3,300 feet below ground surface (ft bgs) in the mine shaft pilot well. This member grades vertically into the overlying Westwater Canyon member. The transition to the Westwater Canyon member marks a change in lithology, and its thickness varies due to lensing and vertical gradations into both the Brushy Basin and Recapture Creek members. At the mine site, the Westwater Canyon member is divided into Upper and Lower units by a persistent shale layer. The lower sandstone unit is 60 to 70 feet thick, while the upper sandstone unit measures about 100 feet thick in the mine shaft area. These sandstone units contain most of the uranium ore

reserves of mine. Above the Westwater Canyon member, the Brushy Basin member conformably overlies and interfingers with it. The Brushy Basin is approximately 80 feet thick and consists of shales and claystones at the mine shaft.

Above the ore-bearing Morrison Formation is a sequence of sedimentary units approximately 2,950 feet thick. The first of these is the Dakota Sandstone, which unconformably overlies the Brushy Basin member. The Dakota Sandstone is 50 to 60 feet thick and is only slightly mineralized, thus not mined at Mt. Taylor Mine. The Dakota Sandstone conformably intertongues with the overlying Mancos Shale.

Next in the stratigraphic sequence is the Mancos Shale, which is 900 feet thick and composed chiefly of dark-gray, calcareous, marine clay shale. This unit also contains interspersed sandstone beds. The lowermost portion of the Mancos Shale includes three sandstone units known as the Upper, Middle, and Lower Tres Hermanos Sandstones, which are 72 feet, 45 feet, and 118 feet thick, respectively, at the mine shaft pilot well (McGlothin, 1972).

Continuing upward, the Mancos Shale extends to the base of the Gallup Sandstone at approximately 2,050 feet bgs. The Gallup Sandstone consists of two separate sandstone units divided by 130 feet of dark gray shale. Overlying the Gallup Sandstone is the Crevasse Canyon Formation, which includes, in ascending order, the Dilco Coal, the Stray Sand, the Mulatto Tongue of the Mancos Shale, the Dalton Sandstone, and the Gibson Coal. The Point Lookout Formation conformably overlies the Crevasse Canyon Formation.

Above the Crevasse Canyon Formation lies the Point Lookout Formation, which is the basal unit of the Mesa Verde Group. This formation is typically encountered between 700 and 850 feet bgs at the mine site. Near the mine, it is separated into two units by the Satan Tongue of the Mancos Shale. The upper unit, referred to as the Point Lookout Sandstone, is the main body and is typically 110 to 130 feet thick. The lower unit is the Lower Hosta Tongue, a transgressive marine beach sandstone that is between 80 and 100 feet thick. Along the southern margin of the basin, both units merge into a combined unit approximately 250 feet thick. The Lower Hosta Tongue is of limited areal extent, pinching out 30 miles northeast of its outcrop. The Point Lookout Sandstone comprises thick- to very thick-bedded, very fine- to medium-grained, locally cross-bedded sandstones. Notably, the Point Lookout aquifer provides the domestic water supply for both the mine and the Village of San Mateo.

The uppermost geological unit present at the mine is the Menefee Formation. It forms uneven slopes around the mine and near the Village of San Mateo. The Menefee Formation is composed of interbedded pale yellowish-brown siltstone, fine to medium-grained sandstone, gray shale, carbonaceous shale, and thin coal beds. Its thickness in the mine shaft is approximately 767 feet (NMEI, 1974). Mine water treatment pond basins were excavated into the Menefee Formation, and both the manway/vent and production shafts are collared in this unit.

The stratigraphic complexity at the site affects groundwater flow, material properties, and mine closure planning. Aquifers like the Point Lookout Sandstone supply water to the area and are separated from deeper systems by low-permeability units such as Crevasse Canyon and Mancos Shale, which function as natural barriers against contamination. The Menefee Formation,

containing various sediments and coal beds, impacts surface facility stability and provides material for disposal cell expansion, with its clay-rich layers important for cover design to limit infiltration and erosion.

Accurate geological profiling is vital for selecting construction materials, designing effective waste containment strategies, and ensuring regulatory compliance. Upcoming sections will detail recent field studies and lab tests that further inform expansion plans.

## 2.3 Results of January 2025 Field Investigation

Engineering Analytics excavated 24 test pits and collected samples from three proposed borrow sites to assess clay material for disposal cell cover. In January 2025, EA used a CAT backhoe to dig the pits (A-1 to A-6, B-1 to B-5, C-1 to C-13), each about 6 feet deep. Figure 2.3 shows the test pit locations. The test pits logs are provided in Appendix A. Subsurface conditions included:

**Topsoil:**
The topsoil thicknesses at the site range from 2 inches to 6 inches. The topsoil consists of organics, loose sand, and is very dry.

**Sand:**
The topsoil is underlain by a sand layer at all the test pit locations except at locations A-6, B-1, B-2, C-2, and C-8. Silty sand underlies the topsoil at location A-6, sand and gravel at location B-1, and clay at location B-2. Sany clay lies beneath the topsoil at C-2 and C-8 test-pit locations. The sand layer is loose to very loose, frozen at some locations, dry to moist, and fine in texture. The termination depths of the sand layer range from 3 feet to the excavation depth of 6 feet.

**Sand and Gravel:**
Sand and gravel layer underlies the topsoil at test pit location B-1. This layer is loose, dry, and non-plastic. This layer extends to a depth of three feet at the test pit location. This layer is only peculiar to test-pit location B-1.

**Silty Sand:**
At test pit location A-6, a silty sand layer underlies the topsoil and extends to a depth of 4 feet. This layer is moist, loose, and very fine in texture.

**Clay:**
A thin layer of clay underlies the topsoil at test pit location B-2. The clay is stiff, low plastic, and moist. The clay layer extends to a depth of one foot and is found frozen during the investigation.

**Sandy Clay:**
Sandy clay is present at most test pit sites, except A-3, A-6, B-2, B-3, B-5, and C-12. This material is stiff to very stiff, dry, and brittle when frozen, and lies below the sand layer at depths of 3 to 4 feet, extending to 6 feet. At C-13, there is no sand layer, and at C-4, sandy clay ends at 5 feet underlain by sand. The absence of sandy clay at A-3, A-6, B-2, B-3, B-5, and C-12 may be due to limited excavation depth.

**Siltstone:**

Siltstone is present beneath the silty sand layer at the test pit location A-6. The siltstone is dry, fine, and has fragments of silt. The siltstone extends from a depth of 4 feet to the termination depth of the excavation at 6 feet. This is the only location of occurrence from the limited depth of the test pit excavation.

## 2.4 Results of Laboratory Testing for the Site

### 2.4.1 Historical Laboratory Testing

Engineering Analytics (EA) personnel conducted a review of previous laboratory testing associated with the site and supplemented these efforts with additional laboratory analyses to support the disposal cell expansion design. The prior testing referenced includes data from Hydro Engineering (2005b), Tetra Tech (2008a, 2008b), and Advanced Terra Testing (2008). Both the historical data and the tests performed by EA in 2025 formed the basis for the analysis undertaken for the disposal cell expansion design.

### 2.4.2 Laboratory Testing Completed in 2025

Selected material samples from Borrow Sources A, B, and C (see Figure 2.3) underwent laboratory testing to determine their physical and geotechnical properties for the disposal cell expansion design. Tests included water content, Atterberg limits, standard Proctor compaction, soil water characteristics, and consolidated undrained triaxial tests. EA performed and summarized these tests below. Test-pit logs and laboratory reports are provided in Appendices A and Appendix B, respectively.

**Water Content:** Measurements of water content and dry density were conducted on selected samples in accordance with ASTM test methods D2216 and D2937, respectively. The water content of the tested samples ranged from 4.6% to 24.1%. For the clay, silty clay, and sandy clay samples, the moisture content ranged from 6.8% to 24.1%, with an average of 11.7%, and a mode of 9.7%.

**Atterberg Limits:** Atterberg limits were determined for selected samples in accordance with ASTM test method D4318. These measurements facilitate the classification of soil. Based on the Unified Soil Classification System (USCS), a total of forty-eight (48) samples were analyzed: nine (9) were identified as non-plastic (NP), twenty-nine (29) as low plasticity clay (CL), two (2) as high plasticity clay (CH), three (3) as low plasticity silt (ML), and five (5) as low plasticity clay or silt (CL-ML). Discrepancies between field descriptions and laboratory classifications, observed in approximately 50% of cases, may be attributed to the frozen condition of the samples during field collection, which could have obscured soil fineness.

**Standard Proctor Compaction Tests:** Eight Standard Proctor Compaction Tests were conducted following ASTM test method D698. For the clay, silty clay, and sandy clay samples, maximum dry density ranged from 89.8 to 110.4 pcf, with optimum moisture content (OMC) varying between 16.1% and 26.6%. Sand soil specimens exhibited maximum dry densities from 111.1 to 117.6 pcf, with corresponding OMC values ranging from 12.2% to 15%.

**Consolidated Undrained (CU) Triaxial Tests:** EA performed two CU triaxial tests with pore pressure measurements per ASTM D4767 at its certified lab. This method assesses strength and

stress-strain properties of saturated cohesive soil specimens by isotropic consolidation followed by undrained axial compression at a constant strain rate, allowing calculation of total and effective stresses from measured axial load, deformation, and pore-water pressure. The tests results on remolded clay samples showed an average effective friction angle of 31$^{o}$ with zero effective cohesion.

## 2.5 Seismicity

EA conducted a seismic hazard analysis for Rio Grande Resources (RGR) pertaining to the Mt. Taylor Uranium Mine in New Mexico. The objective was to determine peak horizontal ground acceleration (PGA) for stability assessments, specifically focusing on a 10,000-year return period. The site is located within the Colorado Plateau, which exhibits structural stability, though it is proximate to tectonically active regions including the Rio Grande Rift and the Jemez Lineament. The local geology comprises Quaternary alluvium overlying the Cretaceous Menefee Formation. Seismicity at the site is considered low and influenced by regional tectonics rather than active volcanism.

The assessment incorporated a review of historical earthquakes within 300 kilometers of the facility, with detailed analysis of events within 100 kilometers. The historical record, spanning 1568 to 2025, indicates low seismic activity, with only a few moderate events occurring near the site. The largest recorded earthquake had a magnitude of 5.9 and was situated approximately 160 km away, while the nearest significant event (Mw 4.08) occurred 13 km from the facility.

Both deterministic and probabilistic analyses were performed. The deterministic approach identified a maximum PGA of 0.09g from a hypothetical random earthquake (MCE 6.3) located 15.1 km from the site. The probabilistic analysis, accounting for uncertainties and recurrence intervals, calculated a mean PGA of 0.21g for the 10,000-year return period. These results are consistent with, but slightly lower than those provided by the USGS Earthquake Hazard Toolbox and are recommended for engineering stability assessments at the mine. Based on this value, a pseudostatic seismic coefficient equal to two-thirds of the PGA (0.14g) was applied in seismic evaluations of the disposal cell. Appendix C presents the results of the seismic hazard analysis.

In conclusion, the seismic hazard at Mt. Taylor Mine is assessed as relatively low, with background seismicity representing the primary risk as opposed to nearby fault activity. The findings are supported by the best available data and methodologies; however, revisions may be warranted should added information emerge.

## 2.6 Climate

Mount Taylor Mine is located on the southwestern slope of Mount Taylor within the Colorado Plateau—a region characterized by rugged mesas and volcanic terrain situated at elevations surpassing 7,000 feet. This high-altitude environment contributes to unique climatic conditions that influence both natural ecosystems and engineered mining operations.

The area exhibits a cold semi-arid (BSk) climate, with warm summers and cold winters. Summer is distinguished by notable monsoonal activity, resulting in most annual precipitation occurring between July and September. These storms, though vary in intensity, deliver critical moisture for

local ecological systems. Winters are typically cold yet dry, with average snowfall amounting to approximately 7.5 inches per year. The region experiences significant diurnal and seasonal temperature fluctuations, leading to swift transitions between daytime warmth and nocturnal coolness, particularly during transitional periods.

Annual precipitation averages between 10 and 15 inches, primarily due to the summer monsoon; however, precipitation levels display substantial interannual variability, including extended dry intervals punctuated by intense, short-duration storm events. Such variability directly impacts surface runoff, groundwater recharge, and the performance of engineered cover systems. According to data from the Western Regional Climate Center, the mean annual pan evaporation is 63 inches; when adjusted with a coefficient of 1.3, the corresponding natural evaporation rate rises to 81.9 inches per year. Elevated evaporation rates—driven by strong solar radiation and low humidity—further constrain water availability and affect soil moisture levels essential for vegetation establishment and reclamation activities.

The site's mean annual temperature is 52°F, with extreme lows recorded at 15.6°F in winter and highs reaching up to 89.7°F during summer months. Substantial temperature fluctuations on a daily and seasonal basis impact freeze-thaw cycles, soil stability, and the structural integrity of engineered solutions. These thermal extremes also shape the physiological limitations and spatial distributions of indigenous plant and animal communities.

Prevailing winds are moderate but can become pronounced during weather fronts and storm events, thereby increasing evaporation rates and affecting microclimatic conditions throughout the mine property. Wind-induced desiccation reduces soil moisture retention and may intensify erosion risks, especially on exposed slopes and engineered covers. Additionally, wind patterns influence seed dispersal and particulate transport, which bear upon site revegetation and air quality management.

Vegetation across the site is sparse and dominated by drought-resistant species. Piñon-juniper woodlands occupy mid-elevations; grasslands and shrublands are present on lower slopes and plateaus, while coniferous forests are found at higher elevations. Limited precipitation and high evaporation restrict riparian corridor development, confining such zones to stream channels where willow and cottonwood thrive. Local fauna is well-adapted to these challenging conditions, comprising species such as mule deer, elk, pronghorn, coyote, jackrabbit, raptors, songbirds, and various reptiles and amphibians. These animals exhibit adaptations related to water conservation, thermal regulation, and seasonal migration according to resource dynamics.

Mount Taylor Mine's climate is marked by fluctuating precipitation, temperature extremes, high evaporation, and moderate winds affect environmental management and compliance. Cover systems must prevent moisture loss, handle freeze-thaw cycles, and resist erosion. Effective restoration depends on using vegetation suited to semi-arid conditions. Understanding these factors is essential for successful long-term containment and ecological recovery.

## 3.0 DESIGN CRITERIA

Disposal cells for uranium mill tailings must meet several regulatory standards:

- The Uranium Mill Tailings Radiation Control Act (UMTRCA) requires secure, long-term containment and environmental protection.
- EPA Standards (40 CFR Part 192) mandate that covers remain effective for 1,000 years where feasible, and at least 200 years in all cases, limiting radon emissions and groundwater pollution.
- NRC Requirements (10 CFR Part 40, Appendix A) set technical guidelines for building, operating, and closing uranium waste disposal sites, including specifications for tailings impoundments and covers.

The disposal cell is designed to contain and isolate uranium waste, current methods use an engineered multi-layer cover. A radon barrier of sufficient thickness is placed directly above the uranium waste to restrict radon release to 20 pCi/m²/s and reduce water infiltration. Above this, a specially designed cover system that minimizes both water penetration and erosion, resists animal burrowing, and is thick enough to withstand frost is placed.

For rock covers, a filter or bedding layer is put on top of the radon barrier under the erosion-protection (riprap) layer. This filter stops rocks from penetrating the radon barrier, aids drainage, and reduces water entry into the tailings. Filter criteria for uranium tailings caps are commonly based on Sherard et al. (1984), which link filter design to the fine content (% < No. 200 sieve) of various soils.

DOE (1988) expanded Sherard's criteria with these additions:

- Filter material should pass a 3-in. (76.2-mm) sieve to avoid particle segregation and bridging during installation; smaller maximum sizes may be used if needed. Filters should not have over 5% passing the No. 200 mesh sieve to prevent excess fine movement within the filter.
- Filter material needs to be well graded throughout.
- Filters for gap-graded bases may need finer grading than Sherard's basic criteria suggest.
- The minimum thickness of the filter should be 6 in. (152.4 mm) to aid placement.

The rock layer's thickness must be no less than the spherical diameter of the upper limit D100 rock, or at least 1.5 times the diameter of the upper limit D50 rock, whichever is larger. Using Sherard's filter design creates a stable, erosion-resistant cover to protect tailings, but recent field data shows slow drainage, especially on flat slopes (S < 5%). Water can persist and infiltrate the radon barrier and tailings, raising risks to groundwater.

Recommendations for the cover system include adding a thick, fine-grained soil layer for water storage over a coarse capillary break to hinder downward water flow—mimicking natural conservation and decreasing infiltration. The erosion control layer should prevent slumping and subsidence and can incorporate rock armor, vegetation, and careful gradation.

The New Mexico Copper Rule (N.M. Code R. § 20.6.7.33) outlines specific cover thickness requirements for the closure of copper mine facilities, summarized as follows:

- Upon closure, waste rock piles, leach stockpiles, tailing impoundments, and other units with potential for leachate generation must be covered using a store-and-release earthen cover system.
- The required cover must consist of 36 inches (3 feet) of earthen material suitable for sustaining vegetation without ongoing supplementation and featuring erosion-resistant properties.
- The system should minimize net percolation by retaining at least 95% of long-term average winter precipitation or 35% of long-term average summer precipitation, whichever is higher.
- Erosion rates should be comparable to those found on stable slopes in the surrounding landscape.

Cover thickness may be reduced when placed over lined units, or if an alternative design offers equivalent or improved groundwater protection. Such alternatives necessitate a robust modeling study, an appropriate performance monitoring plan, and independent third-party review.

While the Copper Rule pertains specifically to copper mining operations, EA intends to integrate selected elements into locations with a planned vegetative cover.

Minimal infiltration and absence of ponding atop the cover are essential, so surface water management is required, such as diversion channels, berms, and proper grading. Site selection and cell design must reduce groundwater contamination risk, using liners or natural low-permeability soils where suitable.

Proper compaction of waste and cover materials is necessary to avoid settlement and maintain structure. Quality control procedures (like moisture-density tests) are performed during construction. Slope stability and the integrity of the cover must be checked regularly to ensure long-lasting performance. Designs must allow for monitoring and addressing subsidence or deformation over time, and all elements should be chosen for long-term chemical and physical stability suitable for local conditions. Finally, the cell must remain accessible for periodic inspection, maintenance, and environmental monitoring.

In addition to regulatory compliance and engineering controls, site-specific environmental conditions must be considered when designing disposal cell covers. Factors such as local climate, soil characteristics, topography, and hydrology play a critical role in determining the effectiveness and durability of the cover system. For example, regions with high evaporation rates or pronounced freeze-thaw cycles may require thicker protective layers and specialized materials to minimize moisture loss, prevent frost penetration, and ensure vegetation establishment. Furthermore, ongoing monitoring of climatic variables and cover performance allows for adaptive management, ensuring that the disposal cell remains secure and environmentally protective over the long term. Integrating these environmental considerations into the engineering design helps to safeguard groundwater resources, support ecological recovery, and achieve sustainable reclamation goals tailored to the specific challenges of each site.

# 4.0 EXPANDED DISPOSAL CELL DESIGN

## 4.1 General

Reclamation of the waste rock and associated clean up material is organized into two distinct phases, each designed to promote structural stability, effective drainage, and long-term environmental protection.

The integrated disposal cell cover is purposefully engineered to address key factors such as frost penetration, radon attenuation, biointrusion, infiltration, and erosion protection, as detailed in Sections 4.3 through 4.11. This multi-layered system begins with a 12-inch rock mulch layer that provides robust erosion control, followed by 42 inches of onsite soils designed to defend against biointrusion and frost. Beneath this, a 12-inch sand filter serves as a capillary break to impede moisture movement, while the lowermost 12-inch compacted clay layer is specifically intended to minimize both water infiltration and the emanation of radon gas. Together, these layers work in concert to ensure long-term effectiveness and environmental safety of the disposal cell cover.

Cover performance has been validated against regulatory limits, with radon flux consistently below NRC requirements (20pCi/m²/s), and frost penetration analyses confirming adequate protection.

The reclamation and cover system adheres to multiple regulatory requirements and technical guidelines, including **10 CFR 61.56** for structural stability, **DOE** and **NRC** criteria for cover system performance, and selected aspects of the **New Mexico Copper Rule (N.M. Code R. § 20.6.7.33)** for vegetative cover and percolation control. These standards govern material selection, layer thickness, erosion resistance, and groundwater protection. Compliance is ensured through robust modeling, performance monitoring, and independent review as outlined throughout the referenced sections.

## 4.2 Description of Cover

After filling and grading, the expanded disposal cell cover will be placed over the waste material. The final cover system will consist of the following layers from top to bottom:

- 12 inches of rock mulch cover for erosion protection
- 42 inches of onsite soil for bio intrusion and frost protection
- 12 inches of sand filter layer for capillary break; and
- 12 inches of clay layer to minimize infiltration and emanation of radon gas.

A schematic of the cover is illustrated in Figure 4-1. Analyses for the cover design are summarized in the following sections.

## 4.3 Frost Penetration Analysis

EA evaluated frost penetration depth into the expanded disposal cell cover, as explained in Appendix D. Using a method developed by the U.S. Department of Energy (DOE, 1989) and endorsed by the Nuclear Regulatory Commission, the analysis considered local climate, soil type,

and moisture levels over the lifetime of the cover. The approach, based on Berggren's work (1943), uses site-specific calculations to estimate frost depth. Smith and Rager (2002) advanced these ideas to determine the required thickness of protective soil above compacted layers to shield against frost.

For this study, EA assessed the worst-case climate scenario, a 200-year recurrence interval event with only a 0.5% chance of occurring annually. Under these extreme conditions, frost was predicted to penetrate up to 45 inches into the cover. The design provides 66 inches of material above the radon barrier, ensuring that unusually harsh frost cannot reach the barrier, thereby protecting it from cracking, infiltration, and structural damage.

To reinforce these findings, EA analyzed the thermal characteristics of the cover materials, such as specific heat and thermal conductivity, along with expected winter moisture content. A thick layer of local soil and rock mulch adds insulation and slows down cold penetration.

The cover was designed to minimize frost heave, a problem that happens when water in soil freezes, expands, and may harm structures. Materials were selected for their resistance to frost heave, considering grain size and compaction criteria. Regular inspections will detect surface changes or cracks caused by frost, so repairs can be made quickly when necessary.

In summary, the frost penetration assessment shows that the expanded disposal cell cover is carefully designed to weather severe cold, ensuring lasting protection for stored waste and meeting environmental and safety regulations.

### 4.4 Radon Attenuation

EA modelled Radon-226 emanation from the upper surface of the proposed expanded disposal cell cover. The radon attenuation assessment evaluated the cover design, apart from the rock mulch component.

Modeling results indicate that the planned cover system effectively reduces radon emanation rates to below 11 pCi/m at the surface of the radon barrier, which is lower than the NRC regulatory limit of (20 pCi/m²/s. A comprehensive discussion and detailed modeling outcomes are presented in Appendix E.

To optimize radon attenuation, the final cover consists of a 12-inch compacted clay layer engineered specifically to restrict infiltration and radon gas migration. This clay layer serves as a robust physical and chemical barrier, impeding the upward movement of radon produced by the radioactive decay of radium-226 in underlying waste materials. Clay was selected for its inherently low permeability and high sorption capacity—key characteristics essential for minimizing gas transport.

Additionally, the cover design includes 42 inches of onsite soils placed above 12 inches of filter sand layer, acting as capillary break, underlain by the clay layer, enhancing protection against biointrusion and frost. These additional layers safeguard the integrity of the clay barrier by mitigating root penetration and lowering the likelihood of desiccation or cracking, which could otherwise reduce the effectiveness of radon attenuation.

Radon attenuation modeling incorporated site-specific variables, such as soil types, moisture levels, and climate data, to simulate realistic conditions over the anticipated operational lifespan of the disposal cell. Advanced numerical models were employed to estimate radon flux through the cover system, accounting for both diffusion processes and seasonal variations in temperature and moisture content. Findings confirm that this multi-layered cover system consistently achieves substantial reductions in radon flux, reliably meeting all regulatory requirements, even under adverse conditions.

Sensitivity analysis revealed that radon flux through the cover system depends on factors such as cover thickness, soil moisture, and soil diffusion coefficients. Moist soil slows down effective diffusion coefficients of the soil, thereby limiting its migration through the cover. In contrast, dry fine soils may develop cracks that increase permeability and result in higher radon exhalation from waste. The model's results are also affected by diffusion coefficients, of which lower values restrict radon movement within the soil. Additionally, increasing the thickness of the soil cover helps to reduce the overall flux through the cover system.

As part of long-term stewardship, routine monitoring of the cover's physical properties and radon flux will be carried out. Should monitoring reveal increased radon flux, cracking, or changes to the surface condition, immediate maintenance actions will be implemented to sustain compliance with safety standards.

In conclusion, the expanded disposal cell cover combines compacted clay and protective soil layers to provide effective radon attenuation. Modeling affirms that the system maintains radon flux well below regulatory limits, thereby ensuring environmental safety and compliance with NRC standards. This comprehensive design, supported by ongoing monitoring and maintenance, assures long-term environmental protection.

## 4.5 Biointrusion

Engineered barrier systems for waste containment were designed to meet NRC (10 CFR Part 61), EPA (40 CFR Part 192), and New Mexico Environment Department (NMED) standards. NRC rules require barriers to stop plant and animal intrusion for up to 1,000 years and ensure site stability. EPA mandates cover systems to last at least 1,000 years where possible, but no less than 200 years, with controls on radon emissions and groundwater pollution. NMED closure plans demand final covers that reduce environmental harm like erosion and groundwater contamination, with technical criteria for infiltration and erosion control. These combined regulations create strong, multi-layered protection against environmental risks, using both physical and biological measures to safeguard public health and ecosystems over time. At a minimum, cover system includes:

- Low-permeability soil barrier: Typically, compacted clay or equivalent, with a saturated hydraulic conductivity $\leq 1 \times 10^{-5}$ cm/sec, as required by NMED and EPA standards.
- Rock armor (riprap): Placed above the soil barrier to resist erosion, animal burrowing, and root penetration. Beneath the riprap, a filter or bedding layer is installed to prevent rock intrusion into the barrier and facilitate drainage.

- Vegetative layer: A minimum of six inches of earthen material capable of sustaining native plant growth, providing additional erosion control and evapotranspiration benefits.

Table 4.1 summarizes design measures to address ecological threats. Cedar Creek Associates, Inc. (Cedar Creek, 2023) evaluated biointrusion risks from plants and burrowing animals for the facility cover performance. Their technical memo found limited risk of animal or insect biointrusion. Without vegetation to provide habitat and food, insects and animals are unlikely to occupy the cover.

Continuous monitoring and adaptive management will further ensure that the engineered cover system maintains its integrity and effectiveness in the face of changing environmental conditions.

**Table 4.1 Highlight of design measures against ecological threats in the cover design**

| Ecological Threat | Potential Impact | Design Measures in Disposal Cell |
|---|---|---|
| Deep-rooted vegetation | Root penetration can create water infiltration paths | - Thick protective soil layer<br>- Low-permeability barrier<br>- Vegetation control during closure |
| Burrowing mammals | Disturbance of engineered layers, increased erosion | - Rock armor on surface<br>- Compacted soil layers<br>- Monitoring for animal activity |
| Insects and small fauna | Micro-tunneling may compromise cover integrity | - Dense soil compaction<br>- Use of fine-grained material to deter tunneling |
| Climate variability | Freeze-thaw cycles and drought stress can weaken cover | - Frost penetration analysis<br>- Settlement monitoring<br>- Adaptive maintenance plan |
| Long-term settlement | Creates cracks and voids for intrusion | - Multi-layer design with redundancy<br>- Periodic inspection and repair protocols |

## 4.6 Infiltration Analysis

### 4.6.1 *General*

Analyses were performed to calculate infiltration rates on the surface of the expanded disposal cell for use in the seepage modeling to evaluate the infiltration at the bottom of the final cover. The actual boundary condition for the surface of the final cover is the climatological conditions. To simulate the climatological surface conditions in the SEEP/W model (GEO-SLOPE, 2023), a net flux was determined by modeling a representative 2-D column and then applying that net flux as the boundary conditions.

### 4.6.2 *Method of Analysis*

EA performed infiltration analyses using SEEP/W (GEO-SLOPE, 2023), a finite-element analytical tool designed to model the movement and distribution of pore water within porous media. SEEP/W simulates both saturated and unsaturated flow in response to atmospheric conditions, facilitating comprehensive seepage analyses over time. The model considers infiltration, precipitation, surface water runoff and ponding, plant transpiration, and actual

evaporation, all of which are essential considerations in cover system design. Accurate seepage modeling requires input parameters such as temperature, relative humidity, wind speed, albedo, rainfall, material properties, and hydraulic conductivity.

A two-dimensional model was employed to evaluate infiltration through the lower boundary of the cover system. The model profile is illustrated in Figure 4-2. Transient analysis was conducted using synthetic climate data spanning one thousand years to assess percolation rates, precipitation, surface water runoff, and evapotranspiration.

### 4.6.3 *Parameters Used for Analysis*

#### 4.6.3.1 Climate Data Used for Analysis

For the infiltration and water balance analyses, comprehensive daily climate data sets were utilized, including precipitation, evaporation, minimum and maximum temperatures, relative humidity, and average wind speed. These parameters are essential for accurately modeling hydrologic processes, affecting the cover system over time. The primary source of historical climate data was the National Oceanic and Atmospheric Administration (NOAA) weather stations, with records spanning a 50-year period from 1975 to 2025 for Grants, New Mexico. This extensive period provides a robust basis for simulating long-term climate variability and assessing its impact on the facility.

The town of Rice Park, New Mexico, located approximately 33 miles from the facility, served as the primary source of historical weather data. Rice Park was selected due to its proximity, which minimizes climatic discrepancies between the monitoring station and the facility. Additionally, Rice Park offers a comprehensive suite of meteorological records, including temperature, relative humidity, and average daily wind speed, which are critical input parameters for the SEEP/W infiltration modeling. This station's data provided reliable long-term trends and seasonal fluctuations necessary for detailed analysis of cover system performance.

In situations where data gaps or inconsistencies were present in the Rice Park dataset, alternative sources were consulted to ensure continuity and completeness of the climate record. The city of Grand Junction, Colorado, approximately 150 miles from the facility and with a 300-foot elevation difference, was selected as an alternative due to its extensive 75-year weather record. This station supplied temperature, relative humidity, and precipitation data when Rice Park data was unavailable. Similarly, the city of Page, Arizona, located 68 miles from the facility and 130 feet different in elevation, provided supplementary data with a 51-year record including temperature, relative humidity, average daily wind speed, and precipitation. These alternative sources ensured that the climate dataset used for modeling was both comprehensive and reflective of regional conditions.

To enable robust long-term simulations, a synthetic 1,000-year meteorological time series was created using the ClimGen program, developed by Washington State University. ClimGen generates realistic meteorological data by parameterizing and extrapolating from historical daily weather records. The synthetic data set incorporated the historical variability and range observed in the primary and supplementary data sources, allowing for analysis of cover system performance under a wide spectrum of potential future climate scenarios.

The climate data used in the modeling is considered conservative, reflecting trends identified by the Intergovernmental Panel on Climate Change (IPCC, 2023), which indicates a general warming and drying trajectory for the region. These trends were factored into the analysis to ensure that estimates of percolation and other hydrological processes do not underestimate potential impacts over the facility's operational lifetime.

#### 4.6.3.2 Soil Properties

The design and long-term performance of the expanded disposal cell at Mt. Taylor Mine depend heavily on the selection and characterization of locally sourced soils. These soils are engineered to function as barriers against water infiltration, radon gas migration, biointrusion, and erosion. Field investigations conducted in January 2025 involved excavating 24 test pits across three borrow sites, revealing several distinct soil horizons.

The soil parameters for the materials used in the analyses are summarized in Table 4.2. Most of the parameters were obtained from the laboratory testing results provided by EA as discussed in Section 2.4.2. The remaining parameters were estimated based on typical values for the respective material types from technical literature.

**Table 4.2 Summary of soil properties used for numerical analyses.**

| Name | Thickness (inch) | Unit Weight (pcf) | Effective Friction Angle (°) | Porosity | Specific Gravity | Compression Index |
|---|---|---|---|---|---|---|
| Rock Mulch | 12 | 115 | 35 | 0.37 | 2.59 | |
| Pediment Soil | 42 | 110 | 25 | 0.37 | 2.59 | |
| Sand Filter | 12 | 95 | 33 | 0.41 | 2.63 | |
| Clay | 12 | 120 | 24 | 0.36 | 2.5 | 0.12 |
| Interim Sand | 18 | 107 | 33 | 0.41 | 2.63 | |
| Mine Waste | 704 | 102 | 25 | 0.48 | 2.5 | |

The soil water characteristic curves (SWCCs) for the rock mulch, pediment layer, sand layer, and interim cover were estimated using SEEP/W (GEO-SLOPE, 2023). The grain size distribution and porosity data obtained from the laboratory testing by EA, for the cover materials, were used in the estimation. The SWCC for the sandstone layer was estimated using the Fredlund-Xing Function incorporating curve fit parameters (a, n, and m) and porosity based on the Tetra Tech Design Report (2008b). The SWCC for the clay layer was constructed based on laboratory testing results. The SWCC for the tailing slurry was obtained from the Tetra Tech Design Report (2008b).

The hydraulic conductivity (K) functions for the materials, except for the compacted clay in the liner system, were estimated using the Fredlund-Xing Huang method in the SEEP/W program. The compacted clay in the liner system was assumed to be saturated.

Boundary Conditions

A steady-state model was used to set up the initial conditions for the infiltration analyses. The boundary conditions in the steady state assumed zero flux boundaries. This is a common practice in modeling to have initial values when performing a transient analysis. Ideally, in situ measured parameters in the field can be used as initial parameters but in the absence of such data, using steady state output to setup initial conditions for transient analyses is a common practice for seepage modeling.

For the 1,000-year transient model, the climate data discussed in Section 4.6.3.1 were used as an upper boundary condition at the ground surface. A unit gradient boundary condition was specified at the bottom boundary of the sandstone foundation. This boundary simulated the deep boundary condition where the groundwater table was located far away, preventing it from disturbing the upper model. The pore water pressure distribution obtained from the steady-state model was used as the initial conditions of the transient model.

### 4.6.4 *Results of Infiltration Analysis*

The model results indicate that the mean annual percolation value through the cover system is 0.45 inches/year or 7.4% of the mean annual precipitation value. Caldwell et al. (2022) studied the ratio of percolation to precipitation at various Uranium Mill Tailings Radiation Control Act (UMTRCA) sites. They concluded that the ratio of percolation to precipitation ranges from 0 to 26%, with a mean value of 7%. Consequently, the ratio of percolation to precipitation of 7.4% determined for the Facility is reasonable compared to other sites presented in Caldwell et al. (2022). The selected results of infiltration analysis are presented in Appendix F.

## 4.7 Settlement Analysis

### 4.7.1 *General*

The settlement of the compacted disposal cell will be computed at the time of placement of the material. Prior to construction, representative samples of the waste will be collected and remolded to 95% of the standard Proctor dry density and tested for consolidation/swell under wetting conditions. This data will be used to confirm that enough camber has been placed on the top of the water to facilitate surface drainage. Tanks or other vessels that could collapse overtime will be flow filled to limit potential future settlement.

## 4.8 Slope Stability Analysis

### 4.8.1 *General*

To assess the global stability of the disposal cell after placement of the final cover system . The evaluation relied on assumed waste properties to calculate the factor of safety against major shear failure in the embankment. During final design and construction strength testing of the remodel waste placed in the disposal cell will be completed.

### 4.8.2 *Method of Analysis*

EA performed limit equilibrium global stability analyses using the Morgenstern-Price method (Morgenstern-Price, 1965), implemented in the computer program SLOPE/W (GEO-SLOPE International, Ltd. 2021). The analysis utilized the section shown in Figure 4-3. EA conducted

both static stability and pseudo-static seismic stability assessments. The target factor of safety (FOS) for static global stability was set at 1.5, following NRC (1989) guidelines. For pseudo-static global stability, EA selected a target FOS of 1.1, also based on NRC (1989). Each scenario and condition included analyses of both rotational (circular) and wedge (block) failure mechanisms.

Section 2.5 describes the probabilistic seismic hazard analysis for the Facility, which indicates a peak ground acceleration (PGA) of 0.21g for a 10,000-year return period. This corresponds to a 9.5% probability of exceedance within the 1,000-year design life of TSF. EA applied a horizontal coefficient of two-thirds the PGA, or 0.14, for the pseudo-static analyses.

### 4.8.3 *Material Properties*

Soil properties used in the stability analyses were consistent with those obtained from laboratory testing or assumed values as presented in  in these stability analyses are included in Table 4.2.

### 4.8.4 *Results of Analysis*

Results of the slope stability analyses indicate minimum factors of safety greater than 2 for static conditions and greater than 1.1 for pseudo-static conditions which exceed the minimum criteria established by the NRC (1989). The results of the slope stability analyses are shown in Figures 4.4 and 4.5.

## 4.9 Surface Water Hydrology and Erosion Protection

The reclaimed surface will be protected from water and wind erosion through a combination of offsite runoff diversion and rock mulch surface facing, discussed separately below.

### 4.9.1 *Rock Mulch Cover*

The expanded disposal cell cover will be sloped at 20% and will incorporate a 1-foot-thick top layer of rock mulch, consisting of rock/soil admixture. The admixture design consists of 30 percent AASHTO No. 1 gravel and 70 percent onsite pediment material. T

## 4.10 Grading

The final reclamation plan involves grading the final cover to 20% slope. The analyses in the preceding sections informed the design and thickness specifications for the final cover system.

For the sand layers, including the 18-inch interim cover, adjustments after primary consolidation settlement, and the 12-inch final cover; approximately 240,200 cubic yards of fill will be required. In summary, the total estimated quantity of clay, pediment, sand, and rock necessary for all reclamation activities amounts to 849,500 cubic yards of fill material.

## 4.11 Borrow Source Location and Characterization

The disposal cell cover system will consist of (from bottom to top) interim cover, clay (radon barrier), sand (capillary break), pediment layer (biointrusion and frost protection), and a rock mulch layer (erosion protection). Rock will also be required for the riprap and bedding within the diversion channel. The proposed cover system is shown in Figure 4.1. This section discusses the location and characterization of the borrow source areas for the proposed cover materials.

### 4.11.1 *Borrow Source Locations*

The EA site investigation showed that the clay for the radon barrier, filter sand, and the pediment soils is procurable from the site. Figure 2-2 includes the locations of the potential burrow sources at the site.

### 4.11.2 *Borrow Source Characterization*

#### 4.11.2.1 Clay Borrow Source

The field investigation of the clay borrow source, conducted by EA, included excavation of 24 test pits as discussed in Section 2.3. The test pit locations are shown on Figure 2.3, and the test pit logs are included in Appendix A. EA encountered clay and silty clay/clayey silt, sandy clay, sand, sand, sandstone in the test pits.

#### 4.11.2.2 Sand Borrow Source

A borrow source for the pediment and sand soil exists at the Facility as shown on Figure 4-6. As discussed in Section 2.4.2, samples of the sand borrow sources were collected for laboratory testing. The laboratory test results are included in Appendix B.

#### 4.11.2.3 Rock Mulch Borrow Source

The rock mulch cover layer for the cover design will be locally sourced. The material will comprise 30% AASHTO No. 1 gravel and 70% sandy soil. The source rock for the mixture may be imported to the site if locally sourced alternative is not found. NUREG-1623 provides specific criteria for the use of sandstone in reclamation applications. These include requirements for fine-grained quartz cementation, low porosity, insignificant vertical or horizontal joints and fractures, and sourcing from massive bedding formations. Prior to final design a borrow source for the rock will be identified and tested.

## 4.12 Borrow Source Quantities

EA has estimated the required volumes of borrow source for each material type. The proposed borrow sources are included in Figure 4-6.

Figure 4.6 shows the potential borrow sources. It is calculated that approximately 274,300 and 240,200 cubic yards of pediment and sand, respectively, are required for reclamation. 270,000 cubic yards of rock are required to complete the reclamation, which consists of 20,500 cubic yards of rock mulch for the final cover and 9,700 cubic yards of rock fill for the tailings regrading. Additionally, 18,800 cubic yards of rock are required for the diversion channel riprap and bedding, 52,000 cubic yards of rock are required for the north area grading, and 169,000 cubic yards of rock are required for the South Dam slope grading. 314,000 cubic yards of rock will be excavated within the east grading area and north channel as part of the diversion channel construction, which is more than the 270,000 cubic yards of rock required.

In total, between the clay borrow source and the onsite borrow locations for sand, pediment, and rock, the required material for closure is available. A

## 4.13 Revegetation of Disturbed Areas

### 4.13.1 *Seedbed Preparation*

Revegetation of the expanded disposal cell cover will employ various methods depending on the steepness of the slope. The cover will be revegetated using standard mine reclamation equipment such as tracked and wheeled tractors, rangeland seed drills, and common mulch spreaders. In areas that may have slopes steeper than 3H:1V, a mixture of manual and mechanical application techniques will be used, including broadcasting seed by hand, or chain seeding. Revegetation of the disposal cell will be completed in agreement with the plan presented in the Closeout/Closure Pan (EA, 2025)

## 4.14 Material Placement

Materials and structures determined to have no salvageable value, or those requiring permanent containment due to contamination, will be transported to the expanded disposal cell at the Mount Taylor uranium mine in accordance with federal and state regulatory requirements, including the Surface Mining Control and Reclamation Act (SMCRA, 30 CFR §816.116) and EPA guidelines for uranium mill tailings (40 CFR Part 192 Subpart D). This category encompasses contaminated soils, facility debris, and dismantled equipment. All materials will be placed within the disposal cell using controlled, engineered lifts to ensure effective isolation, long-term structural stability, and compliance with applicable geotechnical standards. EA understands that there are soils on site that are contaminated with petroleum products. Prior to placement in the disposal cell those soils maybe be land-farmed to remove the contamination or additional analyses will be completed to confirm that they are compatible with the cell design and State regulations for placement in the disposal cell. During excavation the soil will be placed on an impervious surface (i.e. concrete pad or liner system).

All equipment and structural materials designated for disposal shall be conveyed to disposal cell l following procedures specifically developed for uranium mine reclamation and consistent with ASTM D1557 (Modified Proctor) compaction standards and site-specific geotechnical protocols. The placement of these materials will be governed by the following steps:

- Materials will be cut or dismantled into manageable sections to facilitate safe handling and minimize the creation of voids within the disposal cell, thereby reducing the risk of future subsidence, as recommended by geotechnical guidance for engineered landfill covers and stabilization designs. (See NUREG-1623 and NUREG/CR-4620 for methodologies.
- Compressible debris will be staged in approved areas and compacted using heavy equipment such as backhoes, front-end loaders, or tracked crawlers, in accordance with site safety, environmental protocols, and ASTM D1557 requirements.
- Pipes or conduits with openings greater than 12 inches that cannot be crushed will be filled with clean earthen materials prior to placement, eliminating internal voids and enhancing overall stability as outlined in landfill cover design standards.

- Tanks and vessels will be crushed or dismantled whenever feasible. If this is not possible, tanks will be filled with suitable earthen material and buried in the South Cell to ensure proper containment and void elimination.

Compaction requirements for the disposal cell are as follows:

- All materials, including contaminated soils and debris, must be placed in controlled lifts not exceeding 12 inches in thickness prior to compaction. Each lift shall be compacted using heavy equipment (such as vibratory rollers, compactors, or tracked dozers) until a minimum of 90% of the maximum dry density is achieved, as determined by ASTM D1557 (Modified Proctor) or applicable site-specific geotechnical standards. (Refer to ASTM D1557 and NUREG-1623.)
- Compaction will be verified through field density testing at a minimum frequency of one test per 2,500 square feet per lift, or as otherwise directed by project geotechnical requirements.
- Areas failing to meet the specified compaction standard shall be reworked and retested until full compliance is achieved, following quality assurance protocols outlined in technical guidance documents.
- Special attention will be given to void-prone materials, such as pipes and tanks, ensuring that fill used to eliminate voids is compacted to the same specification as the surrounding fill material.
- The entire compaction process will be overseen and documented by qualified personnel, with all records maintained to ensure regulatory compliance and quality assurance, in line with EPA, NRC, and SMCRA requirements.

Contaminated soils generated from facility operations will be co-disposed with structural debris in the disposal cell , following protocols designed to:

1. Establish a compacted and stable working surface above disposed materials, facilitating safe operation of construction equipment and preventing tire damage, as recommended by landfill and tailings stabilization standards. (See NUREG/CR-4620 and EPA 40 CFR Part 192.
2. Provide interim cover over disposed materials to minimize exposure to air and precipitation, thereby reducing the risk of contaminant migration, consistent with EPA and NRC guidelines.
3. Mitigate void spaces and prevent future settlement by alternating lifts of fill and disposed materials, thoroughly compacted with multiple passes of heavy equipment in accordance with the specified compaction requirements for the South Cell.

Throughout all phases of material placement, best management practices for dust control will be strictly implemented to safeguard worker health and minimize the release of fugitive dust, in full compliance with regulatory standards applicable to uranium mine reclamation, including those set forth by the EPA and state agencies.

## 5.0 CONCLUSIONS

The expanded disposal cell cover design at Mt. Taylor Mine demonstrates a comprehensive, multi-layered approach to long-term containment and environmental protection. The system integrates a 12-inch rock mulch layer for erosion resistance, 42 inches of onsite soil for biointrusion and frost protection, a 12-inch sand filter as a capillary break, and a 12-inch compacted clay layer engineered to minimize infiltration and radon gas migration. This configuration not only meets but exceeds regulatory requirements set by the NRC, EPA, and New Mexico Environment Department, ensuring that radon flux remains well below permissible limits and that the cover is robust against climatic extremes, settlement, and ecological threats.

The design is grounded in extensive site-specific investigations, including field sampling, laboratory testing, and advanced modeling. Analyses of infiltration, settlement, frost penetration, and slope stability confirm that the cover system will perform reliably under both typical and extreme conditions. The use of locally sourced materials, validated through geotechnical testing, ensures compatibility with the site's unique geological and climatic context. Ongoing monitoring and adaptive management protocols are embedded in the plan to address any unforeseen changes in cover performance, thereby supporting regulatory compliance and long-term stewardship.

The Mt. Taylor disposal cell cover is a carefully engineered system that combines best practices, regulatory compliance, and site-specific solutions to ensure long-term containment of contaminants, promote revegetation, and protect human health and the environment.

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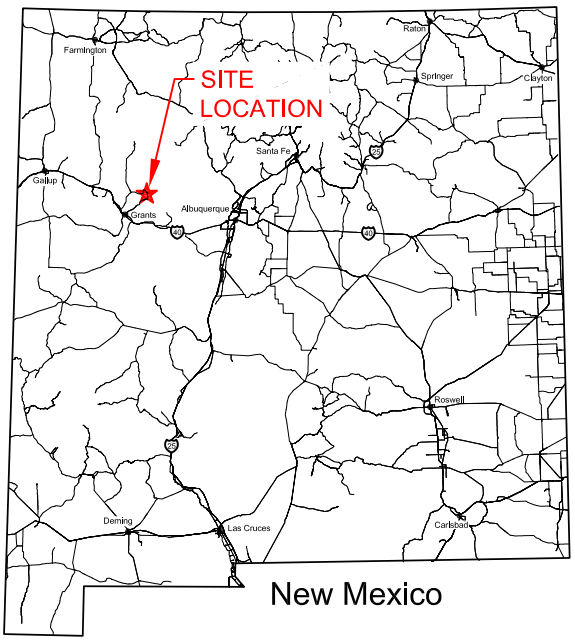
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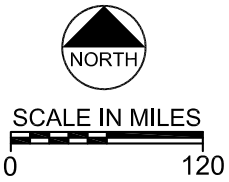
U.S. Nuclear Regulatory Commission (NRC). (2022). *Evaluation of In-Service Radon Barriers over Uranium Mill Tailings Disposal Facilities*. NUREG/CR-7288. March.

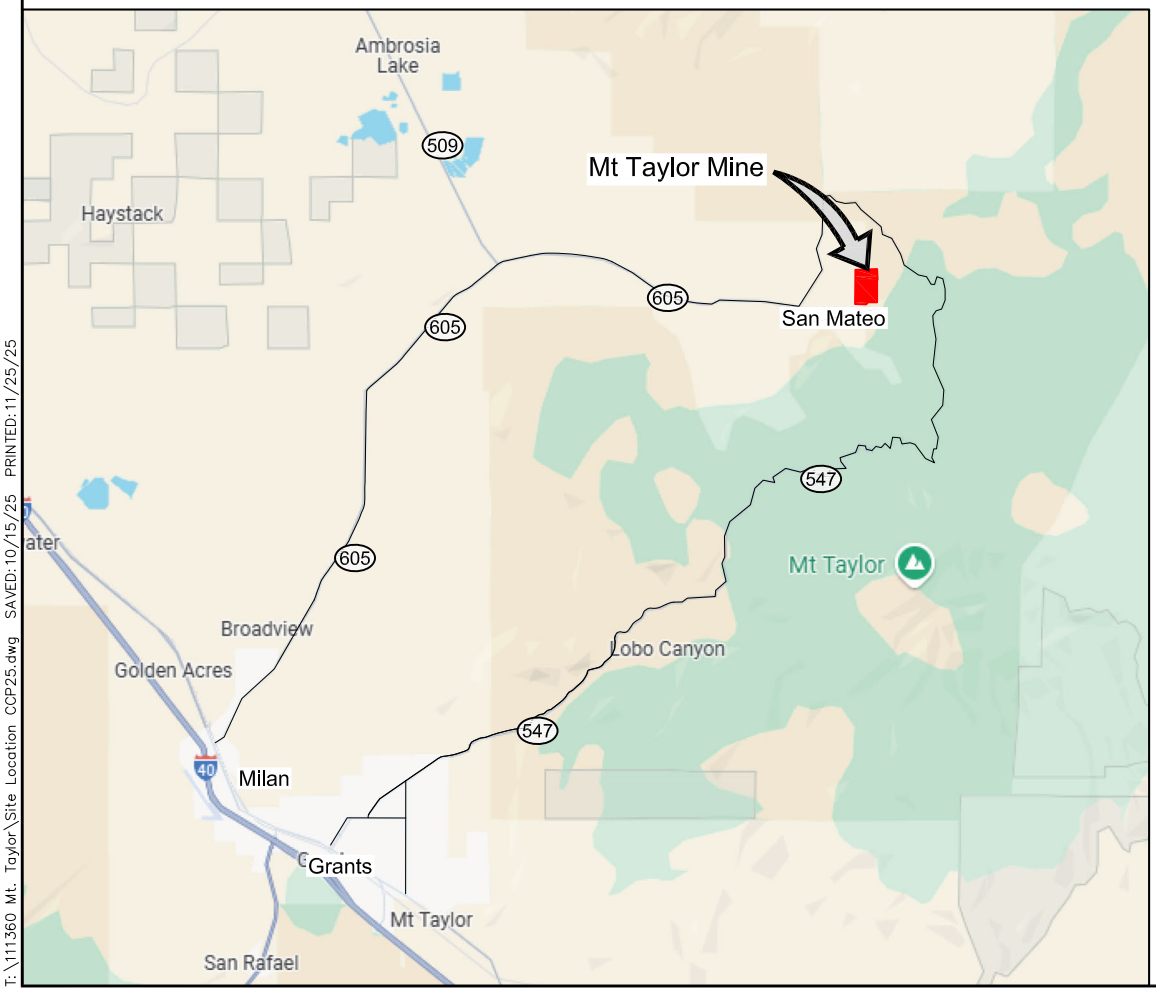
U.S. Nuclear Regulatory Commission (NRC). (2023). *10 CFR 20 – Standards for Protection Against Radiation,* April 14.

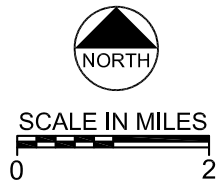
Western Regional Climate Center (2023). *Evaporation Stations*. https://wrcc.dri.edu/Climate/comp_table_show.php?stype=pan_evap_avg

# FIGURES



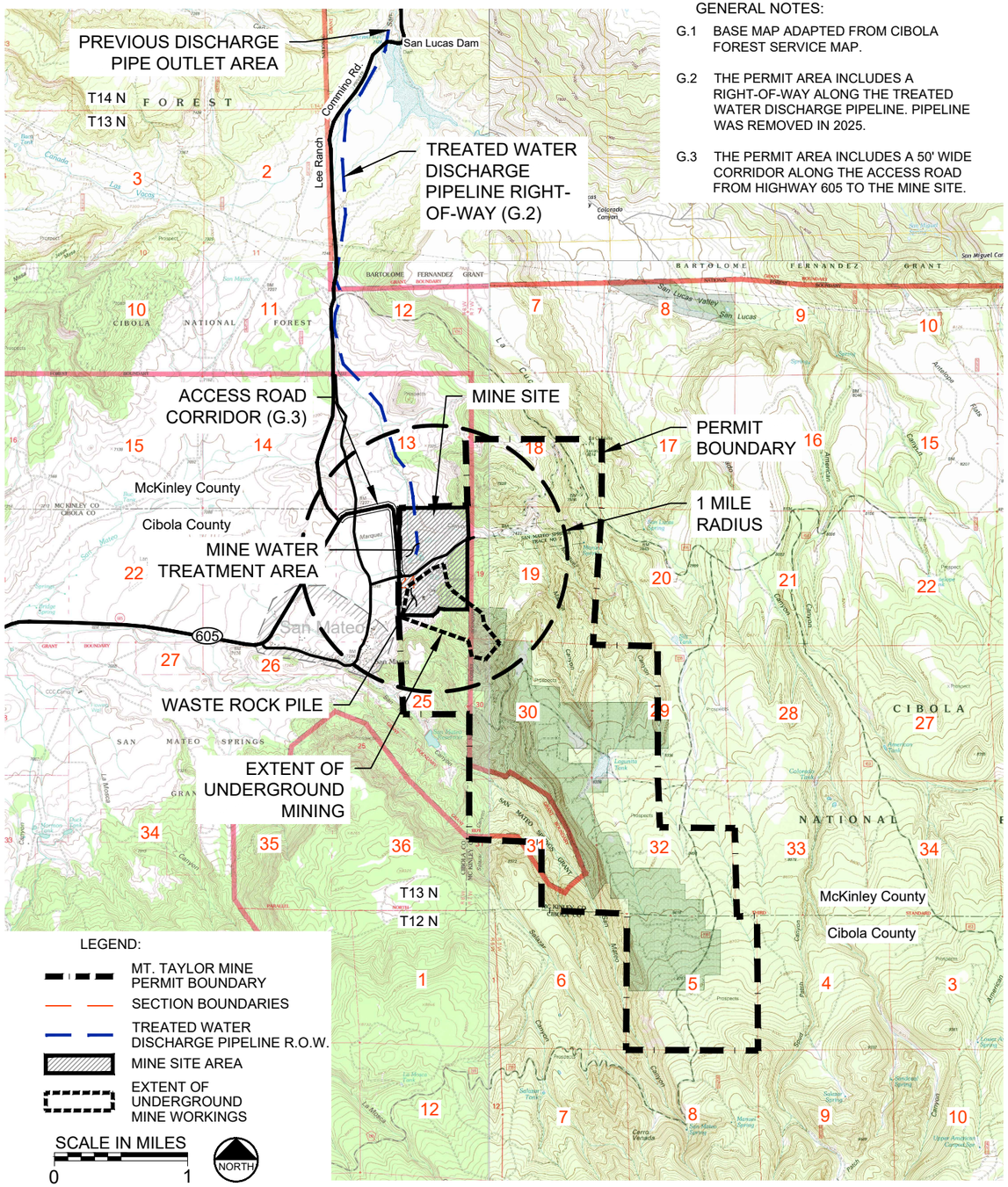

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Project No. 111360

November 2025

Engineering Analytics, Inc.

**FIGURE 2-1**
**SITE LOCATION MAP**
**MT. TAYLOR MINE**

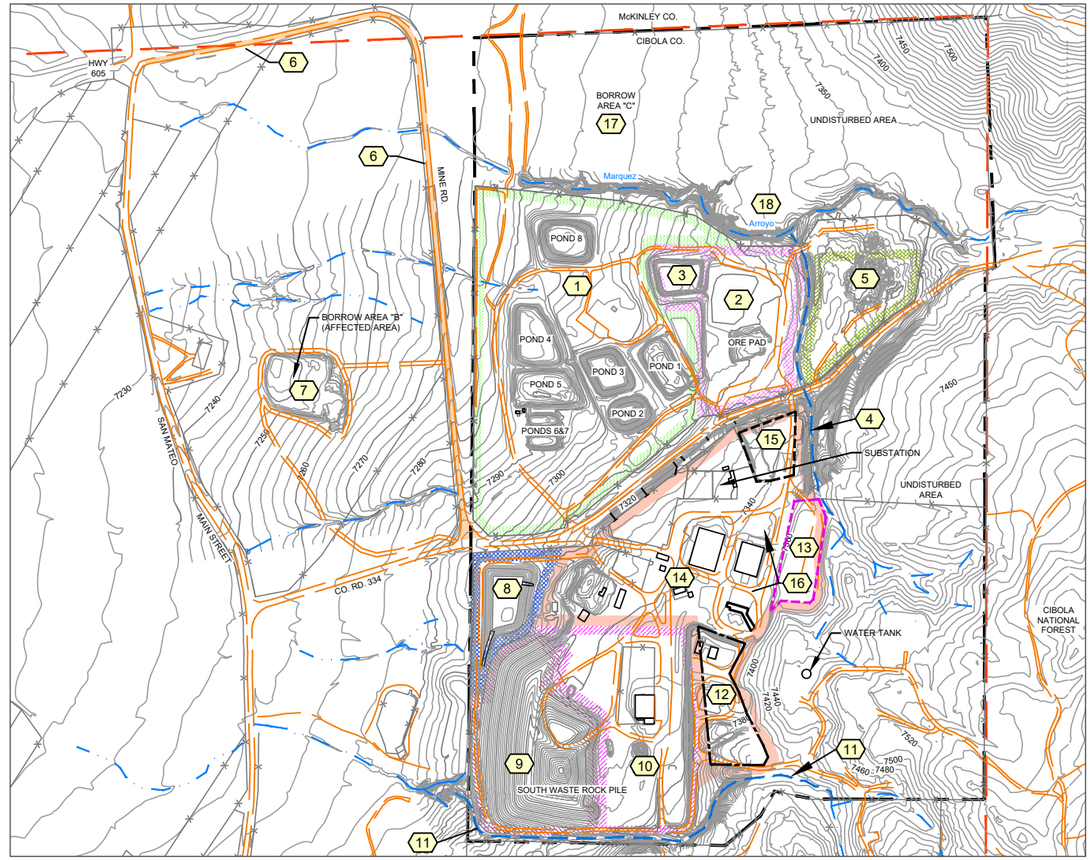



GENERAL NOTES:

G.1 BASE MAP ADAPTED FROM CIBOLA FOREST SERVICE MAP.

G.2 THE PERMIT AREA INCLUDES A RIGHT-OF-WAY ALONG THE TREATED WATER DISCHARGE PIPELINE. PIPELINE WAS REMOVED IN 2025.

G.3 THE PERMIT AREA INCLUDES A 50' WIDE CORRIDOR ALONG THE ACCESS ROAD FROM HIGHWAY 605 TO THE MINE SITE.




MINE UNITS AND OTHER AREAS:

| | | | | | |
|---|---|---|---|---|---|
| 1 | MINE WATER TREATMENT AREA | 7 | BORROW AREA "B" | 13 | CHILLER BENCH AREA |
| 2 | ORE PAD | 8 | SOUTH STORM WATER POND | 14 | SERVICE AND SUPPORT AREA |
| 3 | ORE PAD RUNOFF RETENTION POND | 9 | EXISTING WASTE ROCK PILE/ DISPOSAL AREA | 15 | OLD ORE LOADING AREA |
| 4 | NORTH DIVERSION CHANNEL | 10 | DISPOSAL CELL EXPANSION AREA | 16 | MINE SHAFTS |
| 5 | BORROW AREA "A" | 11 | SOUTH DIVERSION CHANNEL | 17 | BORROW AREA "C" |
| 6 | MINE ACCESS ROAD | 12 | COMPRESSOR BENCH AREA | 18 | WINDBLOWN AREA |

LEGEND:
- MINE SITE AREA
- SECTION 24 BOUNDARY
- ROADWAY
- FENCE
- EXISTING TOPOGRAPHY
- DRAINAGE PATHWAYS
- MINE BUILDINGS (PRIOR TO REMOVAL ACTIVITIES)

GENERAL NOTES:

G.1 THE MINE PERMIT AREA INCLUDES THE RIGHT OF WAY ALONG THE TREATED WATER DISCHARGE PIPELINE AND A 50' WIDE CORRIDOR FOR AN ACCESS ROAD (SEE FIGURE 1-3).

G.2 AFFECTED AREAS INCLUDE BUT ARE NOT LIMITED TO BORROW AREA "B", BORROW AREA "C", AND WINDBLOWN AREA. EVALUATION OF OTHER POSSIBLE AFFECTED AREAS IS ONGOING.

G.3 THIS DRAWING SHOWS THE SITE CONDITIONS AS OF JULY 2025. SEE FIGURE 1-2B AND TABLE 4.2 FOR DETAILED FACILITY DISPOSITION INFORMATION.

G.4 TOPOGRAPHY BASED ON A 2012 AERIAL SURVEY BY THOMAS R. MANN AND ASSOCIATES AND 2021 SURVEYS BY SOUTHWEST SURVEYING SOLUTIONS (S3).

NORTH

SCALE IN FEET
0
800'

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Project No. 111360

November 2025

Engineering Analytics, Inc.

**FIGURE 2-2**
**SITE LOCATION AND EXISTING CONDITIONS**
**MT. TAYLOR MINE**

LEGEND:
- MINE SITE AREA
- ROADWAY
- FENCE
- EXISTING TOPOGRAPHY
- DRAINAGE PATHWAYS
- TEST PIT LOCATION

NORTH

SCALE IN FEET
0 300'

McKINLEY CO.
CIBOLA CO.
C-1 C-2 C-3 C-4 C-5 C-6 C-7 C-8 C-9 C-10 C-11 C-12 C-13
BORROW AREA "C"
UNDISTURBED AREA
7350 7400 7450 7500
BORROW AREA "A"
Marquez
Arroyo
MINE RD.
POND 8
POND 4
POND 3
POND 5
POND 1
POND 2
PONDS 6&7
ORE PAD
A-1 A-2 A-3 A-4 A-5 A-6
BORROW AREA "B"
B-1 B-2 B-3 B-4 B-5
SAN MATEO
MAIN STREET
7240 7250 7260 7270 7280 7290 7300 7320 7340 7450
SUBSTATION
UNDISTURBED AREA

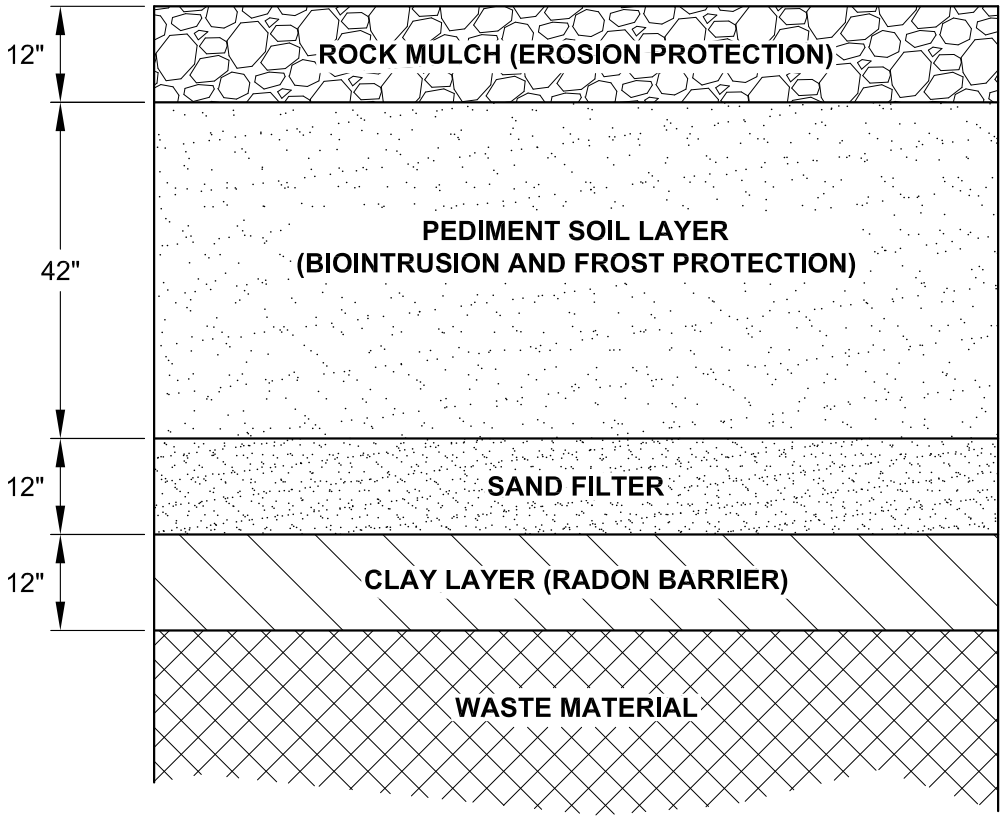
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Project No. 111360

November 2025

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**FIGURE 2-3**
**TEST PIT LOCATION MAP**
**MT. TAYLOR MINE**




NOT TO SCALE

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Project No. 110444

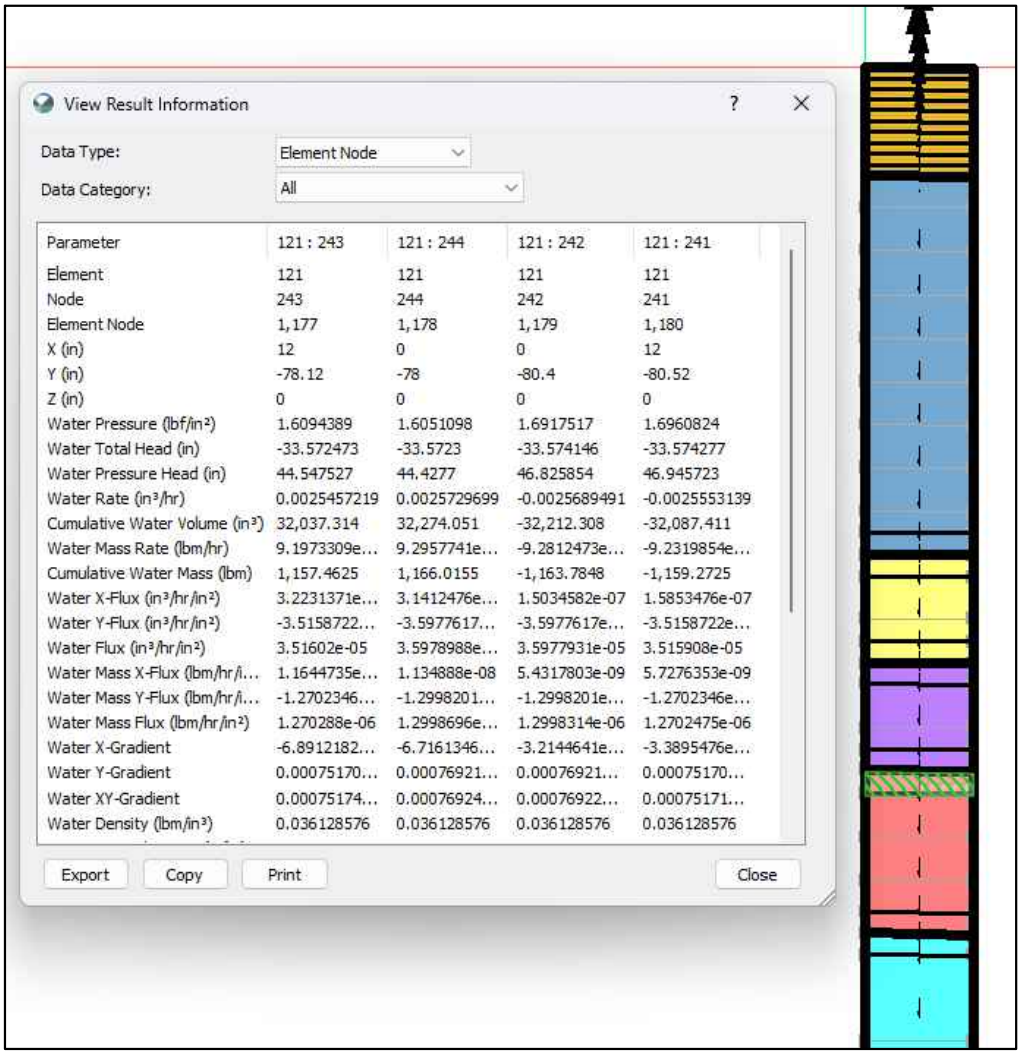
November 2025

Engineering Analytics, Inc.

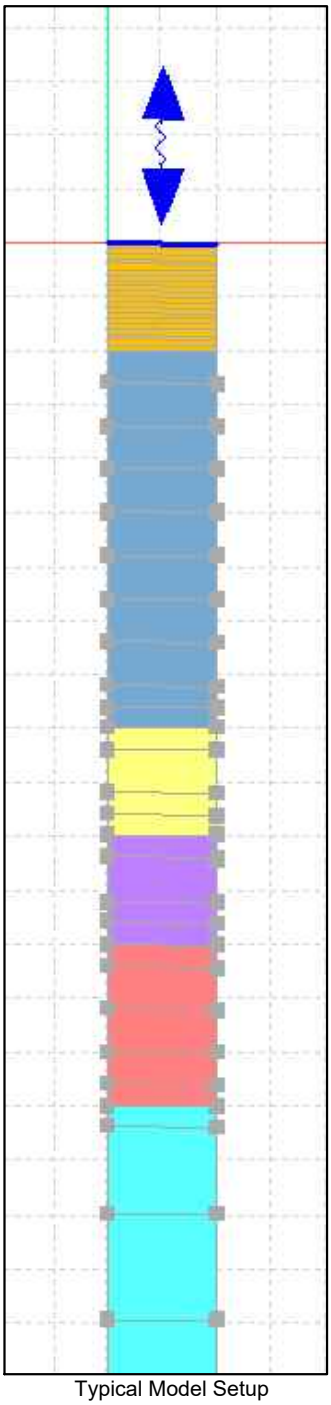
**FIGURE 4-1**
**FINAL RECLAMATION COVER SYSTEM**
**MT. TAYLOR MINE**

Summary of Material Properties for Simulation

| Color | Name | Material Model | Sat Kx (in/hr) | Vol. WC. Function | K-Function |
|---|---|---|---|---|---|
| | 1-Rock Mulch | Saturated / Unsaturated | | (2024)Rock Mulch | (2024)Rock Mulch |
| | 2-Pediment Layer | Saturated / Unsaturated | | (2024)Pediment Layer | (2024)Pediment Layer |
| | 3-Sand Layer | Saturated / Unsaturated | | (2024)Sand & Interim Cover | (2024)Sand & Interim Cover |
| | 4-Clay Layer | Saturated / Unsaturated | | (2024)Clay Layer (Update) | (2024)Clay Layer |
| | 5-Interim Cover | Saturated / Unsaturated | | (2024)Sand & Interim Cover | (2024)Sand & Interim Cover |
| | 6-Tailings Slurry | Saturated / Unsaturated | | (2024)Tailings Slurry | (2024)Tailing Slurry |
| | 7-Compacted Clay | Saturated Only | 6.54803e-07 | | |
| | 8-Foundation Soil | Saturated / Unsaturated | | (2024)Sandstone | (2024)Sandstone |




Summary Results Output



Typical Model Setup

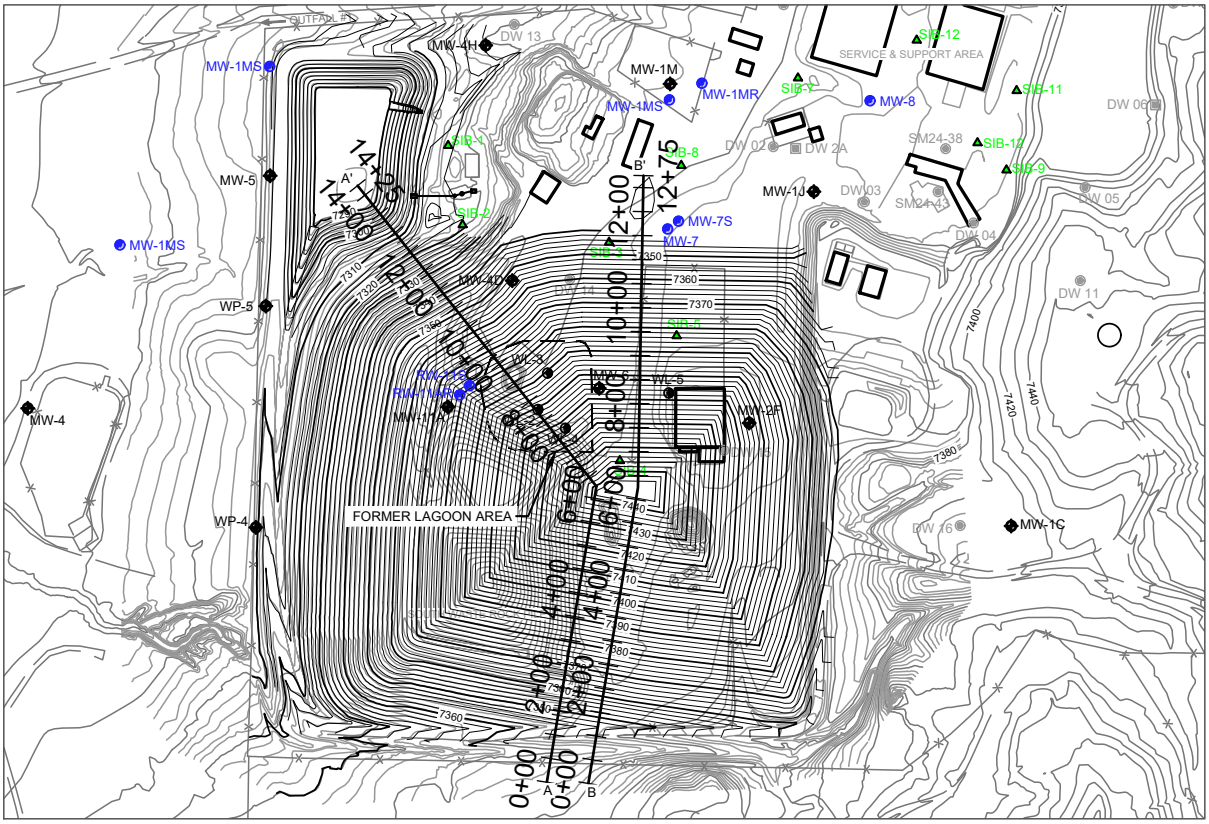
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Project No. 111360

November 2025

Engineering Analytics, Inc.

**FIGURE 4-2**
**INFILTRATION ANALYSIS MODEL PROFILE**
**MT. TAYLOR MINE**




- MONITOR WELL
- DRY WELL (PLUGGED AND ABANDONED)
- RECOVERY WELL
- DEWATERING WELL
- FACILITY WATER SUPPLY
- PROPOSED WELL 2025 SIP
- PROPOSED BORING 2025 SIP
- STORMWATER DRAINAGE
- FENCE
- ROADWAY
- FORMER LAGOON AREA
- EXISTING TOPOGRAPHY
- PROPOSED TOPOGRAPHY

NOTE:
MAX DEPTH AT HIGHEST POINT;

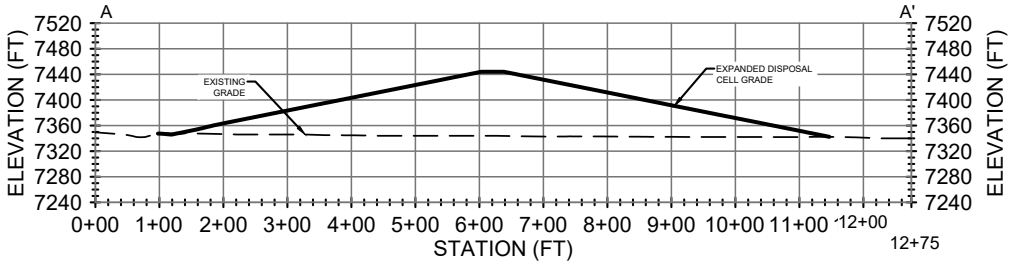
| Current El | Proposed El | Height |
|---|---|---|
| 7344' | 7444' | 100' |

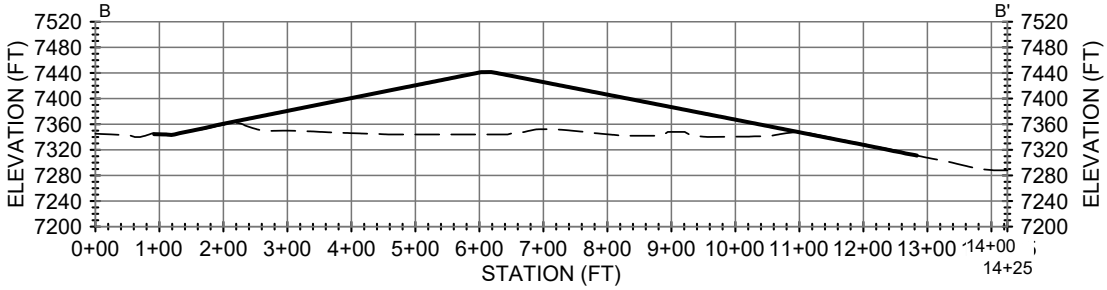
EXPANDED VOLUME
(Compared to original disposal cell volume)

| CUT | FILL | NET |
|---|---|---|
| 7,250 | 1,101,090 | 1,093,840 |

in cubic yards

PLAN
SCALE IN FEET
0 400'
NORTH




SECTIONS
SCALE IN FEET
0 300'

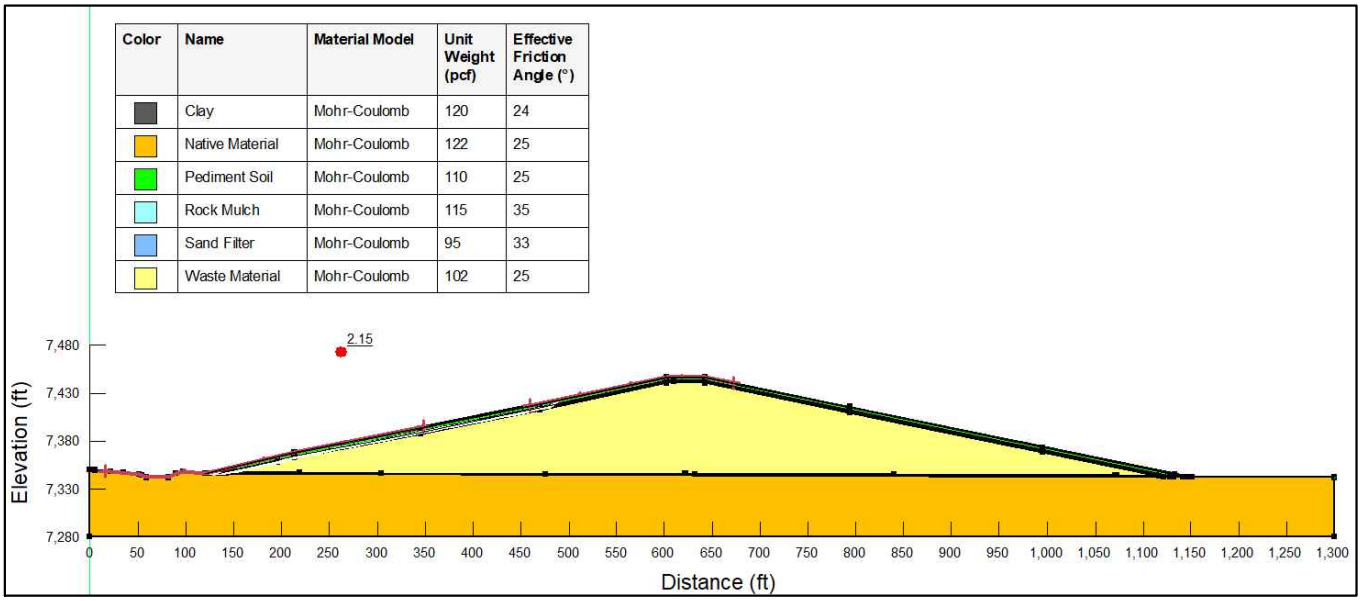
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Project No. 111360

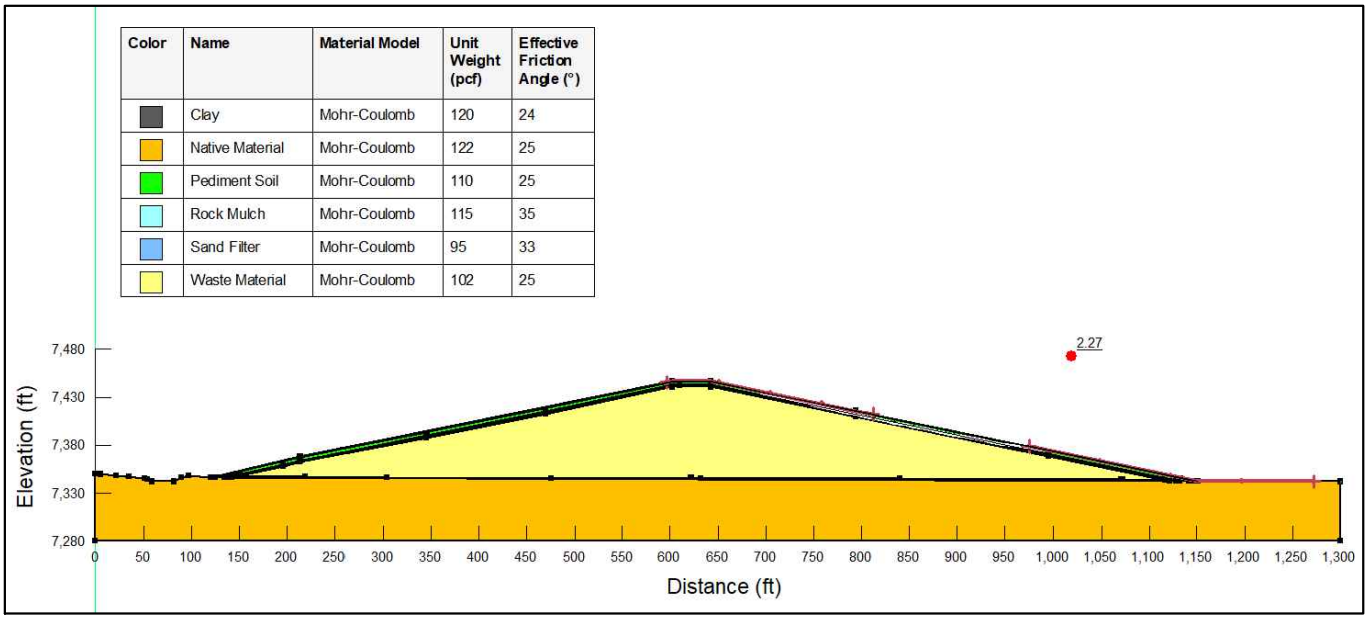
November 2025

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**FIGURE 4-3**
**SECTIONS USED FOR STABILITY ASSESSMENT**
**MT. TAYLOR MINE**




Global Stability Result at the Left Side




Global Stability Result at the Right Side

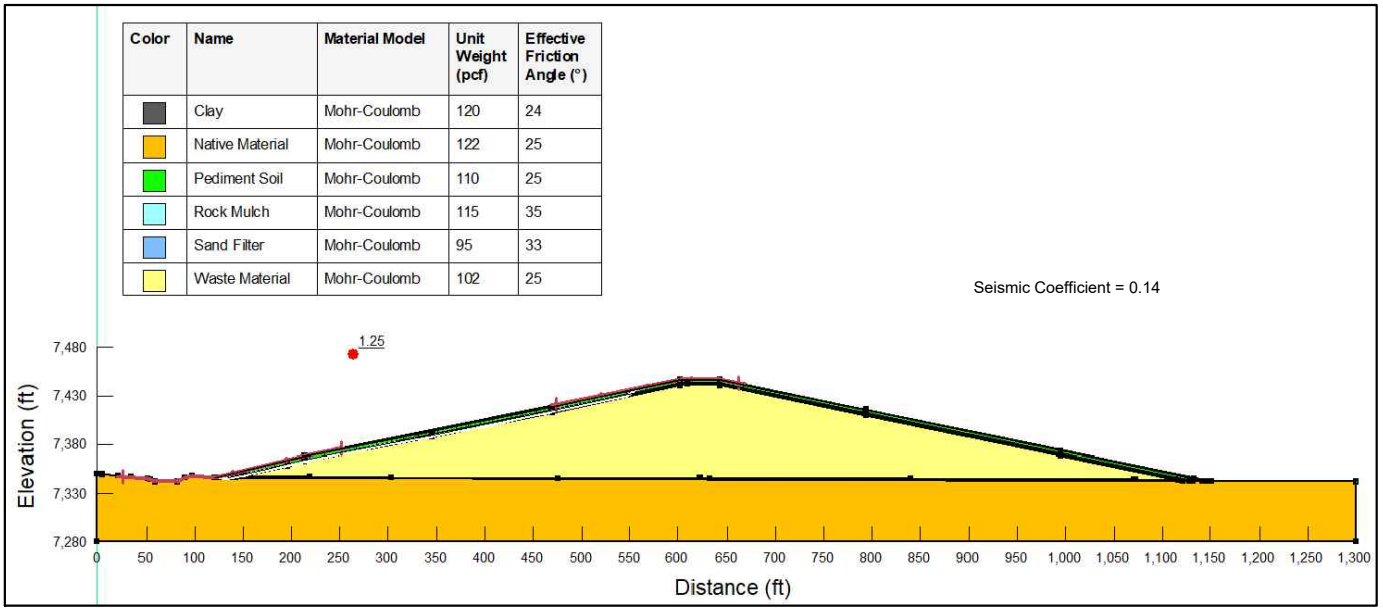
NOTE:
Factor of Safety (FS) above the regulatory requirement of 1.5.

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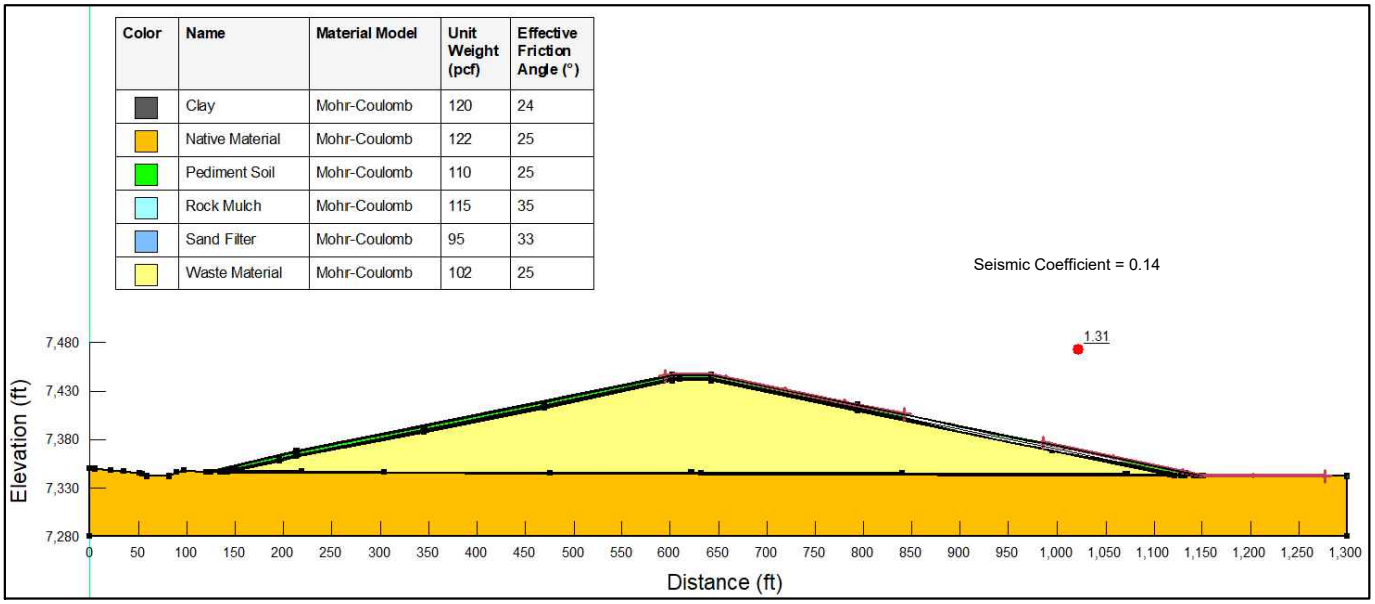


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**FIGURE 4-4**
**STABILITY CROSS SECTIONS**
**MT. TAYLOR MINE**




Pseudo-Static Stability Analyses Result to the Left




Pseudo-Static Stability Analyses Result to the Right

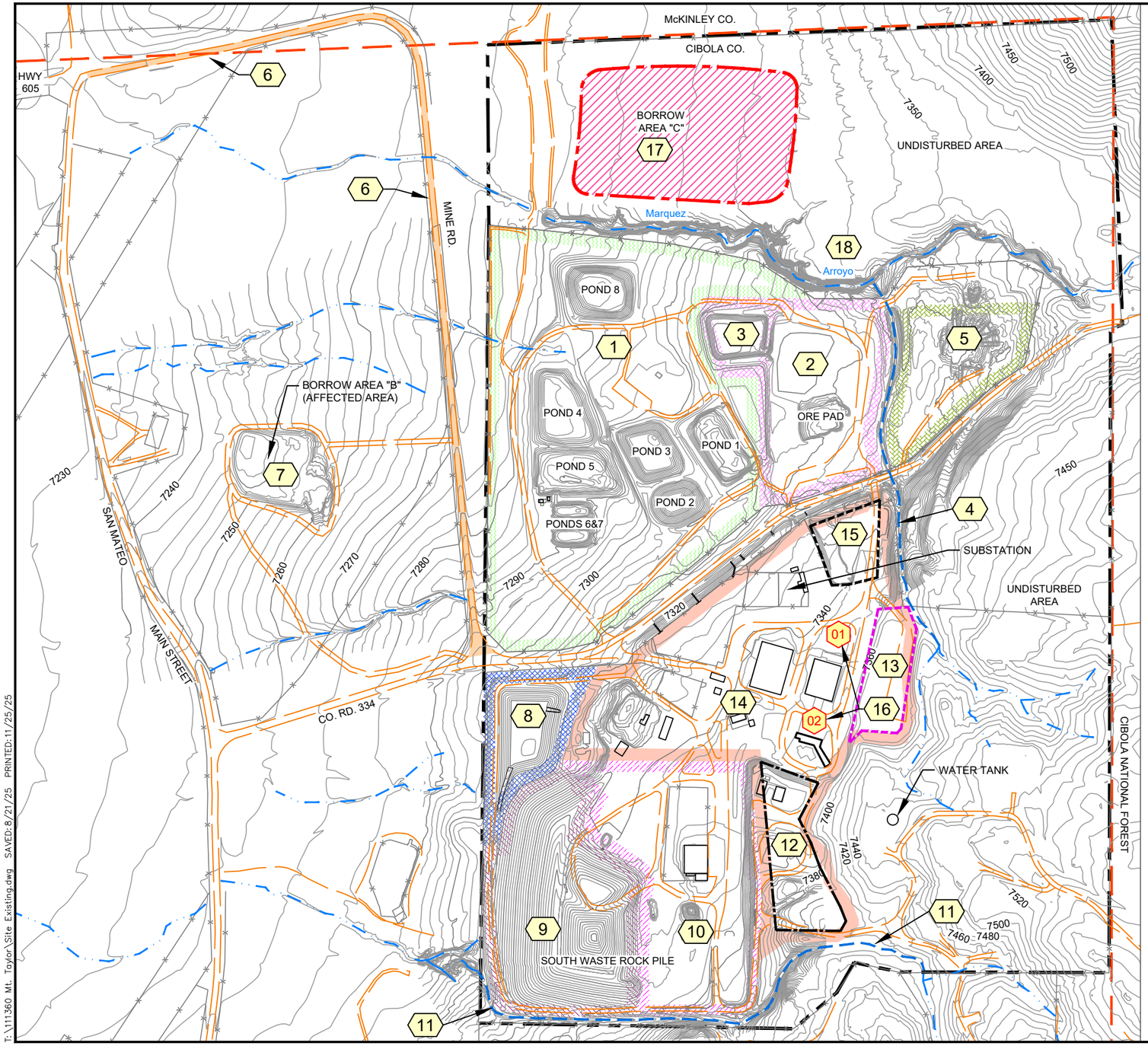
NOTE:
The pseudo-static analyses show that the factor of safety (FS) are above 1.1, which is the regulatory criterion.

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**FIGURE 4-5**
**STABILITY CROSS SECTIONS**
**MT. TAYLOR MINE**




MINE UNITS AND OTHER AREAS:

| | | | |
|---|---|---|---|
| 1 | MINE WATER TREATMENT AREA | 10 | DISPOSAL CELL EXPANSION AREA |
| 2 | ORE PAD | 11 | SOUTH DIVERSION CHANNEL |
| 3 | ORE PAD RUNOFF RETENTION POND | 12 | COMPRESSOR BENCH AREA |
| 4 | NORTH DIVERSION CHANNEL | 13 | CHILLER BENCH AREA |
| 5 | BORROW AREA "A" | 14 | SERVICE AND SUPPORT AREA |
| 6 | MINE ACCESS ROAD | 15 | OLD ORE LOADING AREA |
| 7 | BORROW AREA "B" | 01 | 16 MINE SHAFTS |
| 8 | SOUTH STORM WATER POND | 17 | BORROW AREA "C" |
| 9 | EXISTING WASTE ROCK PILE/ DISPOSAL AREA | 18 | WINDBLOWN AREA |

LEGEND:

- MINE SITE AREA
- SECTION 24 BOUNDARY
- ROADWAY
- FENCE
- EXISTING TOPOGRAPHY
- DRAINAGE PATHWAYS
- MINE BUILDINGS (PRIOR TO REMOVAL ACTIVITIES)

GENERAL NOTES:

G.1 THE MINE PERMIT AREA INCLUDES THE RIGHT OF WAY ALONG THE TREATED WATER DISCHARGE PIPELINE AND A 50' WIDE CORRIDOR FOR AN ACCESS ROAD (SEE FIGURE 1-3).

G.2 AFFECTED AREAS INCLUDE BUT ARE NOT LIMITED TO BORROW AREA "B", BORROW AREA "C", AND WINDBLOWN AREA. EVALUATION OF OTHER POSSIBLE AFFECTED AREAS IS ONGOING.

G.3 THIS DRAWING SHOWS THE SITE CONDITIONS AS OF JULY 2025. SEE FIGURE 1-2B AND TABLE 4.2 FOR DETAILED FACILITY DISPOSITION INFORMATION.

G.4 TOPOGRAPHY BASED ON A 2012 AERIAL SURVEY BY THOMAS R. MANN AND ASSOCIATES AND 2021 SURVEYS BY SOUTHWEST SURVEYING SOLUTIONS (S3).

NORTH

SCALE IN FEET

0 500'

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Project No. 111360

November 2025

Engineering Analytics, Inc.

**FIGURE 4-6**
**LOCATION OF CLAY BORROW SOURCE**
**MT. TAYLOR MINE**

# APPENDIX A
# Test Pit Logs for 2025 Field Investigation

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE: date

TEST PIT NO.: A-1

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

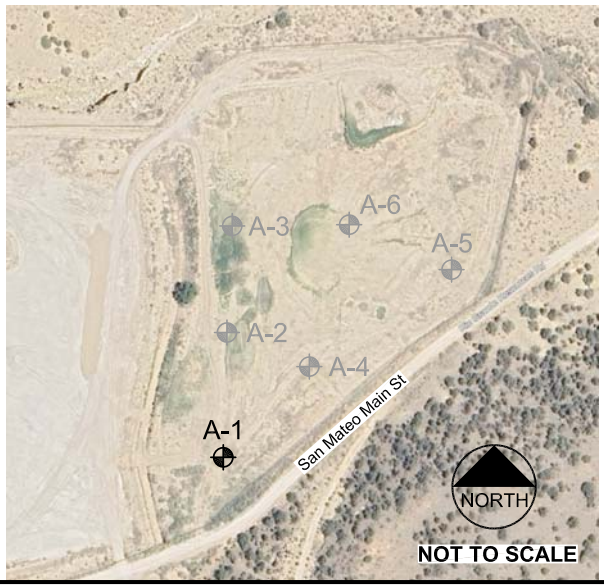
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## TEST PIT LOCATION




## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

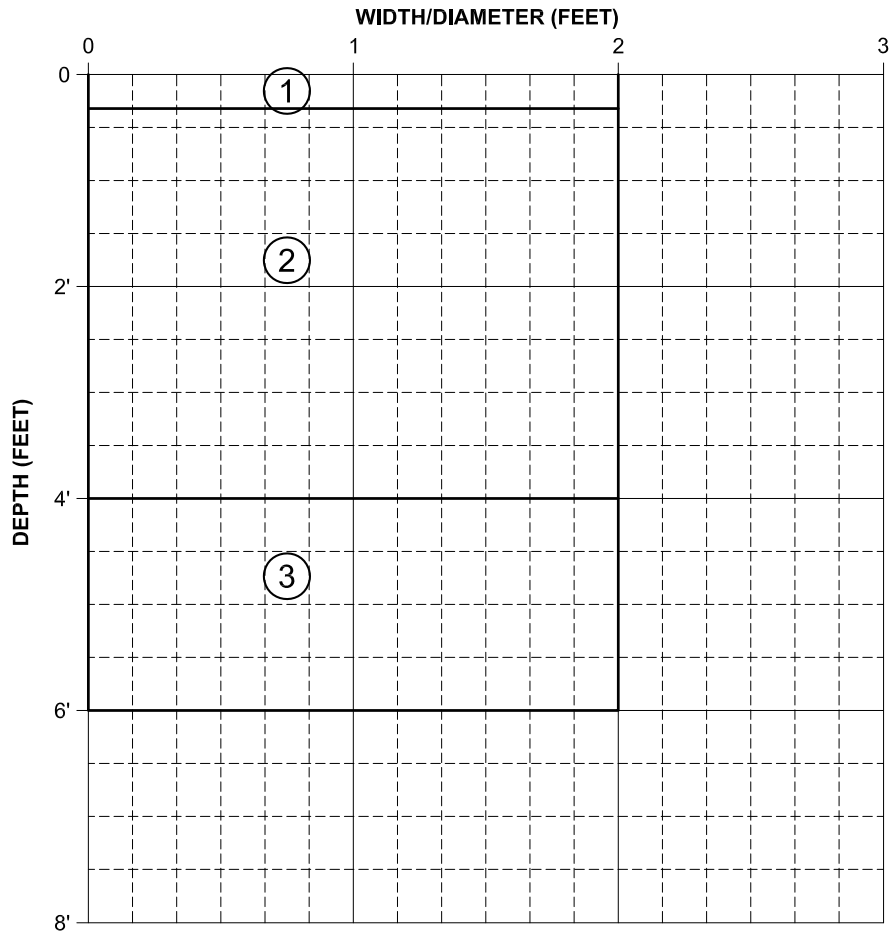
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-1




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A1 | BKT |
| 4' | A1C | CA |
| 6' | A1 | BKT |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 2" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE |
| 2 | 2" - 4' | SAND, DRY (2.5Y, 5/3), LOOSE, NON-FROZEN BITS, FROZEN |
| 3 | 4'-E.O.B. | VERY SANDY CLAY, DRY, TAN/ BROWN (2.5Y, 4/3), CHUNKY, BRITTLE, FROZEN |

**NOTES:** HARD TO TELL, GROUND IS FROZEN, MAY BE CLAYEY SAND SILT

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: A-2

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

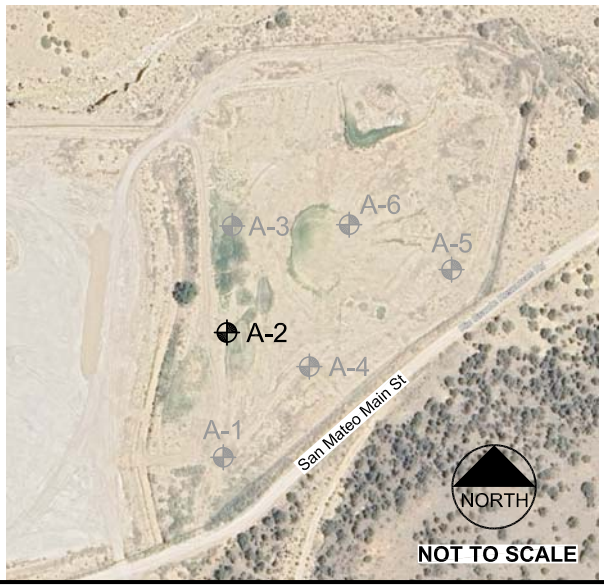
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

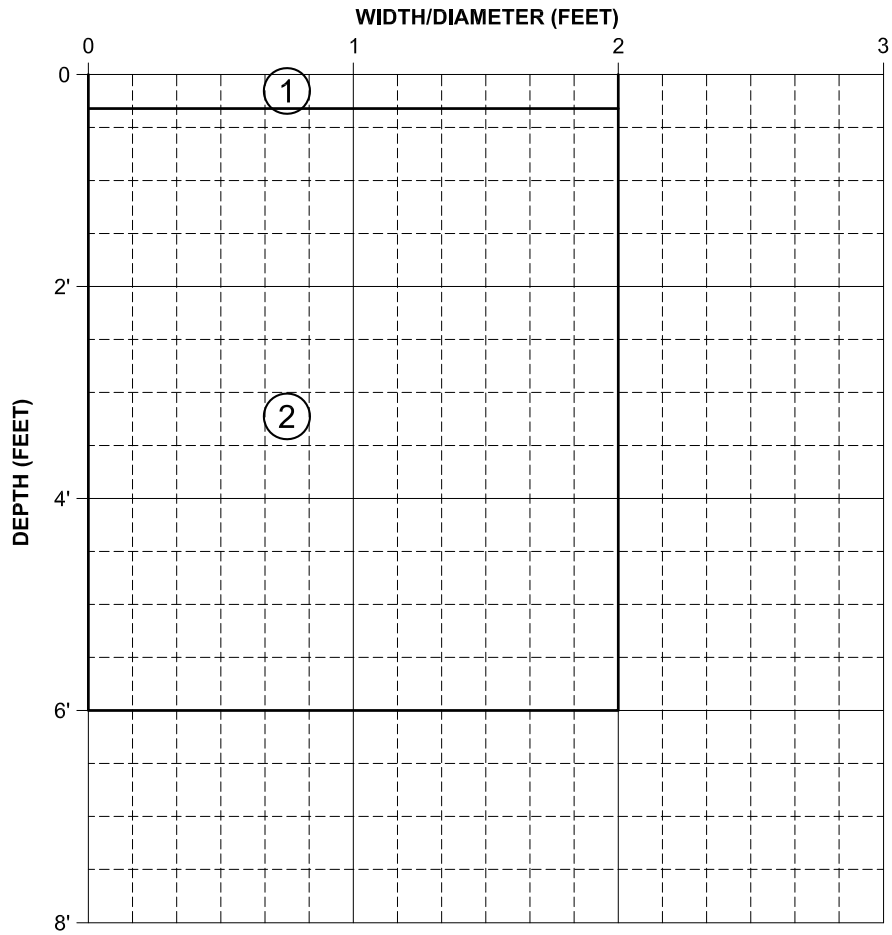
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-2




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A2 | BKT |
| 6' | A2 | BKT |
| NR | --- | CA |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 2" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE |
| 2 | 2" - E.O.B. | SAND, DRY, (TAN 2.5Y, 5/3), VERY LOOSE, NO PLASTICITY |
| | | NO CLAY |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: A-3

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

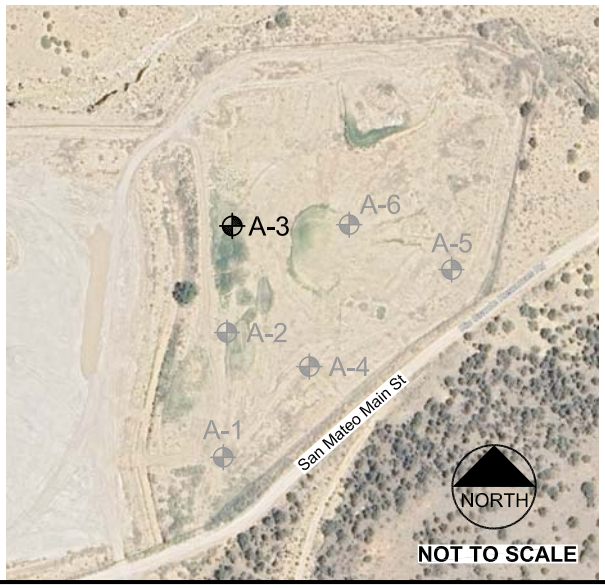
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

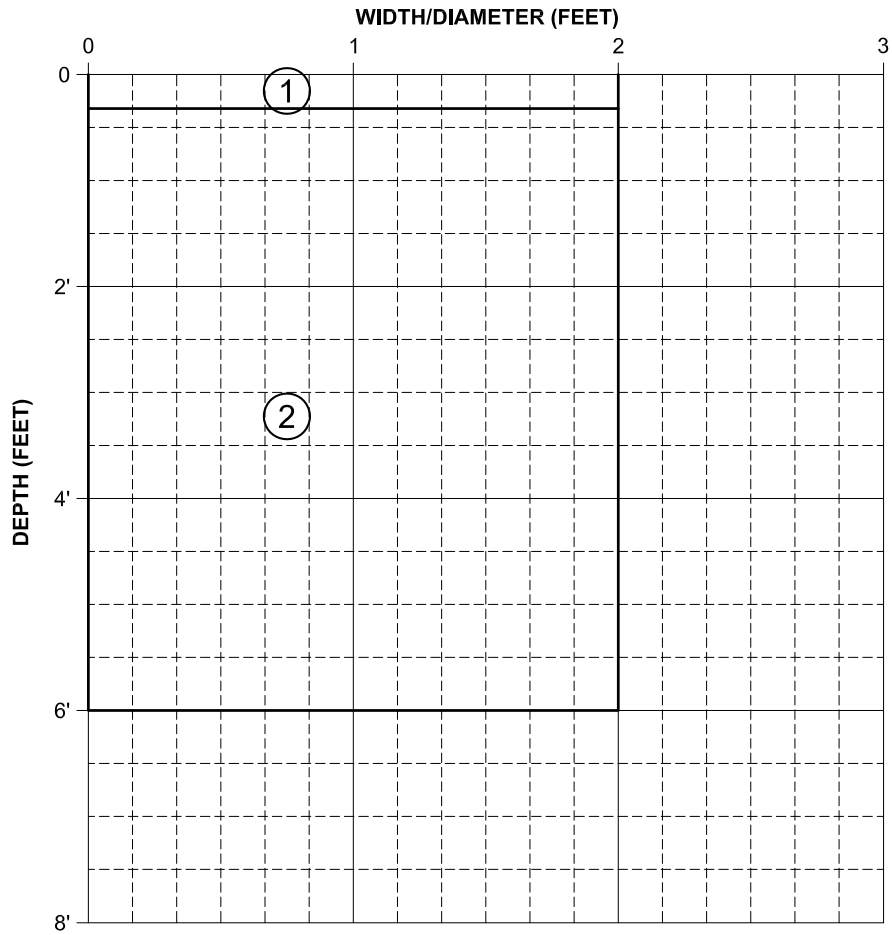
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-3




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A3 | BKT |
| 6' | A3 | BKT |
| NR | --- | CA |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE, NO PLASTICITY |
| 2 | 3" - E.O.B. | SAND, FROZEN, (2.5Y, 5/3), LOOSE BITS, NO PLASTICITY |

**NOTES:** NO CLAY

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **A-4**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

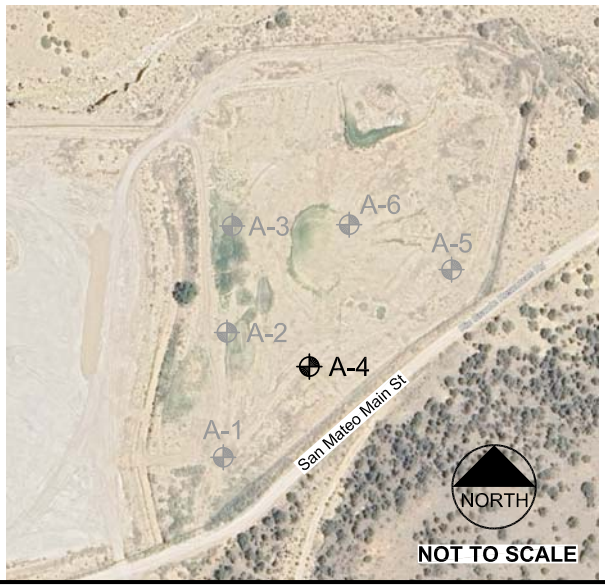
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

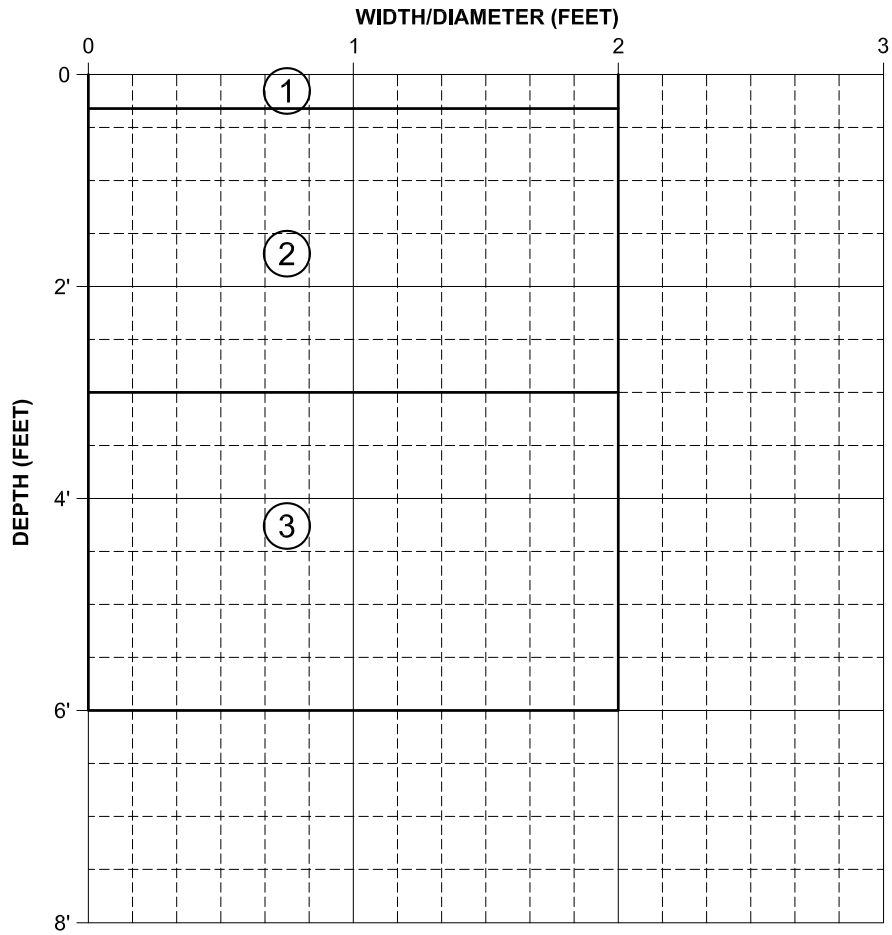
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-4




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A4C | CA |
| 3' | A4 | BKT |
| 6' | A4 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 2" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE |
| 2 | 2" -3' | SAND, FROZEN, (2.5Y, 5/3), NO PLASTICITY, CAME OFF IN BLOCKS, ROOTS |
| 3 | 3' - E.O.B. | VERY SANDY CLAY, (TAN/ BROWN 2.5Y, 5/3), CHUNKY, BRITTLE |
| | | E.O.T.P. = 6' |

**NOTES:** HARD TO DISTINGUISH CLAY FROM FROZEN SAND.

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: A-5

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

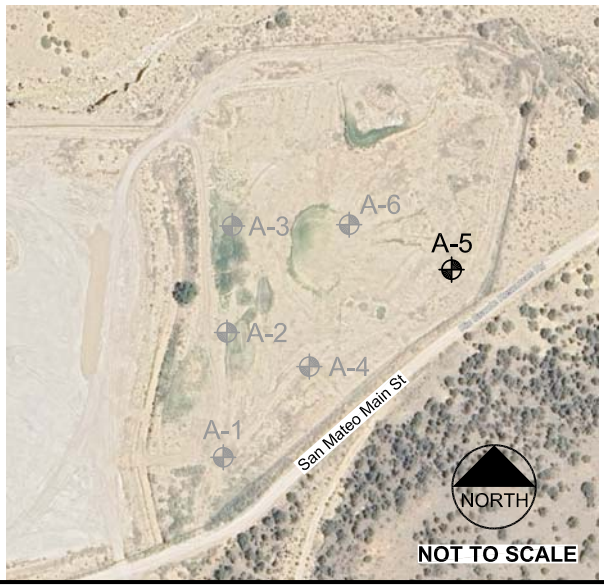
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

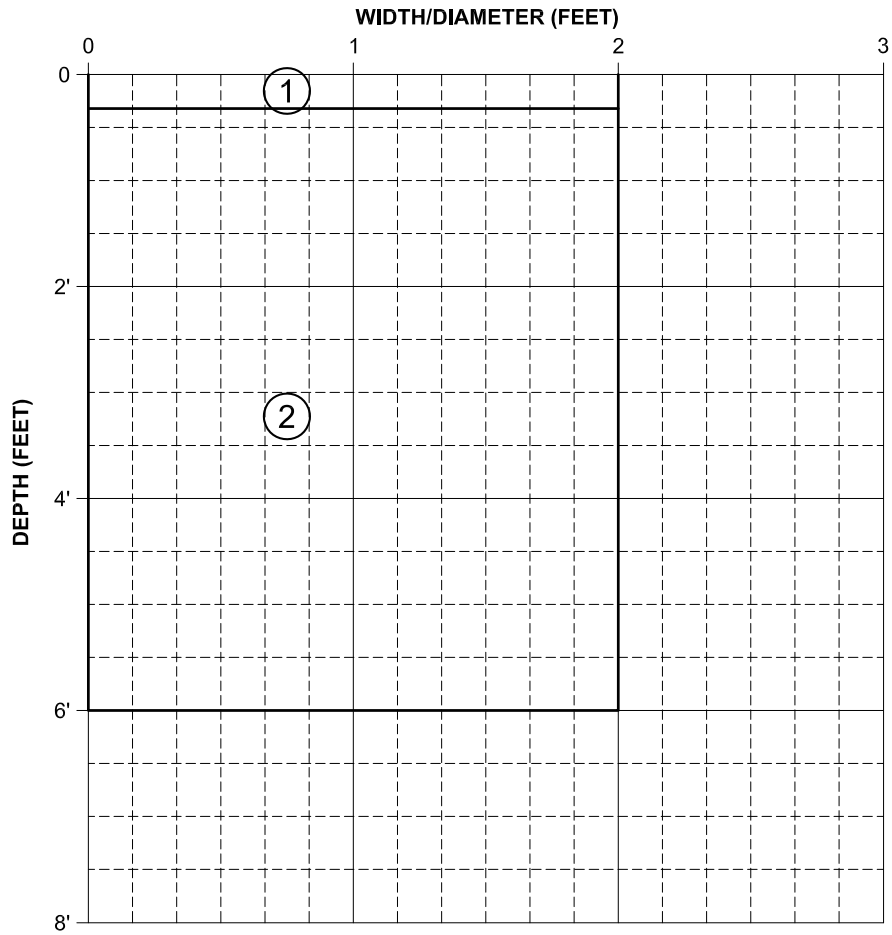
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-5




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A5 | BKT |
| 6' | A5 | BKT |
| NR | --- | CA |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 2" | VEGETATION, SAND, DRY, (2.5Y, 5/3), NO PLASTICITY |
| 2 | 2" - E.O.B. | SAND, (2.5Y, 5/3), VERY LOOSE, VERY FINE, CHUNKS THAT ARE BRITTLE |
| | | E.O.T.P. = 6' |

**NOTES:** NO CLAY

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: A-6

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

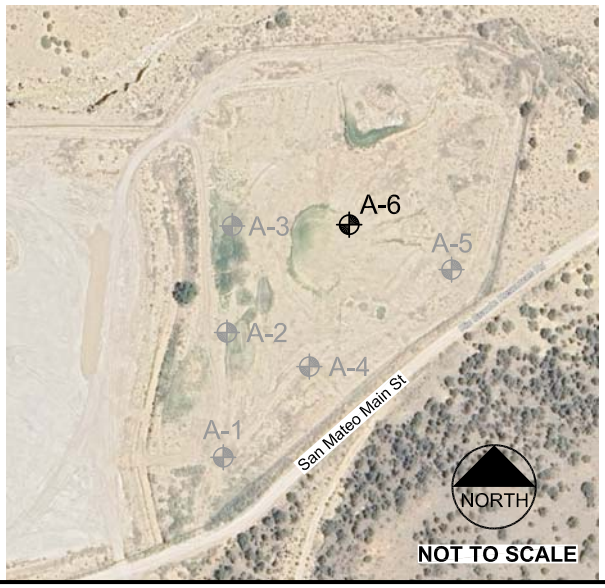
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER:

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

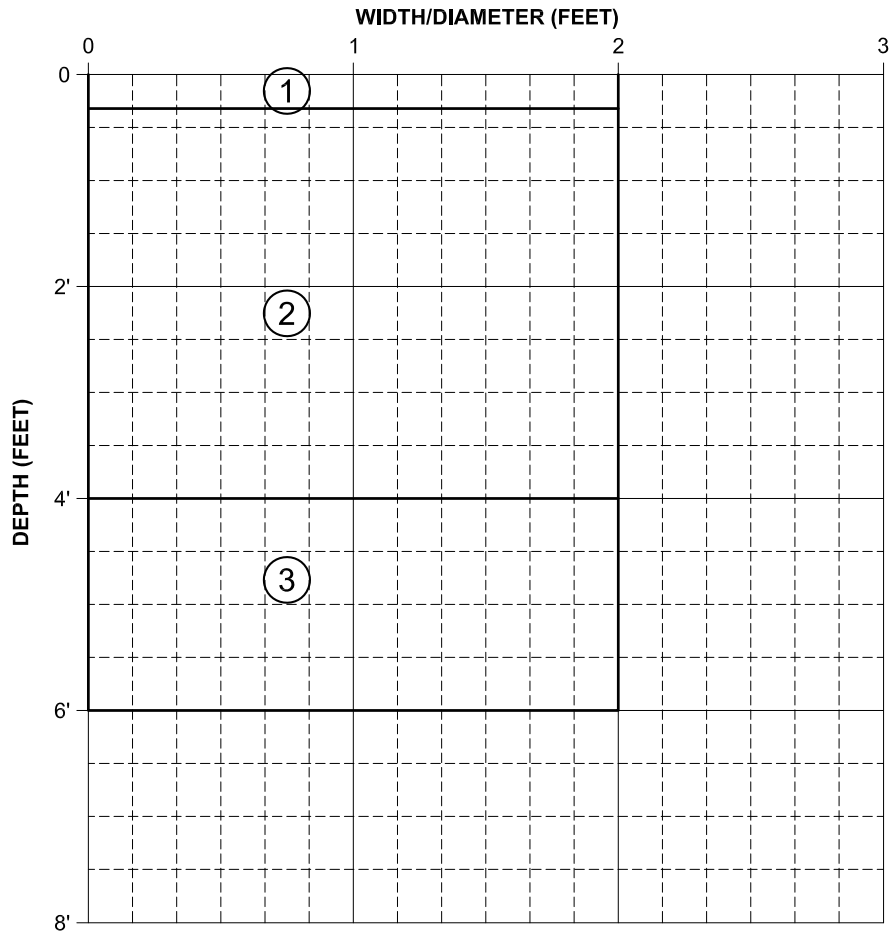
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** A-6




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | A6 | BKT |
| 5' | A6 | BKT |
| NR | --- | CA |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 2" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE, NO PLASTICITY |
| 2 | 2" - 4' | SILTY SAND, SLIGHTLY MOIST, (2.5Y, 5/3), LOOSE, VERY FINE, NO PLASTICITY |
| 3 | 4' - E.O.B. | SILTSTONE, DRY, GRAY (2.5Y, 7/1), FINE, THIN FRAGMENTS AND SILT, NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **B-1**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

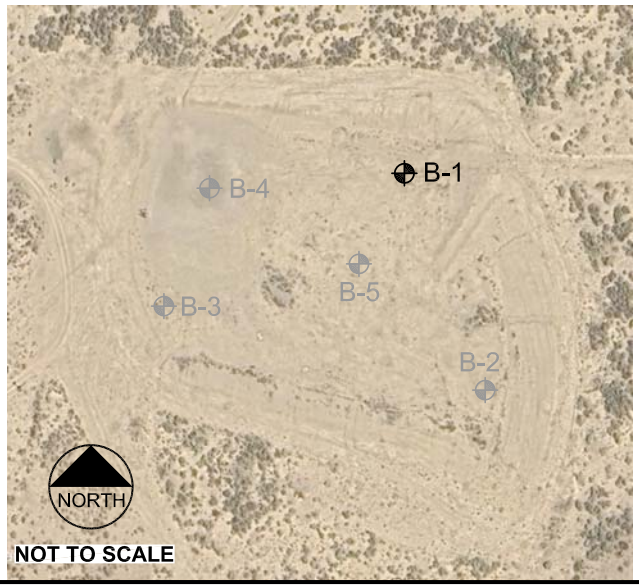
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## TEST PIT LOCATION




NOT TO SCALE

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 5 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

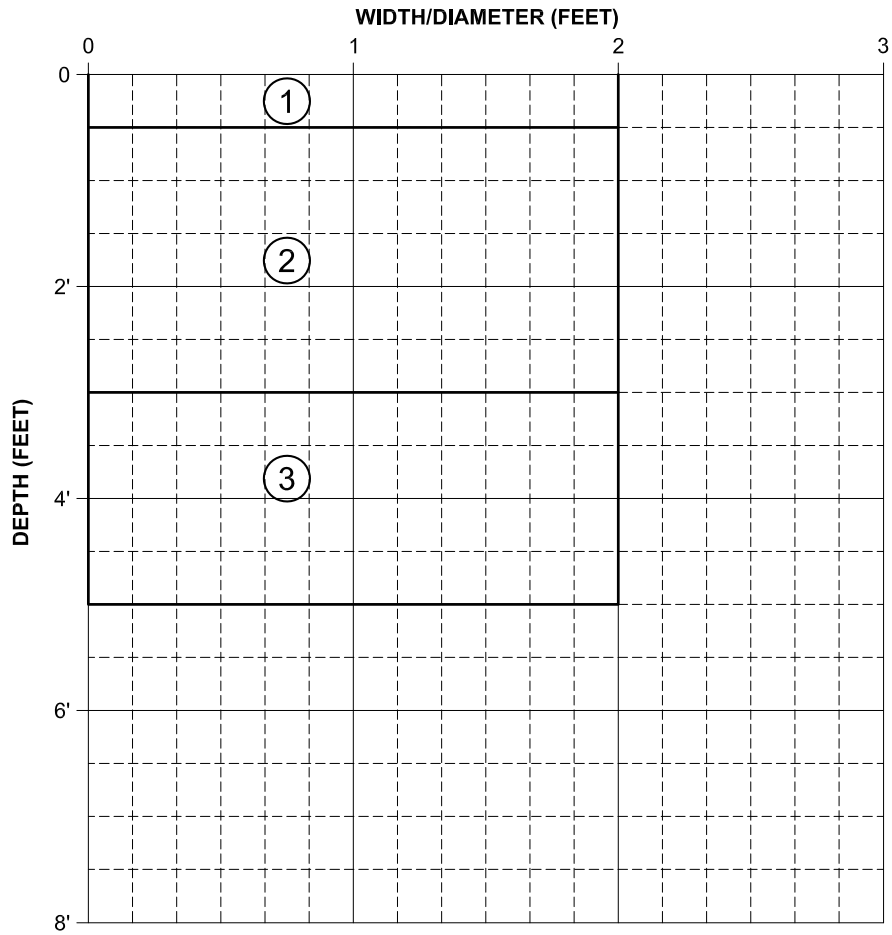
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** B-1




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | BK1-3 | BKT |
| 5' | BK1-5 | BKT |
| 2' | NR | CA |
| 3' | NR | CA |
| 5' | NR | CA |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 6" | VEGETATION AND TOPSOIL (MOSTLY VEGETATION), SAND |
| 2 | 6" - 3' | SAND WITH GRAVEL, DRY, LOOSE SAND WITH GRAVEL UP TO 1.5", BROWN/TAN (2.5Y 5/3), NON PLASTIC |
| 3 | 3' - E.O.B. | SANDY CLAY, BROWN/ BLACK (2.5Y, 2.5/1), VERY STIFF, MIXED, INTERBEDDED, CLAY LAYER<br>VERY STIFF AT BOTTOM |
| | | E.O.T.P. = 5' |

**NOTES:** HARD CLAY LAYERS AT 3FT, BACKHOE STRUGGLING, REFUSAL AT 5'.

NO CAL RECOVERY (SAND IN 2FT CAL, 3FT & 5FT 100 BLOWS).

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **B-2**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

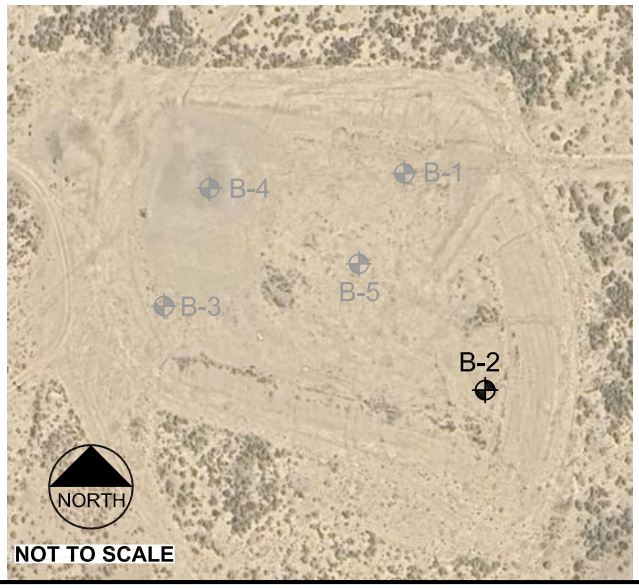
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## TEST PIT LOCATION




## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

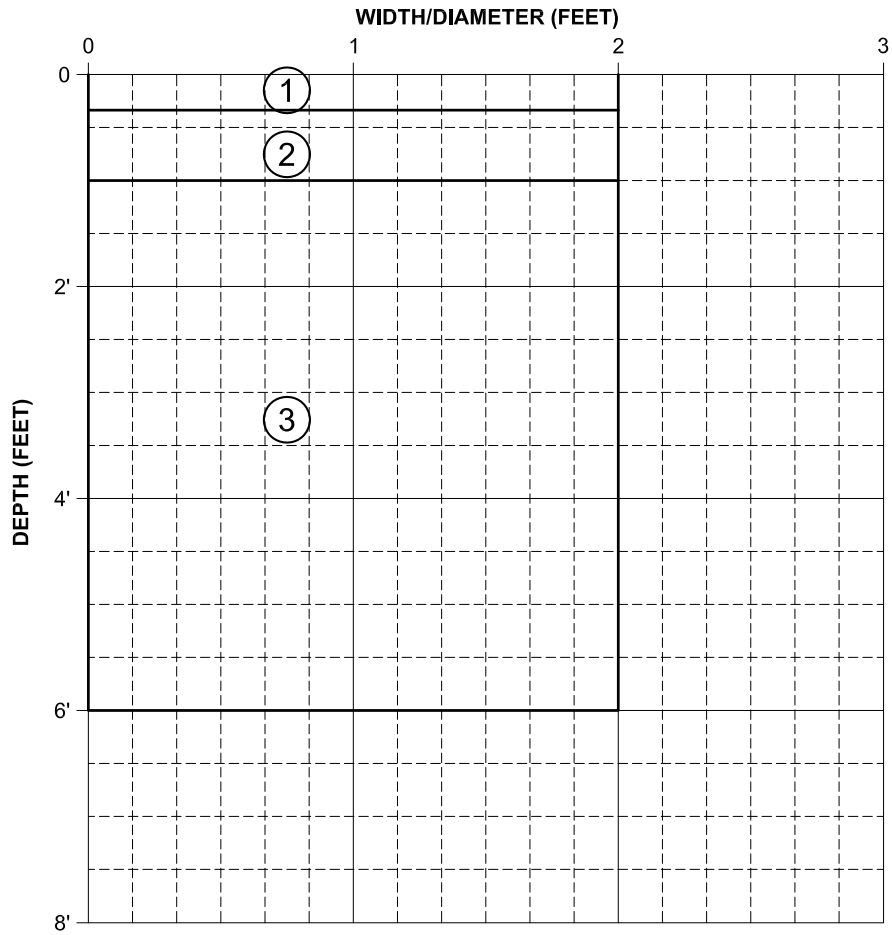
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** B-2




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 8" | B2 | BKT |
| 5' | B2 | BKT |
| 1' | NR | CA |
| 4' | B-2C | CA |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 4" | OVERBURDEN, VEGETATION, LOOSE SAND |
| 2 | 4" - 1' | CLAY, BROWN (2.5Y 2.5/1), STIFF, PLASTIC, MOISTURE PRESENT BUT FROZEN |
| 3 | 1' - E.O.B. | SAND, DRY, TAN/ BROWN (2.5Y, 2.5/1), VERY LOOSE, NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:** CAL BARREL ON CLAY LAYER IS FROZEN, 0/ 100

TRYING WITH HAND DRIVE BUT NOT WORKING

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **B-3**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

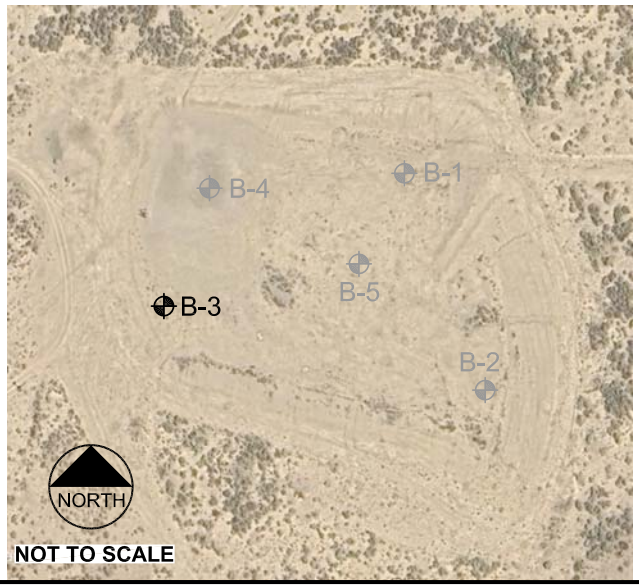
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## TEST PIT LOCATION




NOT TO SCALE

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

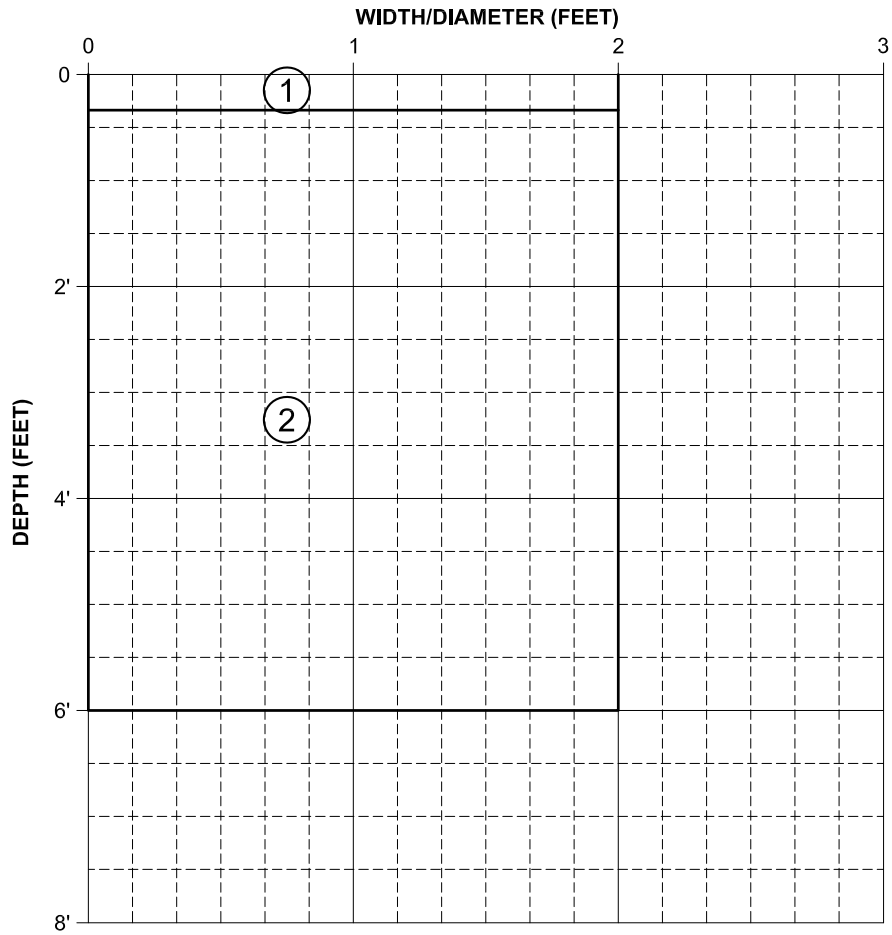
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** B-3




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 2' | B3-C | CA |
| 4' | B3 | BKT |
| 6' | B3 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 4" | OVERBURDEN, VEGETATION, LOOSE SAND |
| 2 | 4" - E.O.B. | SAND, TAN/ BROWN (2.5Y, 2.5/3), VERY LOOSE, NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:** NO CLAY IN HOLE AT ALL

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **B-4**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

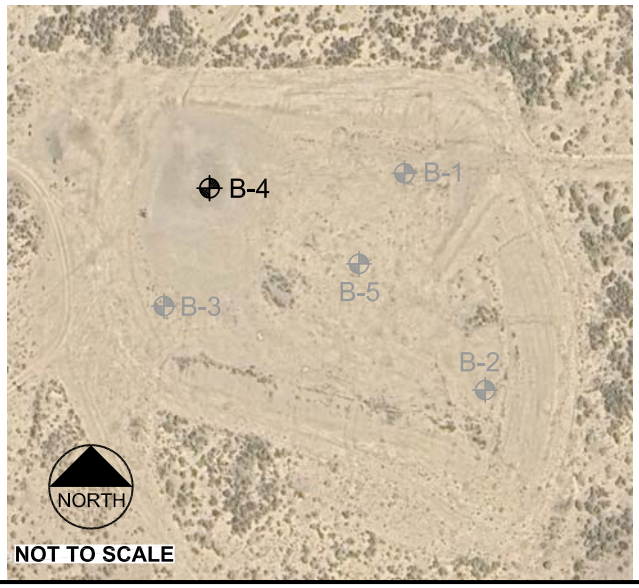
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## TEST PIT LOCATION




## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

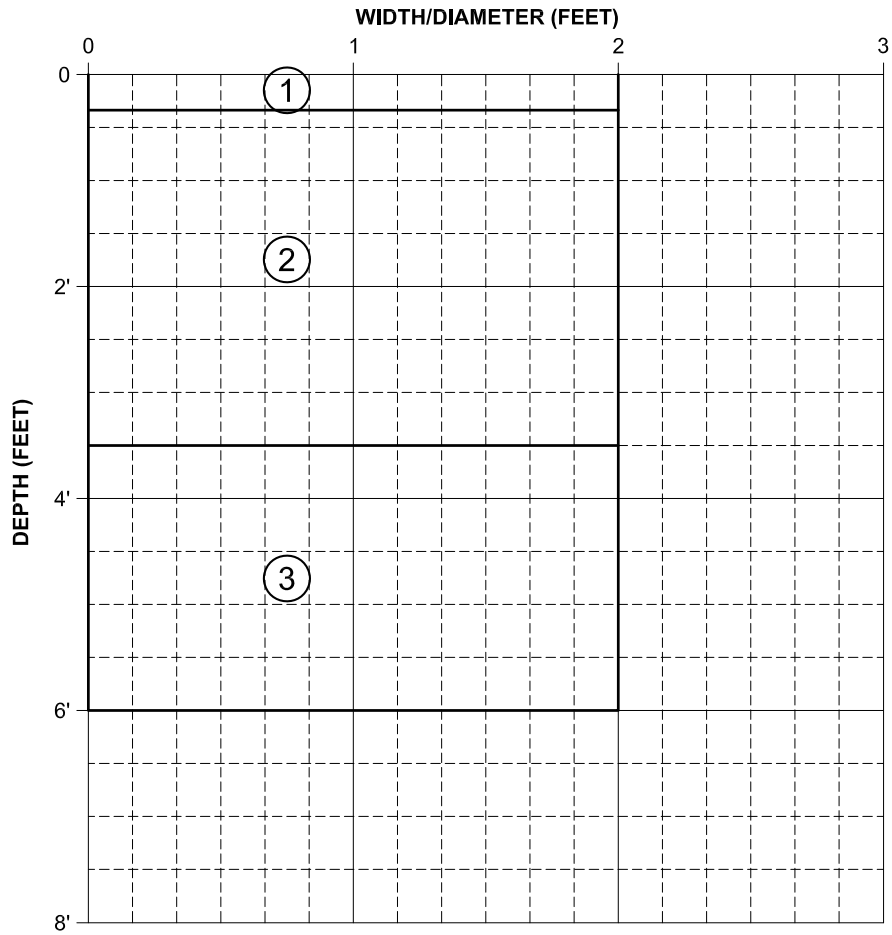
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** B-4




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | B4 | BKT |
| 5' | B4 | BKT |
| 5' | B4-C | CA |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 4" | VEGETATION, DRY, LOOSE SAND |
| 2 | 4" - 3.5' | SAND, DRY, TAN/ BROWN (2.5Y, 2.5/3), VERY LOOSE, NO PLASTICITY |
| 3 | 3.5' - E.O.B. | CLAY WITH SAND, DARK BROWN (2.5Y, 2.5/1), STIFF, PLASTIC |
| | | E.O.T.P. = 6' |

**NOTES:** 100 DRIVES

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: **B-5**

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## FIELD INFORMATION

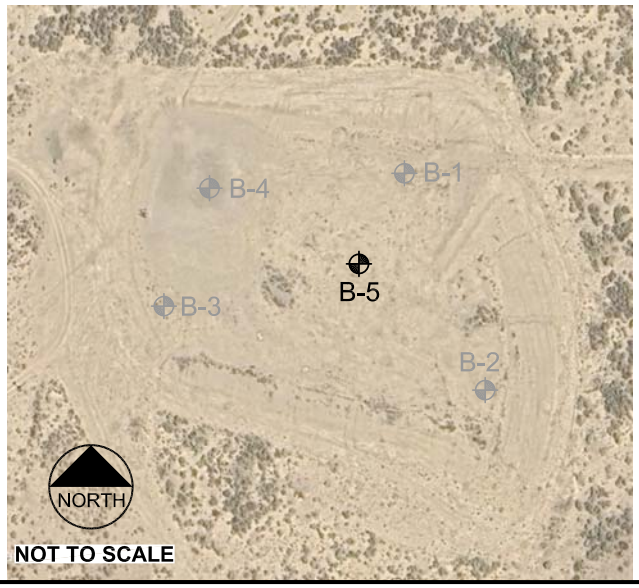
DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## TEST PIT LOCATION




NOT TO SCALE

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

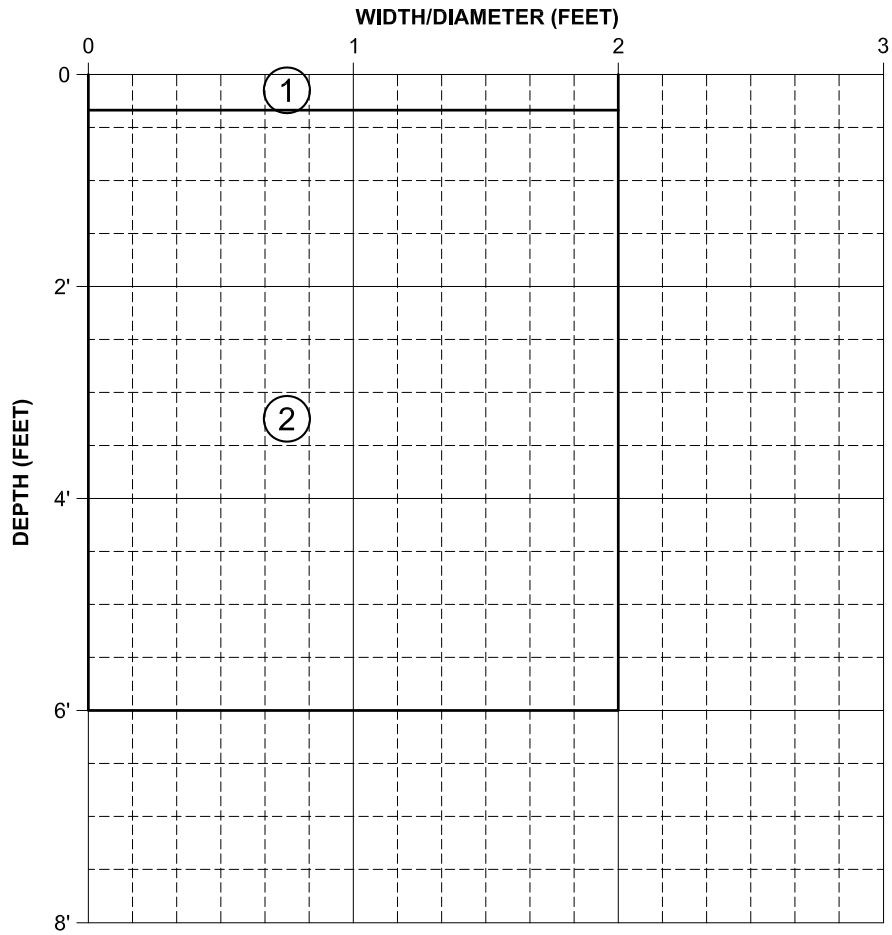
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** B-5




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | B5 | BKT |
| 6' | B5 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 4" | VEGETATION, DRY, LOOSE SAND |
| 2 | 4" - E.O.B. | SAND, DRY, BROWN/ TAN (2.5Y, 5/3), VERY LOOSE, NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:** NO CLAY TO 7'

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-1

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

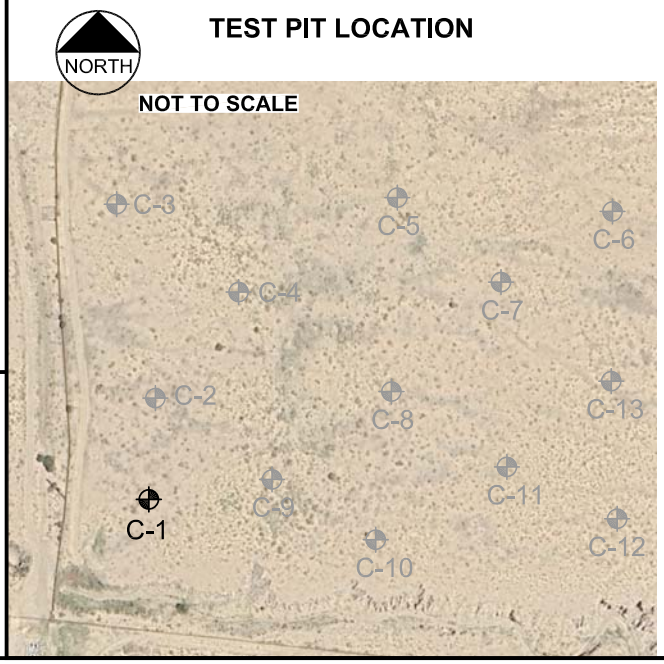
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 5 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

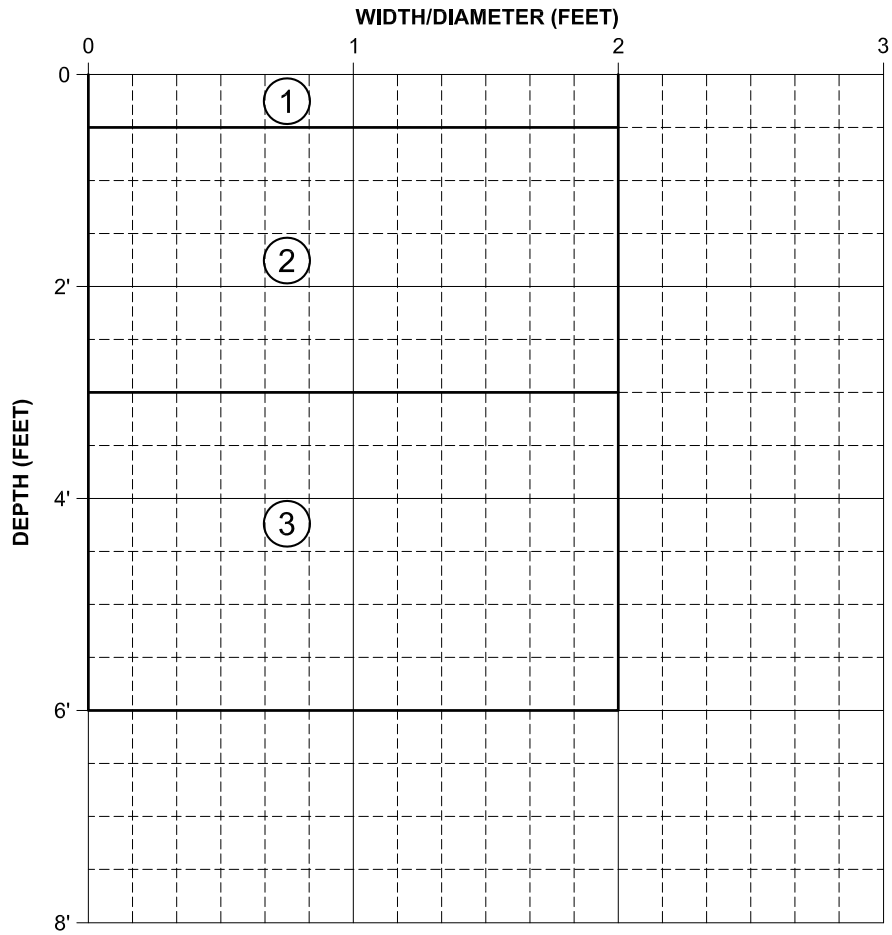
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-1




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-1C | CA |
| 2' | C-1 | BKT |
| 5' | C-1 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 6" | SAND WITH VEGETATION, DRY, TAN/ BROWN (2.5Y, 5/3), LOOSE |
| 2 | 6" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY WITH SAND, MOTTLED BROWN (5YR, 3/1), BRITTLE, CALCITE |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-2

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

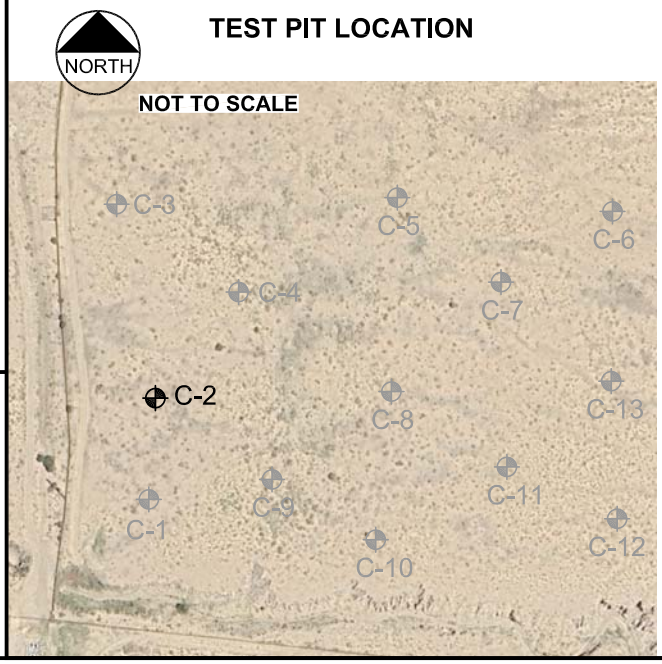
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 5 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

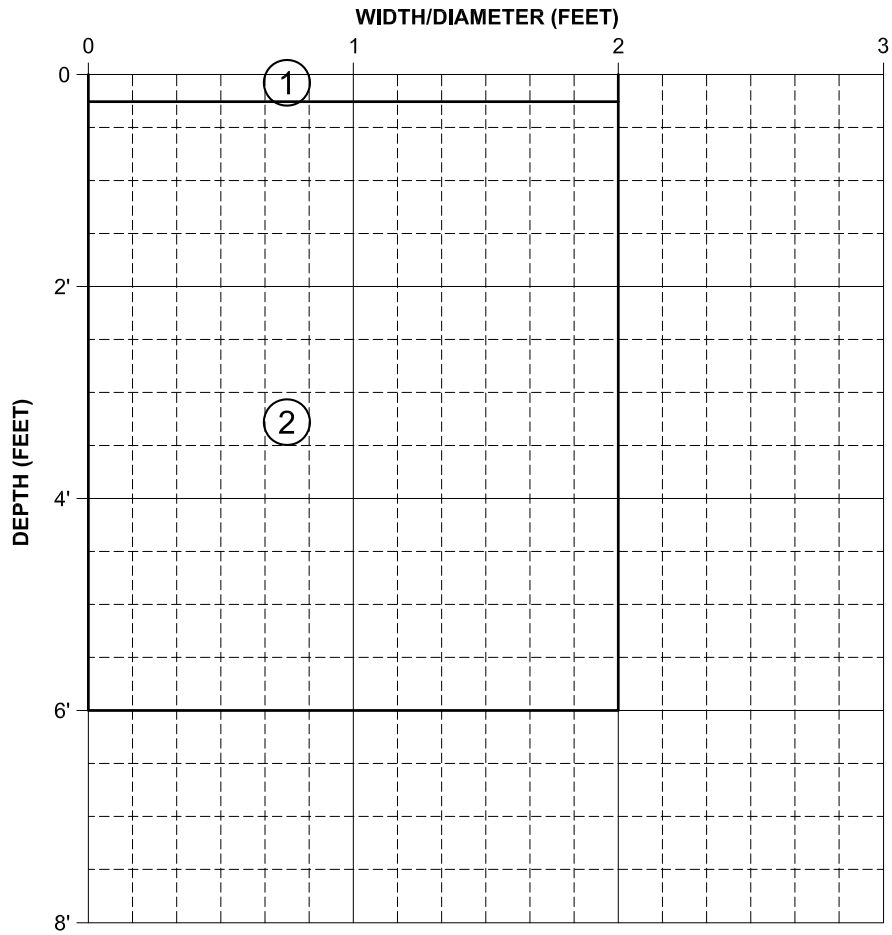
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-2




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-2C | CA |
| 2' | C-2 | BKT |
| 5' | C-2 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | SANDY VEGETATION, TAN (2.5Y, 5/3) |
| 2 | 3" - E.O.B. | SANDY CLAY, DRY, BROWN (5YR, 3/1), BRITTLE, LOOSE/ CHUNKS, CALCITE |
| | 4' | MORE SAND |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-3

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

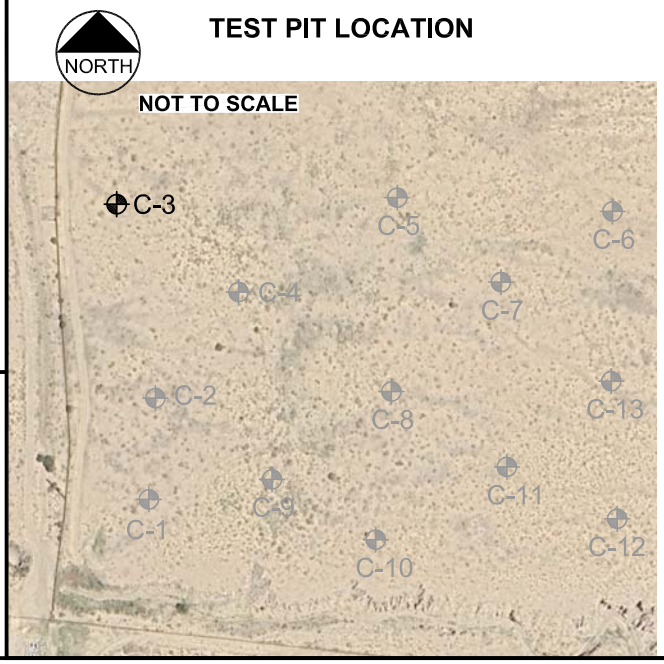
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

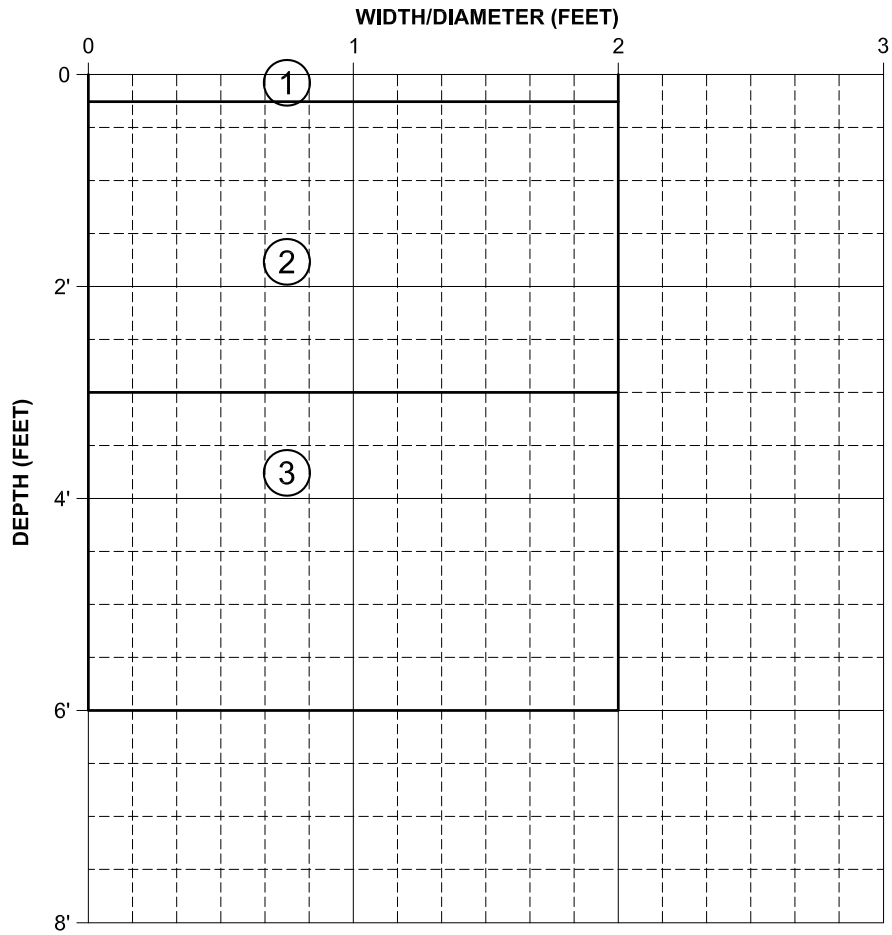
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-3




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-3C | CA |
| 2' | C-3 | BKT |
| 5' | C-3 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 6" | SAND, LOTS OF VEGETATION, TAN (2.5Y, 5/3) |
| 2 | 6" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), BRITTLE |
| | | E.O.T.P. = 6' |

**NOTES:** ISSUES WITH HAND SAMPLER

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-4

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

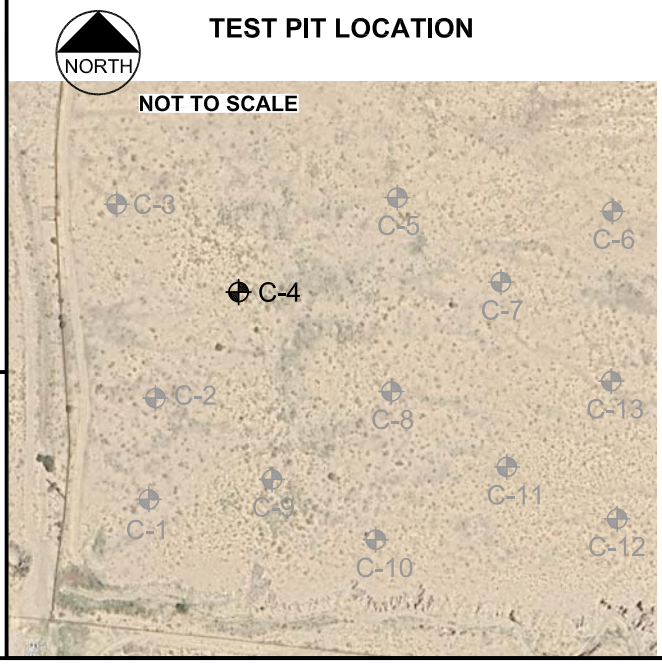
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

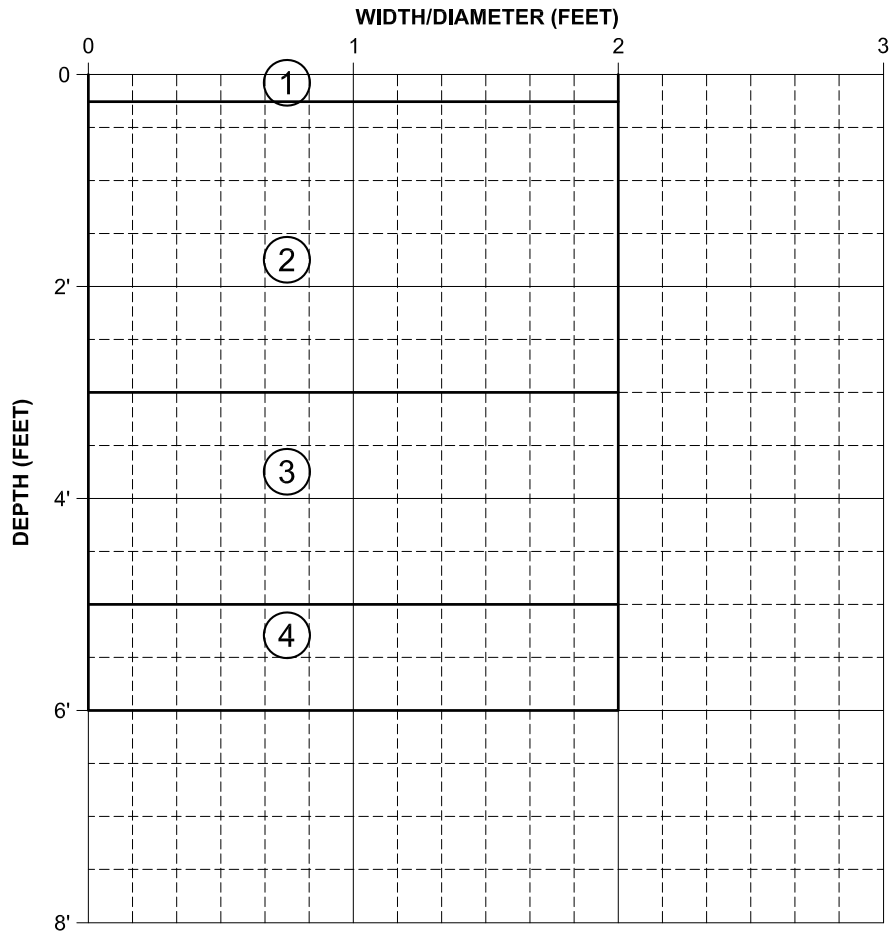
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-4




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-4C | CA |
| 4' | C-4 | BKT |
| 6' | C-4 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, LOOSE |
| 2 | 3" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - 5' | SANDY CLAY, DRY, BROWN (5YR, 3/1), BRITTLE, CLUMPY |
| 4 | 5' - E.O.B. | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:** TEST PIT IN OLD WASHOUT FEATURE

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-5

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

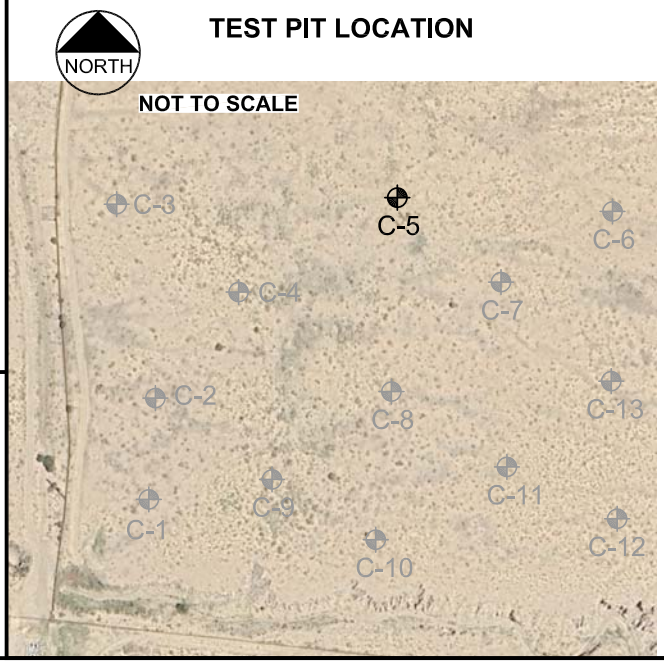
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 5 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

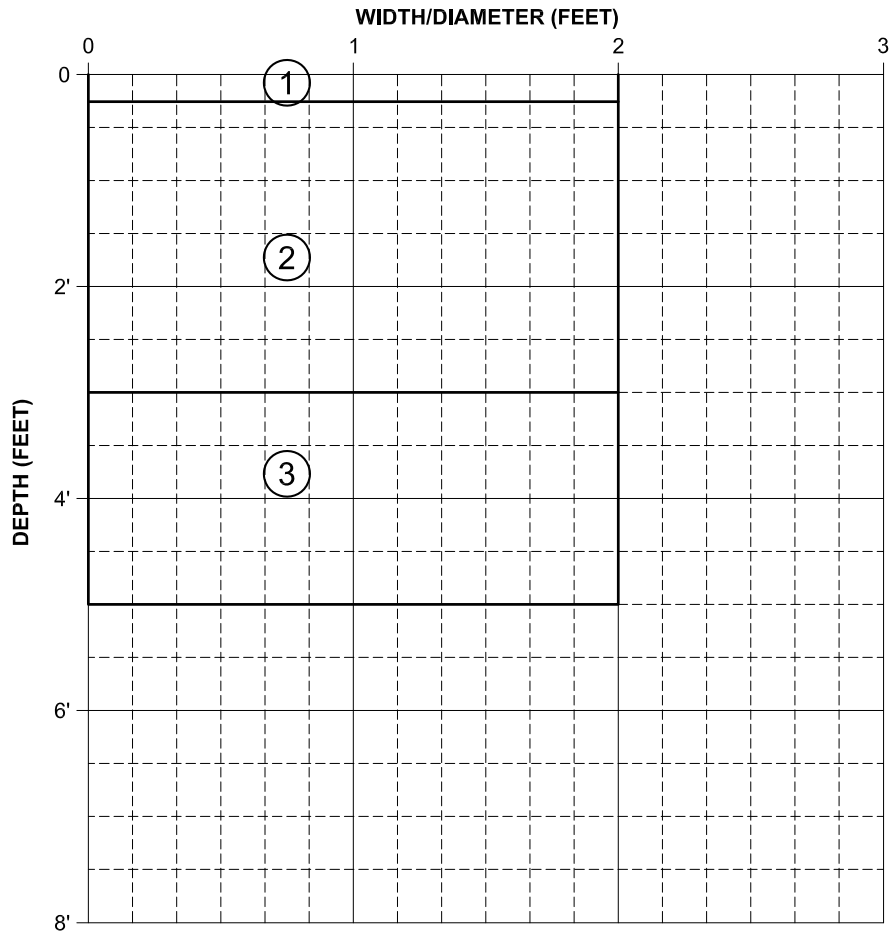
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-5




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-5C | CA |
| 2' | C-5 | BKT |
| 5' | C-5 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, DRY, LOOSE SAND |
| 2 | 3" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), BRITTLE, LOOSE, CHUNKY, CALCITE |
| | 5' | VERY FIRM, MOTTLED CLAY |
| | | E.O.T.P. = 5' |

**NOTES:** REFUSAL AT 5'

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-6

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

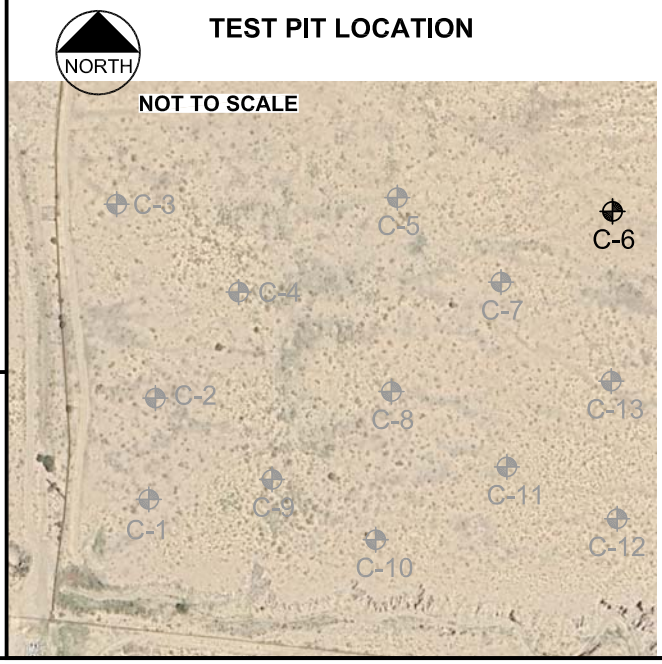
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

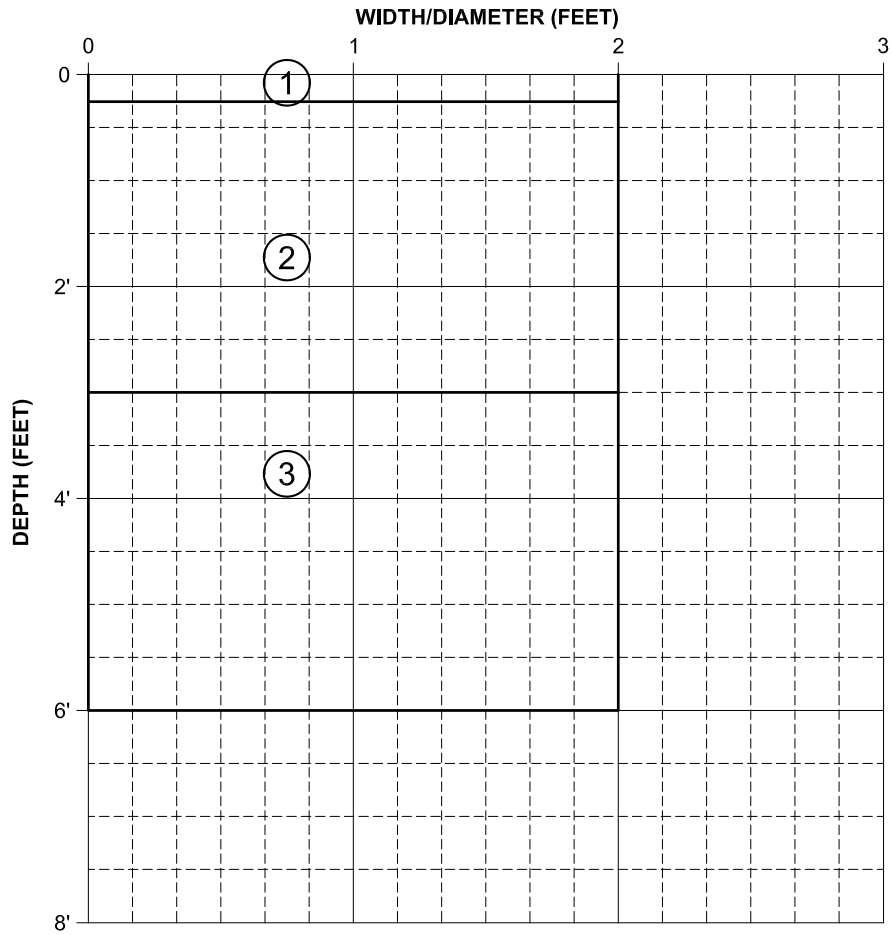
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-6




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-6C | CA |
| 2' | C-6 | BKT |
| 5' | C-6 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, DRY, TAN (2.5Y, 5/3), SAND, NO PLASTICITY |
| 2 | 3" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), BRITTLE, CHUNKY, CALCITE |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-7

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

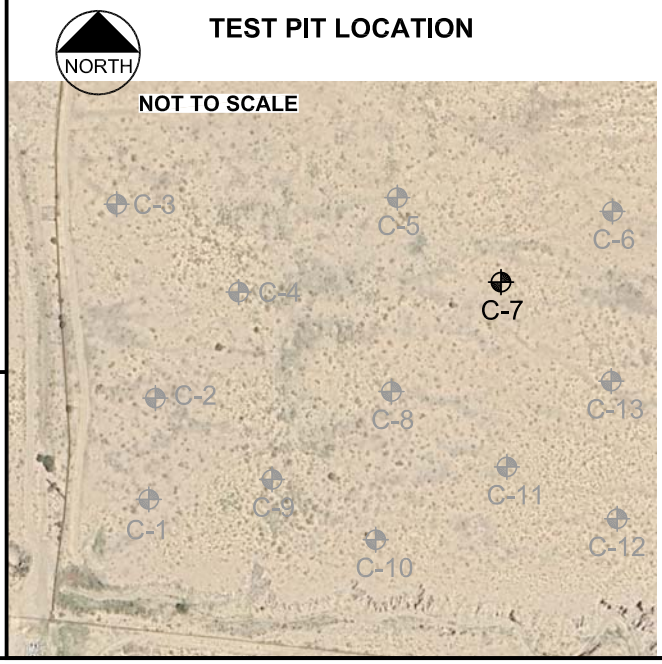
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

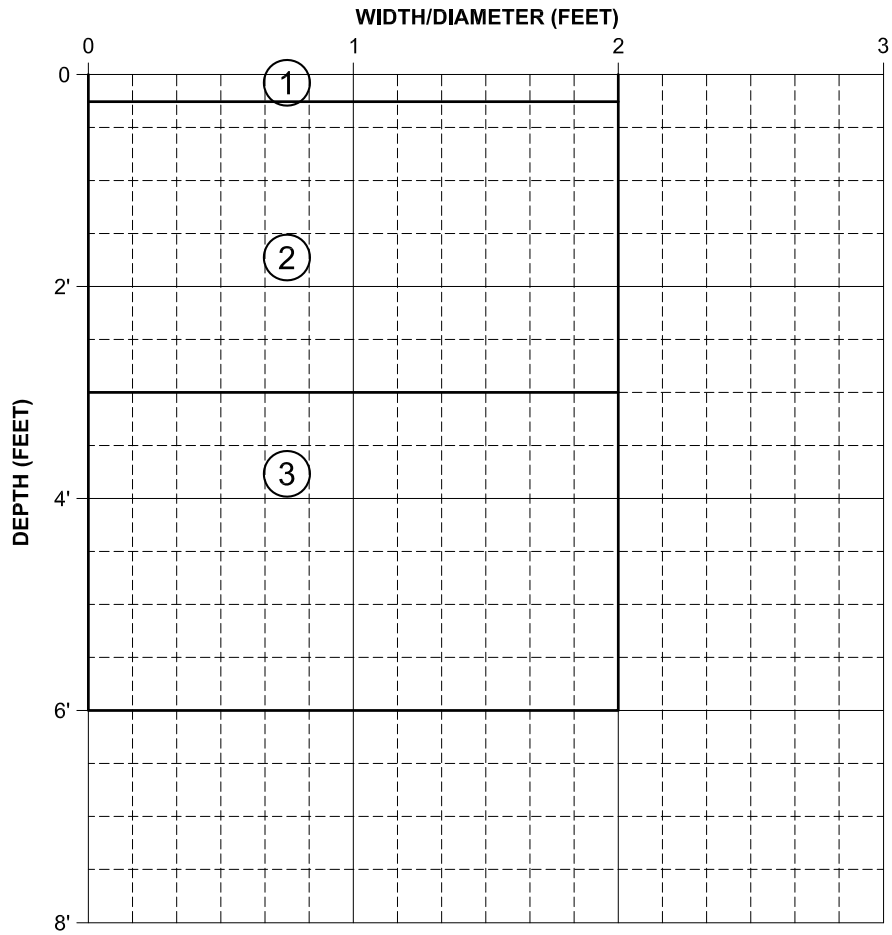
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-7




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-7C | CA |
| 2' | C-7 | BKT |
| 6' | C-7 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, (2.5Y, 5/3) |
| 2 | 3" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), BRITTLE, CHUNKY |
| | | E.O.T.P. = 6' |

**NOTES:** RECOVERY WITH CAL SAMPLER HAS BEEN POOR

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-8

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

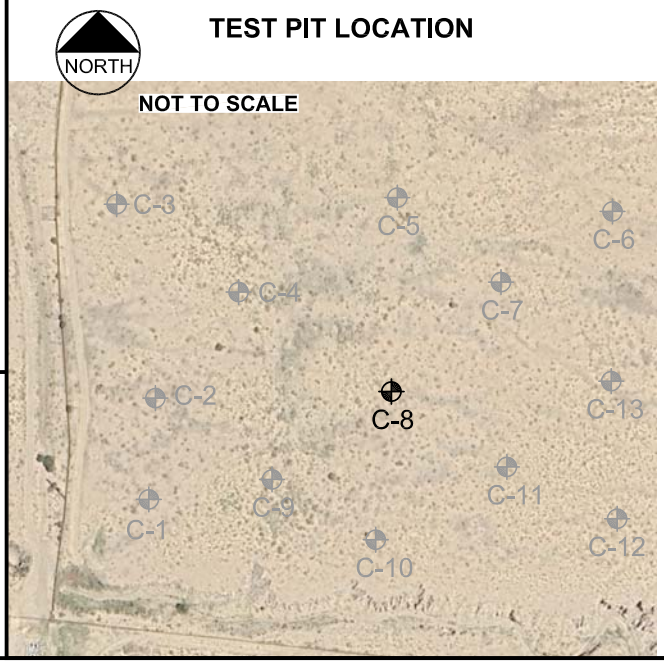
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

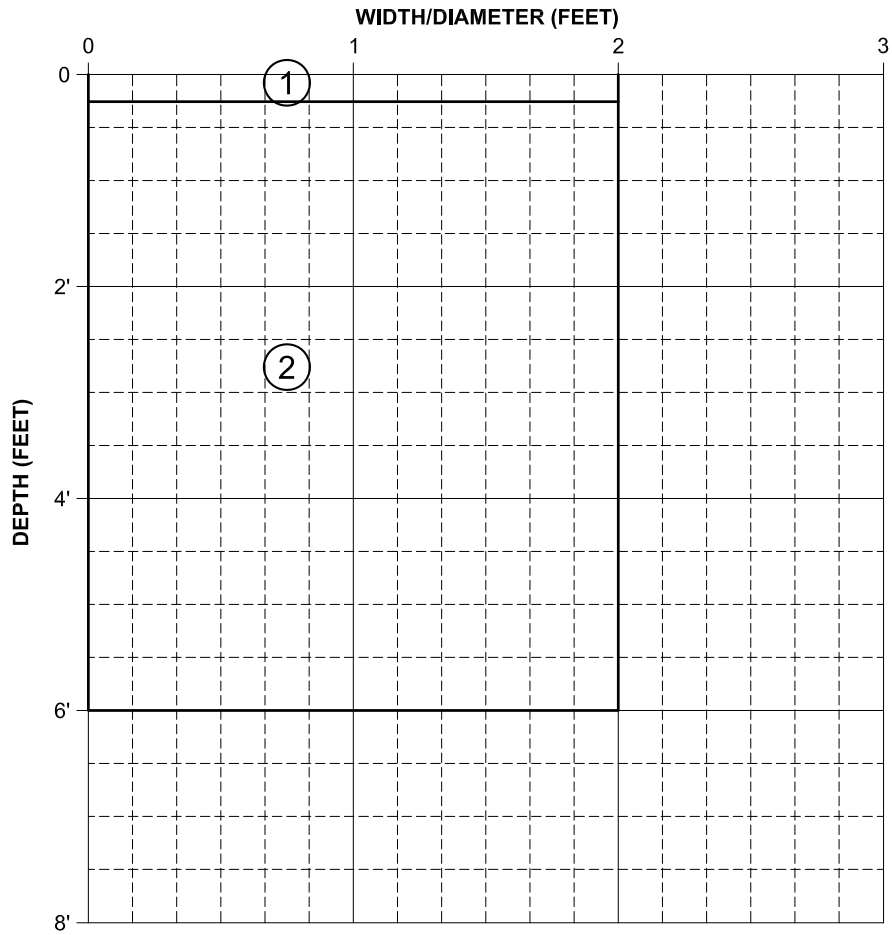
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-8




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-8C | CA |
| 2' | C-8 | BKT |
| 5' | C-8 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, (2.5Y, 5/3), LOOSE |
| 2 | 3" - E.O.B. | SANDY CLAY, DRY, BROWN (5YR, 3/1), BRITTLE, CHUNKY |
| | 5' | SAND INCREASES |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-9

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

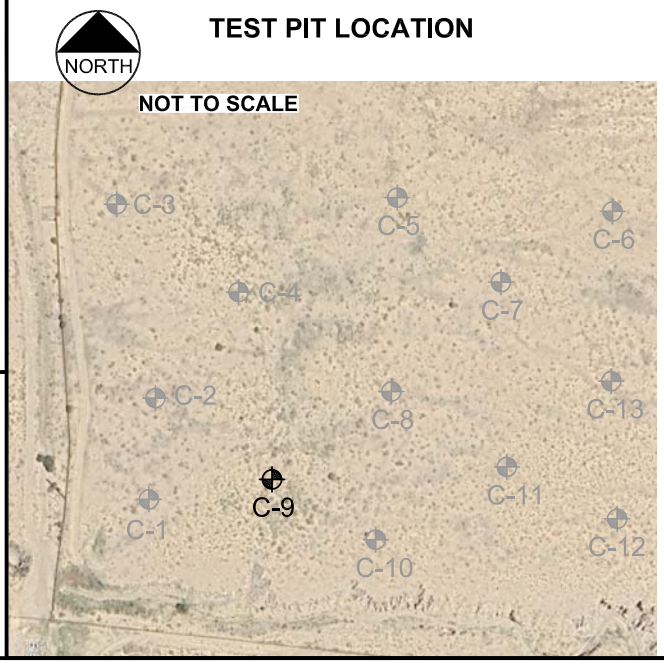
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

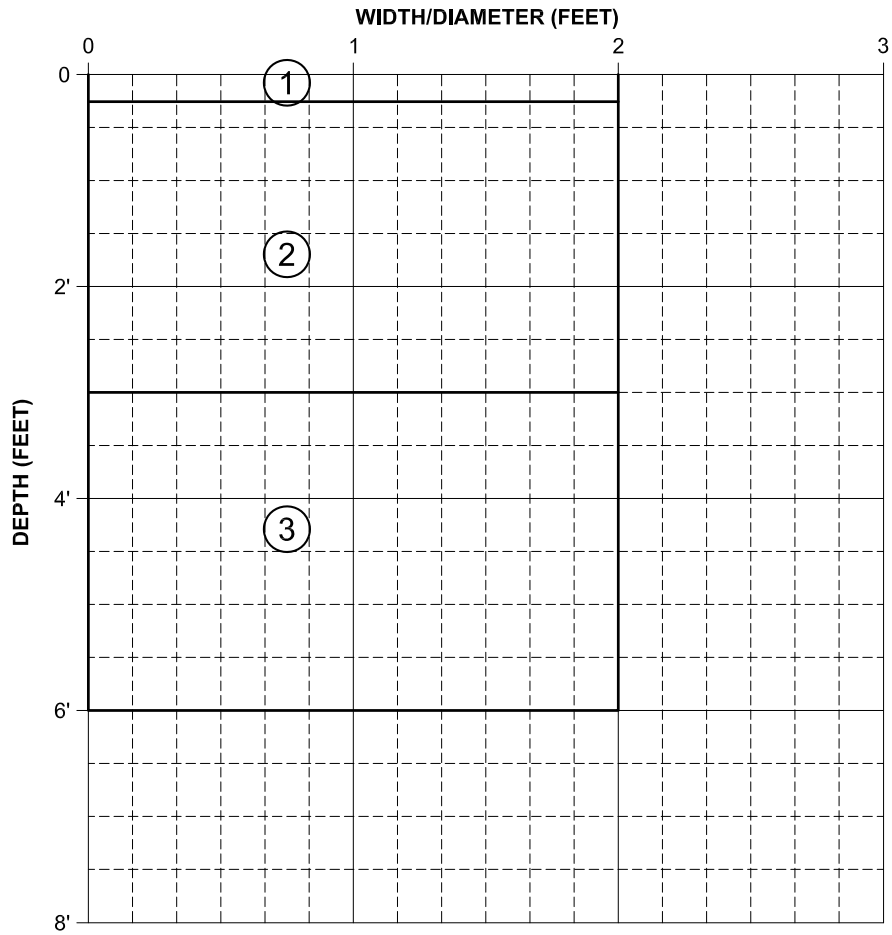
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-9




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-9C | CA |
| 2' | C-9 | BKT |
| 5' | C-9 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, TAN (2.5Y, 5/3) |
| 2 | 6" - 3' | VERY LOOSE SAND, DRY, TAN/ BROWN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 3' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), CHUNKY, BRITTLE |
| | | E.O.T.P. = 6' |

**NOTES:** GROUND FROZEN

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-10

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

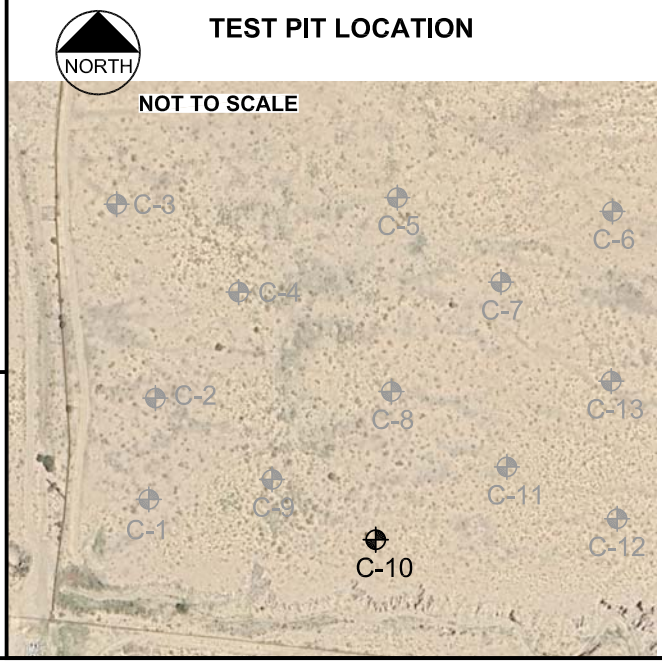
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

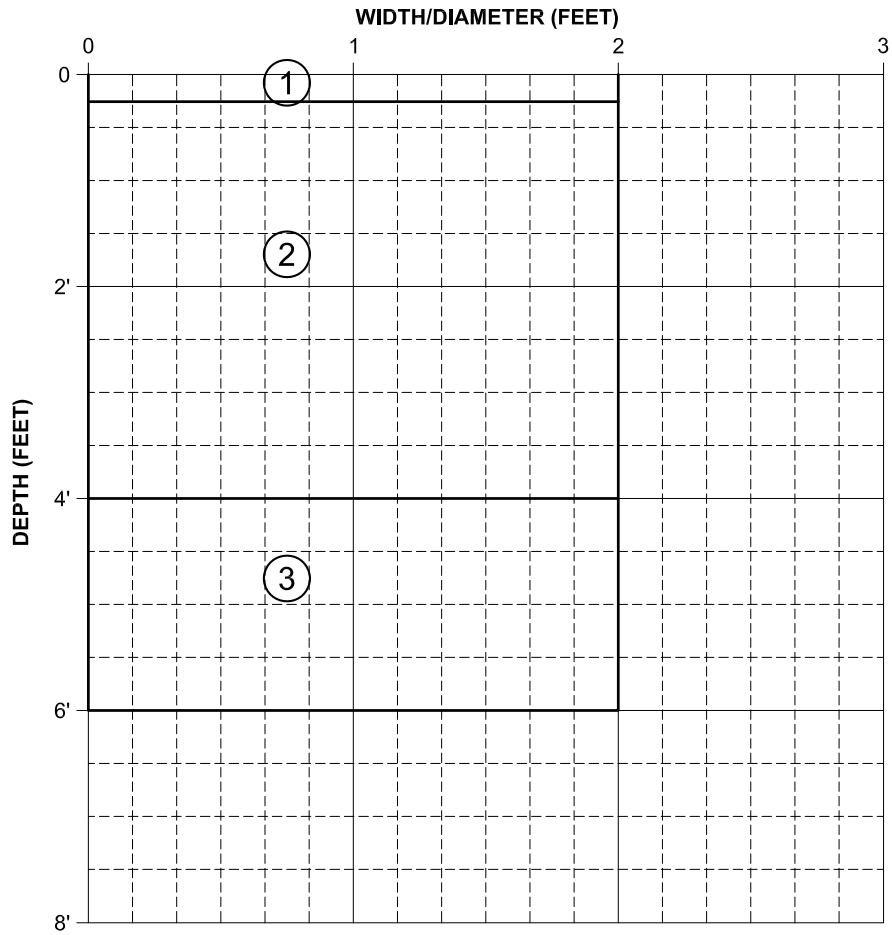
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-10




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 4' | C-10C | CA |
| 3' | C-10 | BKT |
| 6' | C-10 | BKT |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, TAN (2.5Y, 5/3), NO PLASTICITY |
| 2 | 6" - 4' | VERY LOOSE SAND, DRY, TAN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 4' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), CHUNKY, BRITTLE<br>MORE SAND |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-11

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

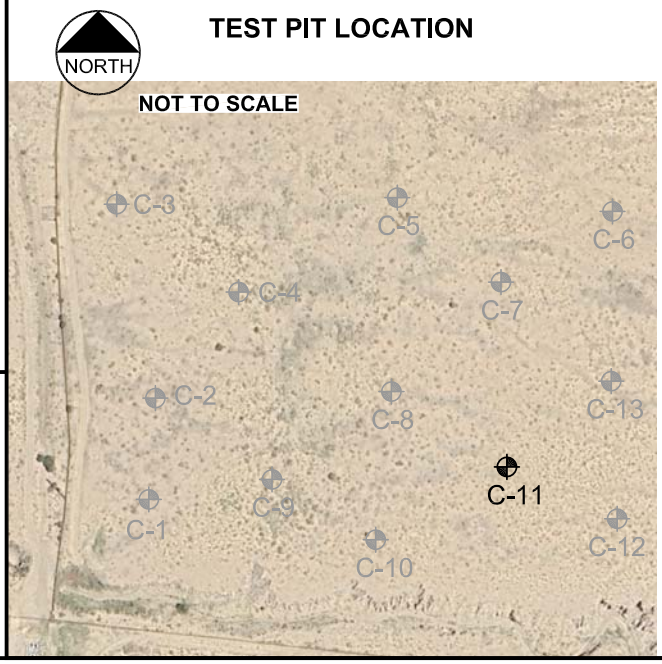
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

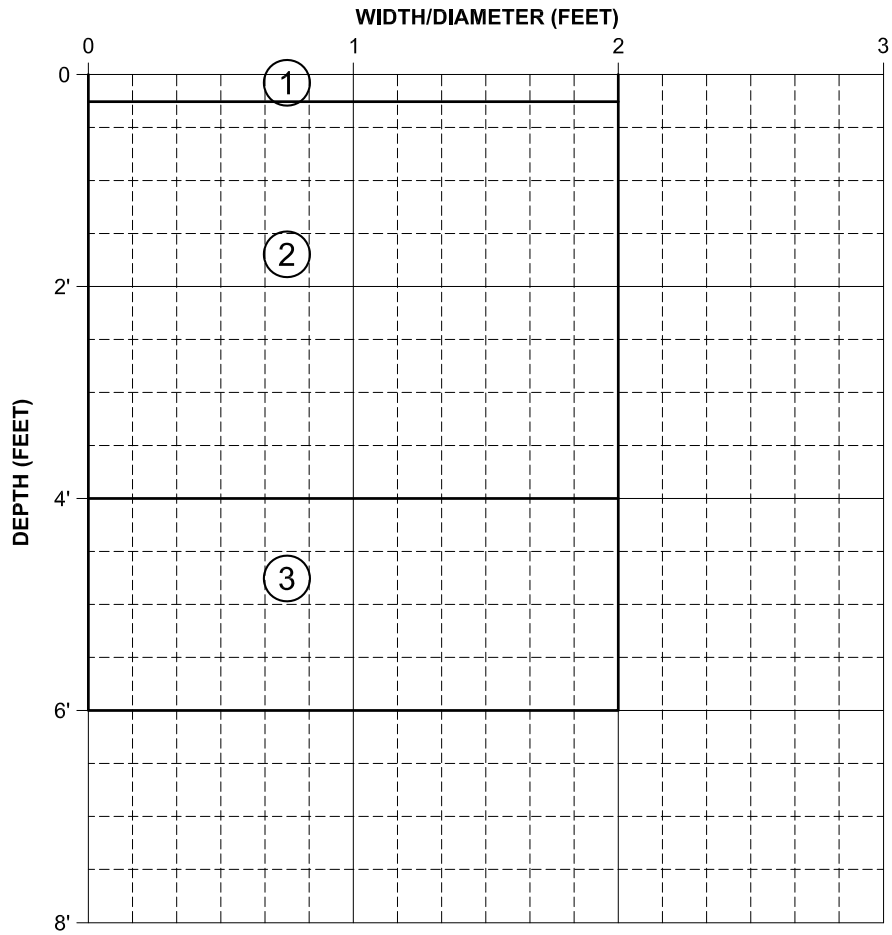
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-11




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 4' | C-11C | CA |
| 3' | C-11 | BKT |
| 5' | C-11 | BKT |
| | | |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, TAN (2.5Y, 5/3) |
| 2 | 6" - 4' | VERY LOOSE SAND, DRY, TAN (2.5Y, 5/3), NO PLASTICITY |
| 3 | 4' - E.O.B. | SANDY CLAY, DRY, MOTTLED BROWN (5YR, 3/1), CHUNKY, BRITTLE |
| | | E.O.T.P. = 6' |

**NOTES:**

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-12

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

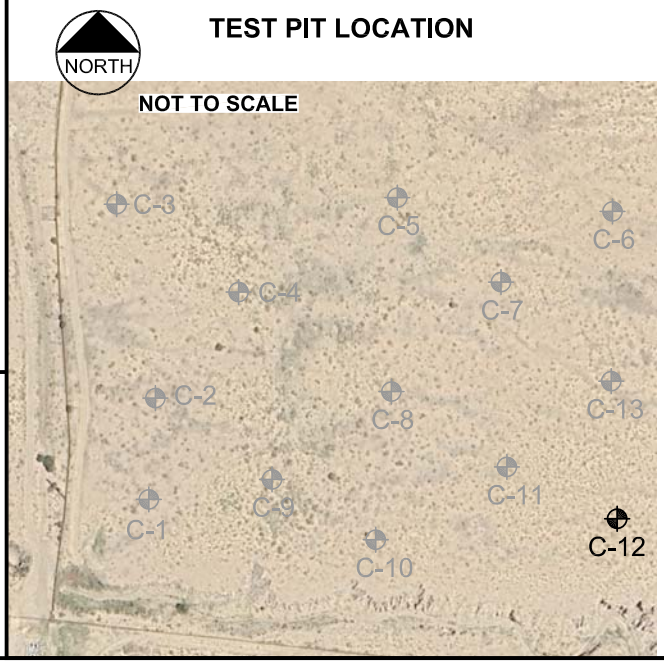
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

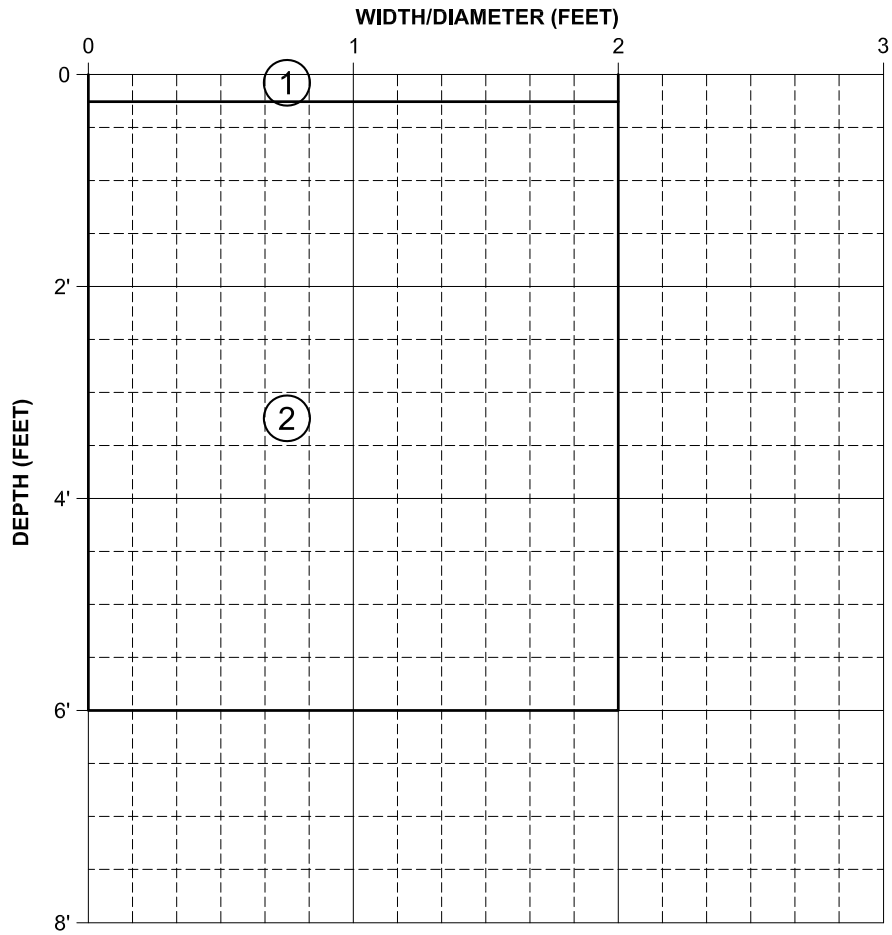
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-12




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| N/R | N/R | CA |
| 3' | C-12 | BKT |
| 6' | C-12 | BKT |
| | | |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, TAN (2.5Y, 5/3), NO PLASTICITY |
| 2 | 3" - E.O.B. | VERY LOOSE SAND, DRY, TAN (2.5Y, 5/3), NO PLASTICITY |
| | | E.O.T.P. = 6' |

**NOTES:** NO CLAY

Engineering Analytics, Inc.

# TEST PIT LOG

PAGE: 1 of 2

DATE:

TEST PIT NO.: C-13

## PROJECT INFORMATION

PROJECT: MT. TAYLOR

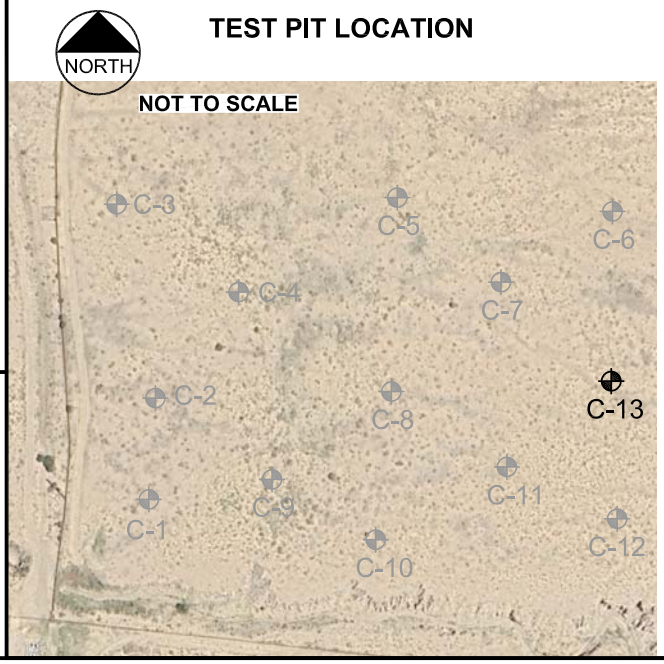
PROJECT NO.: 111360

CLIENT: MT. TAYLOR

OWNER:

LOCATION: GRANTS, NEW MEXICO

## TEST PIT LOCATION




## FIELD INFORMATION

DATE & TIME ARRIVED:

TEST PIT LOGGED BY: JBB

VISITORS:

WEATHER: VERY COLD

## EXCAVATION INFORMATION

EXCAVATION COMPANY: RGR

START TIME:

TEST PIT DEPTH: 6 FT TEST PIT DIA.: 2 FT

EXCAVATION METHOD:

SAMPLING METHOD:

TIME EXCAVATION COMPLETE:

## TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: COMPLETE TIME:

INSTRUMENTATION: BACKFILL:

## GROUNDWATER CONDITIONS

## FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: TIME LEFT SITE:

## NOTES:

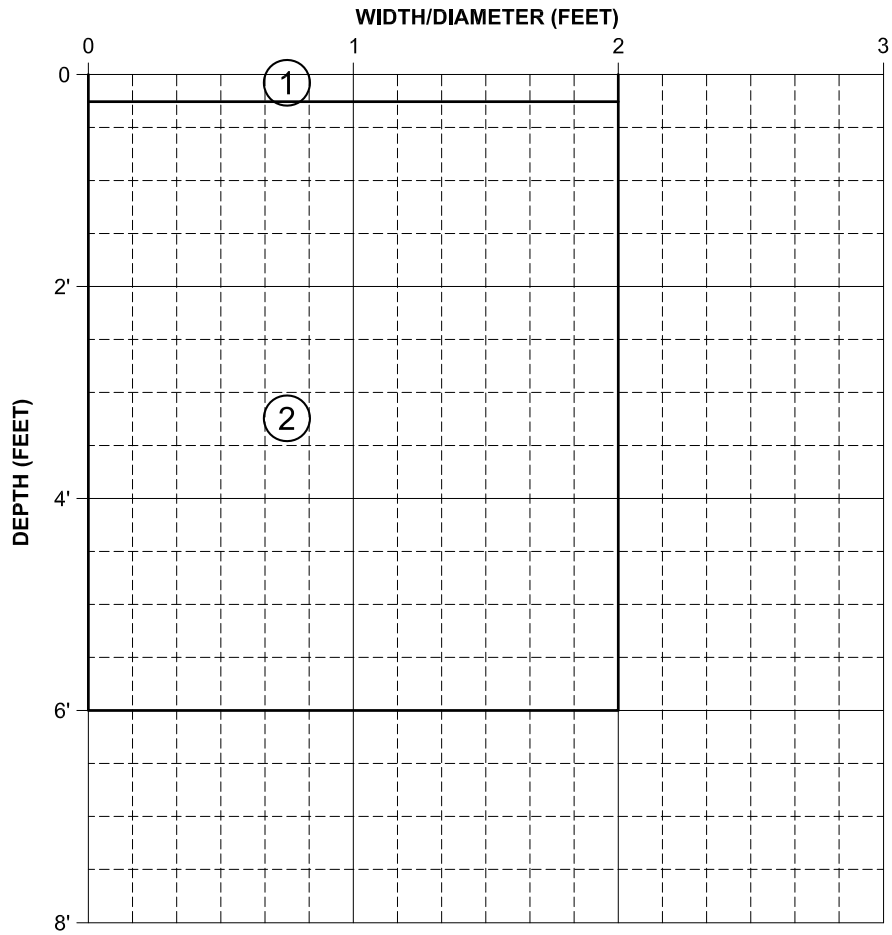
Engineering Analytics, Inc.

# TEST PIT LOG

**PROJECT:** MT. TAYLOR **PAGE:** 2 OF 2

**PROJECT NO.:** 111360 **DATE:**

**TEST PIT NO.:** C-13




| DEPTH | SAMPLE I.D. | SAMPLE TYPE |
|---|---|---|
| 3' | C-13C | CA |
| 3' | C-13 | BKT |
| 6' | C-13 | BKT |
| | | |
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| SOIL TYPE | SOIL DEPTH | SOIL DESCRIPTION AND EXCAVATION NOTES |
|---|---|---|
| 1 | 0 - 3" | VEGETATION, SAND, DRY, TAN (2.5Y, 5/3) |
| 2 | 3" - E.O.B. | VERY SANDY CLAY, DRY, MOTTLED BROWN (2.5Y, 3/1), BRITTLE, CHUNKY |
| | | CLAY AND SAND ALMOST 1/2 & 1/2 |
| | | E.O.T.P. = 6' |

**NOTES:**

# APPENDIX B
# Results of Geotechnical Laboratory Testing for Mt. Taylor Disposal Cell

# Geotechnical Laboratory Test Report
# Mt. Taylor Mine

*Prepared for:*

Rio Grand Resources

750 W Pender Street, Suite 250,
Vancouver, BC, V6C 2T7,
Canada

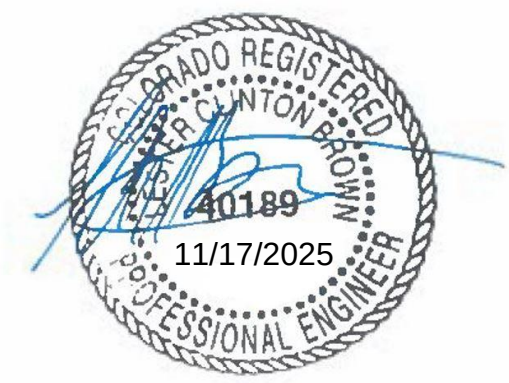
*Prepared by:*

Engineering Analytics, Inc.

1600 Specht Point Road, Suite 209
Fort Collins, Colorado 80525
(970) 488-3111
Fax (970) 488-3112

Project No. 111360

November 2025



# Table of Contents

1.0 Summary

2.0 Summary of Test Results

3.0 Moisture Content

4.0 Percent Passing No. 200

5.0 Atterberg Limits

6.0 Flexible Wall Permeability

7.0 Soil Water Characteristic Curve

8.0 Standard Proctor Compaction

9.0 Consolidated Undrained Triaxial Shear

# 1.0 Summary

This report presents the results of laboratory testing conducted on soil samples provided by Engineering Analytics of Fort Collins, Colorado. The sample selection and testing parameters were designated by personnel from Engineering Analytics. All laboratory analyses were performed by Engineering Analytics under the direct supervision of a Professional Engineer licensed in the State of Colorado.

The testing procedures adhered to the standards outlined by the American Society of Testing and Materials (ASTM). Where ASTM standards were not applicable, established industry standards were employed. Any deviations from standard procedures are explicitly noted within this report the table below lists ASTM procedures used in this investigation. The results of the laboratory tests, including relevant graphical representations, are presented in the following sections.

| Test Performed | ASTM Test Method | No. of Tests Performed |
|---|---|---|
| Moisture Determination | D2216 | 48 |
| Percent Passing No. 200 | D1140 | 48 |
| Atterberg Limits | D4318 | 48 |
| Flexible Wall Permeability | D5084 | 2 |
| Soil Water Characteristic Curve | D6836 | 7 |
| Standard Proctor Compaction | D698 | 8 |
| Consolidated Undrained Triaxial Shear | D4767 | 1 |

## 2.0 Summary of Test Results

Engineering Analytics, Inc.

| | | | | | **Project Name:** Mt. Taylor Mine | | **Project No.** 111360 | | **Date:** 02/21/2025 | | **Date:** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hole ID** | **Sample ID** | **Sampling Depth (ft)** | | **Sample Type** | **Moisture Content (%)** | **Percent Passing #200 (ASTM D1140)** | **Atterberg Limits (ASTM D4318) (LL / PL / PI)** | **Flexible Wall Permeability (ASTM D5084)** | **Soil Water Characteristic Curve (SWCC)** | **Standard Proctor Compaction (ASTM D698)** | Triaxial (CUPP), 3-stage (ASTM D4767) |
| | | **From** | **To** | | | | | | | | |
| **TOTAL NUMBER OF COMPLETED TESTS** | | | | | **48** | **48** | **48** | **2** | **7** | **8** | **1** |
| **EA-BSA01** | EA-BSA01 A | 2.0 | 3.0 | BKT | 9.7% | 76.4% | 40 / 20 / 20 | | | | |
| | EA-BSA01 B | 5.0 | 6.0 | BKT | 12.4% | 78.8% | 38 / 19 / 19 | | | | |
| **EA-BSA02** | EA-BSA02 A | 2.0 | 3.0 | BKT | 9.5% | 66.5% | 26 / 20 / 6 | | | | |
| | EA-BSA02 B | 5.0 | 6.0 | BKT | 8.9% | 65.1% | 25 / 20 / 5 | | | | |
| **EA-BSA03** | EA-BSA03 A | 2.0 | 3.0 | BKT | 7.0% | 46.1% | NV / NP / NP | | | | |
| | EA-BSA03 B | 5.0 | 6.0 | BKT | 6.8% | 40.8% | NV / NP / NP | | | | |
| **EA-BSA04** | EA-BSA04 A | 2.0 | 3.0 | BKT | 13.2% | 56.5% | 28 / 18 / 10 | | | | |
| | EA-BSA04 B | 5.0 | 6.0 | BKT | 6.9% | 51.2% | 25 / 18 / 7 | | | | |
| **EA-BSA05** | EA-BSA05 A | 2.0 | 3.0 | BKT | 6.2% | 41.8% | 25 / 20 / 5 | | (1) | 111.1 @ 13.9% | |
| | EA-BSA05 B | 5.0 | 6.0 | BKT | 6.5% | 43.0% | 25 / 20 / 5 | | | | |
| **EA-BSA06** | EA-BSA06 A | 2.0 | 3.0 | BKT | 12.8% | 51.9% | 23 / 20 / 3 | | | | |
| | EA-BSA06 B | 5.0 | 6.0 | BKT | 8.6% | 28.9% | NV / NP / NP | | (1) | 117.6 @ 12.2% | |
| **EA-BSB01** | EA-BSB01 A | 2.0 | 3.0 | BKT | 18.9% | 81.1% | 39 / 16 / 23 | | | | |
| | EA-BSB01 B | 5.0 | 6.0 | BKT | 8.1% | 39.0% | NV / NP / NP | | | | |
| **EA-BSB02** | EA-BSB02 A | 2.0 | 3.0 | BKT | 16.8% | 68.0% | 35 / 16 / 19 | | | | |
| | EA-BSB02 B | 5.0 | 6.0 | BKT | 7.9% | 55.0% | 22 / 20 / 2 | | (1) | 110.3 @ 16.2% | |
| **EA-BSB03** | EA-BSB03 A | 2.0 | 3.0 | BKT | 14.6% | 71.1% | 26 / 19 / 7 | | | | |
| | EA-BSB03 B | 5.0 | 6.0 | BKT | 11.6% | 45.6% | NV / NP / NP | | | | |
| **EA-BSB04** | EA-BSB04 A | 2.0 | 3.0 | BKT | 6.1% | 30.0% | NV / NP / NP | | (1) | 112.5 @ 15.0% | |
| | EA-BSB04 B | 5.0 | 6.0 | BKT | 24.1% | 90.1% | 51 / 17 / 34 | | | | |
| **EA-BSB05** | EA-BSB05 A | 2.0 | 3.0 | BKT | 10.4% | 65.1% | 31 / 19 / 12 | | | | |
| | EA-BSB05 B | 5.0 | 6.0 | BKT | 4.6% | 30.9% | NV / NP / NP | | | | |
| **EA-BSC01** | EA-BSC01 A | 2.0 | 3.0 | BKT | 9.7% | 60.6% | 31 / 16 / 15 | | | | |
| | EA-BSC01 B | 5.0 | 6.0 | BKT | 11.9% | 78.8% | 42 / 17 / 25 | | | | |
| **EA-BSC02** | EA-BSC02 A | 2.0 | 3.0 | BKT | 12.7% | 87.6% | 50 / 17 / 33 | | | | |
| | EA-BSC02 B | 5.0 | 6.0 | BKT | 12.6% | 80.7% | 38 / 18 / 20 | | | | |
| **EA-BSC03** | EA-BSC03 A | 2.0 | 3.0 | BKT | 9.6% | 61.2% | 29 / 15 / 14 | | (1) | 108.2 @ 16.8% | |
| | EA-BSC03 B | 5.0 | 6.0 | BKT | 11.7% | 79.1% | 39 / 18 / 21 | | | | |
| **EA-BSC04** | EA-BSC04 A | 2.0 | 3.0 | BKT | 12.1% | 80.0% | 39 / 16 / 13 | | | | |
| | EA-BSC04 B | 5.0 | 6.0 | BKT | 10.7% | 68.9% | 34 / 16 / 8 | | | | |
| **EA-BSC05** | EA-BSC05 A | 2.0 | 3.0 | BKT | 8.6% | 57.0% | 23 / 18 / 5 | | | | |
| | EA-BSC05 B | 5.0 | 6.0 | BKT | 13.8% | 90.2% | 56 / 16 / 40 | | | | |
| **EA-BSC06** | EA-BSC06 A | 2.0 | 3.0 | BKT | 7.9% | 58.5% | 30 / 17 / 13 | | | | |
| | EA-BSC06 B | 5.0 | 6.0 | BKT | 17.2% | 95.3% | 65 / 23 / 42 | | | 89.8 @ 26.6% | (1) |
| **EA-BSC07** | EA-BSC07 A | 2.0 | 3.0 | BKT | 10.1% | 77.7% | 35 / 19 / 16 | | | | |
| | EA-BSC07 B | 5.0 | 6.0 | BKT | 10.4% | 71.9% | 35 / 17 / 18 | | | | |
| **EA-BSC08** | EA-BSC08 A | 2.0 | 3.0 | BKT | 11.2% | 77.2% | 44 / 17 / 27 | | | | |
| | EA-BSC08 B | 5.0 | 6.0 | BKT | 11.7% | 86.5% | 49 / 24 / 25 | | | | |
| **EA-BSC09** | EA-BSC09 A | 2.0 | 3.0 | BKT | 6.8% | 50.0% | 26 / 18 / 8 | 7.9E-06 | (1) | 110.4 @ 16.1% | |
| | EA-BSC09 B | 5.0 | 6.0 | BKT | 14.7% | 96.9% | 60 / 27 / 33 | | | | |
| **EA-BSC10** | EA-BSC10 A | 2.0 | 3.0 | BKT | 9.0% | 69.4% | 39 / 16 / 23 | | | | |
| | EA-BSC10 B | 5.0 | 6.0 | BKT | 12.0% | 69.6% | 33 / 18 / 15 | | | | |
| **EA-BSC11** | EA-BSC11 A | 2.0 | 3.0 | BKT | 10.0% | 63.5% | 30 / 19 / 11 | | | | |
| | EA-BSC11 B | 5.0 | 6.0 | BKT | 12.7% | 69.1% | 42 / 18 / 24 | | | | |
| **EA-BSC12** | EA-BSC12 A | 2.0 | 3.0 | BKT | 7.3% | 52.7% | NV / NP / NP | 1.2E-04 | (1) | 109.3 @ 16.4% | |
| | EA-BSC12 B | 5.0 | 6.0 | BKT | 8.2% | 49.0% | 23 / 20 / 3 | | | | |
| **EA-BSC13** | EA-BSC13 A | 2.0 | 3.0 | BKT | 9.5% | 75.8% | 38 / 17 / 21 | | | | |
| | EA-BSC13 B | 5.0 | 6.0 | BKT | 13.3% | 81.4% | 45 / 23 / 22 | | | | |

MCS = Modified California Sample, BKT = Bucket

## 3.0 Moisture Content

The natural moisture content of 48 soil samples was determined in accordance with ASTM D2216, "Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass."

This test yields the gravimetric moisture content, expressed as a percentage, which represents the ratio of the mass of water to the mass of dry soil within the sample.

A summary of the natural moisture content results are presented in Section 2.0 of this report.

# 4.0 Percent Passing No. 200

A selection of 48 soil samples was tested in general accordance with ASTM D1140, "Standard Test Methods for Determining the Amount of Material Finer than 75-µm (No. 200) Sieve in Soils by Washing."

- A selection of soil samples was tested in general accordance with ASTM D1140, "Standard Test Methods for Determining the Amount of Material Finer than 75-µm (No. 200) Sieve in Soils by Washing."
- The testing procedure involved oven-drying the samples, recording their initial dry weight, and then washing them through a 75-µm (No. 200) sieve.
- The material retained on the sieve was recovered, oven-dried, and weighed.
- The percentage of material passing the No. 200 sieve was calculated using the initial total dry weight of the sample and the dry weight of the material retained on the sieve.

A summary of the percent finer than No. 200 sieve results is presented in Section 2.0 of this report.

# 5.0 Atterberg Limits

The Atterberg Limits, specifically the liquid limit (LL) and plastic limit (PL), were determined on 48 soil samples in accordance with ASTM D4318, "Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils."

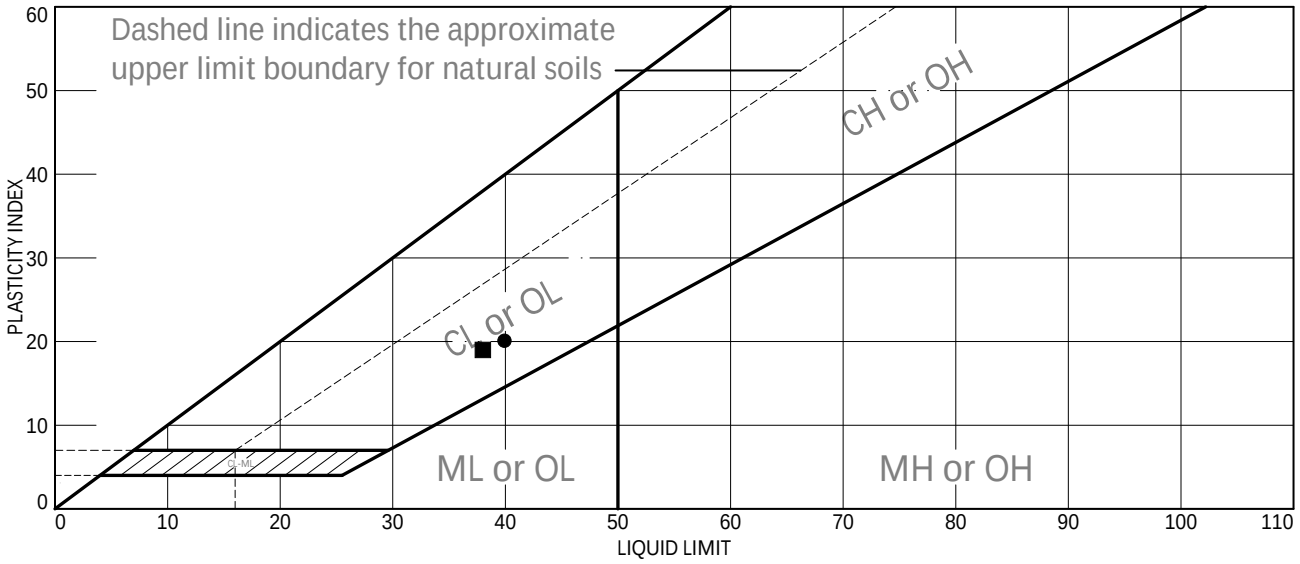
- Sample Preparation:
    - The soil sample is processed to pass the 0.425 mm (No. 40) sieve.
    - A representative portion of this fine-grained material is used for the tests.
- Liquid Limit (LL):
    - A soil paste is prepared with distilled water.
    - The paste is placed in a Casagrande cup, and a groove is made in the soil.
    - The cup is repeatedly dropped from a specified height.
    - The liquid limit is determined as the moisture content at which the groove closes over a distance of 12.7 mm (0.5 inches) after 25 blows.
- Plastic Limit (PL):
    - A soil thread is rolled out on a flat surface.
    - The plastic limit is determined as the moisture content at which the soil thread crumbles when rolled to a diameter of 3.2 mm (1/8 inch).
- Plasticity Index (PI):
    - The plasticity index is calculated by subtracting the plastic limit from the liquid limit (PI = LL - PL).

A summary of the Atterberg Limits test results is presented in Section 2.0 of this report.

A graph depicting the Plasticity Index versus the Liquid Limit is included on the following pages.

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA01 Depth: 2' - 3'<br>Sample Number: A | | | 02/21/2025 | CF |
| ■ | Source of Sample: EA-BSA01 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 40 | 20 | 20 | | |
| ■ | Clay | | 38 | 19 | 19 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

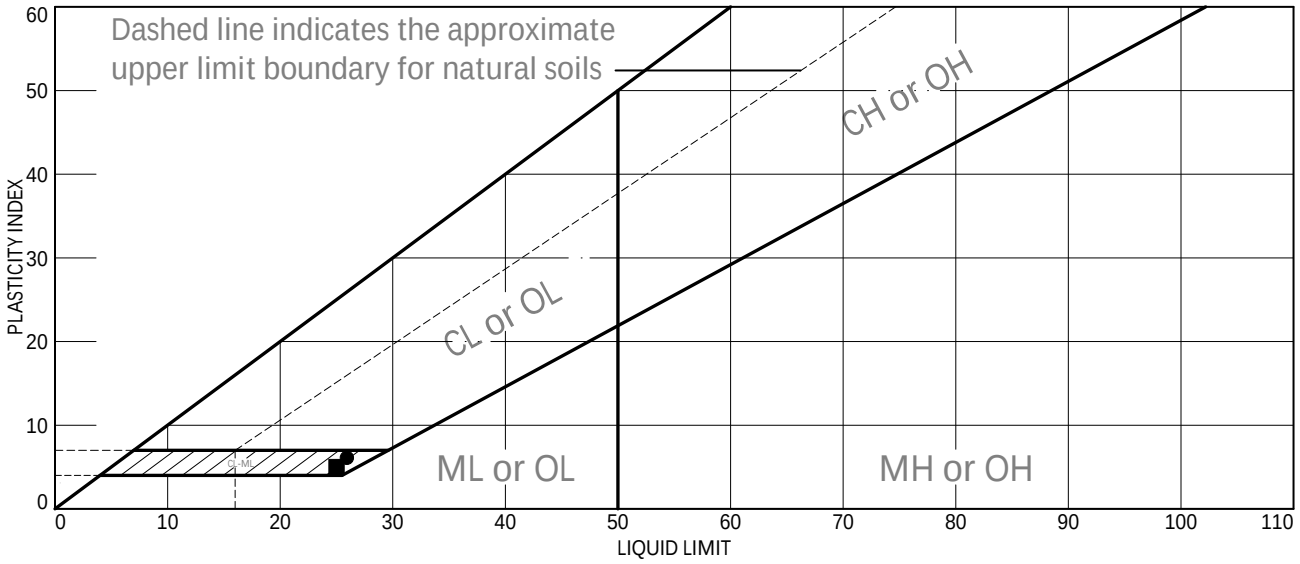
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA02 Depth: 2' - 3'<br>Sample Number: A | | | 02/18/2025 | CF |
| ■ | Source of Sample: EA-BSA02 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 26 | 20 | 6 | | |
| ■ | Sandy Clay | | 25 | 20 | 5 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

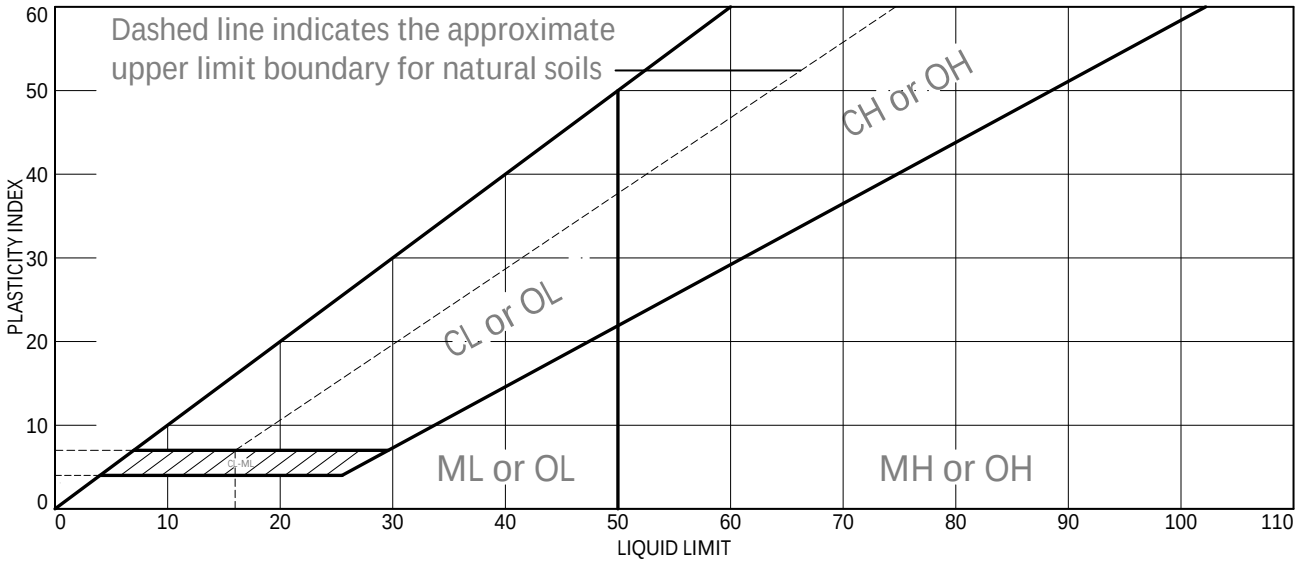
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA03 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | SY |
| ■ | Source of Sample: EA-BSA03 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Sand | | NV | NP | NP | | |
| ■ | Sandy Clay | | NV | NP | NP | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

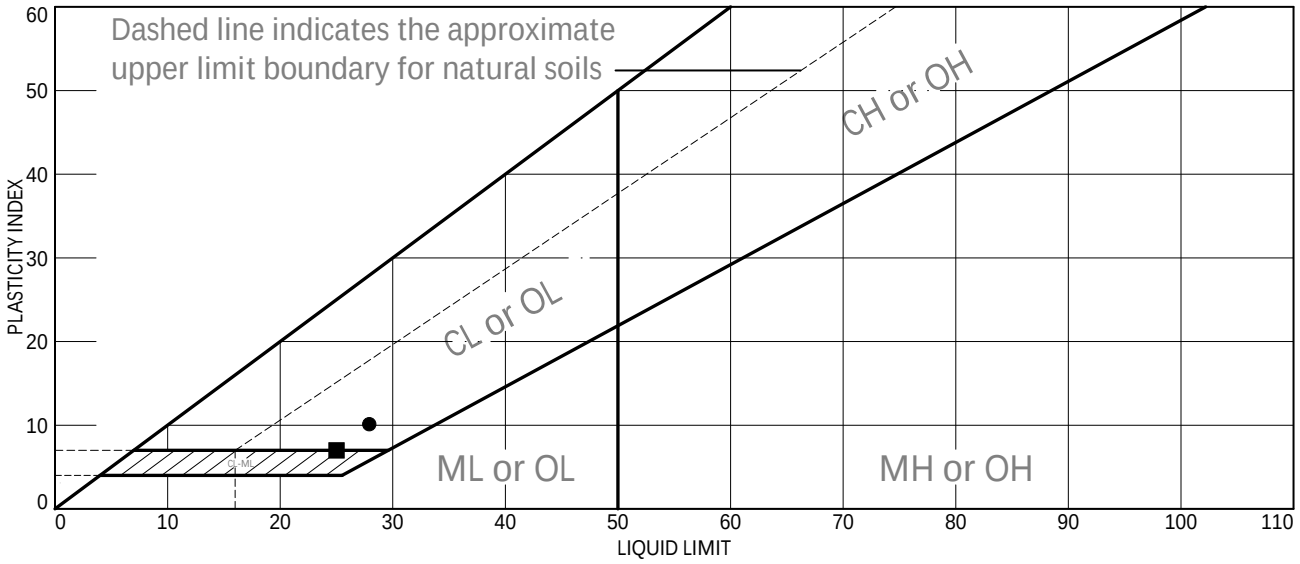
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA04 Depth: 2' - 3'<br>Sample Number: A | | | 02/21/2025 | CF |
| ■ | Source of Sample: EA-BSA04 Depth: 5' - 6'<br>Sample Number: B | | | 02/19/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 28 | 18 | 10 | | |
| ■ | Silty Clay | | 25 | 18 | 7 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

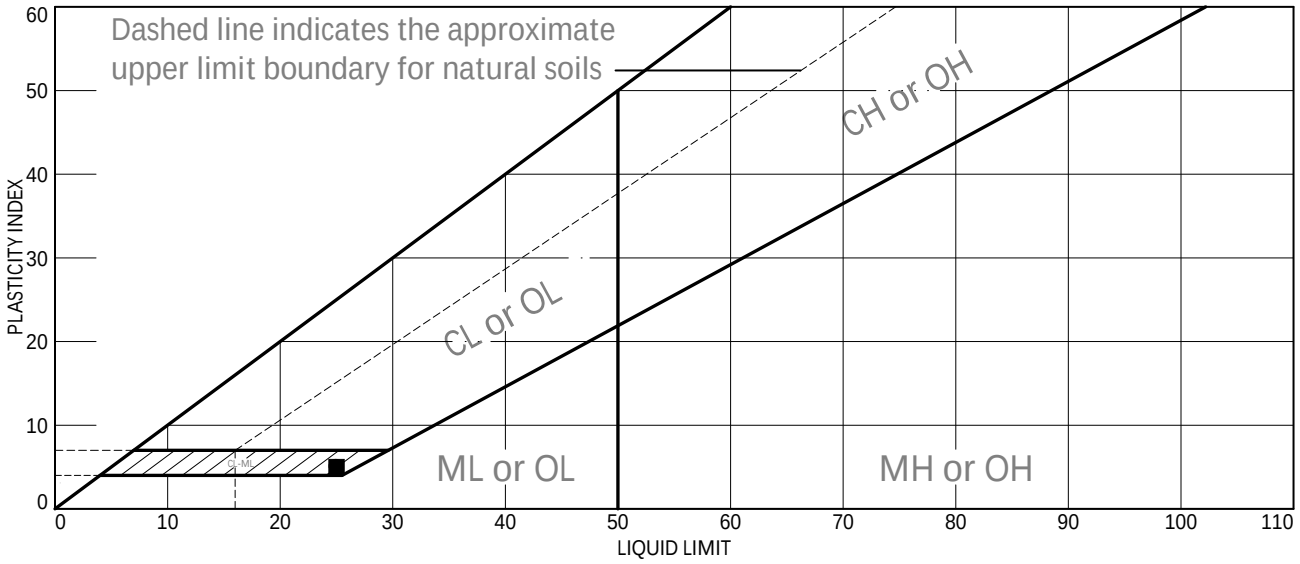
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA05 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | SY |
| ■ | Source of Sample: EA-BSA05 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Sand | | 25 | 20 | 5 | | |
| ■ | Clayey Sand | | 25 | 20 | 5 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

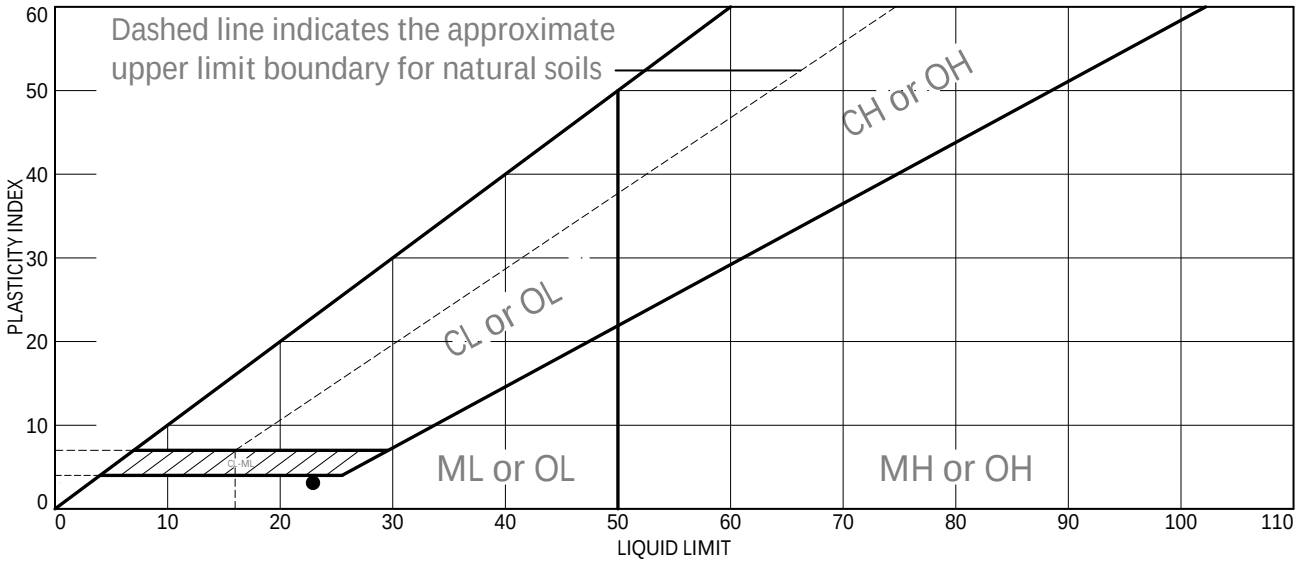
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSA06 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | CF |
| ■ | Source of Sample: EA-BSA06 Depth: 5' - 6'<br>Sample Number: B | | | 2/21/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 23 | 20 | 3 | | |
| ■ | Sand | | NV | NP | NP | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

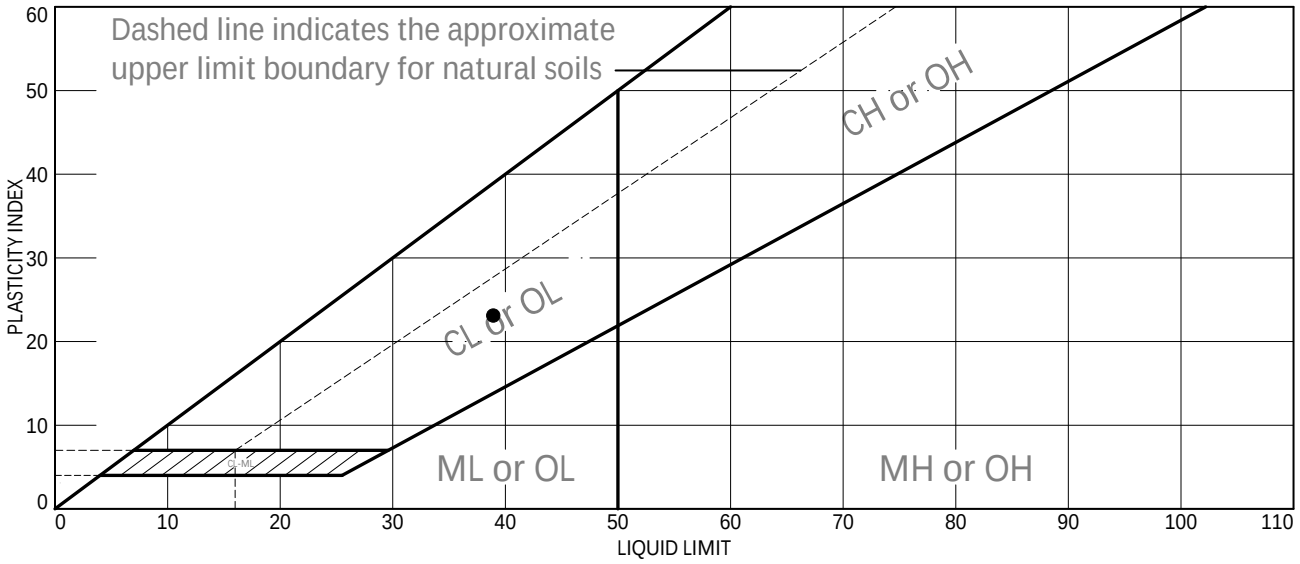
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSB01 Depth: 2' - 3'<br>Sample Number: A | | | 02/21/2025 | CF |
| ■ | Source of Sample: EA-BSB01 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 39 | 16 | 23 | | |
| ■ | Sand | | NV | NP | NP | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

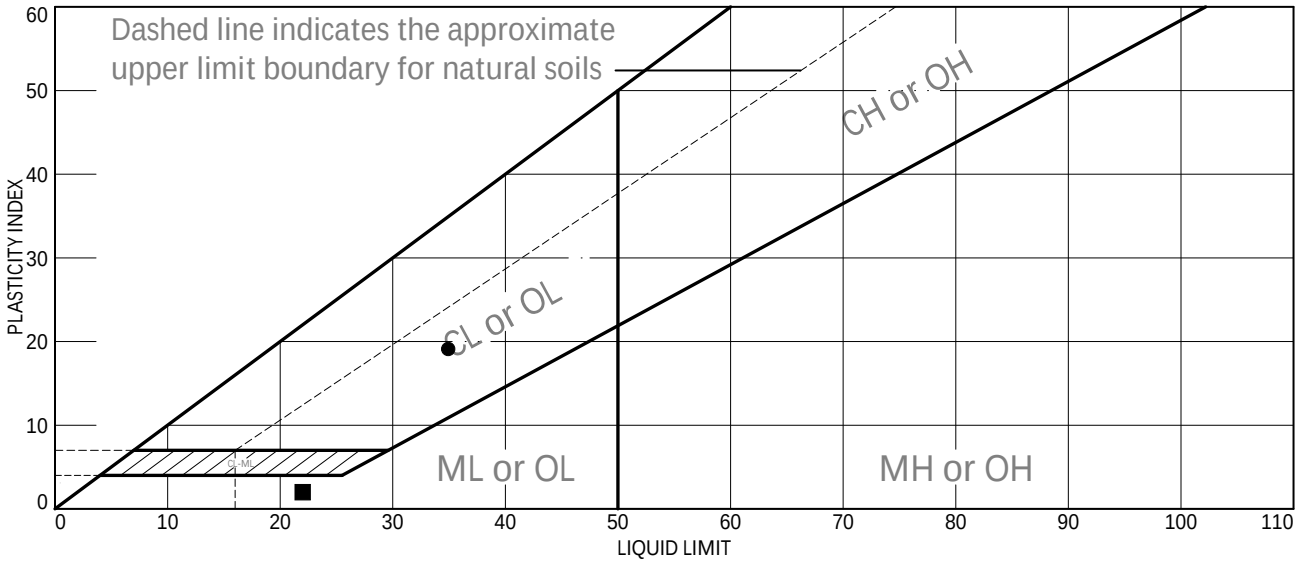
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSB02 Depth: 2' - 3'<br>Sample Number: A | | | 02/24/2025 | CF |
| ■ | Source of Sample: EA-BSB02 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 35 | 16 | 19 | | |
| ■ | Silty Clay | | 22 | 20 | 2 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

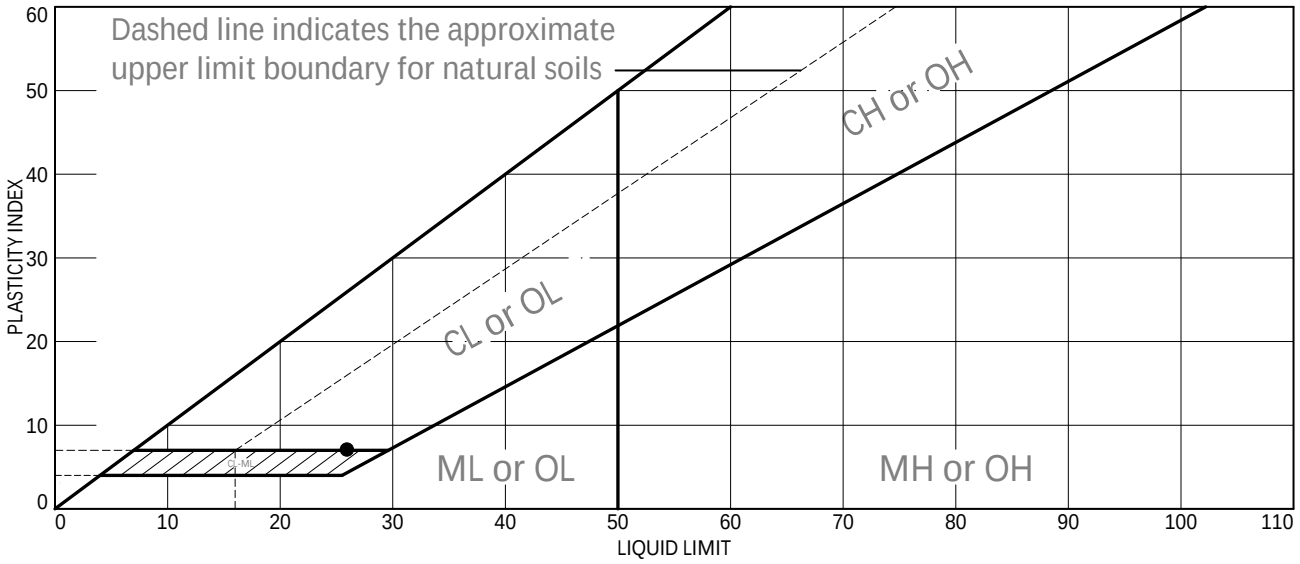
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSB03 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | CF |
| ■ | Source of Sample: EA-BSB03 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 26 | 19 | 7 | | |
| ■ | Sand | | NV | NP | NP | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

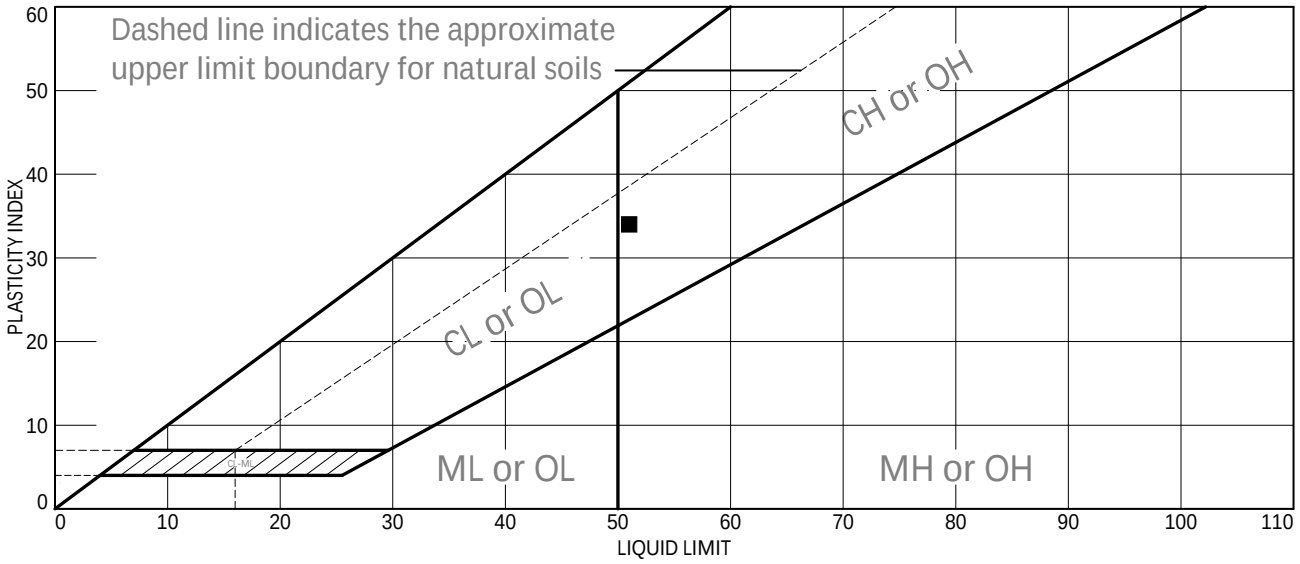
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSB04 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | SY |
| ■ | Source of Sample: EA-BSB04 Depth: 5' - 6'<br>Sample Number: B | | | 02/21/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Sand | | NV | NP | NP | | |
| ■ | Silty Clay | | 51 | 17 | 34 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

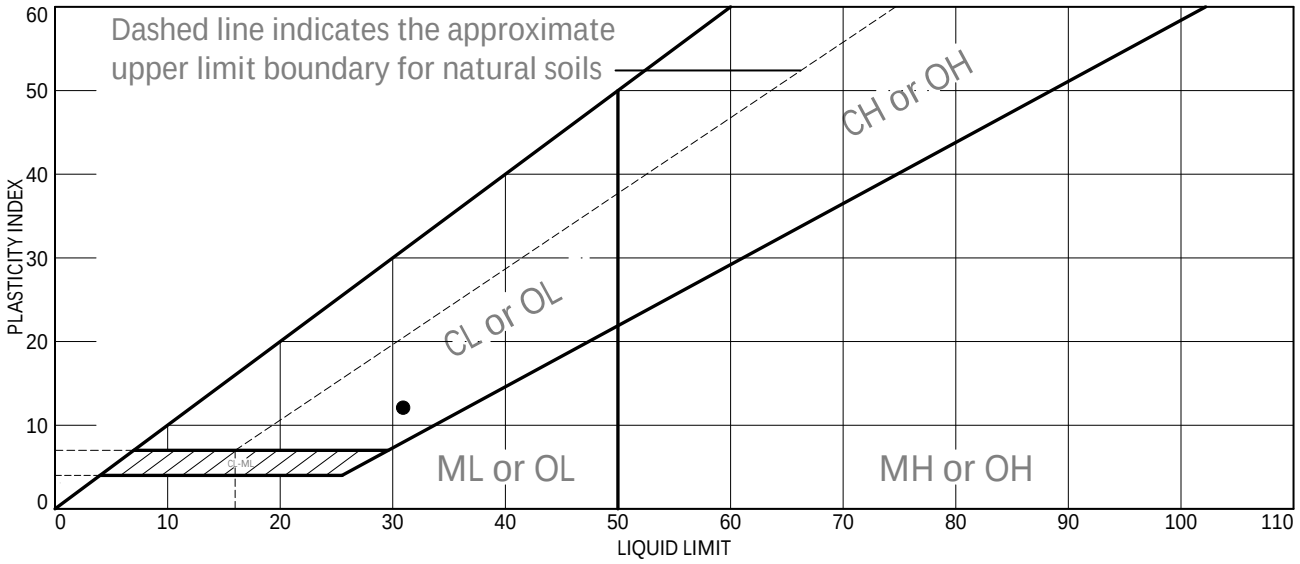
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSB05 Depth: 2' - 3'<br>Sample Number: A | | | 02/19/2025 | CF |
| ■ | Source of Sample: EA-BSB05 Depth: 5' - 6'<br>Sample Number: B | | | 02/20/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 31 | 19 | 12 | | |
| ■ | Sand | | NV | NP | NP | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

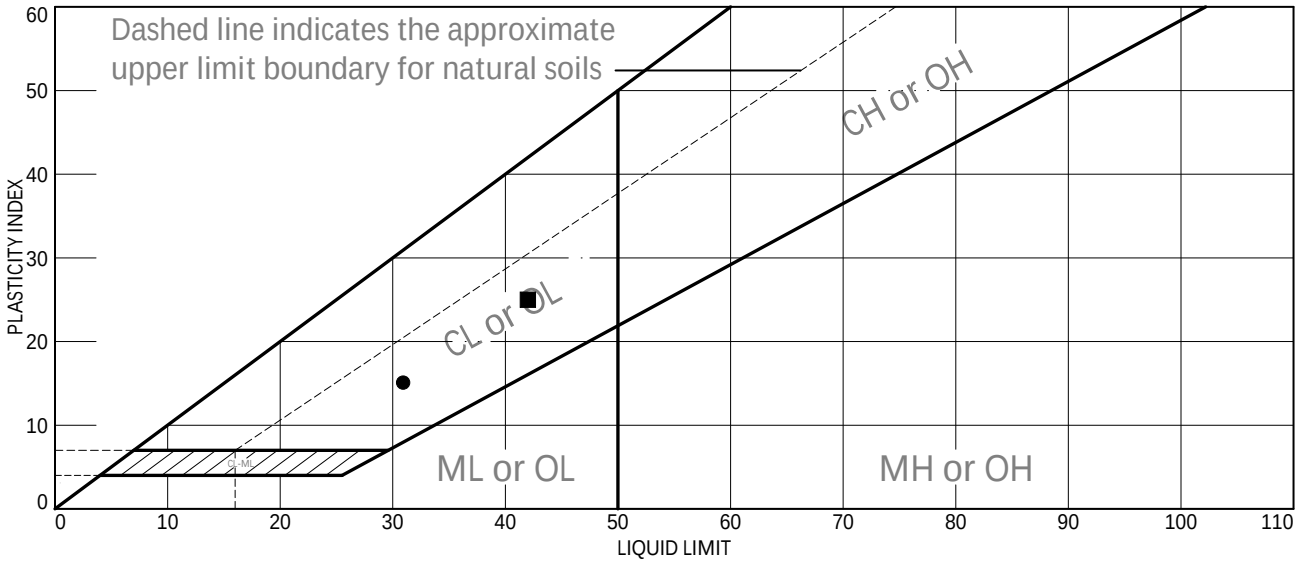
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC01 Depth: 2' - 3' Sample Number: A | | | 02/06/2025 | CF |
| ■ | Source of Sample: EA-BSC01 Depth: 5' - 6' Sample Number: B | | | 02/06/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 31 | 16 | 15 | | |
| ■ | Silty Clay | | 42 | 17 | 25 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

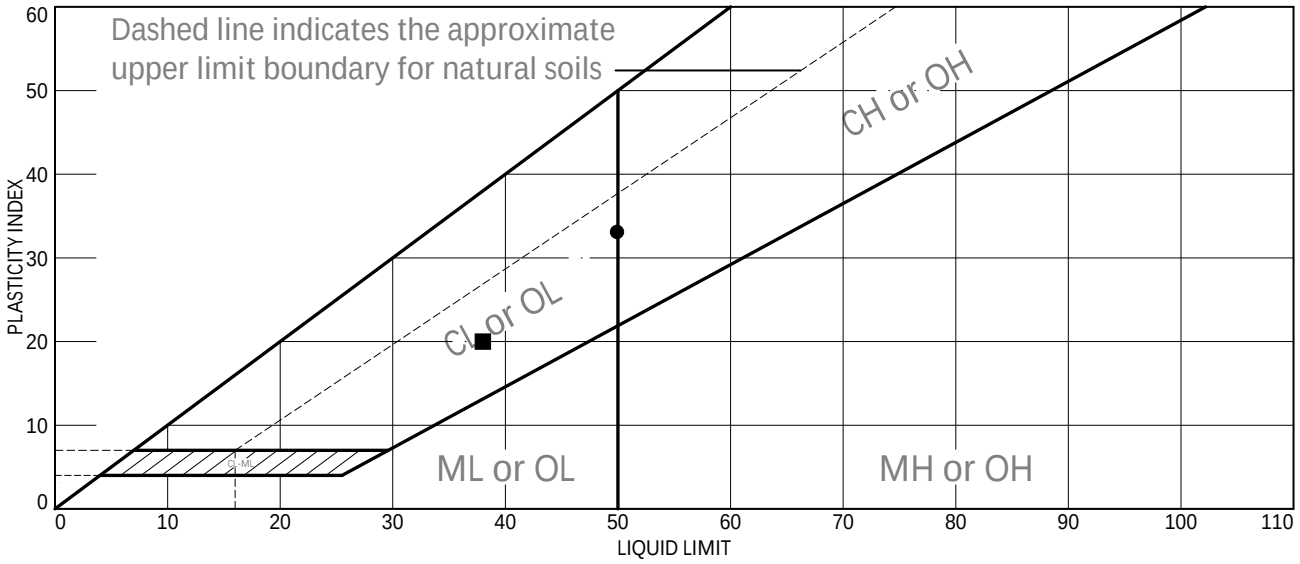
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC02 Depth: 2' - 3'<br>Sample Number: A | | | 02/07/2025 | EH |
| ■ | Source of Sample: EA-BSC02 Depth: 5' - 6'<br>Sample Number: B | | | | 02/06/2025 |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Clay | | 50 | 17 | 33 | | |
| ■ | Silty Clay | | 38 | 18 | 20 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

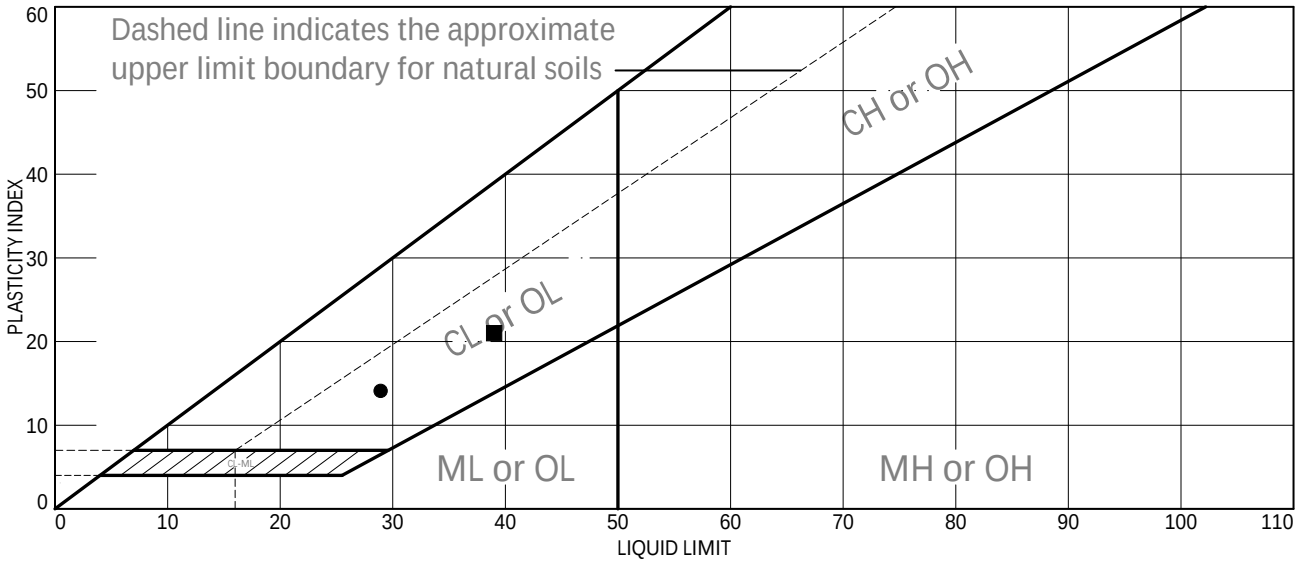
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC03 Depth: 2' - 3' Sample Number: A | | | 02/06/2025 | CF |
| ■ | Source of Sample: EA-BSC03 Depth: 5' - 6' Sample Number: B | | | 02/05/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 29 | 15 | 14 | | |
| ■ | Silty Clay | | 39 | 18 | 21 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

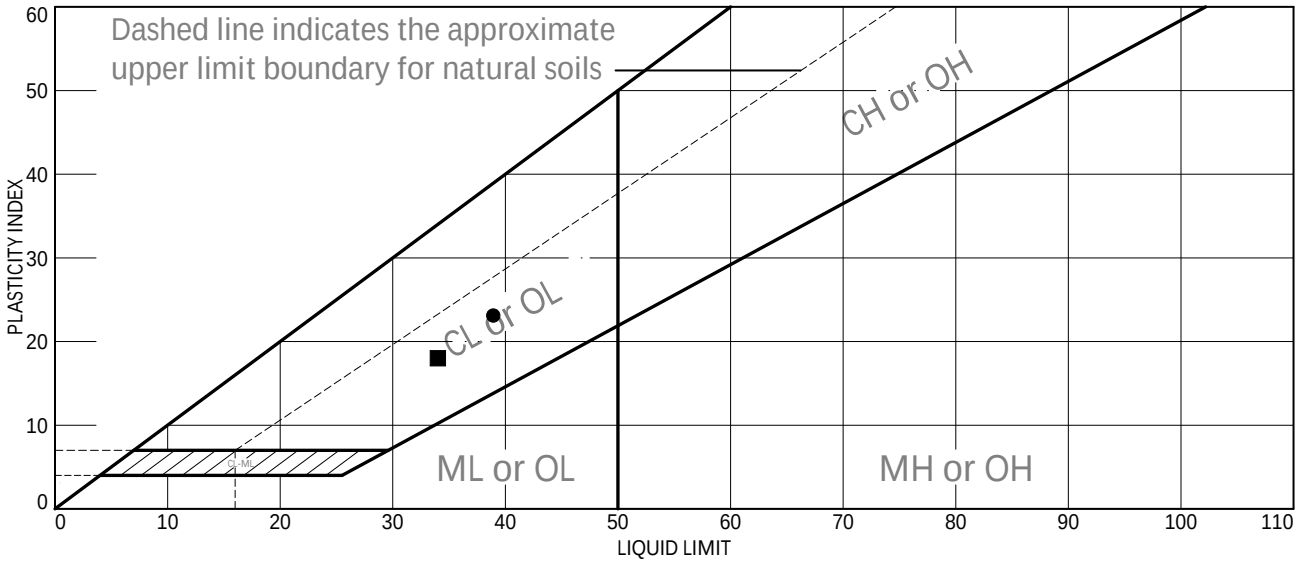
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC04 Depth: 2' - 3' Sample Number: A | | | 02/19/2025 | CF |
| ■ | Source of Sample: EA-BSC04 Depth: 5' - 6' Sample Number: B | | | 02/13/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Clay | | 39 | 16 | 23 | | |
| ■ | Silty Clay | | 34 | 16 | 18 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

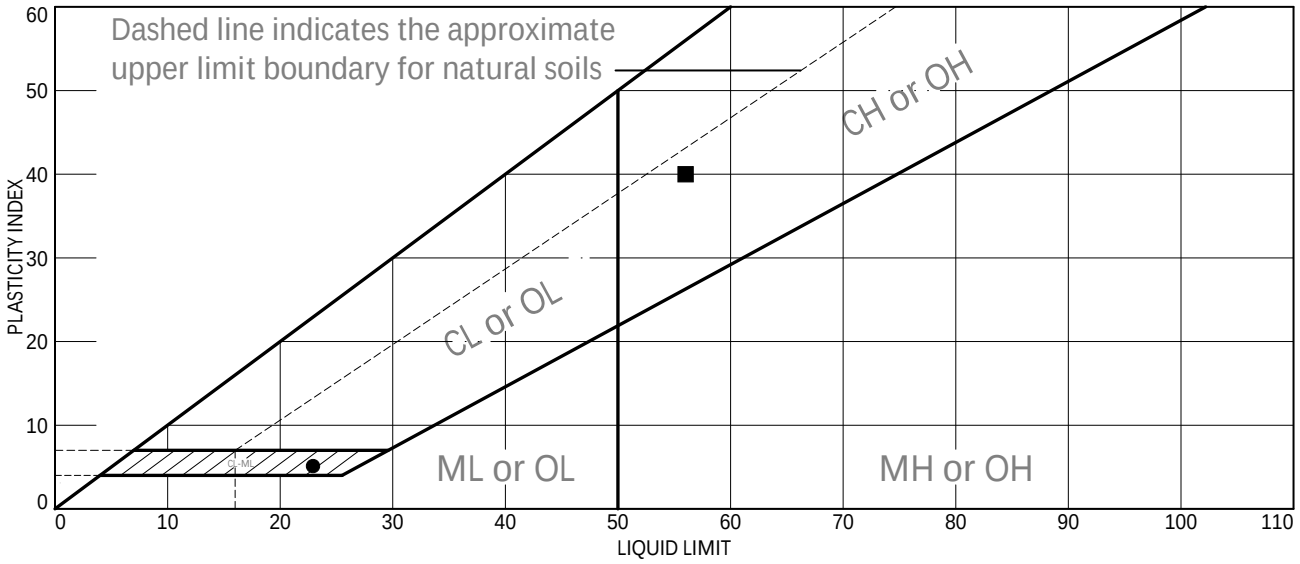
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC05 Depth: 2' - 3' Sample Number: A | | | 02/11/2025 | CF |
| ■ | Source of Sample: EA-BSC05 Depth: 5' - 6' Sample Number: B | | | 2/07/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Sandy Clay | | 23 | 18 | 5 | | |
| ■ | Silty Clay | | 56 | 16 | 40 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

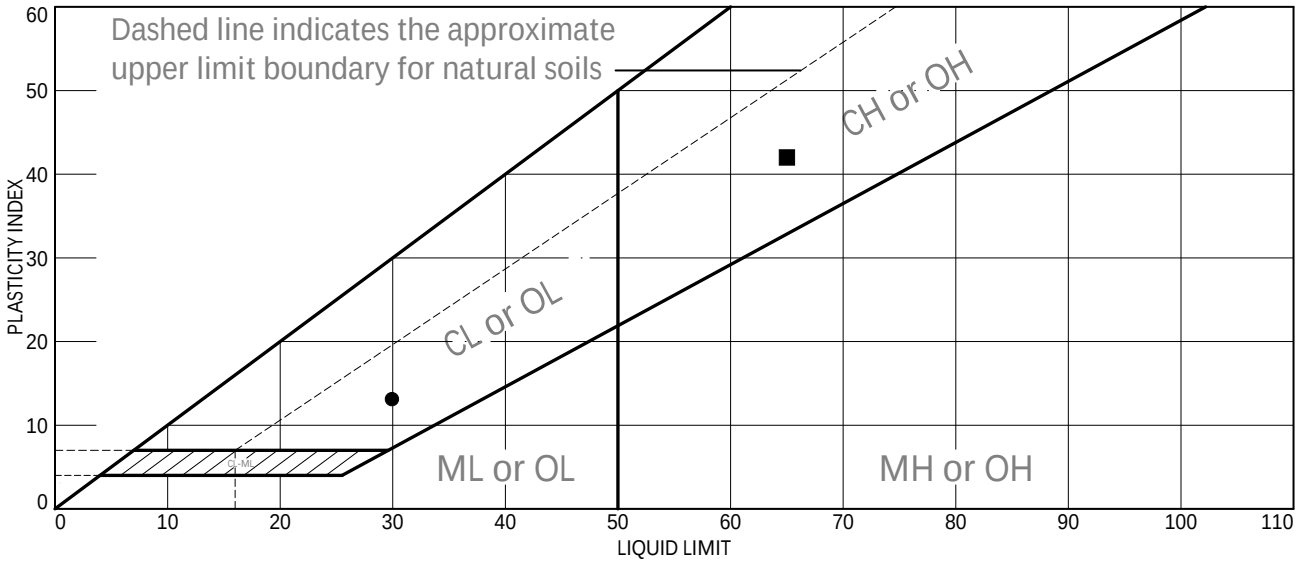
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC06 Depth: 2' - 3'<br>Sample Number: A | | | 02/20/2025 | CF |
| ■ | Source of Sample: EA-BSC06 Depth: 5' - 6'<br>Sample Number: B | | | 02/15/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 30 | 17 | 13 | | |
| ■ | Clay | | 65 | 23 | 42 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

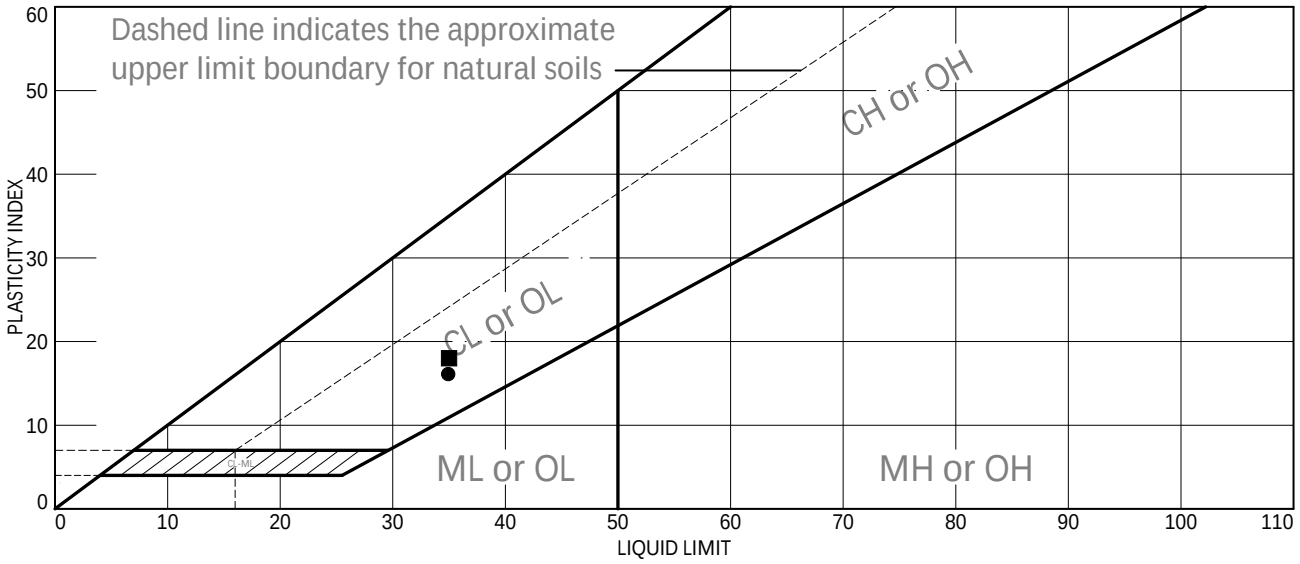
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC07 Depth: 2' - 3' Sample Number: A | | | 02/11/2025 | SY |
| ■ | Source of Sample: EA-BSC07 Depth: 5' - 6' Sample Number: B | | | 02/12/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | SAndy Clay | | 35 | 19 | 16 | | |
| ■ | Silty Clay | | 35 | 17 | 18 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

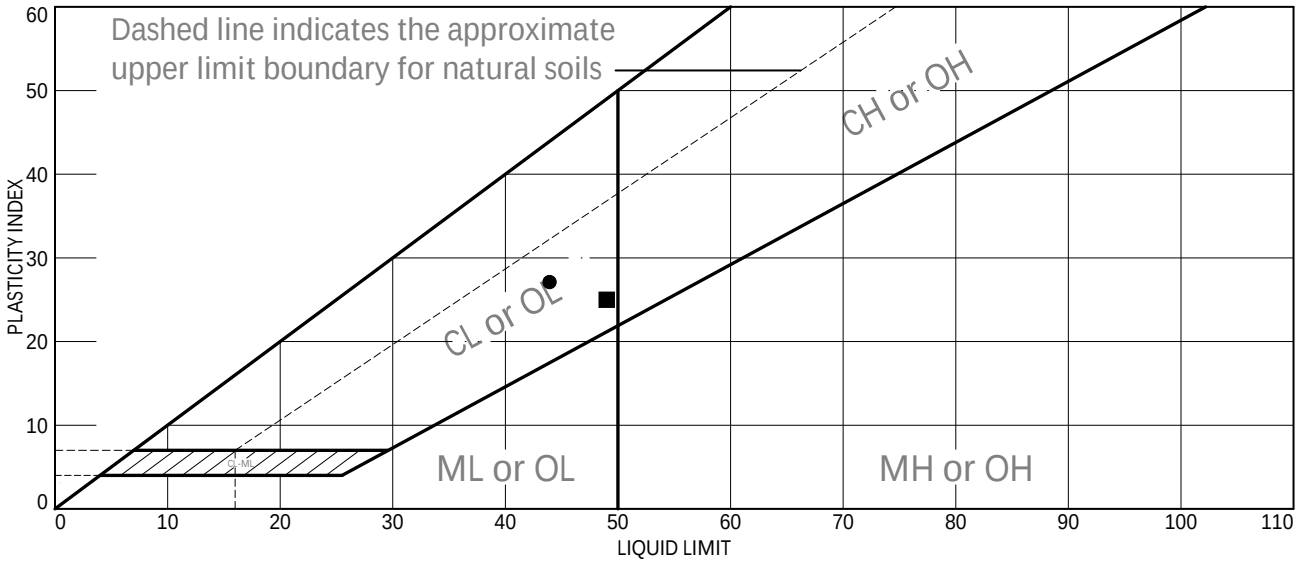
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC08 Depth: 2' - 3' Sample Number: A | | | 2/13/2025 | CF |
| ■ | Source of Sample: EA-BSC08 Depth: 5' - 6' Sample Number: B | | | 02/18/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 44 | 17 | 27 | | |
| ■ | Sandy Clay | | 49 | 24 | 25 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

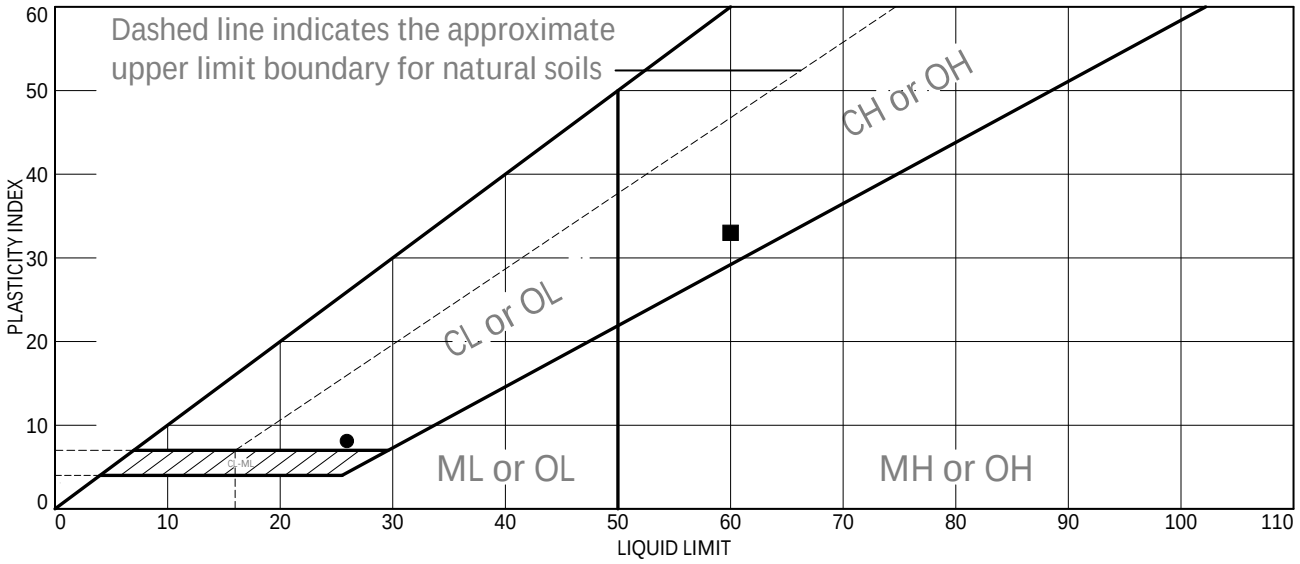
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC09 Depth: 2' - 3'<br>Sample Number: A | | | 02/18/2025 | CF |
| ■ | Source of Sample: EA-BSC09 Depth: 5' - 6'<br>Sample Number: B | | | 02/19/2025 | AW |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 26 | 18 | 8 | | |
| ■ | Clay | | 60 | 27 | 33 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

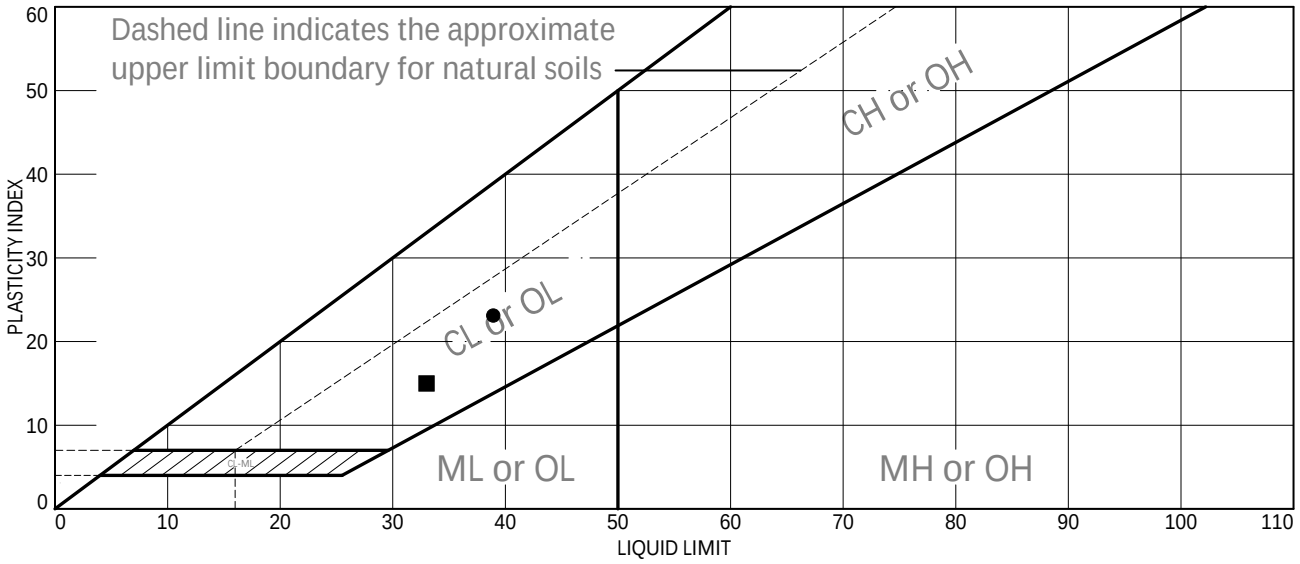
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC10 Depth: 2' - 3' Sample Number: A | | | 02/10/2025 | CF |
| ■ | Source of Sample: EA-BSC10 Depth: 5' - 6' Sample Number: B | | | 02/18/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 39 | 16 | 23 | | |
| ■ | Sandy Clay | | 33 | 18 | 15 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

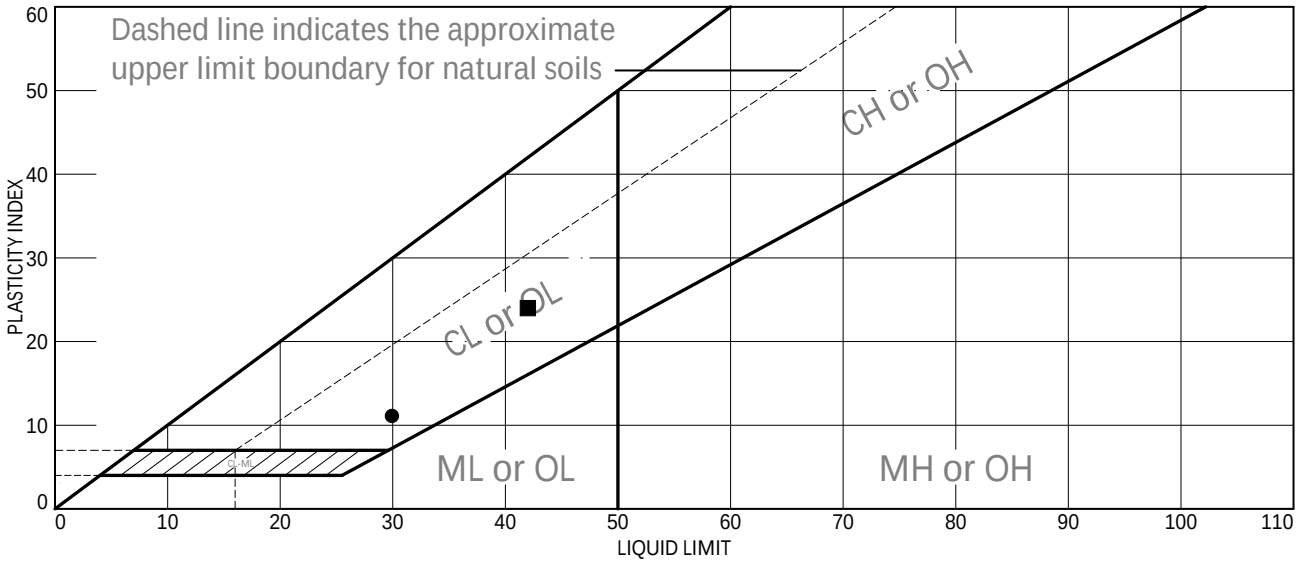
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC11 Depth: 2' - 3'<br>Sample Number: A | | | 02/10/2025 | CF |
| ■ | Source of Sample: EA-BSC11 Depth: 5' - 6'<br>Sample Number: B | | | 02/12/2025 | CF |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 30 | 19 | 11 | | |
| ■ | Silty Clay | | 42 | 18 | 24 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

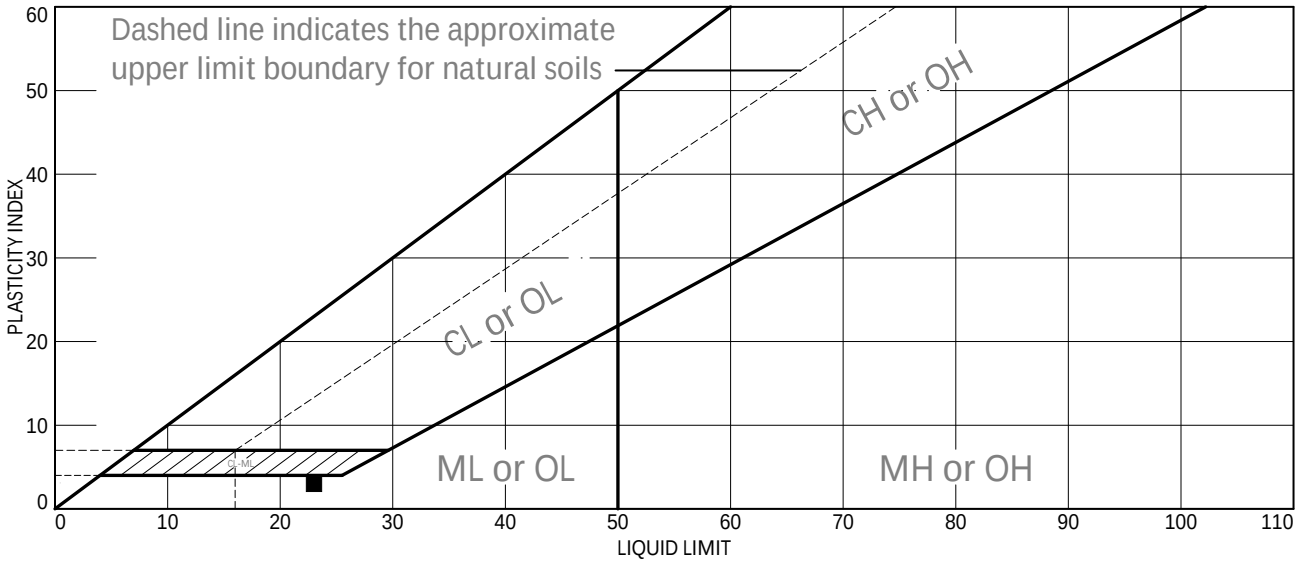
Title:

ENGINEERING ANALYTICS, INC.

Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC12 Depth: 2' - 3' Sample Number: A | | | 02/11/2025 | CF |
| ■ | Source of Sample: EA-BSC12 Depth: 5' - 6' Sample Number: B | | | | 02/07/2025 |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Sandy Clay | | NV | NP | NP | | |
| ■ | Sandy Clay | | 23 | 20 | 3 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

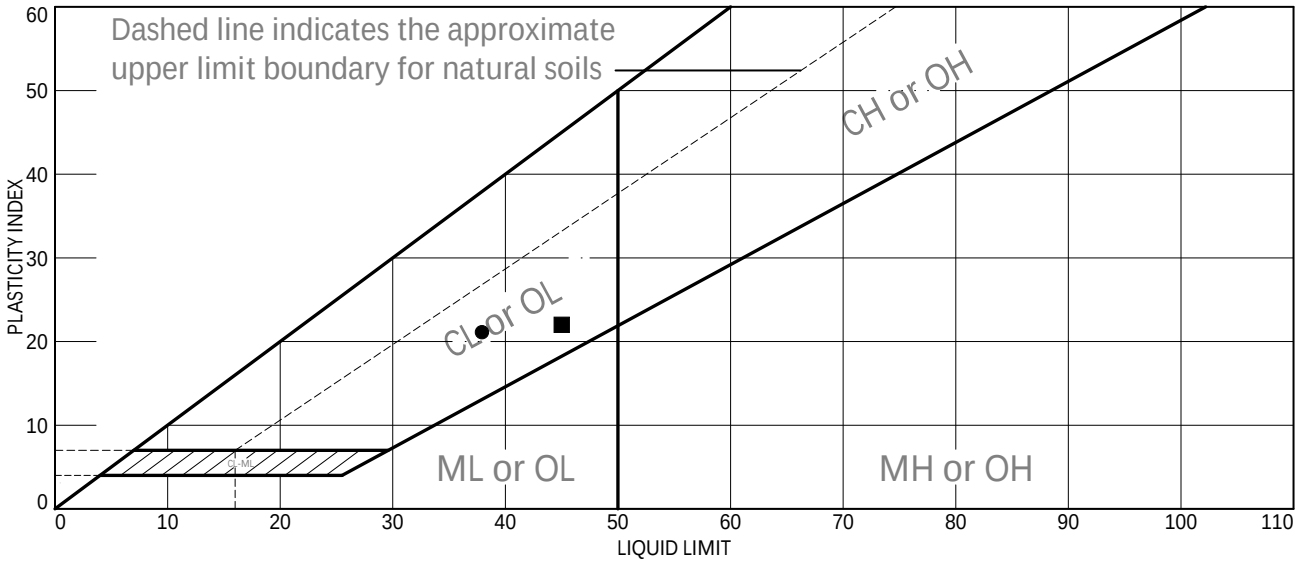
Title:

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Figure

# LIQUID AND PLASTIC LIMITS TEST REPORT

ASTM D4318




| | Sample Identification | Sampled | Received | Tested | Technician |
|---|---|---|---|---|---|
| ● | Source of Sample: EA-BSC13 Depth: 2' - 3'<br>Sample Number: A | | | 02/14/2025 | CF |
| ■ | Source of Sample: EA-BSC13 Depth: 5' - 6'<br>Sample Number: B | | | 02/11/2025 | SY |
| | | | | | |
| | | | | | |
| | | | | | |

| | Material Description | USCS | LL | PL | PI | NM | %<#40 |
|---|---|---|---|---|---|---|---|
| ● | Silty Clay | | 38 | 17 | 21 | | |
| ■ | Clay | | 45 | 23 | 22 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | PL Rolling Method | LL Device | Grooving Tool | Test Remarks |
|---|---|---|---|---|
| ● | Hand rolled | Manual | Metal | |
| ■ | Hand rolled | Manual | Metal | |
| | | | | |
| | | | | |
| | | | | |

Project No. 111360 Client: Rio Grand Resources

Project: Mt.Taylor

Checked by: KG

Title:

ENGINEERING ANALYTICS, INC.

Figure

# 6.0 Flexible Wall Permeability

The hydraulic conductivity (coefficient of permeability) of saturated porous material was determined on 2 soil samples using a flexible wall permeameter in accordance with ASTM D5084, "Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall[1] Permeameter (Method C: Falling Head Test)."

- Soil samples were trimmed, encased within a flexible rubber membrane, and placed within a triaxial test cell.
- An initial effective stress of 1-3 psi was applied to each sample to facilitate saturation.
- Following saturation, each sample was consolidated to the effective stress specified by the project engineer.
- After a 24-hour consolidation period, a hydraulic gradient was established by applying differential pressures to the top and bottom of the samples. The magnitude of the gradient was determined based on the soil classification.
- The outflow of water from the top of the sample was measured at predetermined time intervals to determine the flow rate and, subsequently, the hydraulic conductivity.

The results of the hydraulic conductivity are presented on the following pages

**Flexible Wall Permeability Test**

**Mt. Taylor - 111360**

**EA-BSC 9 @ 2'-3' Remolded**

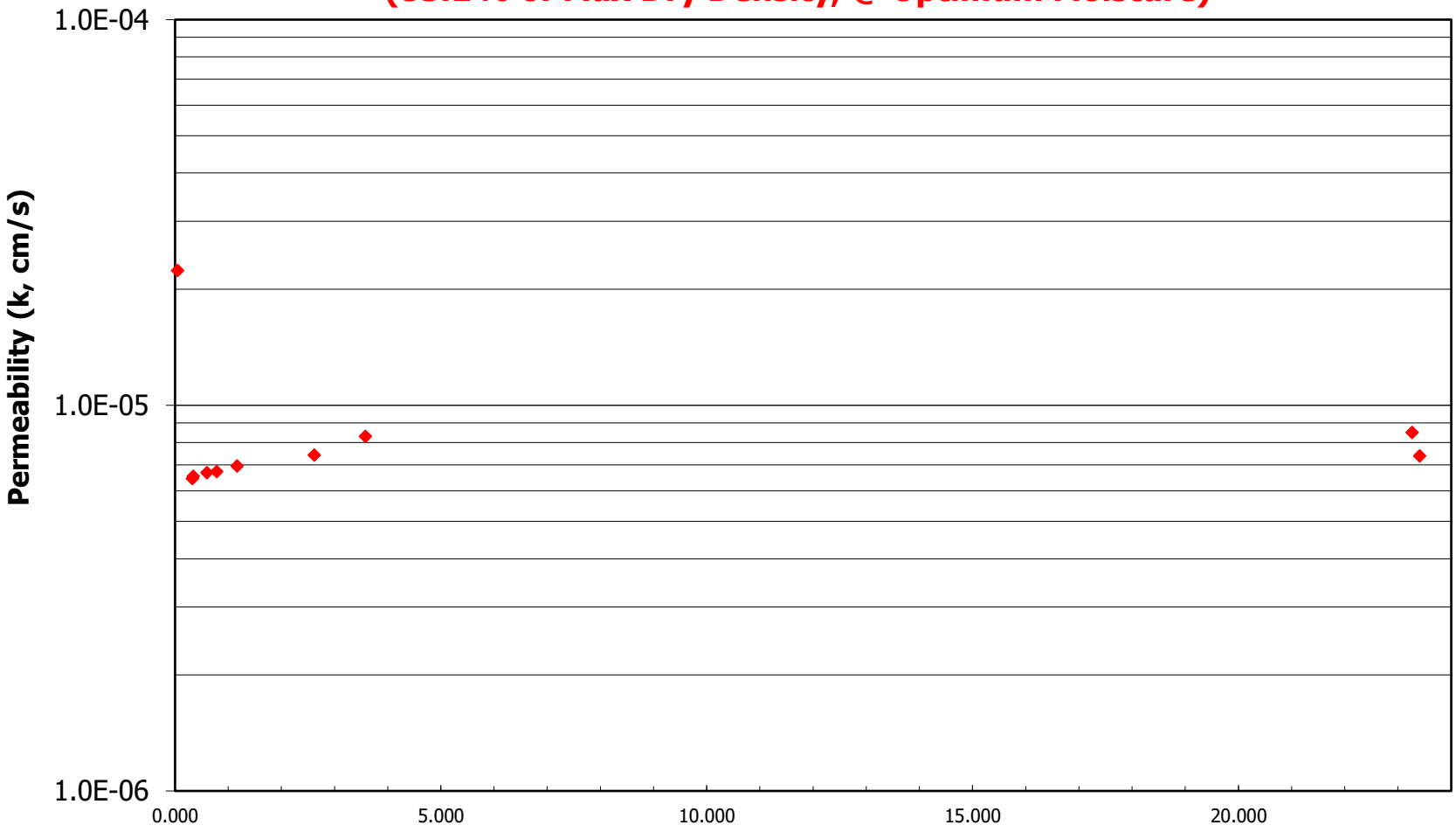
| | | | | |
|---|---|---|---|---|
| Length of sample | L | 7.52 | cm | 2.960 in |
| Area of sample | A | 29.50 | cm^2 | 2.413 in |
| Area of standpipe | a | 0.713 | cm^2 | 0.375 in |

| | | | | |
|---|---|---|---|---|
| Cell Pressure | 85.00 | psi | | |
| Upper Cap Pressure | 79.79 | psi | | |
| Lower Cap Pressure | 80.00 | psi | | |
| Dry Density | 93.9 | | % Remold @ | 85.1 % |
| % of Moisture | 16.1 % | | Water content ± | 0 % |
| Gradiant | 1.96 | | Remold Dry Density | 93.9 |
| Consolidation (psi) | 5.00 psi | | Remold % of Moisture | 16.1 % |
| Consolidation (psf) | 720 psf | | | |

| Date & Time | E.T . (s) | Reading Lower (cc) | Reading Upper (cc) | k(cm/s) |
|---|---|---|---|---|
| 10/28/25 10:45 AM | | 11.000 | 49.300 | |
| 10/28/25 10:48 AM | 180 | 12.000 | 48.000 | 2.2E-05 |
| | | | | |
| 10/28/25 10:48 AM | | 12.000 | 48.000 | |
| 10/28/25 11:05 AM | 1050 | 13.800 | 46.100 | 6.5E-06 |
| | | | | |
| 10/28/25 11:05 AM | | 13.800 | 46.100 | |
| 10/28/25 11:07 AM | 120 | 14.000 | 45.900 | 6.5E-06 |
| | | | | |
| 10/28/25 11:07 AM | | 14.000 | 45.900 | |
| 10/28/25 11:21 AM | 810 | 15.300 | 44.500 | 6.7E-06 |
| | | | | |
| 10/28/25 11:21 AM | | 15.300 | 44.500 | |
| 10/28/25 11:32 AM | 660 | 16.400 | 43.500 | 6.7E-06 |
| | | | | |
| 10/28/25 11:32 AM | | 16.400 | 43.500 | |
| 10/28/25 11:55 AM | 1380 | 18.500 | 41.400 | 7.0E-06 |
| | | | | |
| 10/28/25 11:55 AM | | 18.500 | 41.400 | |
| 10/28/25 1:22 PM | 5220 | 25.000 | 34.800 | 7.4E-06 |
| | | | | |
| 10/28/25 1:22 PM | | 25.000 | 34.800 | |
| 10/28/25 2:20 PM | 3480 | 28.500 | 31.600 | 8.3E-06 |
| | | | | |
| 10/29/25 9:59 AM | | 19.600 | 49.600 | |
| 10/29/25 10:01 AM | 120 | 19.800 | 49.300 | 8.5E-06 |
| | | | | |
| 10/29/25 10:01 AM | | 19.800 | 49.300 | |
| 10/29/25 10:09 AM | 510 | 20.700 | 48.400 | 7.4E-06 |
| | | | | |
| 10/29/25 10:09 AM | | 20.700 | 48.400 | |
| 10/29/25 10:25 AM | 930 | 22.200 | 46.800 | 7.4E-06 |
| | | | | |
| | | | | |
| | | Average k= | 7.9E-06 | |

# Flexwall Permeability Test

**Mt. Taylor - 111360**
**EA-BSC09 @ 2' - 3'**
**Remolded to 93.9 @ 16.1%**
**(85.1% of Max Dry Density, @ Optimum Moisture)**




Average Permeability k = 7.9E-06cm/s

**Flexible Wall Permeability Test**

**Mt. Taylor - 111360**

**EA-BSC 12A @ 2'-3'**

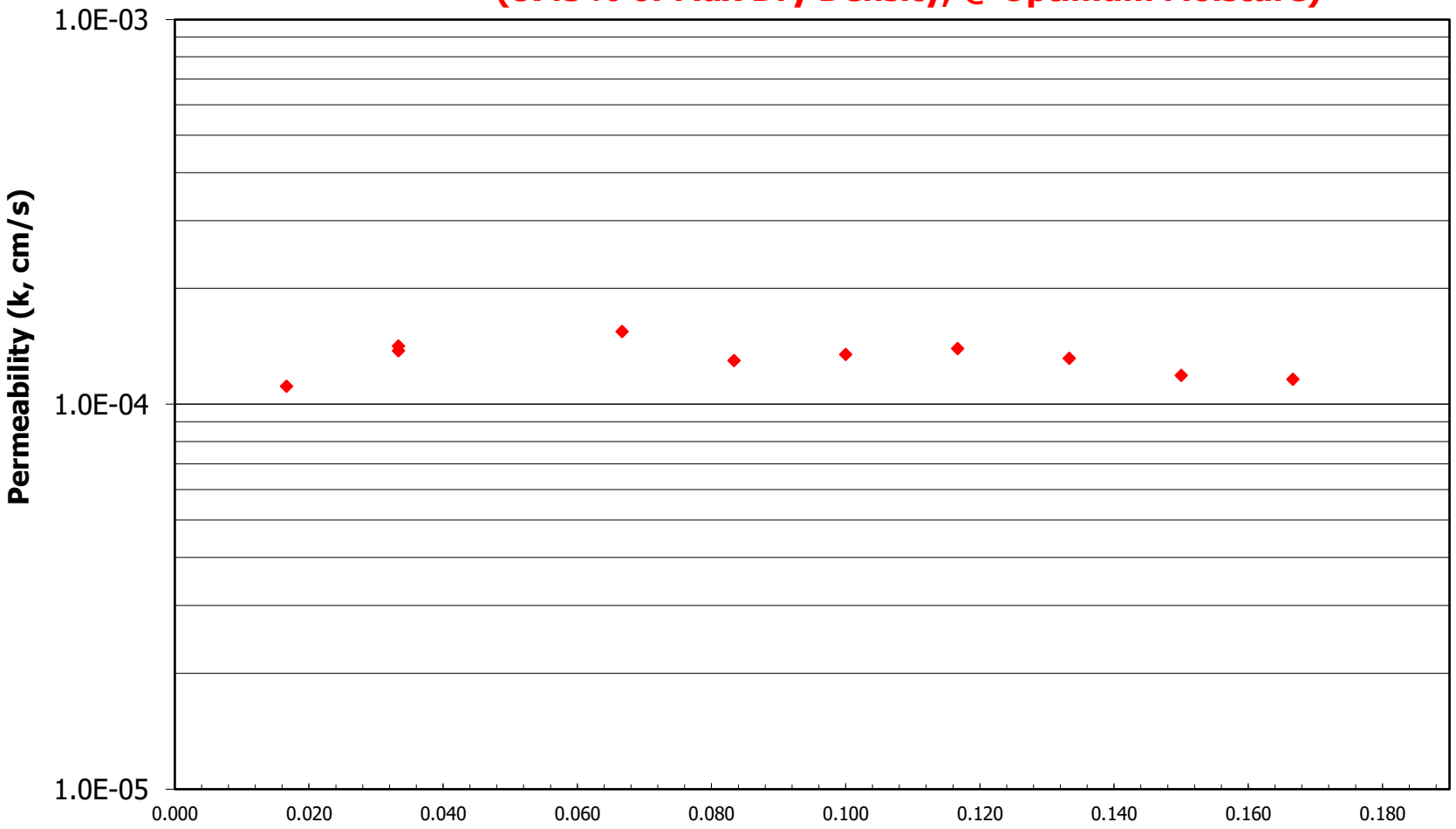
| | | | | |
|---|---|---|---|---|
| Length of sample | L | 6.24 | cm | 2.456 in |
| Area of sample | A | 29.50 | cm^2 | 2.413 in |
| Area of standpipe | a | 0.713 | cm^2 | 0.375 in |

| | | | | | |
|---|---|---|---|---|---|
| Cell Pressure | 90.00 | psi | | | |
| Upper Cap Pressure | 84.82 | psi | | | |
| Lower Cap Pressure | 85.00 | psi | | | |
| Dry Density | 95.4 | | % Remold @ | 87.3 | % |
| % of Moisture | 16.4 | % | Water content ± | 0 | % |
| Gradiant | 2.03 | | Remold Dry Density | 95.4 | |
| Consolidation (psi) | 5.00 | psi | Remold % of Moisture | 16.4 | % |
| Consolidation (psf) | 720 | psf | | | |

| Date & Time | E.T . (s) | Reading Lower (cc) | Reading Upper (cc) | k(cm/s) |
|---|---|---|---|---|
| 10/28/25 10:58 AM | | 25.500 | 36.400 | |
| 10/28/25 10:59 AM | 60 | 26.500 | 35.400 | 1.1E-04 |
| | | | | |
| 10/28/25 10:59 AM | | 26.500 | 35.400 | |
| 10/28/25 11:00 AM | 60 | 27.700 | 34.300 | 1.4E-04 |
| | | | | |
| 10/28/25 11:00 AM | | 27.700 | 34.300 | |
| 10/28/25 11:01 AM | 60 | 28.800 | 33.400 | 1.4E-04 |
| | | | | |
| 10/28/25 11:01 AM | | 28.800 | 33.400 | |
| 10/28/25 11:02 AM | 60 | 29.700 | 32.300 | 1.5E-04 |
| | | | | |
| 10/28/25 11:02 AM | | 29.700 | 32.300 | |
| 10/28/25 11:03 AM | 60 | 30.500 | 31.600 | 1.3E-04 |
| | | | | |
| 10/28/25 11:03 AM | | 30.500 | 31.600 | |
| 10/28/25 11:04 AM | 60 | 31.100 | 30.800 | 1.3E-04 |
| | | | | |
| 10/28/25 11:04 AM | | 31.100 | 30.800 | |
| 10/28/25 11:05 AM | 60 | 31.800 | 30.200 | 1.4E-04 |
| | | | | |
| 10/28/25 11:05 AM | | 31.800 | 30.200 | |
| 10/28/25 11:06 AM | 60 | 32.300 | 29.600 | 1.3E-04 |
| | | | | |
| 10/28/25 11:06 AM | | 32.300 | 29.600 | |
| 10/28/25 11:07 AM | 60 | 32.800 | 29.200 | 1.2E-04 |
| | | | | |
| 10/28/25 11:07 AM | | 32.800 | 29.200 | |
| 10/28/25 11:08 AM | 60 | 33.200 | 28.800 | 1.2E-04 |
| | | | | |
| 10/28/25 11:08 AM | | 33.200 | 28.800 | |
| 10/28/25 11:09 AM | 60 | 33.600 | 28.400 | 1.3E-04 |
| | | | | |
| | | | | |
| | | Average k= | 1.2E-04 | |

# Flexwall Permeability Test

**Mt. Taylor - 111360**
**EA-BSC 12A @ 2'-3'**
**Remolded to 95.4 @ 16.4%**
**(87.3% of Max Dry Density, @ Optimum Moisture)**




Average Permeability k = 1.2E-04cm/s

# 7.0 Soil Water Characteristic Curve

The moisture-retention curve (also known as the soil-water characteristic curve) was determined on 7 soil samples in accordance with ASTM D6836, "Standard Test Methods for Determination of the Soil Water Characteristic Curve for Soil and Rock by the Pressure Plate Method." This test establishes the relationship between the water content of a soil and the applied suction or negative matric potential (soil water potential).

To create a full-range curve, a combination of two methods was employed:

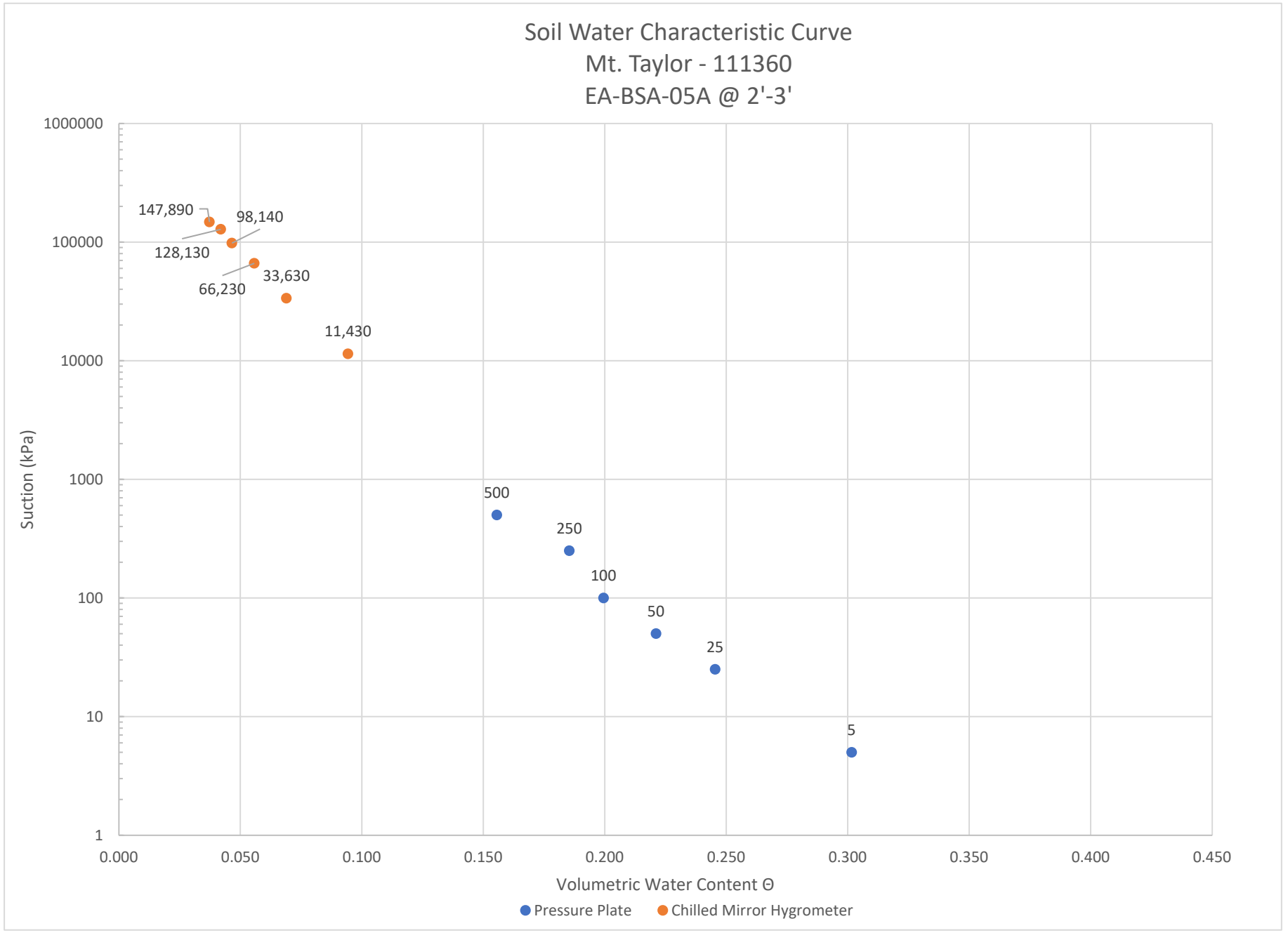
- Low Suction Range (Method C - Pressure Plate): Used to determine the water content at low suctions (0 kPa to 500 kPa).
- High Suction Range (Method D - Chilled Mirror Hygrometer): Used to determine the water content at high suctions (500 kPa to 250,000 kPa or more).

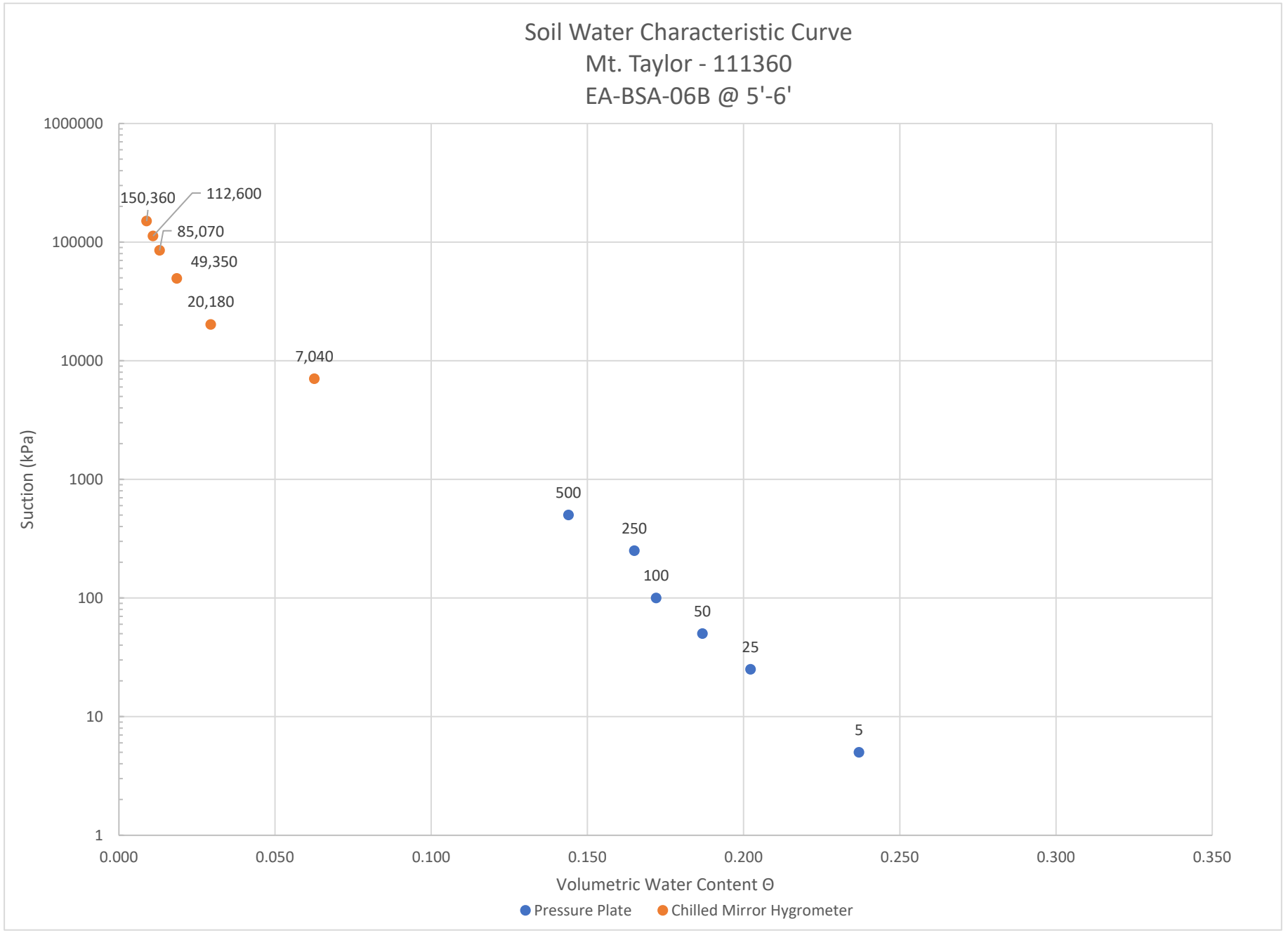
Combined Test Procedure

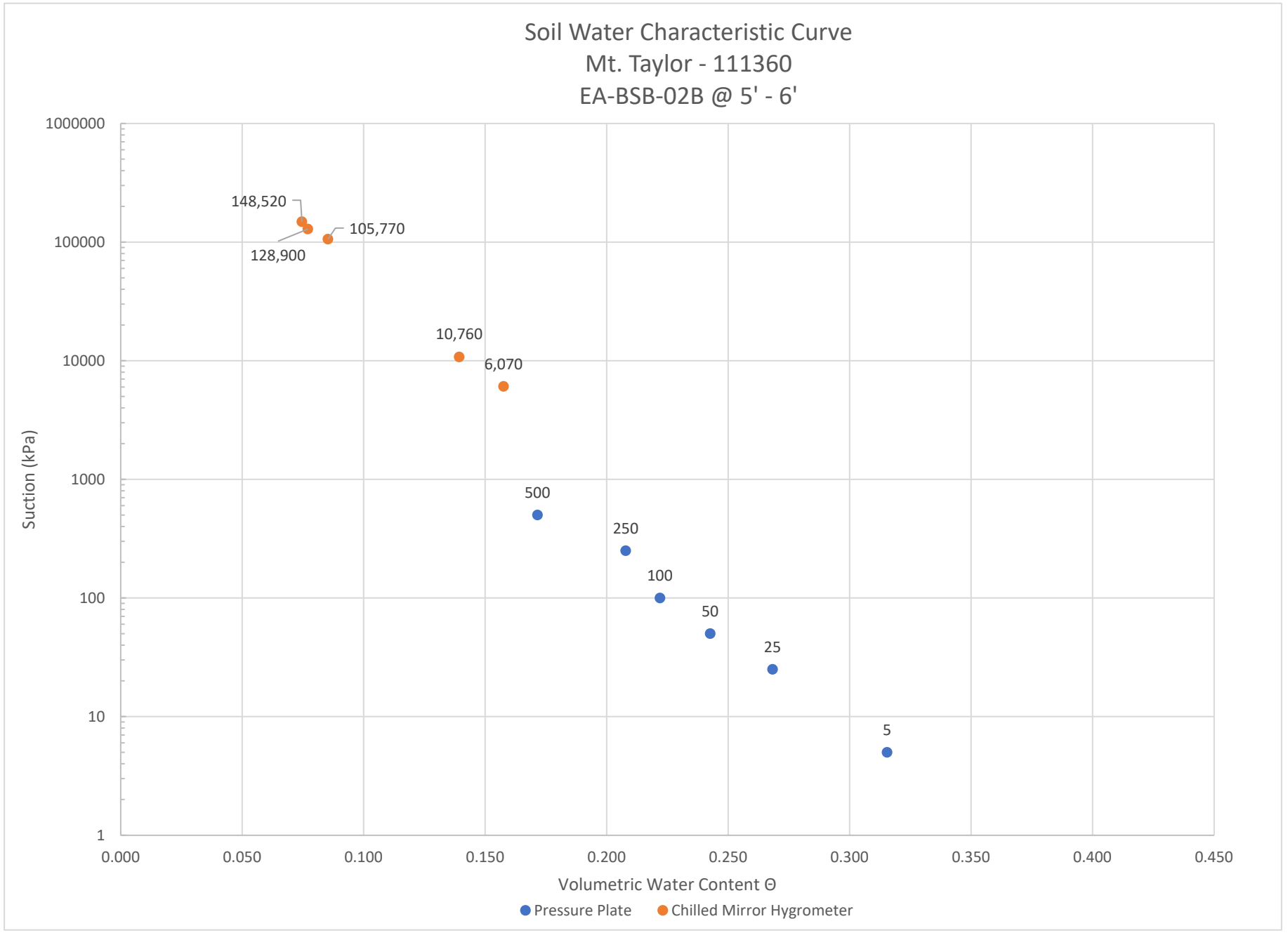
1. Sample Preparation (Method C): Representative soil specimens were prepared and placed on ceramic plates of appropriate air-entry values within a pressure chamber.
2. Saturation: The specimens were saturated by submerging them in water, allowing them to reach equilibrium.
3. Low Suction Application (Method C): The pressure chamber was subjected to a series of low, incremental air pressures (suctions), typically up to 1500 kPa. At each pressure step, the system was allowed to reach hydraulic equilibrium (i.e., water stopped flowing out of the samples). The water outflow was measured and recorded.
4. High Suction Application (Method D): After the final low-suction step, or on a separate subset of samples, the soil was tested using the Chilled Mirror Hygrometer technique.
    - A small, representative portion of the soil was placed in the hygrometer's sample chamber.
    - The instrument measured the relative humidity in equilibrium with the soil water potential (suction) above the sample.
    - This measurement was taken by chilling a mirror surface until dew condensation occurred. The measured dew point temperature was used to calculate the corresponding high soil suction.
5. Moisture Content Determination: For both methods, the water content corresponding to each suction step was determined, by determining the gravimetric moisture content of the tested specimen.

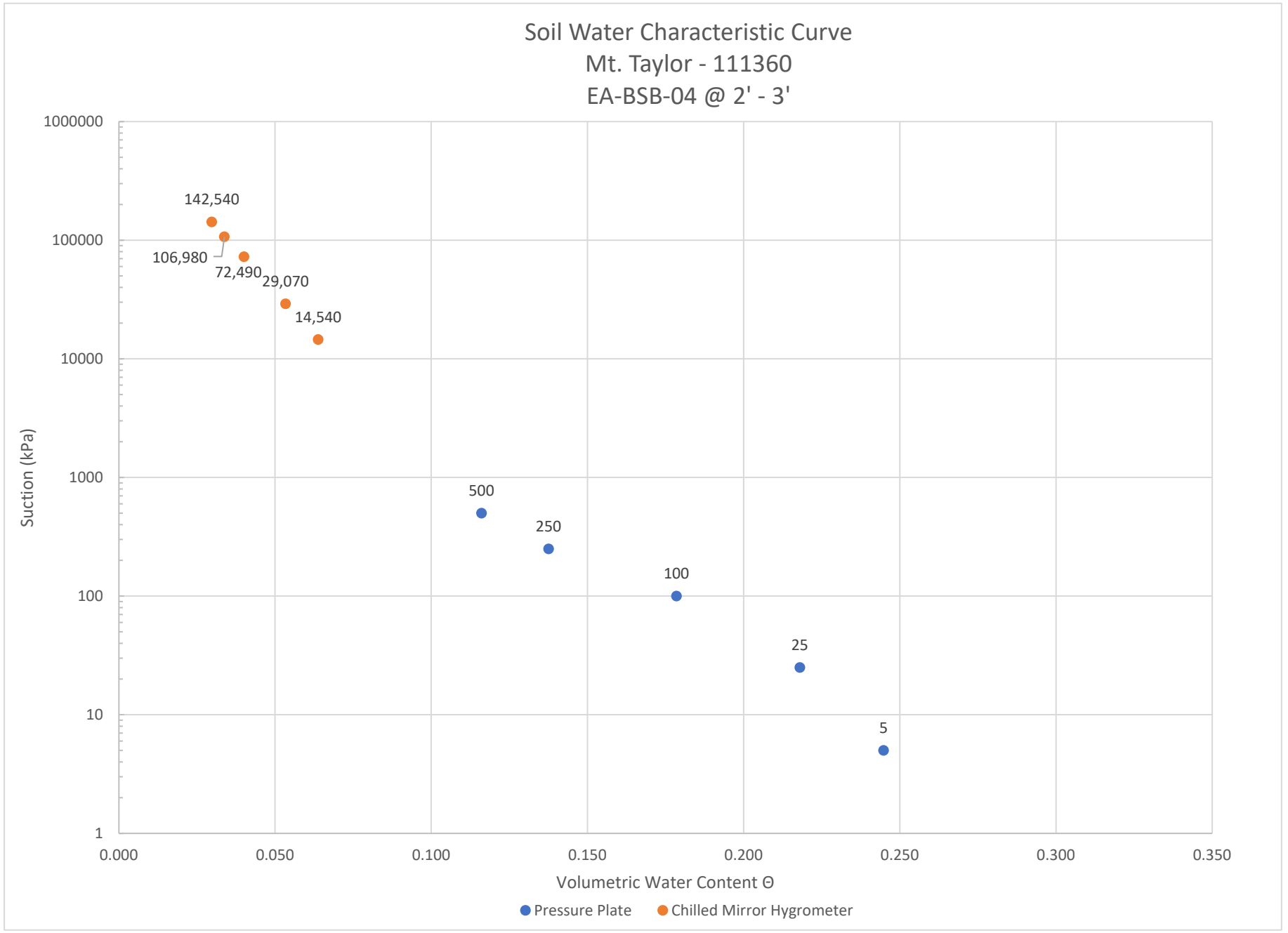
By combining the data from the Pressure Plate (low suction) and the Chilled Mirror Hygrometer (high suction), a complete moisture-retention curve was generated, spanning the full range of suction required for engineering analysis.

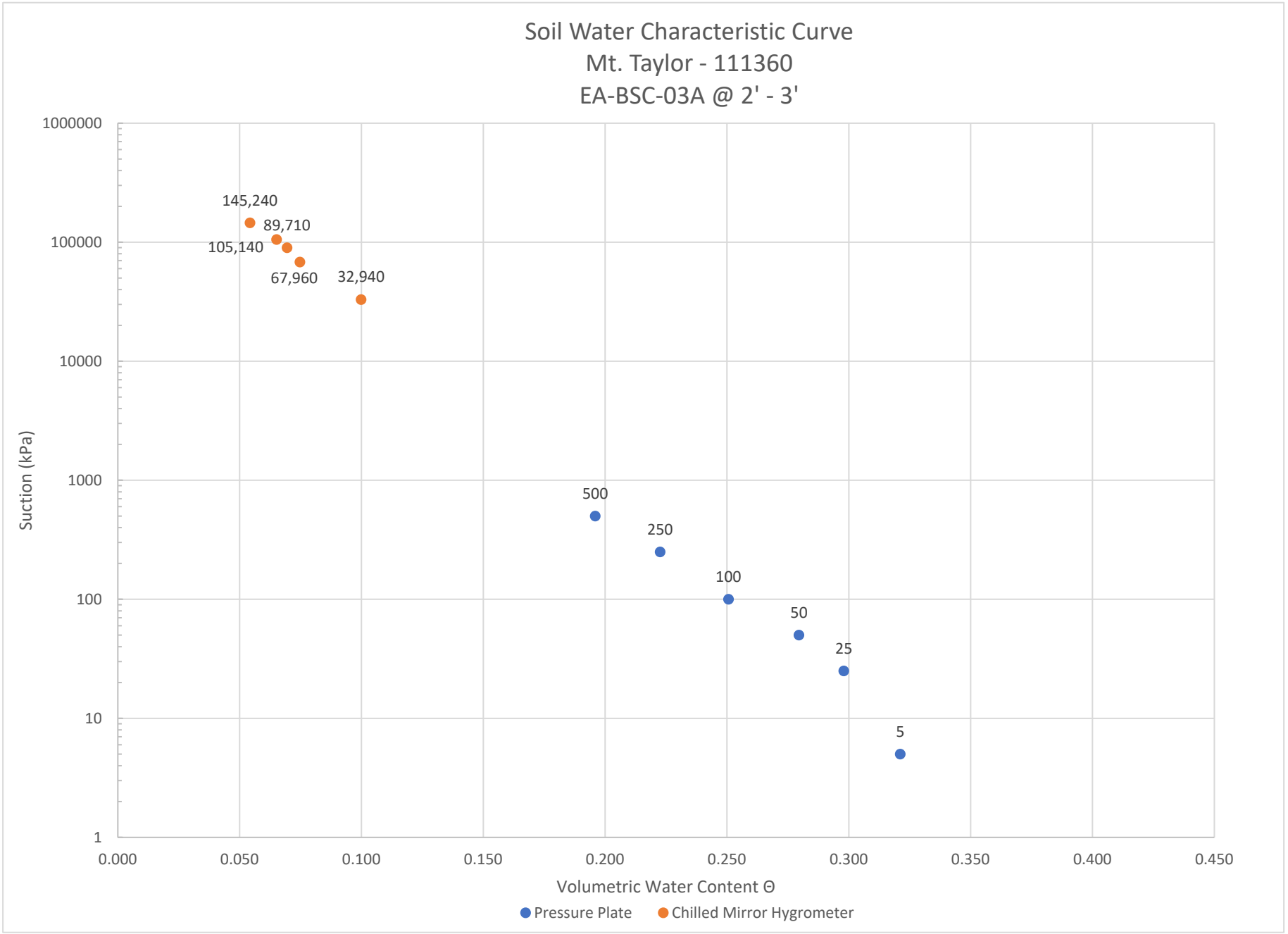
The results of the Soil Water Characteristic Curves are presented on the following pages.

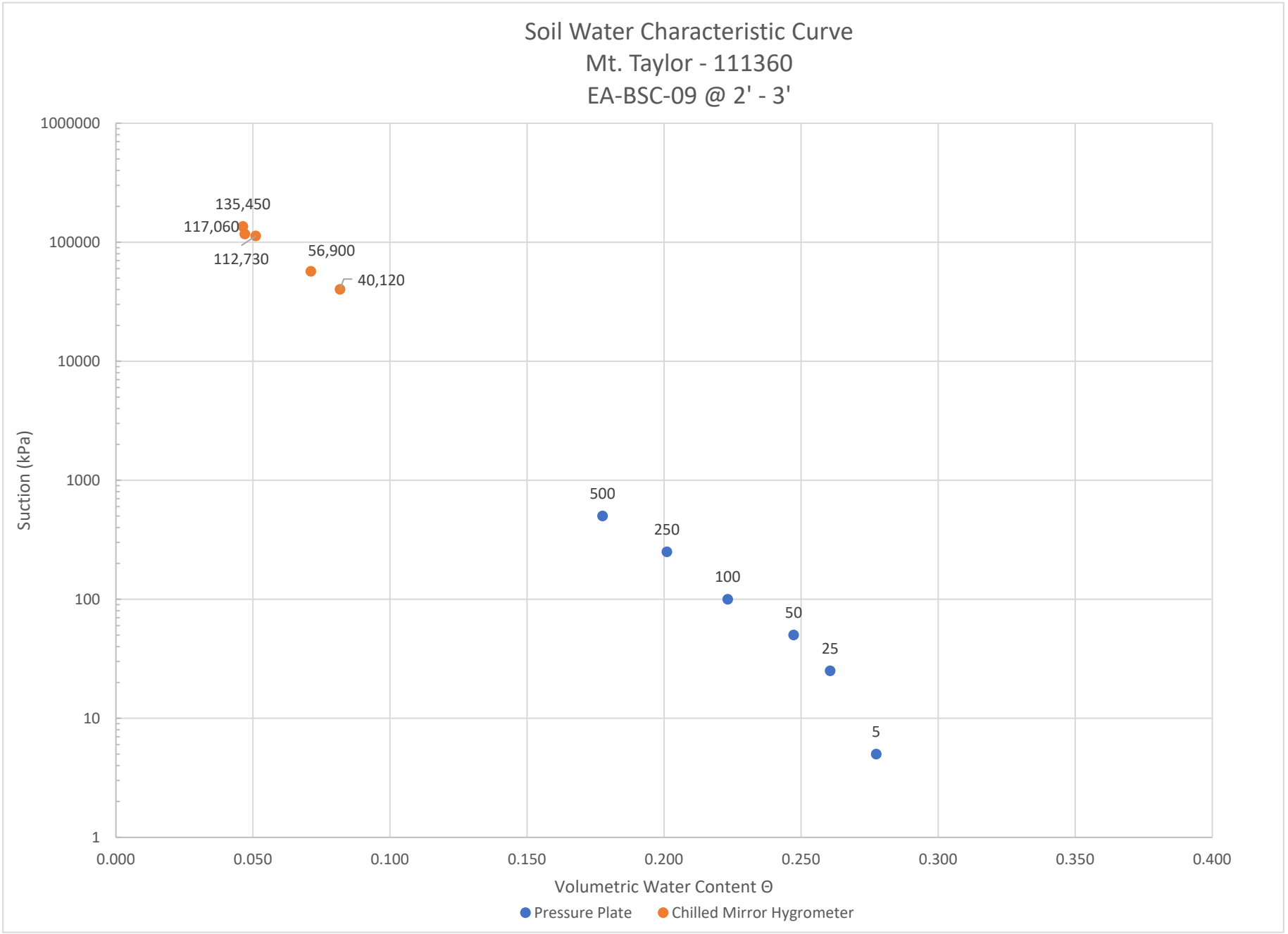

Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSA-05A @ 2'-3'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
147,890
98,140
128,130
33,630
66,230
11,430
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
0.450
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer

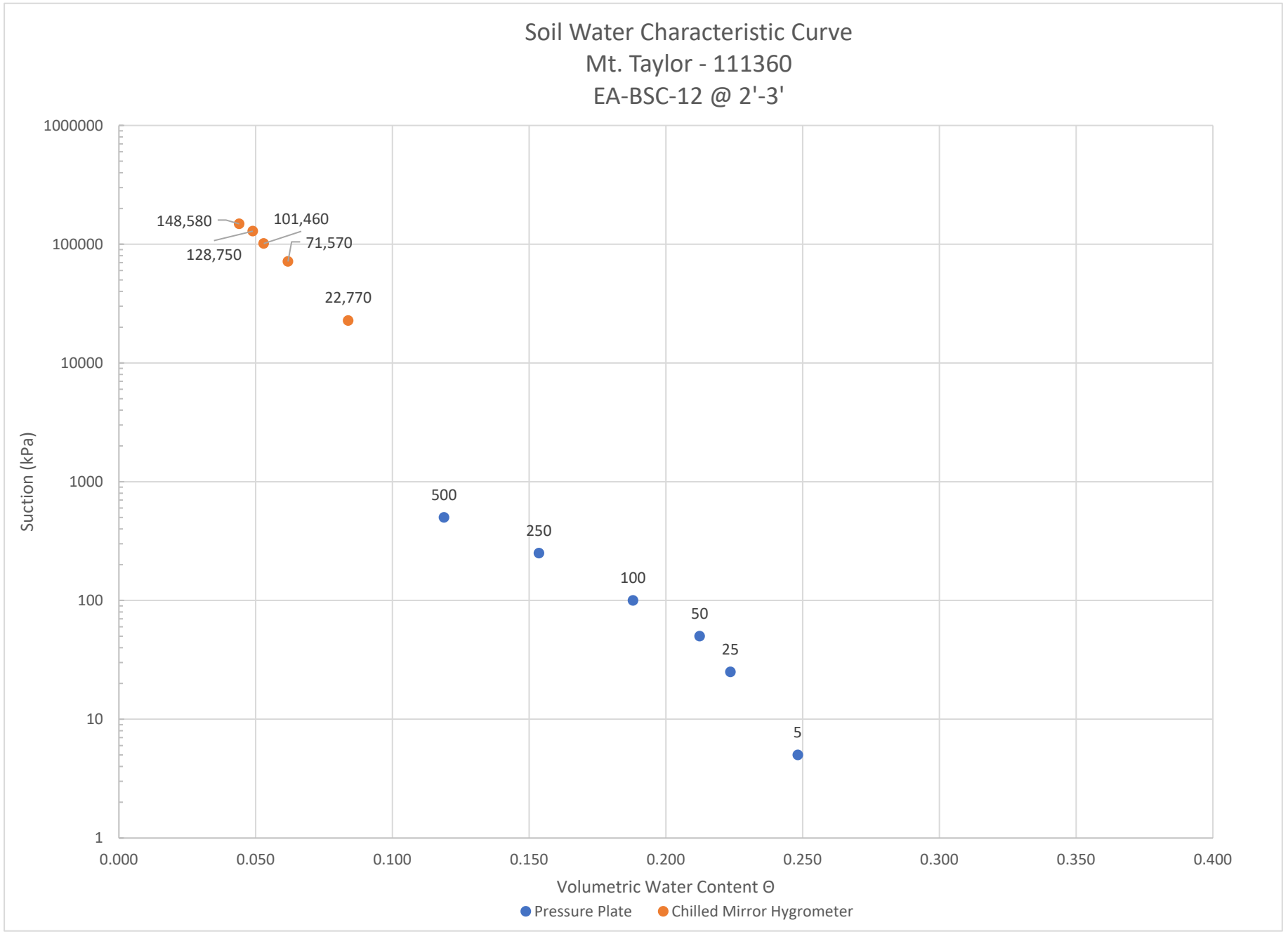

Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSA-06B @ 5'-6'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
150,360
112,600
85,070
49,350
20,180
7,040
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSB-02B @ 5' - 6'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
148,520
105,770
128,900
10,760
6,070
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
0.450
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSB-04 @ 2' - 3'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
142,540
106,980
72,490
29,070
14,540
500
250
100
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSC-03A @ 2' - 3'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
145,240
89,710
105,140
67,960
32,940
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
0.450
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSC-09 @ 2' - 3'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
Volumetric Water Content Θ
135,450
117,060
112,730
56,900
40,120
500
250
100
50
25
5
Pressure Plate
Chilled Mirror Hygrometer


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSC-12 @ 2'-3'
Suction (kPa)
1000000
100000
10000
1000
100
10
1
148,580
101,460
128,750
71,570
22,770
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer

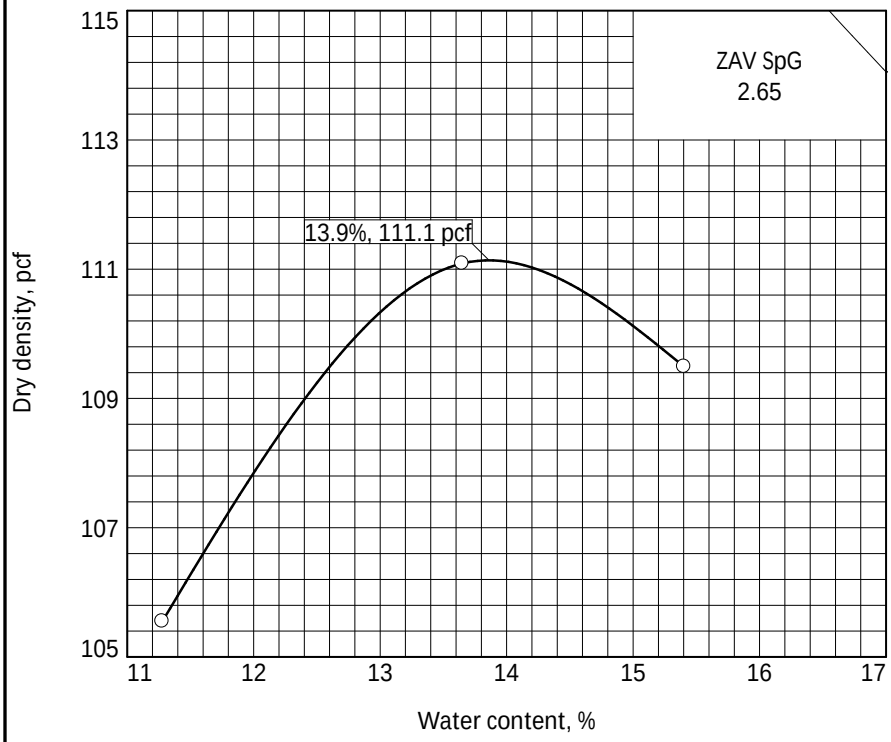
# 8.0 Standard Proctor Compaction

Standard Proctor Compaction tests were performed on 8 selected soil samples in accordance with ASTM D698, “Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort.”

- For each test, soil at a predetermined moisture content was placed in three equal layers into a cylindrical mold of specified dimensions. Each layer was compacted by 25 blows from a 5.5-pound (2.49 kg) hammer dropped from a height of 12 inches (305 mm) for Methods A and B of the standard. For Method C, a larger mold and 56 blows per layer were used. The specific method employed is noted in the results section.
- Following compaction, the wet unit weight of the soil in the mold was determined by measuring the mass of the compacted soil and the known volume of the mold.
- The moisture content of a representative portion of the compacted soil was determined, and the dry unit weight was subsequently calculated.
- This procedure was repeated for each soil sample with four or more different moisture contents to establish the moisture-density relationship (compaction curve) for the soil.

Graphs illustrating the moisture-density relationships (Proctor curves) for each tested soil sample are shown on the following pages.

# COMPACTION TEST REPORT




Curve No.
**2**

Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: 25 PI: 5
Sp.G. (Assumed): 2.650
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 3/07/2025
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6161.5 | 6159.9 | 6026.9 | | | |
| WM | 4251.2 | 4251.2 | 4251.2 | | | |
| WW + T #1 | 1309.6 | 1466.2 | 1581.9 | | | |
| WD + T #1 | 1189.6 | 1338.5 | 1462.3 | | | |
| TARE #1 | 410.5 | 402.9 | 401.8 | | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 15.4 | 13.6 | 11.3 | | | |
| DRY DENSITY | 109.5 | 111.1 | 105.6 | | | |

TEST RESULTS

Maximum dry density = 111.1 pcf

Optimum moisture = 13.9 %

Material Description: Sand

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

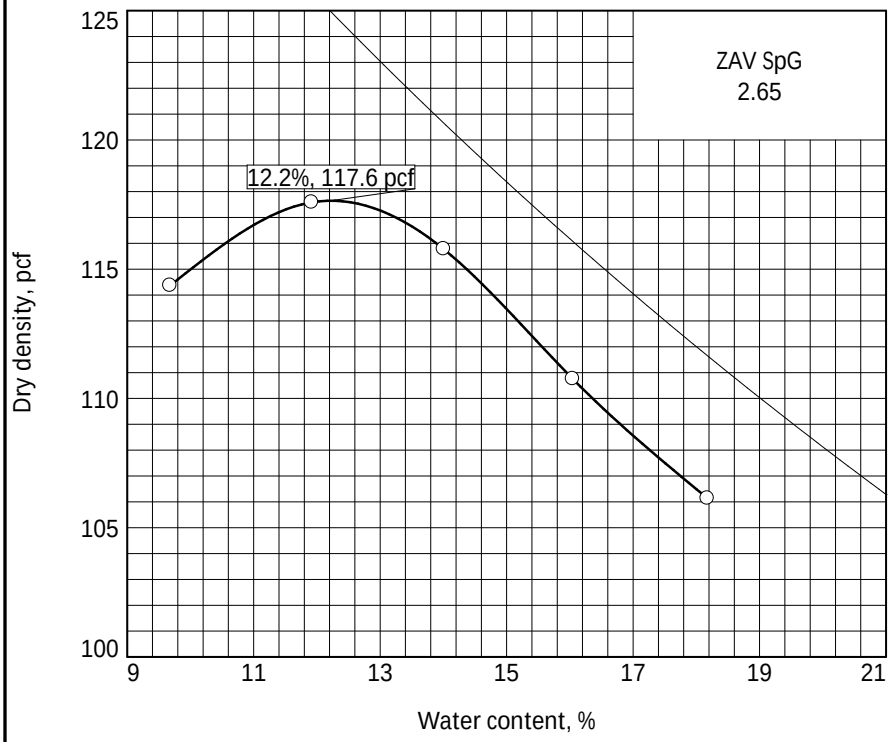
○ Source of Sample: EA-BSA05 Depth: 2' - 3' Sample Number: A

Checked by: KG
Title:

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Figure

# COMPACTION TEST REPORT




Curve No.
**3**

Test Specification:
ASTM D 698-12 Method A Standard

| | |
|---|---|
| Preparation Method | Moist |
| Hammer Wt. | 5.5 lb. |
| Hammer Drop | 12 in. |
| Hammer Type: | Manual |
| Layers | three |
| Blows/Layer | 25 |
| Mold Size | 0.03333 cu. ft. |

Test Performed on Material
Passing #4 Sieve

NM _____ LL NV PI NP
Sp.G. (Assumed): 2.650
%>#4 _____ %<No.200 _____
USCS _____ AASHTO _____
Date Sampled _____
Date Received _____
Date Tested 3/11/2025
Tested By SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6241.2 | 6247.1 | 6194.7 | 6147.9 | 6147.9 | |
| WM | 4251.6 | 4251.6 | 4251.6 | 4251.6 | 4251.6 | |
| WW + T #1 | 1459.3 | 1369.9 | 1341.9 | 1156.3 | 1297.7 | |
| WD + T #1 | 1346.8 | 1250.9 | 1211.9 | 1040.2 | 1218.6 | |
| TARE #1 | 402.9 | 401.2 | 401.7 | 401.5 | 401.8 | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 11.9 | 14.0 | 16.0 | 18.2 | 9.7 | |
| DRY DENSITY | 117.6 | 115.8 | 110.8 | 106.1 | 114.4 | |

TEST RESULTS

Maximum dry density = 117.6 pcf

Optimum moisture = 12.2 %

Material Description

Sand

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

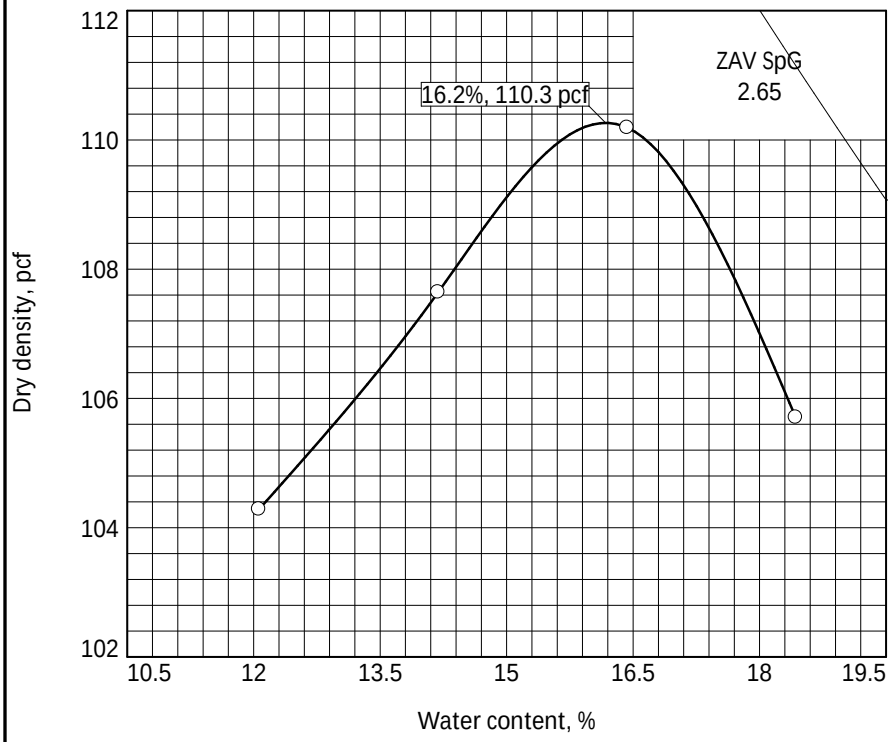
○ Source of Sample: EA-BSA06 Depth: 5' - 6' Sample Number: B

Checked by: KG
Title:

Figure

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# COMPACTION TEST REPORT




Curve No.
**1**

Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: 22 PI: 2
Sp.G. (Assumed): 2.650
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 3/11/2025
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6018.4 | 6109.9 | 6191.2 | 6144.2 | | |
| WM | 4251.6 | 4251.6 | 4251.6 | 4251.6 | | |
| WW + T #1 | 1413.6 | 1345.8 | 1353.8 | 1326.2 | | |
| WD + T #1 | 1304.8 | 1228.5 | 1223.3 | 1182.4 | | |
| TARE #1 | 402.9 | 401.8 | 429.1 | 402.1 | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.1 | 14.2 | 16.4 | 18.4 | | |
| DRY DENSITY | 104.3 | 107.6 | 110.2 | 105.7 | | |

**TEST RESULTS**

Maximum dry density = 110.3 pcf

Optimum moisture = 16.2 %

**Material Description**

Silty Clay

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSB02 Depth: 5' - 6' Sample Number: B

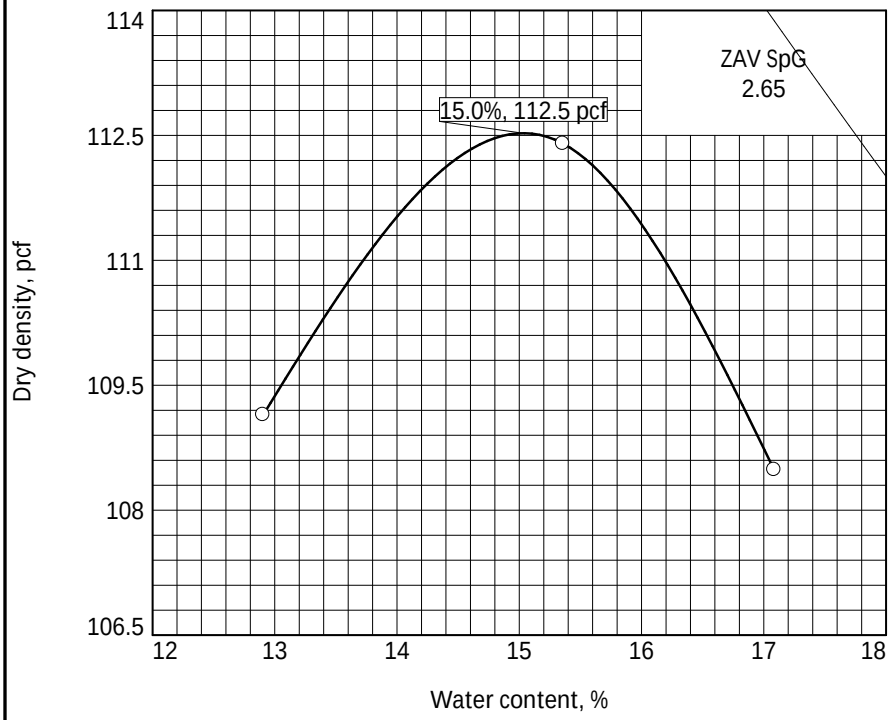
Checked by: KG
Title:

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Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.
Test Performed on Material Passing #4 Sieve
NM _____ LL NV PI NP
Sp.G. (Assumed): 2.65
%>#4 _____ %<No.200 _____
USCS _____ AASHTO _____
Date Sampled _____
Date Received _____
Date Tested: 4/16/25
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6114.4 | 6211.7 | 6171.7 | | | |
| WM | 4251.4 | 4251.4 | 4251.4 | | | |
| WW + T #1 | 1015.2 | 1106.6 | 897.9 | | | |
| WD + T #1 | 933.6 | 1009.1 | 810.6 | | | |
| TARE #1 | 301.0 | 374.0 | 299.9 | | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.9 | 15.4 | 17.1 | | | |
| DRY DENSITY | 109.1 | 112.4 | 108.5 | | | |

TEST RESULTS

Maximum dry density = 112.5 pcf

Optimum moisture = 15.0 %

Material Description: Sand

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSB04 Depth: 2' - 3' Sample Number: A

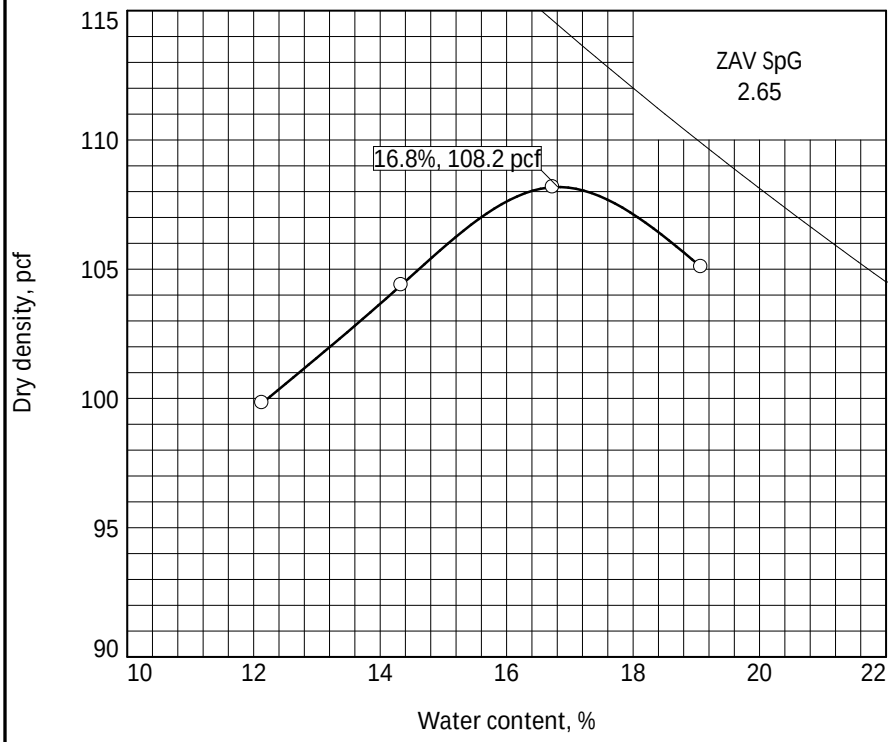
Checked by: AW
Title:

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Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method
Hammer Wt. 5.5 lb.
Hammer Drop 12 in.
Hammer Type:
Layers three Blows/Layer 25
Mold Size 0.03333 cu. ft.

Test Performed on Material
Passing #4 Sieve

NM LL 29 PI 14
Sp.G. (D854): 2.65
%>#4 %<No.200
USCS AASHTO
Date Sampled
Date Received
Date Tested
Tested By

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 5943.1 | 6055.2 | 6159.8 | 6142.6 | | |
| WM | 4250.8 | 4250.8 | 4250.8 | 4250.8 | | |
| WW + T #1 | 1096.2 | 1043.8 | 1092.9 | 1088.9 | | |
| WD + T #1 | 1022.0 | 963.8 | 996.6 | 973.7 | | |
| TARE #1 | 410.5 | 405.5 | 420.8 | 369.7 | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.1 | 14.3 | 16.7 | 19.1 | | |
| DRY DENSITY | 99.8 | 104.4 | 108.2 | 105.1 | | |

TEST RESULTS

Maximum dry density = 108.2 pcf

Optimum moisture = 16.8 %

Material Description

Silty Clay

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSC03 Depth: 2' - 3' Sample Number: A

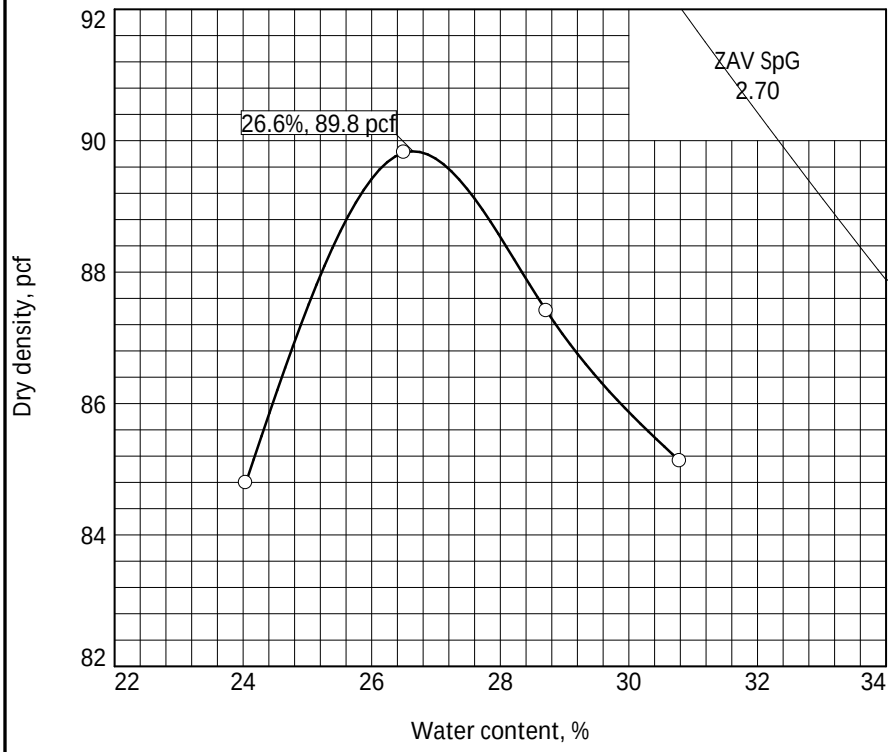
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Title:

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Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: PI:
Sp.G. (Assumed): 2.700
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 10/09/2025
Tested By: LR

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 5840.6 | 5968.3 | 5951.5 | 5933.7 | | |
| WM | 4250.5 | 4250.5 | 4250.5 | 4250.5 | | |
| WW + T #1 | 706.1 | 886.9 | 883.8 | 827.1 | | |
| WD + T #1 | 647.1 | 785.5 | 779.2 | 727.3 | | |
| TARE #1 | 401.7 | 403.1 | 415.1 | 403.3 | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 24.0 | 26.5 | 28.7 | 30.8 | | |
| DRY DENSITY | 84.8 | 89.8 | 87.4 | 85.1 | | |

TEST RESULTS

Maximum dry density = 89.8 pcf

Optimum moisture = 26.6 %

Material Description: Clay

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSC06/09 Combined

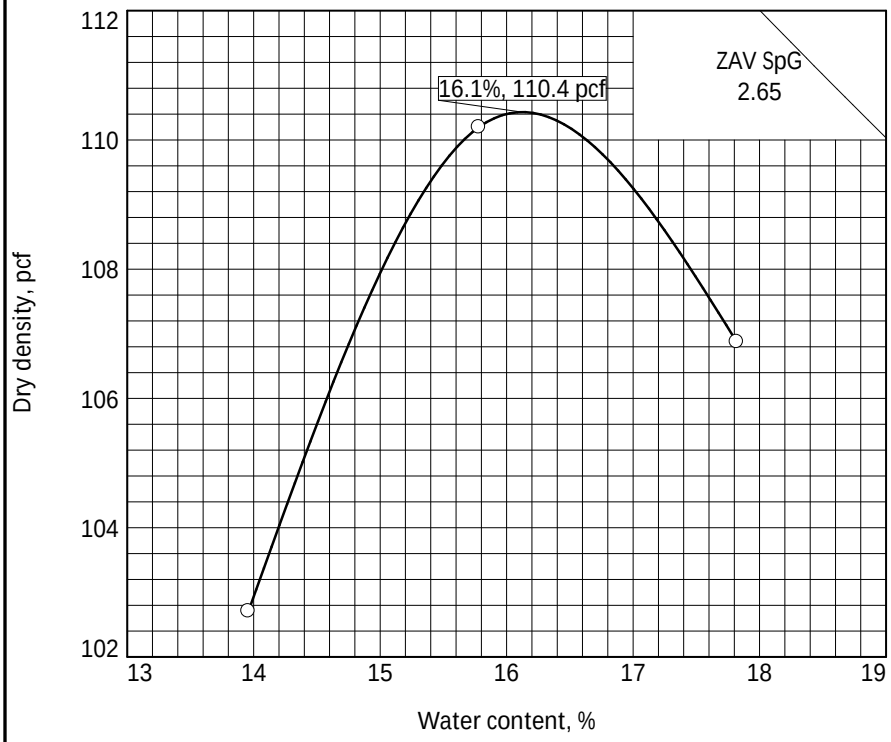
Checked by: KG
Title:

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Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: 26 PI: 8
Sp.G. (Assumed): 2.65
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 4/16/2025
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6020.3 | 6179.7 | 6154.5 | | | |
| WM | 4250.8 | 4250.8 | 4250.8 | | | |
| WW + T #1 | 1243.0 | 1130.4 | 1178.8 | | | |
| WD + T #1 | 1136.1 | 1027.5 | 1056.4 | | | |
| TARE #1 | 370.5 | 375.5 | 369.7 | | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 14.0 | 15.8 | 17.8 | | | |
| DRY DENSITY | 102.7 | 110.2 | 106.9 | | | |

TEST RESULTS

Maximum dry density = 110.4 pcf

Optimum moisture = 16.1 %

Material Description: Silty Clay

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSC09 Depth: 2' - 3' Sample Number: A

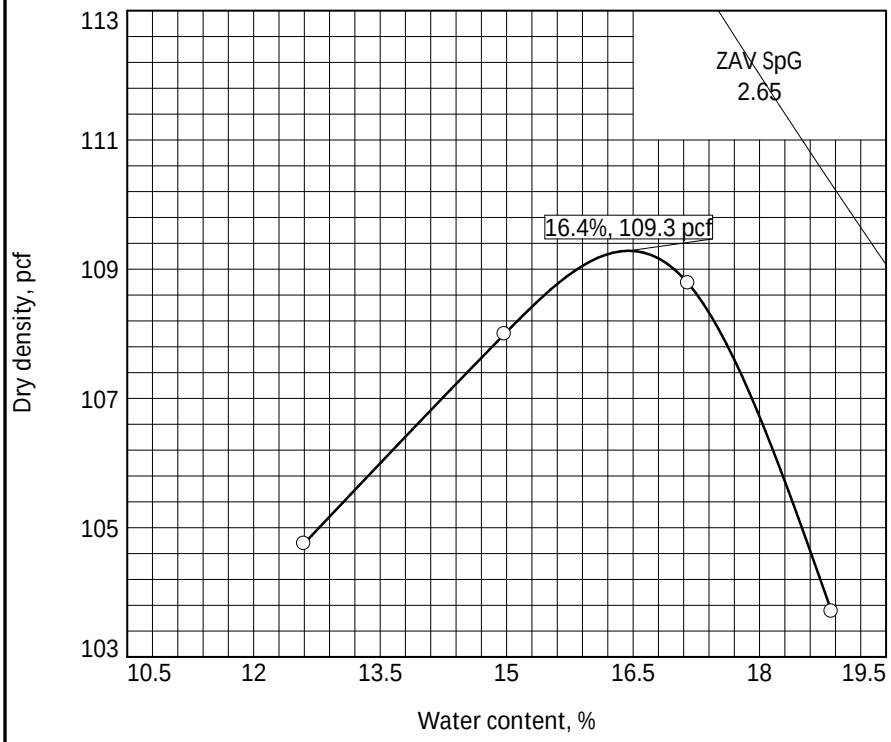
Checked by: KG
Title:

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Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: NV PI: NP
Sp.G. (Assumed): 2.65
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 4/10/25
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6033.2 | 6176.7 | 6127.2 | 6113.4 | | |
| WM | 4250.0 | 4250.0 | 4250.0 | 4250.0 | | |
| WW + T #1 | 1060.2 | 1080.7 | 1199.7 | 864.2 | | |
| WD + T #1 | 986.7 | 981.3 | 1095.7 | 774.7 | | |
| TARE #1 | 402.9 | 402.0 | 400.9 | 299.8 | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.6 | 17.2 | 15.0 | 18.9 | | |
| DRY DENSITY | 104.8 | 108.8 | 108.0 | 103.7 | | |

TEST RESULTS

Maximum dry density = 109.3 pcf

Optimum moisture = 16.4 %

Material Description: Sandy Clay

Remarks:

Project No.: 111360 Client: Rio Grand Resources
Project: Mt.Taylor

○ Source of Sample: EA-BSC12 Depth: 2' - 3' Sample Number: A

Checked by: AW
Title:

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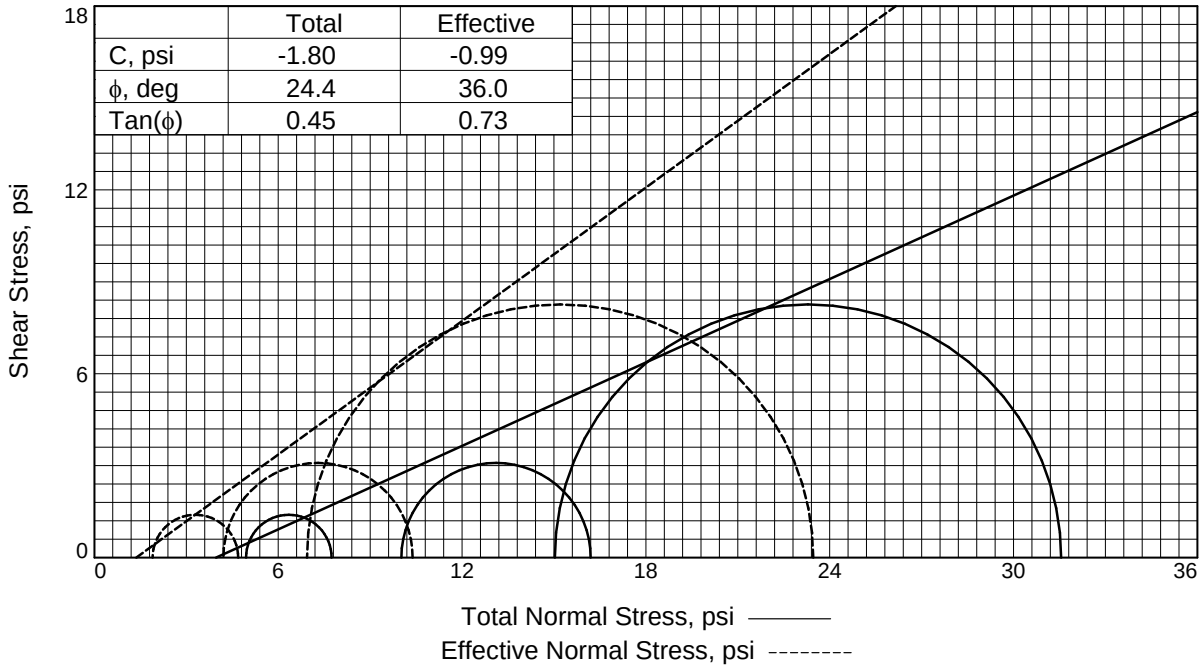
Figure

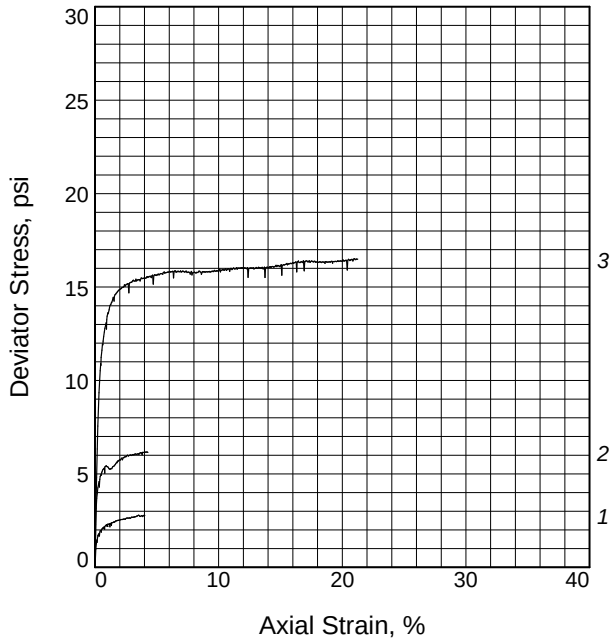
# 9.0 Consolidated Undrained Triaxial Shear

Consolidated undrained (CU) triaxial shear tests were performed on 1 soil samples in accordance with ASTM D4767, "Standard Test Method for Consolidated Undrained Triaxial Compression Test for Cohesive Soils."

- Soil samples were trimmed, encased in a rubber membrane, and installed in the triaxial test cell.
- An initial effective stress of 1-3 psi was applied to facilitate saturation.
- Specimens were saturated to ≥ 95%.
- Following saturation, samples tested using the three-load method were consolidated to the effective stress specified by the project engineer. Samples tested using the three-stage method were consolidated to the effective stresses designated prior to each stage of testing.
- During the consolidation phase, drainage was permitted, allowing for volume changes.
- After a 24-hour consolidation period, the triaxial load cell was engaged, drainage was closed, and axial loading was initiated.
- Axial load, deformation, and pore-water pressure were measured to determine total stresses and axial compression.
- Each sample was sheared, and axial strain was recorded.
- Strength envelopes (total stress Mohr circles) were developed based on the test data.
- Strength envelopes were determined using either the three-load or three-stage method, as specified by the project engineer.
    - The three-load method utilizes data from three distinct samples, each consolidated under a different effective stress.
    - The three-stage method utilizes one sample, which is consolidated to differing effective stresses for each stage of the test.

The results of the CU tests are presented on the following pages.




| Sample No. | | 1 | 2 | 3 |
|---|---|---|---|---|
| Initial | Water Content, % | 26.2 | 26.2 | 26.2 |
| | Dry Density, pcf | 74.6 | 74.6 | 74.6 |
| | Saturation, % | 57.0 | 57.0 | 57.0 |
| | Void Ratio | 1.2186 | 1.2186 | 1.2186 |
| | Diameter, in. | 2.39 | 2.39 | 2.39 |
| | Height, in. | 5.20 | 5.20 | 5.20 |
| At Test | Water Content, % | 40.3 | 37.1 | 35.1 |
| | Dry Density, pcf | 78.8 | 82.2 | 84.4 |
| | Saturation, % | 97.3 | 97.1 | 96.9 |
| | Void Ratio | 1.0988 | 1.0136 | 0.9597 |
| | Diameter, in. | 2.34 | 2.34 | 2.36 |
| | Height, in. | 5.16 | 4.93 | 4.71 |
| Strain rate, in./min. | | 0.005 | 0.005 | 0.005 |
| Eff. Cell Pressure, psi | | 5.0 | 10.0 | 15.0 |
| Fail. Stress, psi | | 2.8 | 6.2 | 16.5 |
| Total Pore Pr., psi | | 83.0 | 85.8 | 88.1 |
| Strain, % | | 3.5 | 4.2 | 20.9 |
| Ult. Stress, psi | | | | |
| Total Pore Pr., psi | | | | |
| Strain, % | | | | |
| $\bar{\sigma}_1$ Failure, psi | | 4.7 | 10.4 | 23.5 |
| $\bar{\sigma}_3$ Failure, psi | | 1.9 | 4.2 | 6.9 |

**Type of Test:**
CU with Pore Pressures

**Sample Type:** Remolded

**Description:** Clay

**Specific Gravity=** 2.650

**Remarks:** While the test followed the ASTM D4767 Staged Method, the resulting data indicates the sample should be re-tested using the Three-Load Method for improved accuracy and reliability.

**Figure** _____

**Client:** Rio Grand Resources

**Project:** Mt.Taylor

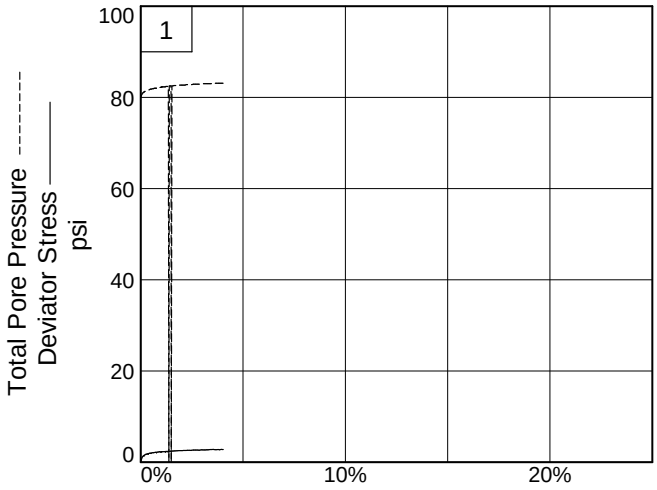
**Source of Sample:** EA-BSC06/09 Combined

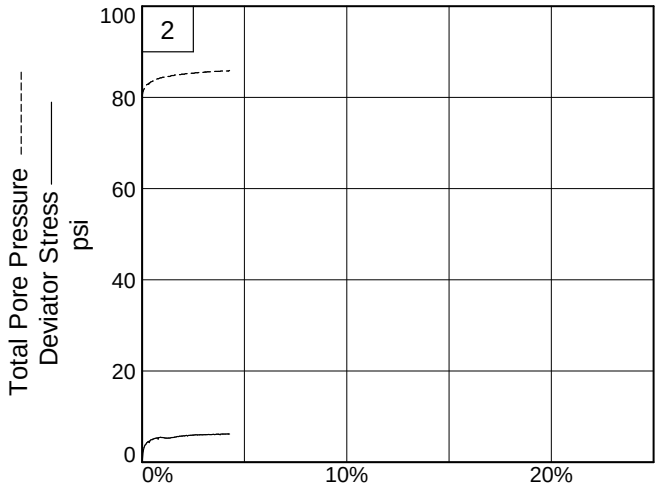
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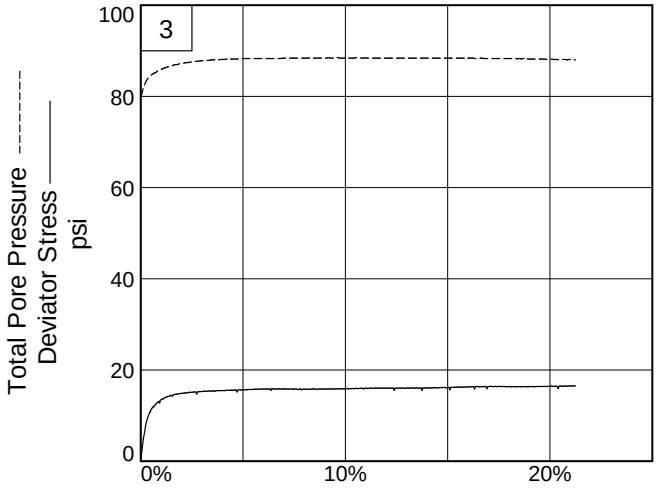
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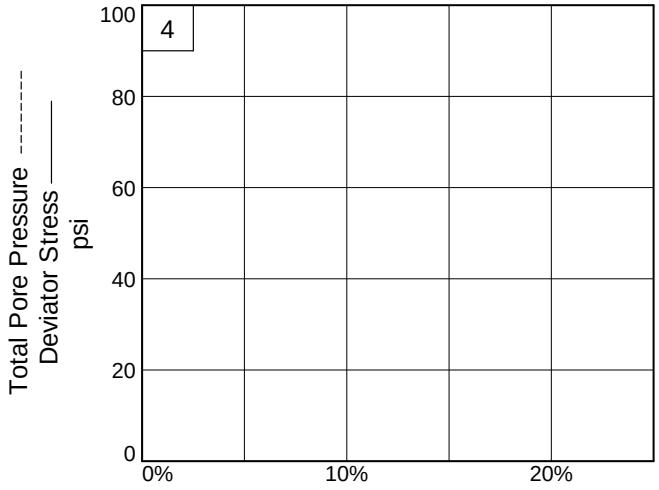
ENGINEERING ANALYTICS, INC.

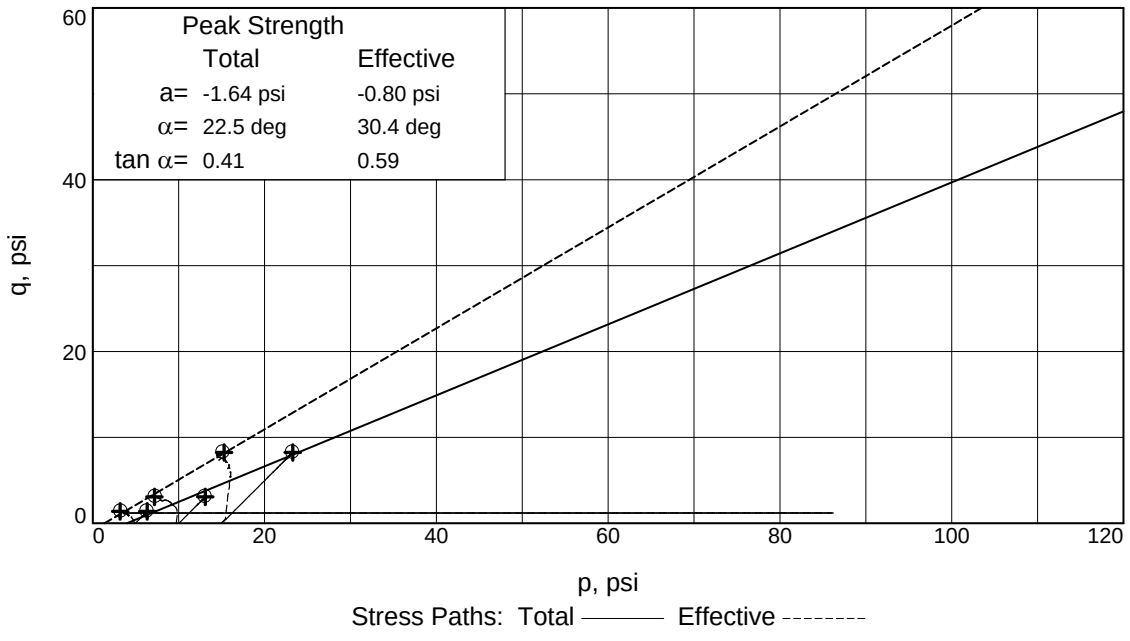
**Tested By:** AW **Checked By:** KG



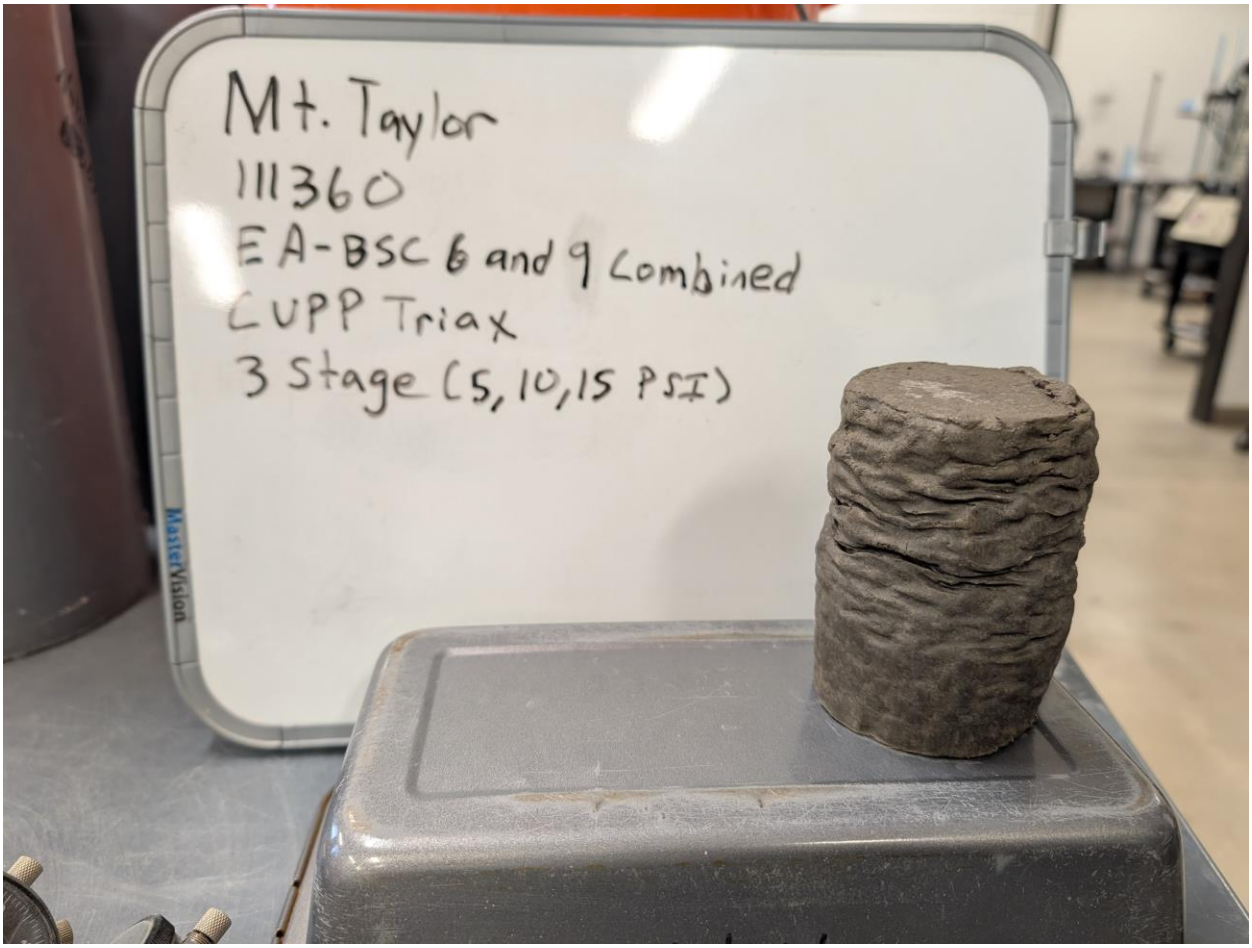




**Client:** Rio Grand Resources
**Project:** Mt.Taylor
**Source of Sample:** EA-BSC06/09 Combined
**Project No.:** 111360

**Figure** _____

**ENGINEERING ANALYTICS, INC.**

**Tested By:** AW **Checked By:** KG


Mt. Taylor
111360
EA-BSC 6 and 9 Combined
CUPP Triax
3 Stage (5, 10, 15 PSI)
MasterVision

# APPENDIX C
# Seismic Hazard Analysis – Mt. Taylor

# Seismic Hazard Analysis

# Mt. Taylor Mine

# Existing Mine Permit No. C1002RE

*Prepared for:*

**Rio Grande Resources**

*P.O. Box 1150*

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*Prepared by:*

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Project No. 111360

November 26, 2025

# TABLE OF CONTENTS

**1.0 INTRODUCTION ..... 1**
**2.0 GEOLOGIC SETTING ..... 2**
2.1 Regional Physiographic and Tectonic Setting ..... 2
2.2 Site Geology ..... 3
**3.0 SEISMICITY ..... 4**
**4.0 SEISMIC HAZARD ANALYSIS ..... 5**
4.1 Seismic Sources ..... 5
4.1.1 Faults ..... 5
4.1.2 Background Event ..... 6
*4.1.2.1 Background Event in Deterministic Analyses ..... 6*
*4.1.2.2 Background Event in Probabilistic Analyses ..... 6*
4.2 Attenuation Relations ..... 7
4.2.1 Depth to Shear Wave Velocity of 1,000 m/s ..... 7
4.2.2 Depth to Shear Wave Velocity of 2,500 m/s ..... 7
4.2.3 Average Shear Wave Velocity for Upper 30 Meters ..... 8
4.3 Deterministic Analysis ..... 8
4.4 Probabilistic Analysis ..... 8
**5.0 RESULTS AND CONCLUSIONS ..... 10**
**6.0 LIMITATIONS ..... 11**
**7.0 REFERENCES ..... 12**

## LIST OF TABLES

Table 4-1 Minimum Criteria for Faults Considered in Seismic Investigation (NRC 10 CFR Appendix A to Part 100)

Table 4-2 National Earthquake Hazards Reduction Program (NEHRP) Site Class Definitions

Table 4-3 Hazard Contribution to Total Mean Hazard for 10,000-year Return Period, Probabilistic Analysis

## LIST OF FIGURES

Figure 1-1 Project Location

Figure 3-1 Historic Earthquakes with Magnitude Greater than 4.0 within 300 Kilometers of the Facility

Figure 3-2 Historic Earthquakes with Magnitude Greater than 2.4 within 100 Kilometers of the Facility

Figure 4-1 Faults with Quaternary Displacement within 300 Kilometers of the Facility

Figure 4-2 Faults with Quaternary Displacement that meet the NRC Minimum Criteria within 100 Kilometers of the Facility

Figure 4-3 Total Seismic Hazard Curve

Figure 4-4 Source Contribution to Total Seismic Hazard

## LIST OF APPENDICES

Appendix A Earthquake Events near the Facility

A.1 Earthquake Events with Magnitude Greater Than or Equal to 4.0 Occurring Within 300 Kilometers of the Facility

A.2 Earthquake Events with Magnitude Greater Than or Equal to 2.4 Occurring Within 100 Kilometers of the Facility

Appendix B Faults with Quaternary Displacement near the Facility

B.1 List of Faults within 100 Kilometers of the Facility that meet NRC Minimum Criteria

B.2 USGS Description of Faults Meeting the NRC Minimum Criteria

Appendix C Deterministic Analyses

C.1 Deterministic EZ-Frisk Software Input

C.2 Deterministic Results

Appendix D Probabilistic Analyses

D.1 Summary of Probabilistic Characteristics

D.2 Probabilistic EZ-Frisk Software Input

D.3 Probabilistic Results

# 1.0 INTRODUCTION

Engineering Analytics, Inc. (EA) has prepared this report to present the results of a seismic hazard analysis conducted for the Mt. Taylor Uranium Mine (Facility). This seismic hazard analysis has been prepared to characterize the peak horizontal ground acceleration (PGA) for use in stability analyses for the Facility. The seismic hazard was determined for the 10,000-year return period.

The Mt Taylor Uranium Mine is located just northeast of the town of San Mateo in Cibola County, New Mexico. The site is shown on Figure 1-1. For the purposes of these analyses, EA used a central location with coordinates of 35.3409°N latitude and 107.6353°W longitude.

# 2.0 GEOLOGIC SETTING

## 2.1 Regional Physiographic and Tectonic Setting

The Facility is located within the Colorado Plateau physiographic province in northwestern New Mexico. The Colorado Plateau is a broad, roughly circular region of relative structural stability within a more structurally active region of disturbed mountain systems. Broad basins and uplifts, monoclines, and belts of anticlines and synclines are characteristic of the plateau (Kelley, 1979). Igneous intrusions have formed several mountains. However, most of the topographic relief in the Colorado Plateau is the result of erosion of deep canyons rather than upstanding mountain ranges (Thornbury, 1965). According to the New Mexico Bureau of Geology and Mineral Resources (2025):

> *The Colorado Plateau in New Mexico includes the San Juan Basin, a major source of oil, gas, coal, and uranium for our state. The northwest-trending Zuni Mountains form the southwestern margin of the San Juan Basin. Both the San Juan Basin and the Zuni Mountains are broad downwarps and upwarps that formed during regional-scale compression about 75 million years ago during the Laramide orogeny (e.g., Cather, 2004). The southeast margin of the Colorado Plateau is covered by <5 million year-old volcanic rocks that erupted along the Jemez lineament, a northeast-trending zone of weakness that likely developed about 1.6 billion years ago as the North American continent was forming.*

The site is located at the base of the Mt Taylor Volcanic Field. Mount Taylor is an extinct composite stratovolcano that is part of the greater Mount Taylor–Mesa Chivato volcanic field (Hunt, 1938; Crumpler, 1980a, b). According to the New Mexico Bureau of Geology and Mineral Resources (2025):

> *Mount Taylor volcano, a prominent landmark that can be seen on the skyline west of Albuquerque, is located about 15 miles northwest of the town of Grants, New Mexico. Mount Taylor Peak, at an elevation of 11,301 feet, stands approximately one mile above the Rio San Jose 12 miles to the south (Hunt, 1938). Mount Taylor volcano is part of a larger, northeast-trending volcanic field that includes Mesa Chivato, a broad plateau located northeast of the cone, and Grants Ridge (Keating and Valentine, 1998; WoldeGabriel et al., 1999), located southwest of the cone. Basalt that caps Mesa Chivato and other mesas surrounding Mount Taylor makes up about 80% of the volume of the volcanic field (Perry et al., 1990). The Mount Taylor volcanic field lies on the southern flank of the San Juan Basin on the Colorado Plateau and straddles the extensional transition zone between the Colorado Plateau and the Rio Grande rift. The Mount Taylor volcanic field is considered to be part of the Jemez Lineament, a zone of young (< 5 million years old) volcanism aligned along an ancient suture in the 1.7 to 1.6 billion year old Proterozoic basement (Mayo, 1958, Laughlin et al., 1976; Lipman and Moench, 1972; Perry et al., 1990).*

Seismicity in the Mt Taylor Volcanic Field is generally low and is linked to regional tectonic activity rather than active volcanism. This seismic activity is influenced by geological features such as the Jemez Lineament and the Rio Grande Rift (Goff et. al., 2021). The adjacent Rio Grande Rift physiographic province is characterized as having low to moderate seismic activity.

## 2.2 Site Geology

The geologic map by McCraw et. al. (2009) indicates that the Facility is underlain by Quaternary-aged stream and valley slope alluvium overlying the Cretaceous-aged Menefee Formation. The alluvium is described as unconsolidated to partly consolidated, well-sorted, fine-grained sand, silty sand, and clay with a thickness 1 to 3 meters (McCraw et. al., 2009). The Menefee Formation is described as interbedded shales, siltstones, fine to medium grained sandstones, mudstones, and thin coals that generally form low-relief topography or forms landslides around the margins of the basalt-capped La Jara Mesa. The top of the unit is not exposed, but a minimum thickness is at least 90 meters (McCraw et. al., 2009).

## 3.0 SEISMICITY

NRC NUREG-6372 recommends that seismic sources within 300 kilometers be characterized for a site. The publication states that the distance for detailed source characterization for a site that contains a fault within 50 kilometers of the site is 100 kilometers. Therefore, this seismic hazard analysis for the Facility included a review of historic earthquakes which have occurred within 300 kilometers of the Facility and detailed review of the earthquakes within 100 kilometers. This earthquake record, which contains earthquakes from 1568 to 2025, provides a general overview of the seismicity in the study area. Our final search and review of earthquake activity took place on August 27, 2025; therefore, any earthquakes occurring after this date are not included in the analysis.

Catalogs from the USGS NSHMP for 2023 for the Western United States (WUS) and Central and Eastern United States (CEUS) (Peterson et. al., 2023) were reviewed to compile information on the historic earthquakes. These catalogs, compiled by the USGS for their study, included removal of duplicate events as well as aftershocks and foreshocks related to the primary earthquake events in order to obtain a catalog of independent events (Mueller, 2019 and Llenos, 2023). EA used the catalogs declustered with Reasenberg (1985; r85). The database includes historic seismic events over the period from 1568 through 2022. The WUS catalog contained 40 earthquakes in the 300-kilometer study area and the CEUS catalog contained no earthquakes. The catalogs were supplemented with events occurring between January 2023 and August 2025 by searching the National Earthquake Information Center (NEIC) database, also maintained by the USGS. This supplemental search resulted in no additional earthquakes. The catalog searches were limited to events with moment magnitude (Mw) greater than or equal to 4.0. A total of 40 events are included in the record for the 300-kilometer search as shown on Figure 3-1 and tabulated in Appendix A.1.

The earthquakes generally have small magnitudes with only 5 of the earthquakes having a magnitude greater than 5.0. Figure 3-1 shows that many of the earthquakes occur in the more seismically active Rio Grande Rift area to the east of the Facility. The largest event is estimated in the WUS catalog to have an Mw of 5.9. This event occurred west of San Antonio, New Mexico on July 16, 1906. The epicenter is approximately 160 kilometers southeast of the Facility, within the Rio Grande Rift. The event closest to the Facility had an epicenter about 13 kilometers southwest of the Facility. This earthquake, which occurred on December 24, 1973, had an Mw of 4.08.

In addition to the evaluation of significant earthquakes (Mw>4) as described above, a search of low magnitude events (Mw>2.4) within 100 kilometers of the Facility was also conducted. These events are shown in Figure 3-2 and are tabulated in Appendix A.2. The figure shows that the earthquake activity within a 100-kilometer radius of the site is diffuse. The earthquake record contained 15 earthquakes from the WUS catalog and 9 earthquakes from the NEIC catalog, the majority of which are low magnitude. A review of the historic seismicity confirms that this area has seen fairly low seismic activity.

# 4.0 SEISMIC HAZARD ANALYSIS

Seismic hazard analyses are typically conducted using one of two methods: (1) deterministic analysis or (2) probabilistic analysis. A deterministic seismic hazard analysis (DSHA) estimates the maximum ground motion that could occur at a specific location considering specific earthquake sources. It does not take into account the likelihood of occurrence. A probabilistic seismic hazard analysis (PSHA) estimates the likelihood that various levels of ground motion will be exceeded at a specific location over a given time. Both analyses were conducted for this seismic study as discussed below. EA used the deterministic analyses to aid in the probabilistic analyses. The final recommended PGA for the Facility was derived using probabilistic analyses for the 10,000-year return period. The seismic sources and attenuation equations used for this seismic hazard analysis are also discussed below, followed by the results of the deterministic and probabilistic analyses.

## 4.1 Seismic Sources

### 4.1.1 Faults

The existence and location of faults with Quaternary displacement were primarily identified using the USGS Quaternary Fault and Fold database (USGS et. al., 2025). A "capable fault" is defined by the Nuclear Regulatory Commission (NRC) in 10 CFR Appendix A to Part 100 – Seismic and Geologic Siting Criteria for Nuclear Power Plants – as a fault that has exhibited one or more of the following characteristics:

1. *Movement at or near the ground surface at least once within the past 35,000 years or movement of a recurring nature within the past 500,000 years.*

2. *Macro-seismicity (magnitude 3.5 or greater) instrumentally determined with records of sufficient precision to demonstrate a direct relationship with the fault.*

3. *A structural relationship to a capable fault according to characteristics (1) or (2) above such that movement on one could be reasonably expected to be accompanied by movement on the other.*

The faults from the Quaternary fault and fold database within 300 kilometers of the Facility are shown on Figure 4-1. Capable faults must also meet the minimum criteria for fault length and distance from the Facility, as defined by NRC 10 CFR Appendix A to Part 100, and included in Table 4-1 in this report. A fault that is deemed capable by the criteria listed above, but does not meet the minimum criteria provided in Table 4-1, does not need to be considered in the seismic hazard analysis. For the detailed analysis, the faults within 100 kilometers of the Facility that met these criteria are shown on Figure 4-2. A tabulated list of the faults is included in Appendix B.1.

All faults meeting the requirements outlined in Table 4-1 were considered in this seismic study. This is a conservative approach because although the NRC defines a "capable fault" as one having *"movement at or near the ground surface at least once within the past 35,000 years or movement of a recurring nature within the past 500,000 years,"* including all identifiable faults with Quaternary displacement would include fault movement over the past 1.6 million years. This was done because sufficient information does not exist for many of the faults with

Quaternary displacement as to the timing of the last movement of the fault.

The USGS separates the faults with Quaternary displacement into classes. These classes are provided below, as described by USGS.

- For a Class A fault, geologic evidence demonstrates the existence of a Quaternary fault of tectonic origin, whether the fault is exposed by mapping or inferred from liquefaction or other deformational features.
- For a Class B fault, geologic evidence demonstrates the existence of Quaternary deformation, but either 1) the fault might not extend deeply enough to be a potential source of significant earthquakes, or 2) the currently available geologic evidence is too strong to confidently assign the feature to Class C but not strong enough to assign it to Class A.
- For a Class C fault, geologic evidence is insufficient to demonstrate 1) the existence of tectonic faulting, or 2) Quaternary slip or deformation associated with the feature.
- For a Class D fault, geologic evidence demonstrates that the feature is not a tectonic fault or feature; this category includes features such as joints, landslides, erosional or fluvial scarps, or other landforms resembling fault scarps but of demonstrable non-tectonic origin.

The faults with Quaternary displacement included in this analysis are either Class A or B. Descriptions from the USGS of the faults included in this analysis, are included in Appendix B.2.

### 4.1.2 Background Event

Earthquakes sometimes occur that are not associated with a known geologic structure. These events are termed "background events" or "floating earthquakes." Evaluation of background events allows for potential low to moderate earthquakes unassociated with tectonic structures to be considered in the seismic hazard of the Facility. The maximum magnitude for these background events within the Intermountain United States ranges between local magnitude ($M_L$) 6.0 and 6.5 (Woodward-Clyde, 1996). Larger earthquakes would be expected to leave a detectable surface expression, especially in arid to semiarid climates, with slow erosion rates and limited vegetation. In seismically less active areas such as the Colorado Plateau, the maximum magnitude associated with a background event is assumed to be 6.3, consistent with that used in seismic evaluations performed for uranium tailing sites in Green River (DOE 1991a, pg. 26), and Grand Junction (DOE 1991b, pg. 71).

#### *4.1.2.1 Background Event in Deterministic Analyses*

Background or floating earthquakes are typically evaluated deterministically by placing the largest earthquake that can be assumed to occur unassociated with a known fault, at a distance of 15 kilometers from the project location.

#### *4.1.2.2 Background Event in Probabilistic Analyses*

For probabilistic analyses, the hazard from background earthquakes is typically assessed using two approaches. The first approach uses areal source zones and assumes a uniformly distributed seismicity within the zone. The second approach uses gridded seismicity which

retains a degree of stationarity using 0.1-degree latitude and longitude grid spacing, as used by USGS for the NSHMP. Due to the fact that the historic seismic record within 100 km of the Facility contains a small number of earthquakes, determination of recurrence intervals for a site-specific areal source zone was not completed. EA used the 2014 gridded source zone for the CEUS and the 2014 shallow extensional gridded source zone for the WUS in our analyses.

## 4.2 Attenuation Relations

Attenuation of ground motions from the location of a seismic event to the site was calculated using attenuation relations. Due to the absence of abundant strong ground motion records, no specific attenuation relation exists solely for New Mexico. Therefore, we have used ground motion models (GMMs) appropriate for tectonically active crustal regions. The crustal GMMs that were used were developed as part of the NGA-West2 Project sponsored by the Pacific Earthquake Engineering Research (PEER) Center Lifelines Program. These models are also used by the USGS in developing the U.S. National Seismic Hazard Maps. EA used four of the five NGA-West2 GMMs in the analyses: Chiou and Youngs (2014), Campbell and Bozorgnia (2014), Abrahamson and others (2014), and Boore and others (2014). Idriss (2014) was not included due to its lack of a hanging wall model.

Three parameters (depth to $V_s$ of 1000 m/s and 2,500 m/s and average $V_s30$) need to be specified in order to use the above attenuation equations. The three parameters are related to the shear wave velocity of the underlying soil and rock.

### 4.2.1 Depth to Shear Wave Velocity of 1,000 m/s

The National Earthquake Hazards Reduction Program (NEHRP, 2003) issued a publication which discusses site classification for seismic design. The publication listed the site classes and corresponding shear wave velocities. This information is summarized in Table 4-2.

The first parameter is the depth at which the shear wave velocity ($V_s$) of the soil reaches 1,000 meters per second (m/s) which is in the rock category as shown in Table 4-2. Based on previous subsurface investigation that EA has completed at the site along with the published site geology, this parameter was assumed to be 5 meters.

### 4.2.2 Depth to Shear Wave Velocity of 2,500 m/s

The next parameter is the depth at which shear wave velocity of the profile reaches 2,500 m/s (hard rock according to Table 4-2). EA was provided with a site geophysical scan for a draft pilot hole issued by Dames and Moore. The geophysical scan included a compressive wave velocity ($V_p$) profile. EA used the $V_p$ profile in determining the depth to 2,500 m/s for the shear wave velocity. The $V_p$ values needed to be converted to $V_s$ values. EA used a common equation to convert the $V_p$ values to $V_s$ values.

$$Vs = Vp\sqrt{\frac{1-2\nu}{2(1-\nu)}}$$

where:

$V_s$ = shear wave velocity
$V_p$ = compression wave velocity
$\nu$ = Poisson's ratio

The geophysical scan also included information on Poisson's ratio. Using that information and empirical correlations published in Bowles (1982) that indicate Poisson's ratios ranging from 0.1 to 0.4 for rock, EA used a Poisson's ratio of 0.27 for the calculations, which is generally consistent with the surficial and bedrock materials. The profile indicates the approximate average depth to a shear wave velocity of 2,500 m/s is 0.79 kilometers below the ground surface.

### 4.2.3 Average Shear Wave Velocity for Upper 30 Meters

The next parameter to be specified is the average shear wave velocity of the upper 30 meters ($V_s30$) of the original ground surface. EA estimated an average $V_p30$ velocity for the profile and converted that to $V_s30$ using the above equation. The resulting $V_s30$ for the profiles 30 meters below the Facility was calculated to be 1,200 m/s. This value is in the rock category according to Table 4-2.

## 4.3 Deterministic Analysis

A deterministic analysis was completed for the Facility in order to determine which faults from the USGS Quaternary fault and fold database have the potential to produce PGAs of 0.05g or greater and would need further evaluation in a probabilistic model. A PGA of 0.05g is commonly used as a threshold value to streamline probabilistic hazard analysis by excluding sources unlikely to cause significant seismic shaking. PGA values around 0.05g are often seen as the threshold below which the ground shaking is considered negligible for most engineering purposes. In deterministic analyses, the ground motions from the maximum credible earthquake (MCE) associated with capable faults are attenuated to the site.

The seismic sources considered for the deterministic analysis include the previously described faults listed in Appendix B.1. The MCE associated with each fault was calculated based on correlations between fault surface rupture length and earthquake magnitude as presented by Wells and Coppersmith (1994). The ground motions from the MCE associated with the faults were attenuated to the Facility using the attenuation relations described in Section 4.2. Typically, ground motions of median plus one standard deviation are reported in deterministic analyses. The PGA was calculated using EZ-FRISK Version: 8.11 (Risk Engineering, 2024). Input and the complete deterministic spectra from the EZ-FRISK analysis are included in Appendix C.1 and C.2, respectively. The inputs and results of the deterministic analyses are also summarized in a table in the beginning of Appendix C.2.

## 4.4 Probabilistic Analysis

A probabilistic analysis was performed for the Facility in order to evaluate the amount of risk associated with larger PGAs calculated by the deterministic analysis. In probabilistic analyses, ground motions and the associated probability of exceedance are estimated for background seismicity and for earthquakes on specific faults in order to evaluate the amount of risk associated with the PGA.

For the purpose of the seismic hazard evaluation, a 10,000-year return period is adopted for evaluating long-term stability. For the probabilistic analysis, faults that are included in the USGS Quaternary fault and fold database and have the potential to produce PGAs of 0.05g or greater (based on deterministic methods) were selected for further evaluation in the probabilistic model. These criteria resulted in the inclusion of the following 9 faults:

1. Intrabasin faults on the Llano de Albuquerque (2121);
2. Jemez-San Ysidro fault (Jemez and San Ysidro sections) (2029ab);
3. Jemez-San Ysidro fault (Calabacillas section) (2029c);
4. Mesa Prieta faults (1985);
5. Nacimiento fault (northern and southern sections) (2002ab);
6. Sand Hill fault zone (2039);
7. Santa Fe fault (2123);
8. unnamed faults near Albuquerque Volcanoes (2049);
9. unnamed faults of El Malpais lava field (2146);

As discussed above, EA also included the 2014 CEUS gridded source and the 2014 shallow extensional WUS gridded source in our analyses. The gridded seismicity retains a degree of stationarity using 0.1-degree latitude and longitude grid spacing, as used by USGS for the NSHMP.

The USGS descriptions included in Appendix B.2 were used to determine fault characteristics where possible. Uncertainties in the fault characteristics are incorporated into the probabilistic analysis by representing the possible scenarios with a weight value. Maximum magnitudes for the faults were estimated based upon the empirical relationship developed by Wells and Coppersmith (1994) for surface rupture length, with an uncertainty of 0.3 corresponding to the standard error in the Wells and Coppersmith (1994) relationship. The recurrence relationships for the faults were modeled using maximum magnitude recurrence models. Slip rates are used to characterize rates of fault activity. However, very limited data was available regarding slip rates, and the USGS Fault and Fold Database categorizes all the considered faults as simply having a slip-rate less than 0.2 mm per year. Slip rates were therefore modeled as being 0.02 mm per year, similar to rates of activity assigned to many faults of questionable Quaternary activity in the Rio Grande Rift area east of the Colorado Plateau (Wong et. al., 2004).

The EZ Frisk probabilistic input is included in Appendix D.2. Table 4-3 shows the seismic source contribution to the total mean hazard at a return period of 10,000 years (1E-4 annual percent exceedance). The total hazard curve is shown in Figure 4-3 and the source contribution is shown in Figure 4-4. The complete results of the probabilistic analyses are included in Appendix D.3.

## 5.0 RESULTS AND CONCLUSIONS

EA conducted deterministic and probabilistic analyses for the 10,000-year return period seismic events to support stability analyses for the Facility.

The deterministic analysis showed that the random earthquake produced the highest PGA for the Facility. EA determined that the random earthquake with an MCE of magnitude of 6.3, located 15.1 km from the site, produced a mean PGA of 0.09g. Additionally, the Mesa Prieta faults are the closest faults to the site (~47 kilometers) and EA determined a maximum credible earthquake (MCE) of magnitude 6.3 for this fault based on the Wells and Coppersmith (1994) relationship. The deterministic PGA determined for the Busted Boiler Fault was 0.03g.

The probabilistic analyses show that the hazard is controlled by the gridded seismicity. For the probabilistic analysis, EA calculated a mean PGA of 0.21g for the 10,000-year return period. These values should be used in slope stability and other technical analyses as appropriate for the site.

To confirm the validity of these values, EA ran a cross check using a USGS screening-level methodology. The USGS maintains a *"USGS Earthquake Hazard Toolbox"* that has web applications for computing hazards for the USGS National Seismic Hazard Models. EA used the 2023 model (accessed in November 2025) as a screening tool for this site, which calculated PGA of 0.37g for the 10,000-year return period. It is likely that the majority of the difference between the USGS and the site-specific PGA is a result of using different attenuation relationships. The USGS applied some attenuation relations developed for the CEUS. However, using attenuation relations that are specific to normal extensional faulting is appropriate for this area.

## 6.0 LIMITATIONS

The opinions and recommendations in this report are based on a reasonable degree of certainty. This report has been prepared based upon review of the reference documents, geological analyses, and our experience. The conclusions presented represent our best judgment based on the information available. Should additional information become available we should be allowed to review that information and modify our conclusions accordingly.

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# TABLES

**Table 4-1 Minimum Criteria for Faults Considered in Seismic Investigation (NRC 10 CFR Appendix A to Part 100)**

| **Distance from Facility (mi) (km)** | **Minimum length of fault to be considered (mi) (km)** |
|---|---|
| 0 – 20 (0-32) | 1 (1.6) |
| 20 – 50 (32.2-80.5) | 5 (8.0) |
| 50 – 100 (80.5-160.9) | 10 (16.1) |
| 100 – 150 (160.9-241.4) | 20 (32.2) |
| 150 – 200 (241.4-321.9) | 40 (64.4) |

Note: The numbers listed in parentheses are in kilometers.

**Table 4-2 National Earthquake Hazards Reduction Program (NEHRP) Site Class Definitions**

| **Soil Profile Type** | **Average Shear Wave Velocity to 30-meter Depth ($V_s$)** |
|---|---|
| A – Hard Rock | > 1500 m/s |
| B – Rock | $760 < v_s < 1500$ m/s |
| C – Very Dense Soil and Soft Rock | $360 < v_s < 760$ m/s |
| D – Stiff Soil Profile | $180 < v_s < 360$ m/s |
| E – Soft Soil Profile | < 180 m/s |

**Table 4-3 Hazard Contribution to Total Mean Hazard for 10,000-year Return Period, Probabilistic Analysis**

| Source Name | USGS Fault ID Number | Distance from Facility (km) | Peak Ground Acceleration (10,000-year return period) |
|---|---|---|---|
| USGS 2014 CEUS Gridded | --- | --- | 0.03 |
| USGS 2014 WUS Shallow Extensional Gridded | --- | --- | 0.21 |
| Total Hazard[1] | --- | --- | 0.21 |

Note: 1) The total hazard PGA is the PGA for a specific return period considering the sources all together. Refer to Figure 4-3 for a visual explanation of individual source PGAs and the total hazard for the Facility.

# FIGURES



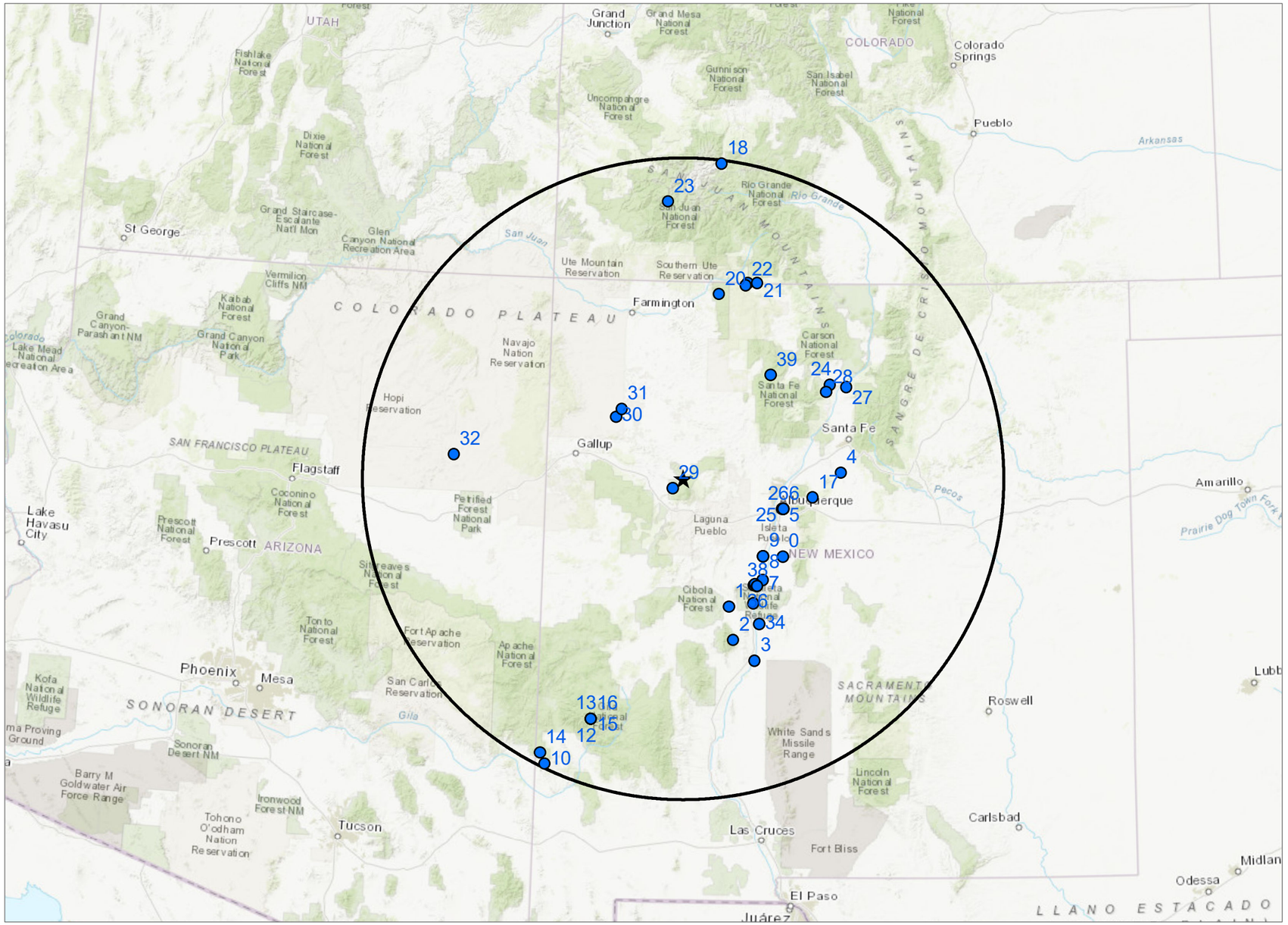

Project No. 111360

October 2025

Location used for Analysis

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**FIGURE 1-1**
**PROJECT LOCATION**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**




## LEGEND

- WUS Earthquakes
- ★ Mt Taylor Mine
- 300 Kilometers

Note: Earthquake number cooresponds to Appendix A.1 list of earthquakes

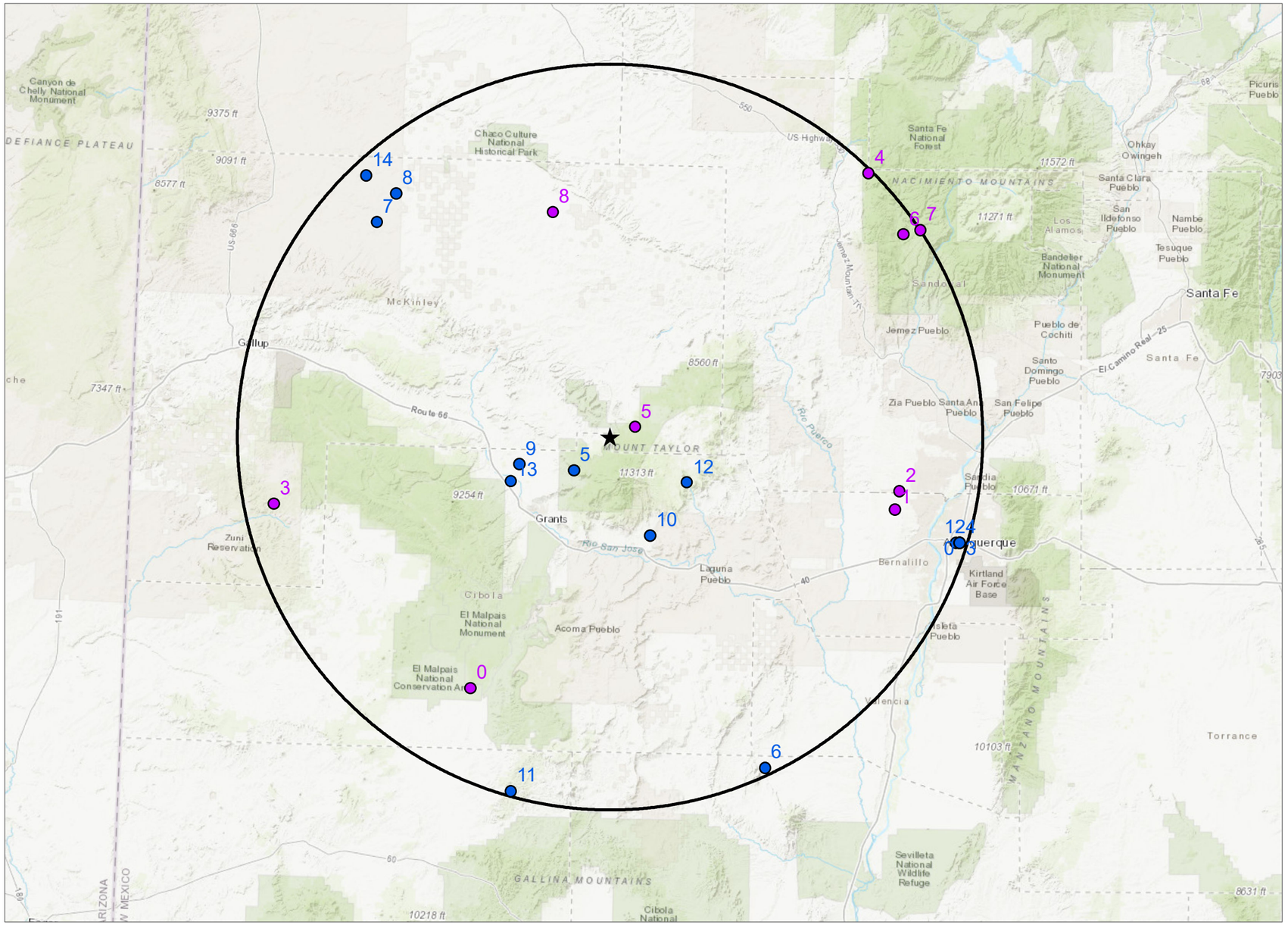
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October 2025

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**FIGURE 3-1**
**HISTORIC EARTHQUAKES WITH MAGNITUDE GREATER THAN 4.0 WITHIN 300 KILOMETERS OF THE FACILITY**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**




# LEGEND

- WUS Earthquakes
- NEIC Earthquakes
- ★ Mt Taylor
- 300 Kilometers

Note: Earthquake number cooresponds to Appendix A.2 list of earthquakes

0 12.5 25 50
Kilometers

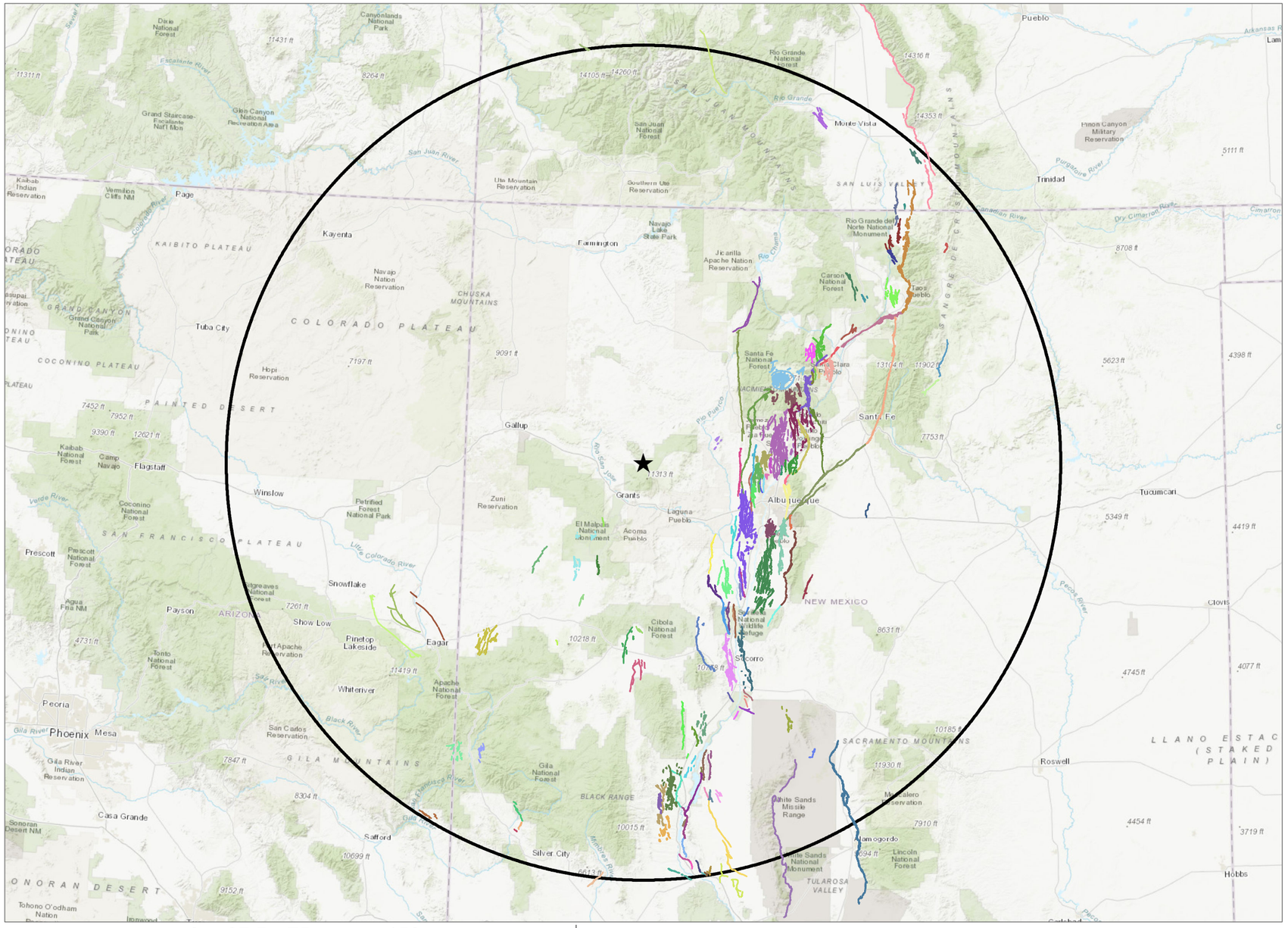
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Project No: 111360

October 2025

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**FIGURE 3-2**
**HISTORIC EARTHQUAKES WITH MAGNITUDE GREATER THAN 2.4 WITHIN 100 KILOMETERS OF THE FACILITY**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**




## LEGEND

★ Mt Taylor Mine

**Quaternary Faults**

300 Kilometers

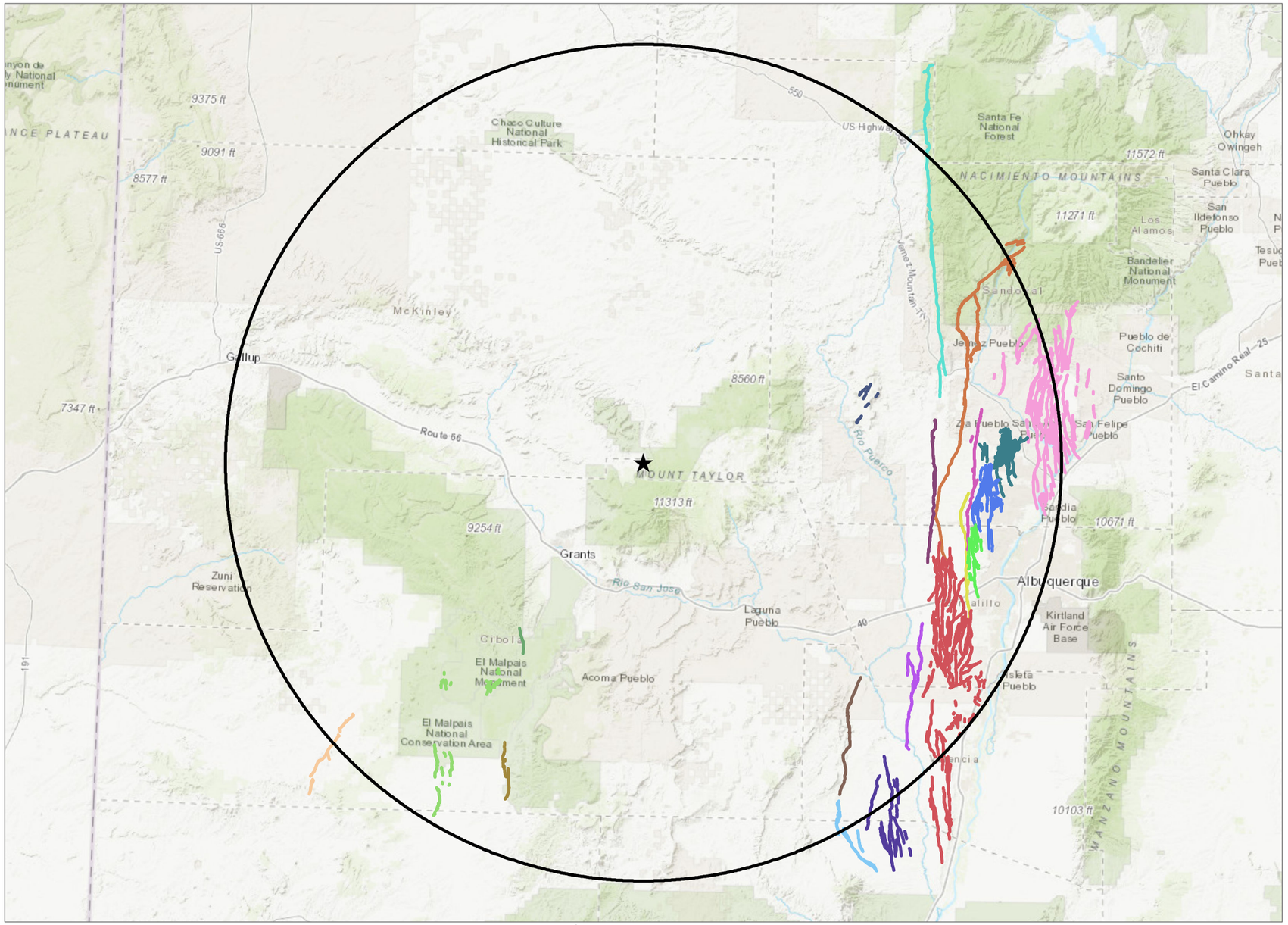
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October 2025

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**FIGURE 4-1**
**FAULTS WITH QUATERNARY DISPLACEMENT WITHIN 300 KILOMETERS OF THE FACILITY**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**




**LEGEND**

- Mt Taylor Mine
- 100 Kilometers

**Fault Name**

- Cat Mesa fault
- Cebollita Mesa fault
- Continental Divide fault
- County Dump fault
- Coyote Springs fault
- Intrabasin faults on the Llano de Albuquerque
- Jemez-San Ysidro fault
- Mesa Prieta faults
- Nacimiento fault
- San Felipe fault zone
- Sand Hill fault zone
- Santa Fe fault
- Zia fault
- unnamed fault of Bonita Canyon
- unnamed faults near Albuquerque Volcanoes
- unnamed faults near Picuda Peak
- unnamed faults near Star Heights
- unnamed faults of El Malpais lava field
- unnamed intrabasin faults west of the Rio Puerco

Note: Fault characteristics provided in Appendix B

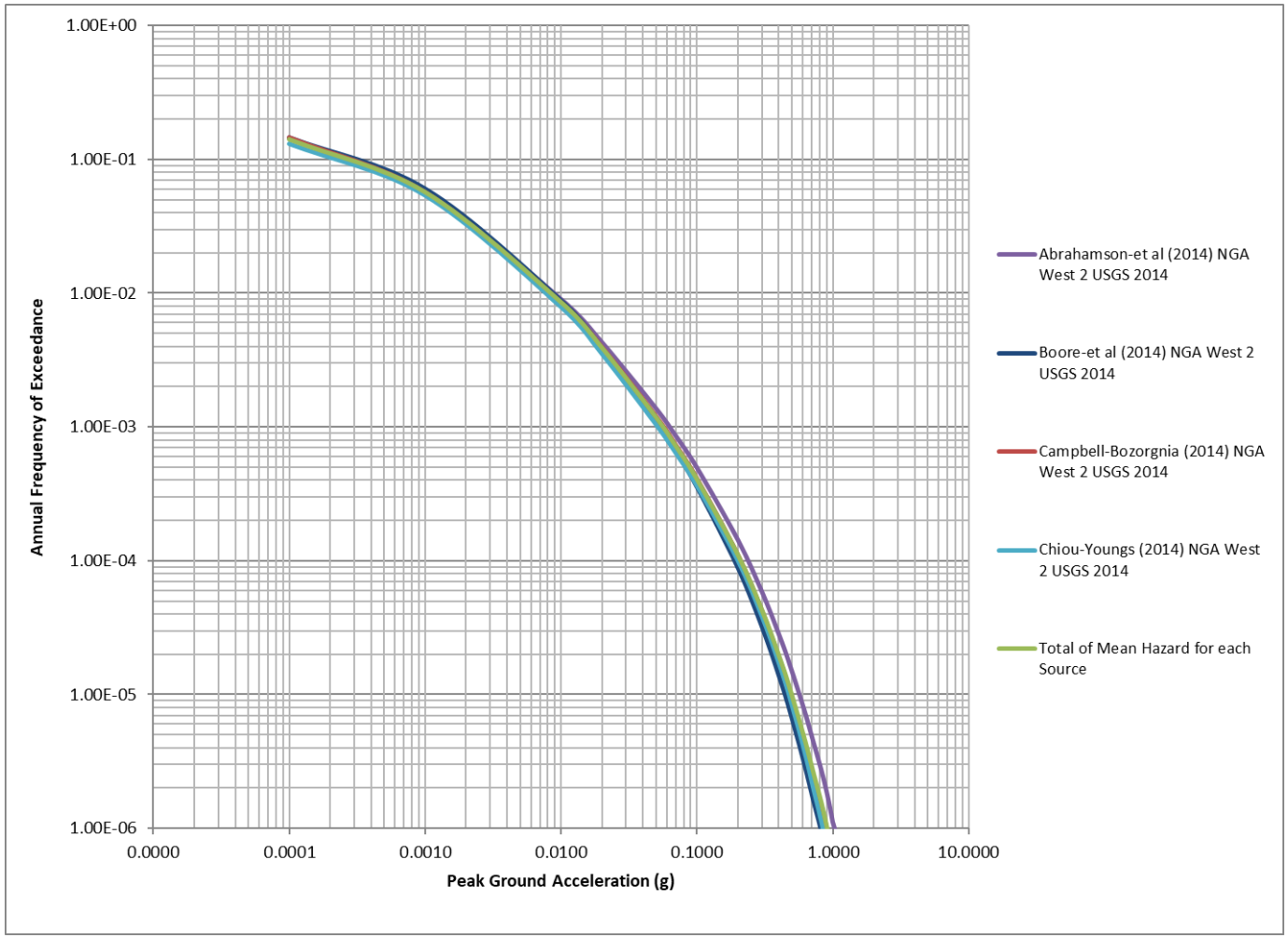
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Project No. 111360

October 2025

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**FIGURE 4-2**
**FAULTS WITH QUATERNARY DISPLACEMENT THAT MEET NRC MINIMUM CRITERIA WITHIN 100 KILOMETERS OF THE FACILITY**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**

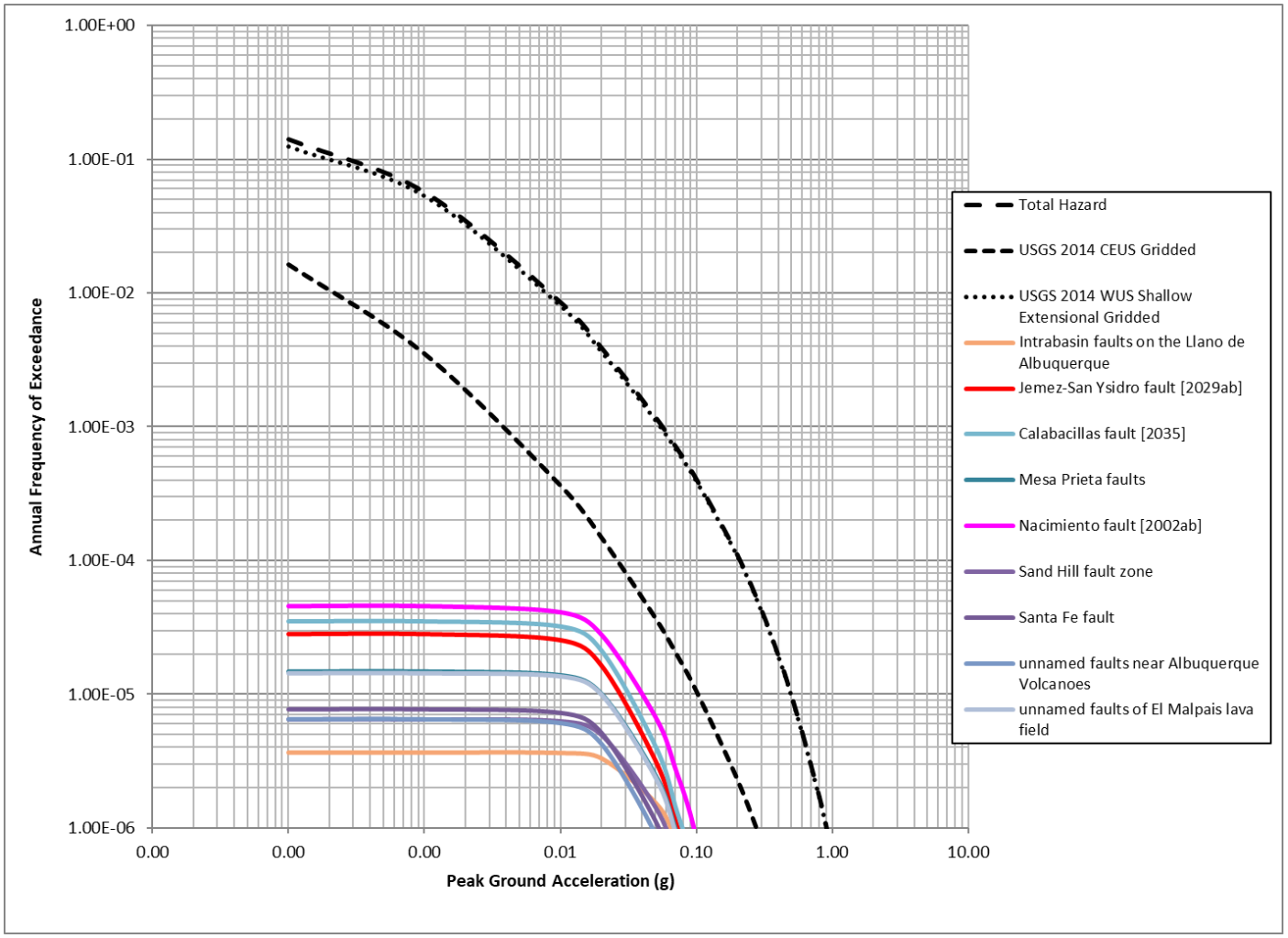



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October 2025

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**FIGURE 4-3**
**TOTAL SEISMIC HAZARD CURVE**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**




Project No. 111360

October 2025

Engineering Analytics, Inc.

**FIGURE 4-4**
**SOURCE CONTRIBUTION TO TOTAL SEISMIC HAZARD**
**SEISMIC HAZARD ANALYSIS**
**MT TAYLOR MINE**
**CIBOLA COUNTY, NEW MEXICO**

# APPENDIX A
# EARTHQUAKE EVENTS NEAR THE FACILITY

# APPENDIX A.1
# EARTHQUAKE EVENTS WITH MAGNITUDE GREATER THAN OR EQUAL TO 4.0 OCCURRING WITHIN 300 KILOMETERS OF THE FACILITY

**Appendix A.1 Earthquake Events with Magnitude Greater than or equal to 4.0 occurring within 300 kilometers of Mt Taylor**

Catalog: Western United States (WUS) Magnitude greater than or equal to 4.0

| Figure 3-2 ID | Magnitude (Mw) | Longitude (degree, west) | Latitude (degree, north) | Depth (km) | Year | Month | Day | Hour | Minute | Second |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5.2 | -106.6 | 34.7 | 0 | 1893 | 9 | 7 | 0 | 0 | 0 |
| 1 | 5.8 | -107.14 | 34.27 | 0 | 1906 | 7 | 12 | 12 | 15 | 0 |
| 2 | 5.9 | -107.09 | 33.99 | 0 | 1906 | 7 | 16 | 19 | 0 | 0 |
| 3 | 5.8 | -106.87 | 33.82 | 0 | 1906 | 11 | 15 | 12 | 15 | 0 |
| 4 | 4.7 | -106.01 | 35.41 | 0 | 1918 | 5 | 28 | 11 | 30 | 0 |
| 5 | 5 | -106.6 | 35.1 | 0 | 1930 | 12 | 3 | 21 | 36 | 0 |
| 6 | 5 | -106.6 | 35.1 | 0 | 1931 | 2 | 5 | 4 | 48 | 0 |
| 7 | 5 | -106.8 | 34.5 | 0 | 1935 | 2 | 21 | 1 | 25 | 0 |
| 8 | 5 | -106.8 | 34.7 | 0 | 1935 | 12 | 16 | 18 | 0 | 0 |
| 9 | 5 | -106.8 | 34.7 | 0 | 1935 | 12 | 20 | 10 | 30 | 0 |
| 10 | 4.1 | -108.95 | 32.91 | 0 | 1938 | 9 | 17 | 17 | 20 | 0 |
| 11 | 4.9 | -108.5 | 33.3 | 0 | 1938 | 9 | 17 | 17 | 20 | 17 |
| 12 | 4.3 | -108.5 | 33.3 | 0 | 1938 | 11 | 2 | 8 | 59 | 58 |
| 13 | 4.6 | -108.5 | 33.3 | 0 | 1938 | 11 | 27 | 0 | 12 | 39 |
| 14 | 5.5 | -109 | 33 | 0 | 1939 | 2 | 26 | 23 | 27 | 0 |
| 15 | 4.6 | -108.5 | 33.3 | 0 | 1939 | 6 | 4 | 1 | 19 | 10 |

# APPENDIX A.2
# EARTHQUAKE EVENTS WITH MAGNITUDE GREATER THAN OR EQUAL TO 2.4 OCCURRING WITHIN 100 KILOMETERS OF THE FACILITY

## Appendix A.2 Earthquake Events with Magnitude Greater than or equal to 2.4 occurring within 100 kilometers of Mt Taylor

Catalog: Western United States (WUS) Magnitude greater than or equal to 2.4

| Figure 3-2 ID | Magnitude (Mw) | Longitude (degree, west) | Latitude (degree, north) | Depth (km) | Year | Month | Day | Hour | Minute | Second |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5 | -106.6 | 35.1 | 0 | 1930 | 12 | 3 | 21 | 36 | 0 |
| 1 | 5 | -106.6 | 35.1 | 0 | 1931 | 2 | 5 | 4 | 48 | 0 |
| 2 | 4.5 | -106.61 | 35.1 | 0 | 1970 | 11 | 28 | 7 | 40 | 12 |
| 3 | 3.5 | -106.6 | 35.1 | 0 | 1971 | 1 | 4 | 7 | 39 | 7 |
| 4 | 4.7 | -106.6 | 35.1 | 0 | 1971 | 1 | 4 | 7 | 39 | 7 |
| 5 | 4.08 | -107.739 | 35.258 | 18 | 1973 | 12 | 24 | 2 | 20 | 15 |
| 6 | 3.4 | -107.16 | 34.55 | 0 | 1975 | 3 | 7 | 17 | 36 | 9 |
| 7 | 4.68 | -108.341 | 35.844 | 25 | 1976 | 1 | 5 | 6 | 23 | 33 |
| 8 | 4.28 | -108.286 | 35.915 | 22 | 1977 | 3 | 5 | 3 | 0 | 55 |
| 9 | 2.18 | -107.9 | 35.27 | 0 | 1981 | 8 | 14 | 2 | 6 | 57 |
| 10 | 2.68 | -107.51 | 35.105 | 5 | 2004 | 11 | 24 | 10 | 16 | 38 |
| 11 | 3.44 | -107.9 | 34.48 | 5 | 2009 | 9 | 23 | 13 | 3 | 14 |
| 12 | 3.5 | -107.405 | 35.235 | 5 | 2016 | 10 | 20 | 13 | 28 | 2 |
| 13 | 2.48 | -107.924 | 35.228 | 5 | 2019 | 8 | 10 | 4 | 16 | 45 |
| 14 | 2.78 | -108.377 | 35.956 | 5 | 2021 | 7 | 4 | 2 | 18 | 36 |

Catalog: National Earthquake Information Center (NEIC) Magnitude greater than or equal to 2.4

| Figure 3-2 ID | Magnitude | Longitude (degree, west) | Latitude (degree, north) | Depth (km) | Year | Month | Day | Hour | Minute | Second | Magnitude Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2.6 | -108.026 | 34.7261 | 7.989 | 2025 | 5 | 8 | 10 | 59 | 54 | ml |
| 1 | 3.2 | -106.7918 | 35.1777 | 5.000 | 2024 | 9 | 10 | 15 | 36 | 1 | ml |
| 2 | 3.5 | -106.7783 | 35.2227 | 6.244 | 2024 | 9 | 10 | 14 | 11 | 46 | ml |

# APPENDIX B
# FAULTS WITH QUATERNARY DISPLACEMENT NEAR THE FACILITY

# APPENDIX B.1
# LIST OF FAULTS WITHIN 100 KILOMETERS OF THE FACILITY THAT MEET NRC MINIMUM CRITERIA

## Appendix B.1 List of Faults within 100 Kilometers of the Site

| Name of Faults | ID Number | Age of Most Recent Prehistoric Deformation (ya)[1] | Slip-rate (mm/yr) | Fault Length (Km) | Fault Type | Distance from site to surface trace of fault (km) |
|---|---|---|---|---|---|---|
| Cat Mesa fault | 2122 | <750,000 | <0.2 | 20 | Normal | 75.9 |
| Cebollita Mesa fault | 2140 | <15,000 | <0.2 | 13 | Normal | 74.8 |
| Continental Divide fault | 2145 | <1,600,000 | <0.2 | 17 | Normal | 91.8 |
| County Dump fault | 2038 | <130,000 | <0.2 | 35 | Normal | 76.5 |
| Coyote Springs fault | 2114 | <15,000 | <0.2 | 17 | Normal | 93.4 |
| Intrabasin faults on the Llano de Albuquerque | 2121 | <750,000 | <0.2 | 101 | Normal | 66.7 |
| Jemez-San Ysidro fault (Jemez section) | 2029a | <1,600,000 | <0.2 | 28 | Normal | 77.3 |
| Jemez-San Ysidro fault (San Ysidro section) | 2029b | <750,000 | <0.2 | 34 | Normal | 77.3 |
| Jemez-San Ysidro fault (Calabacillas section) | 2029c | <15,000 | <0.2 | 34 | Normal | 70.5 |
| Mesa Prieta faults | 1985 | <1,600,000 | <0.2 | 12 | Normal | 47.1 |
| Nacimiento fault (northern section) | 2002a | <1,600,000 | <0.2 | 36 | Normal | 72.3 |
| Nacimiento fault (southern section) | 2002b | <750,000 | <0.2 | 45 | Normal | 72.3 |
| San Felipe fault zone (Santa Ana section) | 2030a | <1,600,000 | <0.2 | 44 | Normal | 93.2 |
| San Felipe fault zone (Algodones section) | 2030b | <1,600,000 | <0.2 | 45 | Normal | 93.3 |
| Sand Hill fault zone | 2039 | <1,600,000 | <0.2 | 36 | Normal | 62.2 |
| Santa Fe fault | 2123 | <1,600,000 | <0.2 | 30 | Normal | 67.8 |
| unnamed fault of Bonita Canyon | 2144 | <1,600,000 | <0.2 | 9 | Normal | 49.3 |
| unnamed faults near Albuquerque Volcanoes | 2049 | <750,000 | <0.2 | 34 | Normal | 73.6 |
| unnamed faults near Picuda Peak | 2041 | <1,600,000 | <0.2 | 16 | Normal | 78.8 |
| unnamed faults near Star Heights | 2048 | <750,000 | <0.2 | 18 | Normal | 78.6 |
| unnamed faults of El Malpais lava field | 2146 | <1,600,000 | <0.2 | 26 | Normal | 60.5 |
| unnamed intrabasin faults west of the Rio Puerco | 2115 | <750,000 | <0.2 | 22 | Normal | 87.3 |
| Zia fault | 2046 | <15,000 | <0.2 | 32 | Normal | 73.7 |
| | | | | | | |

[1]ya = years ago

# APPENDIX B.2
# USGS DESCRIPTION OF FAULTS MEETING THE NRC MINIMUM CRITERIA

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Cat Mesa fault (Class A) No. 2122

**Last Review Date: 2016-04-11**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2122, Cat Mesa fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:16 AM.**

| | |
|---|---|
| **Synopsis** | The active trace of the Cat Mesa fault extends from south of New Mexico State Highway 6 (west of Los Lunas) northward along the eastern edge of Cat Mesa. At about its midpoint, the Cat Mesa fault splits into two north-trending splays that offset Upper Santa Fe Group sediment and die out near the western edge of the Llano de Albuquerque. The Cat Mesa fault(s) offsets and exposes the late Pliocene Cat Mesa basalt flow along the eastern edge of Cat Mesa. The Cat Mesa basalt flow is interbedded with the upper part of the upper Santa Fe Group, the Ceja Formation, 6–10 m below the Llano de Albuquerque, and is offset about 30 m near the middle of the fault. Early and middle Pleistocene surficial deposits are offset about 17 m (net) across the two fault strands near the northern end of the fault zone. The Cat Mesa fault lies to the west of the late Pleistocene basalts of the Cat Hills, but the Cat Mesa basalt flow may have originated from the volcanic fault and dike system that fed the younger Cat Hills basalt field. |
| **Name comments** | The Cat Mesa fault was originally mapped by Kelley (1954 #1222; 1977 #1106) and in more detail by Kelley and Kudo (1978 #1307). Minor modifications were made by Machette (1978 #1223; 1982 #1401), Machette and |

| | |
|---|---|
| | McGimsey (1983 #1024), Maldonado and Atencio (1998 #1778), and Maldonado (2003 #7453).<br><br>**Fault ID:** Fault no. 3 of Machette (1982 #1401), fault no. 2 of Machette and McGimsey (1983 #1024). |
| **County(s) and State(s)** | VALENCIA COUNTY, NEW MEXICO <br>BERNALILLO COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces from 1:24,000-scale geologic mapping in the Dalies NW and Rio Puerco 7.5-minute quadrangles (Maldonado and Atencio, 1998 #1778; Maldonado, 2003 #7453) combined with accurate placement of exposed traces using photogrammetric methods. <P> |
| **Geologic setting** | The Cat Mesa fault is an intrabasin fault near the western margin of the central Albuquerque-Belen basin. The Cat Mesa fault lies to the west of and does not offset the late Pleistocene basalts of the Cat Hills, but Kelley and Kudo (1978 #1307, fig. 20) inferred that the Cat Mesa basalt flow underlies and probably originated from the fault and dike system that fed the younger Cat Hills basalt field. Thus, the fault may be related to volcanic activity in the vicinity of the Cat Hills volcanic field. <P> |
| **Length (km)** | 20 km. |
| **Average strike** | N0°E |
| **Sense of movement** | Normal |
| **Dip Direction** | E; W<br><br>*Comments:* Maldonado and Atencio (1998 #1778) measured a dip of 80° toward the east-northeast where the Cat Mesa fault cuts sediment of the Ceja Formation. <P> |

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| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The Cat Mesa fault is well expressed where the resistant Cat Mesa basalt flow is exposed in the fault zone. Elsewhere, the fault strands are marked by broad swales on the largely sand-covered Llano de Albuquerque. Machette and McGimsey (1983 #1024) estimated that the Cat Mesa basalt flow is offset about 30 m near the middle of the fault. They also estimated a total of 17 m of offset in early and middle Pleistocene deposits across the two fault strands near the northern end of the fault zone. <P> |
| **Age of faulted surficial deposits** | The Cat Mesa fault offsets the Cat Mesa basalt flow, dated at 3.0±0.1 Ma by <sup>40</sup>Ar/<sup>39</sup>Ar (Maldonado and Atencio, 1998 #1778). The Cat Mesa basalt flow is interbedded with the upper part of the upper Santa Fe Group, the Pliocene-early Pleistocene Ceja Formation (Machette, 1978 #1223; Maldonado and Atencio, 1998 #1778; Maldonado, 2003 #7453), 6–10 m below the Llano de Albuquerque (Kelley and Kudo, 1978 #1307). The two fault strands near the northern end of the fault zone offset the early Pleistocene (?) Llano de Albuquerque (Machette and McGimsey, 1983 #1024). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* Machette and McGimsey (1983 #1024) documented offset of the early Pleistocene (?) Llano de Albuquerque. They also speculated that if the Cat Mesa fault is related to structures controlling the basalts of the Cat Hills volcanic field, then there may be late Pleistocene movement on the Cat Mesa fault. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* No detailed studies of fault offset or timing are available; low slip-rate category assigned based on evidence that the 3 Ma Cat Mesa basalt is offset about 30 m (Machette and McGimsey, 1983 #1024; Personius and others, 1999 #6930). |

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| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1222 Kelley, V.C., 1954, Tectonic map of a part of the upper Rio Grande area, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-157, 1 sheet, scale 1:190,080.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1307 Kelley, V.C., and Kudo, A.M., 1978, Volcanoes and related basalts of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 156, 29 p., 2 pls.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#1223 Machette, M.N., compiler, 1978, Preliminary geologic map of the Socorro 1° by 2° quadrangle, central New Mexico: U.S. Geological Survey Open-File Report 78-607, 1 sheet, scale 1:250,000.<br><br>#7453 Maldonado, F., 2003, Geologic map of the Rio Puerco quadrangle, Bernalillo and Valencia Counties, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2397, scale 1:24,000.<br><br>#1778 Maldonado, F., and Atencio, A., 1998, Preliminary geologic map of the Dalies northwest quadrangle, Bernalillo County, New Mexico: U.S. Geological Survey Open-File Report 97-741, 1 sheet, scale 1:24000.<br><br>#6930 Personius, S.F., Machette, M.N., and Kelson, K.I., 1999, Quaternary faults in the Albuquerque area—An update, in Pazzaglia, F.J., and Lucas, S.G., eds., Albuquerque geology: New Mexico Geological Society 50th Annual Field Conference, Guidebook, September 22–25, p. 189–200. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Cebollita Mesa fault (Class A) No. 2140

**Last Review Date: 2016-04-22**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Machette, M.N., and Jochems, A.P., compilers, 2016, Fault number 2140, Cebollita Mesa fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:18 AM.**

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| **Synopsis** | The Cebollita Mesa fault has seemingly young (<15 ka) movement, which is anomalous in the sense that there are few mapped Quaternary faults in this region, and in the Colorado Plateaus Province in general. However, field studies have shown that the fault has been recurrently active in the late Quaternary. Single-event scarps on the fault are about 2–2.5 m high, whereas older, late (?) Pleistocene, alluvium has compound (multiple-event) scarps as much as 8 m high. No dating has been conducted to refine the timing of last movement, slip rate, or recurrence interval for this down-to-the-west normal fault. |
| **Name comments** | This Quaternary fault was named by Levish and others (1992 #1715) for Cebollita Mesa, a Pliocene basalt-covered mesa located about 8 km east and northeast of the fault. The fault was first shown by Machette (1978 #1223) on the geologic map of the Socorro 1° x 2° quadrangle, but was overlooked by Machette and McGimsey (1983 #1024) in their later fault compilation. Maxwell (1986 #1720) made the first detailed geologic map that showed the fault, whereas Levish (1992 #1715) characterized its late Quaternary history as part of a dam hazards study. The fault is mapped for about 13 km across the toe slope of dissected Cretaceous bedrock hills. It extends from the north side |

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| | of Bonine Canyon on the south, north past Head Windmill and New Mexico State Highway 117. About 1 km north of the highway, the fault disappears beneath a young basalt flow. |
| **County(s) and State(s)** | CIBOLA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Trace from approximately 1:100,000-scale geologic map of Levish and others (1992 #1715) and 1:62,500-scale geologic map of Maxwell (1986 #1720) combined with accurate placement using photogrammetric methods. <P> |
| **Geologic setting** | The fault offsets the toe slope of dissected Cretaceous bedrock hills west of Cebollita Mesa. To the north, the fault disappears beneath a late Holocene basalt flow, but may continue further as suggested by as much as 300 m of down-to-the-west displacement on two normal faults imaged by shallow seismic-reflection profiling (Kelly and Reynolds, 1989 #1738). The Cebollita Mesa fault is subparallel to (but west of) similarly oriented normal faults that Maxwell (1986 #1720) maps as cutting Pliocene basalts of Cebollita Mesa. <P> |
| **Length (km)** | 13 km. |
| **Average strike** | N4°E |
| **Sense of movement** | Normal<br><br>*Comments:* As mapped by Maxwell (1986 #1720) and seen in natural exposures by Levish and others (1992 #1715). <P> |
| **Dip Direction** | W |

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| | *Comments:* Although not mentioned by Levish and others (1992 #1715), the faults exposed in natural exposure have high-angle (near vertical) dips near the surface (Dan Levish, oral commun., 1988). <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The fault forms a north-trending, left-stepping series of three en echelon scarps. Levish and others (1992 #1715) measured four scarp profiles: one (P-1) on the northern strand and three (P-2 to P-4) on the southern half of the southern strand. These profiles document single-event scarps of about 2.2–2.5 m height (1.9–2.0 m surface offset) and compound (multiple-event) scarps of about 6.0–8.5 m height (5.2–7.5 m surface offset). All four of the profiled scarps have modest maximum scarp-slope angles of 10–16°, but they are formed on relatively fine-grained, easily eroded sediment. Analysis of this data by Levish and others (1992 #1715) suggested that the younger scarps are late Pleistocene or Holocene in age, whereas as the larger scarps have morphology indicative of late Pleistocene movement. The scarp data suggests that the morphometric data from the younger scarps (P-3 and P-4) are similar to the Drum Mountains scarps (early Holocene) and the Bonneville shoreline (~17.5–18 ka). Conversely, the compound scarps have nearly identical maximum scarp-slope angles as the single-event scarps, suggesting that the steepness of all the scarps is controlled by the younger (<15 ka) event. <P> |
| **Age of faulted surficial deposits** | Maxwell (1986 #1720) mapped the faults as offsetting fine-grained Quaternary alluvium derived from Cretaceous sedimentary rock to the east. The smaller scarps are formed on alluvium of the lowest fluvial terrace, whereas the compound scarps are on alluvium that forms the next highest fluvial terrace. These deposits are likely to be latest or late Pleistocene in age (<130 ka). Levish and others (1992 #1715) reported that the scarps are locally muted (buried) by eolian sand. No studies or detailed mapping have been conducted to refine the age of the Quaternary sediment that are offset by the fault. To the north of New Mexico State Highway 117, the fault disappears beneath the McCartys basalt flow, which is estimated to be of late Holocene age, 2.4–3.9 ka (Laughlin and others, 1994 #7439; Maxwell, 1986 # 1720; Dunbar and Phillips, 2004 #7424). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | latest Quaternary (<15 ka)<br><br>*Comments:* Timing of most recent surface faulting based on scarp-morphology data (Levish and others, 1992 |

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| | #1715) that is consistent with the continuity of the scarps, and expression on the lowest of the fluvial terraces of local streams that cross the scarps. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* It appears that the slip rate probably falls in the less than 0.2 mm/yr category because the 1.9–2.0 m of offset from the most recent event was the result of strain accumulation over 15–120 k.y. |
| **Date and Compiler(s)** | 2016<br>Michael N. Machette, U.S. Geological Survey, Retired<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |

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| **References** | #7424 Dunbar, N.W., and Phillips, F.M., 2004, Cosmogenic <sup>36</sup>Cl ages of lava flows in the Zuni-Bandera volcanic field, north-central New Mexico, U.S.A., in Cather, S.M., McIntosh, W.C., and Kelley, S.A., eds., Tectonics, geochronology, and volcanism in the Southern Rocky Mountains and Rio Grande Rift: New Mexico Bureau of Geology and Mineral Resources Bulletin 160, p. 309–317.<br><br>#1738 Kelly, T.E., and Reynolds, C.B., 1989, Structural geology of the Malpais Valley, San Rafael, New Mexico, in Anderson, O.J., Lucas, S.G., Love, D.W., and Cather, S.M., eds., Southern Colorado Plateau: New Mexico Geological Society, 40th Field Conference, September 28-October 1, 1989, Guidebook, p. 119-121.<br><br>#7439 Laughlin, A.W., Poths, J., Healey, H.A., Reneau, S., and WoldeGabriel, G., 1994, Dating of Quaternary basalts using the cosmogenic <sup>3</sup>He and <sup>14</sup>C methods with implications for excess <sup>40</sup>Ar: Geology, v. 22, p. 135–138.<br><br>#1715 Levish, D.R., Vetter, U.R., Ake, J.P., and Piety, L.A., 1992, Seismotectonic study for Black Rock Dam, Bureau of Indian Affairs, Pueblo of Zuni, New Mexico: Bureau of Reclamation Seismotectonic Report 92-3, 62 p.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#1223 Machette, M.N., compiler, 1978, Preliminary geologic map of the Socorro 1° by 2° quadrangle, central New Mexico: U.S. Geological Survey Open-File Report 78-607, 1 sheet, scale 1:250,000.<br><br>#1720 Maxwell, C.H., 1986, Geologic map of El Malpais Lava Field and surrounding areas, Cibola County, New Mexico: U.S. Geological Survey Miscellaneous Investigations Map I-1595, 1 sheet, scale 1:62,500. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## Continental Divide fault (Class B) No. 2145

**Last Review Date: 2016-04-22**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Machette, M.N., and Jochems, A.P., compilers, 2016, Fault number 2145, Continental Divide fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:19 AM.**

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| **Synopsis** | Little is known about this northeast-trending suspect fault; it reportedly forms a low but prominent scarp on Quaternary basalts of the North Plains lava field. The trend of the feature is parallel to a string of eruptive basalt cones that occupy the center of the field, which suggests that movement on the fault may be controlled by volcanism and deeper-seated crustal structures. No detailed studies have been conducted to determine the timing of movement or amount of offset of the basalt. Some authors have suggested that the scarp may be the result of volcanic processes, but its association with a mapped bedrock fault supports an interpretation of a tectonic origin. |
| **Name comments** | This suspect fault extends along the Continental Divide from about 3 km south of New Mexico State Highway 36 to 5 km north of Peñasco Lakes. Although unnamed by Anderson (1986 #1281), who first mapped it, Levish and others (1992 #1715) named it for its near coincidence with the Continental Divide. |

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| **County(s) and State(s)** | CIBOLA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Trace from 1:100,000-scale geologic map of the Fence Lake quadrangle compiled by Anderson (1986 #1281) and 1:24,000-scale geologic map of the Techado 7.5' quadrangle (Arkell, 1984 #7422) combined with accurate placement using photogrammetric methods. <P> |
| **Geologic setting** | This northeast-trending feature appears to offset the southern part of the North Plains lava field and is parallel to eruptive basalt cones that occupy the center of the field. These cones mark the southwestern trace of the Jemez lineament, which is one of many northeast-trending crustal structures that control the location of young volcanism within and outside of the northern Rio Grande rift in New Mexico. The southern end of the feature is mapped as cutting the Miocene (?) Fence Lake Formation (Anderson, 1986 #1281). If this association is not a spatial coincidence, it would support a tectonic origin. <P> |
| **Length (km)** | 17 km. |
| **Average strike** | N20°E |
| **Sense of movement** | Normal<br><br>*Comments:* As reported by Anderson (1986 #1281). <P> |
| **Dip Direction** | SE<br><br>*Comments:* Although no dips are reported, the general direction is inferred from a southeast-facing escarpment. <P> |

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| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | Fault forms a scarp of 2–3 m height (Orin Anderson, written commun., 1997) on basalts of the North Plains lava field. Levish and others (1992 #1715) argued that the scalloped appearance of the escarpment suggests it is a volcanic flow margin and not a fault. <P> |
| **Age of faulted surficial deposits** | This feature appears to offset Quaternary basalts according to Anderson (1986 #1281). The Jaralosa Draw lobe (flow), which extends west from the North Plains lava field and has also been called the Fence Lake flow, has a K-Ar age of 1.38±0.29 Ma (Laughlin and West, 1976 #7420). Other basalt flows in the North Plains field have returned Ar-Ar ages of approximately 0.6-0.7 Ma (Laughlin and others, 1993 #7421), consistent with the seemingly young appearance of cinder cones such as at Chimney Hill. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* Timing poorly controlled. Based on presence of scarp on early to perhaps middle Quaternary basalt. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Low slip rate estimated from presence of scarp of 2–3 m height (Orin Anderson, written commun., 1997) on early to perhaps middle Quaternary basalt. |
| **Date and Compiler(s)** | 2016<br>Michael N. Machette, U.S. Geological Survey, Retired<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |

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| **References** | #1281 Anderson, O.J., compiler, 1986, Geologic map of Fence Lake, New Mexico 1:100,000 metric sheet: New Mexico Bureau of Mines and Mineral Resources Open-File Report 220, 4 p. pamphlet, 4 sheets, scale 1:100,000.<br><br>#7422 Arkell, B., 1984, Geology and coal resources of the Techado quadrangle, Catron and Cibola Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 221, 21 p., 2 pl., scale 1:24,000.<br><br>#7420 Laughlin, A.W., and West, F.G., 1976, The Zuni Mountains, New Mexico, as a potential dry hot rock geothermal energy site: U.S. Energy Research and Development Administration, Los Alamos Scientific Laboratories Informal Report LA-3197-MS, 13 p.<br><br>#7421 Laughlin, A.W., Perry, F.V., Damon, P.E., Shafiqullah, M., WoldeGabriel, G., McIntosh, W., Harrington, C.D., Wells, S.G., and Drakos, P.G., 1993, Geochronology of Mount Taylor, Cebollita Mesa, and Zuni-Bandera volcanic fields, Cibola County, New Mexico: New Mexico Geology, v. 16, no. 4, p. 81–92.<br><br>#1715 Levish, D.R., Vetter, U.R., Ake, J.P., and Piety, L.A., 1992, Seismotectonic study for Black Rock Dam, Bureau of Indian Affairs, Pueblo of Zuni, New Mexico: Bureau of Reclamation Seismotectonic Report 92-3, 62 p. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## County Dump fault (Class A) No. 2038

**Last Review Date: 2015-02-19**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Haller, K.M., Personius, S.F., Olig, S.S., and McCalpin, J.P., compilers, 2015, Fault number 2038, County Dump fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:19 AM.**

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| **Synopsis** | The County Dump fault is a down-to-the-east, north-trending normal fault located in the northern part of the Albuquerque-Belen basin. The fault offsets deposits of the upper Santa Fe Group, well-developed calcic soils of the Llano de Albuquerque, and about 155-ka basalt of the Albuquerque Volcanoes volcanic field. Repeated surface-faulting in the past 1 m.y. is expressed as a subdued, 24-m-high, up to 800-m-wide fault scarp across the Llano de Albuquerque and was first recognized during early geologic work in the region. An exposure of the fault at the now abandoned Bernalillo County landfill (dump) has been described in two detailed studies addressing the history of surface rupture. The most recent study used thermoluminescence (TL) ages and detailed soils analyses to constrain the time of the most recent surface-faulting event on the County Dump fault at 24 ka. |
| **Name comments** | The County Dump fault was originally mapped and named by Lambert (1968 #1396) for a down-to-the-east normal fault exposed at the now abandoned Bernalillo County landfill site, located about 1.5 km north of Interstate 40. Kelley (1977 #1106) renamed this structure the Nine Mile fault and included a down-to-the west fault south of Interstate 40 that was originally mapped by Lambert (1968 #1396). Machette (1982 #1401) used the name |

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| | "Bernalillo County Dump fault" for this structure, but most workers since Kelley (1977 #1106) have used either "County Dump fault" (Machette, 1978 #1402; Hawley and Haase, 1992 #1304) or "Nine Mile fault zone" (Hawley and Whitworth, 1996 #1303) when referring to this structure. Cather and others (1997 #1763) called the northern end of the County Dump fault the "Centipede fault" in the Sky Village SE quadrangle. Herein we use the name "County Dump fault" as originally named by Lambert (1968 #1396) for the entire fault zone, because the "Nine mile fault" as mapped by Kelley (1977 #1106) and Hawley and Whitworth (1996 #1303) contains faults with both down-to-the-east and down-to-the-west displacements.<br><br>**Fault ID:** Fault no. 2 of Machette (1982 #1401), fault no. 1 of Machette and McGimsey (1983 #1024). |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br>BERNALILLO COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:100,000 scale.<br><br>*Comments:* The trace of the County Dump fault is from Lambert (1968 #1396), Machette (1978 #1402), Cather and others (1997 #1763), air photo mapping by S.F. Personius (unpublished data, 1997), and high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721). <P> |
| **Geologic setting** | The County Dump fault is one of several north-trending intrabasin faults in the northern part of the Albuquerque-Belen basin. The fault also forms the western margin of a broad graben that confines some basalt flows of the Albuquerque Volcanoes volcanic field. The spatial association of the fault with the volcanic field may suggest a possible relationship with magmatic activity. <P> |
| **Length (km)** | 35 km. |
| **Average strike** | N5°E |

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| **Sense of movement** | Normal |
| **Dip** | 75°–85° E.<br><br>*Comments:* Dip measurements are from near-surface fault exposures at the abandoned Bernalillo County landfill site (Lambert, 1968 #1396; Machette, 1978 #1402; McCalpin, 1997 #1767). <P> |
| **Paleoseismology studies** | The fault is well exposed in the northwest corner of the now abandoned Bernallilo County landfill. Here, the exposed County Dump fault offsets sands and gravels assigned to the Upper Buff or Ceja members of the Santa Fe Formation (Bryan and McCann, 1937 #1288; Kelley, 1977 #1106), which are now included in the Sierra Ladrones Formation of the upper Santa Fe Group (Hawley and others, 1991 #1302). The upper part of these rocks may be early Pleistocene in age. The fault also cuts the Llano de Albuquerque, an extensive Pleistocene surface formed on the Santa Fe Group. <P> Site 2038-1. Results from an early study of the natural exposure suggest that buried soils on colluvial deposits as young as 20–120 ka were deposited in response to large offsets (Machette, 1978 #1402). <P> Site 2038-2. The exposure at Bernalillo County landfill was re-excavated to address why previous estimates of displacement were so large and whether artificial exposures of the section might better reveal small scarp-derived colluvial deposits resulting from smaller displacement events. Six backhoe trenches that exposed the hanging wall deposits to a depth of 19–21 m below the surface were excavated for this study (McCalpin, 1997 #1767; McCalpin and others, 2006 #693). Interpretation of the exposures suggest that perhaps as many as 14 earthquakes occurred on the County Dump fault since the abandonment of the Llano de Albuquerque at 1.8-0.8 Ma (Connell and others, 2013 #7235); the timing of surface ruptures were constrained by thermoluminescence (TL) ages and quantitative analysis of soil properties developed on colluvial deposits deposited adjacent to the County Dump fault. Based on a number of assumptions, the mean vertical displacement in the past 14 events at this location is 1.2±0.6 m; it is not known if mean displacement at this location is a representative average for the fault or not (McCalpin and others, 2006 #693). <P> |
| **Geomorphic expression** | The County Dump fault is discontinuously exposed in upper Santa Fe Group sediment along the eastern Llano de Albuquerque. A broad, sand-covered, 24-m-high fault scarp, which is 800 m wide with maximum scarp-slope angle of 3.5° (McCalpin and others, 2006 #6931), marks the trace of the fault where it crosses the Llano de Albuquerque north of the Bernalillo County landfill exposure. The scarp is asymmetrical; the upper (erosional) part between the fault and scarp crest comprises only 25 percent of total scarp width. This asymmetry is used to substantiate the |

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| | interpretation that large amount of deposition has occurred on the hanging wall since active fluvial deposition on the Llano de Albuquerque ceased. Further north, the County Dump fault skirts the western margin of the Albuquerque Volcanoes volcanic field, and extends northward as a broad escarpment on upper Santa Fe Group sediment and eroded remnants of the Llano de Albuquerque. South of the Bernalillo County dump exposure, the fault is exposed in upper Santa Fe Group sediment before ending a few kilometers south of Interstate Highway 40. <P> |
| **Age of faulted surficial deposits** | At the surface, the County Dump fault is in sands and gravels assigned to the Upper Buff or Ceja members of the Santa Fe Formation (Bryan and McCann, 1937 #1288; Kelley, 1977 #1106), which are now included in the Sierra Ladrones Formation of the upper Santa Fe Group (Hawley and others, 1991 #1302). Fault scarps are on the Llano de Albuquerque (1.8 Ma based on 40Ar/39Ar dating, Connell and others, 2013 #7235), an extensive early Pleistocene surface formed at the top of the Santa Fe Group and basalts dated at about155 ka of the Albuquerque Volcanoes volcanic field (Geissman and others, 1990 #1297; Peate and others, 1996 #1411). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | late Quaternary (<130 ka)<br><br>*Comments:* McCalpin and others (2006 #6931) report evidence of a possible 24-ka earthquake that only produced warping of near-surface sand deposits. In addition, thermoluminescence (TL) ages suggest that the additional surface-rupturing earthquakes occurred at 39 ka and 59 ka. Therefore, two and possibly three earthquakes have occurred in the late Quaternary. Machette (1978 #1402) suggested a similar time of 20 ka for the latest significant earthquake on the County Dump fault based on regional rate of pedogenic calcium carbonate accumulation. <P> |
| **Recurrence interval** | 41 k.y. (<300 ka)<br><br>*Comments:* McCalpin and others (2006 #6931) used thermoluminescence (TL) ages and quantitative soils analysis to estimate the timing of 14 earthquakes. Six thermoluminescence (TL) samples ranging from 4 ka (at the surface) to greater than 293 ka (8.3 m below the surface) constrain the age of the uppermost colluvial wedges; the age of older soils (8.3–17.3 m below the surface) was estimated based on accumulation rate of pedogenic calcium carbonate of 0.26 g CaCO<sup>3</sup> per thousand years, based on data from the upper part of the section. Recurrence intervals range from 4 to 202 k.y. and average 40.8 k.y.; a better constrained average of 29.5±11 k.y. is |

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| | indicated if the longest and shortest intervals are not considered. The three most recent faulting events can be reconstructed from relationships in the highest trench and yielded ages of about 24 ka (0.4 m vertical displacement), 40–45 ka (0.35 m vertical displacement), and 75–80 ka (< 3.5 m vertical displacement). The earlier investigation by Machette (1978 #1402) provided average recurrence intervals of 90–190 ka because fewer faulting events were identified. |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Low slip-rate category assigned based on vertical-displacement rates from trenching at site 2038-2 described in McCalpin and others (2006 #6931), who suggest the vertical-displacement rate has not been constant over the past 1.6 m.y. However, the long-term and short-term (from the past two earthquakes) vertical-displacement rates are similar. Vertical-displacement rate for the County Dump fault at the Bernalillo County landfill can be constrained by the 24 m of far-field surface offset and the estimated 1–1.6 Ma age of the Llano de Albuquerque, resulting in a possible range in vertical-displacement rate of 0.015–0.024 mm/yr (McCalpin and others, 2006 #6931). The vertical-displacement rate would be lower and better constrained if the age for the Llano based on Connell and others (2013 #7235) were considered. McCalpin and others (2006 #6931) present a similar short-term vertical rate of 0.018 mm/yr based on cumulative offset in the past two earthquakes of 0.75 m. |
| **Date and Compiler(s)** | 2015<br>Kathleen M. Haller, U.S. Geological Survey<br>Stephen F. Personius, U.S. Geological Survey<br>Susan S. Olig, URS Corporation<br>James P. McCalpin, GEO-HAZ Consulting, Inc. |
| **References** | #1288 Bryan, K., and McCann, F.T., 1937, The Ceja del Rio Puerco—A border feature of the Basin and Range province in New Mexico, Part I, Stratigraphy and structure: Journal of Geology, v. 45, p. 801-828.<br><br>#1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#7235 Connell, S.D., Smith, G.A., Geissman, J.W., and McIntosh, W.C., 2013, Climatic controls on nonmarine depositional sequences in the Albuquerque Basin, Rio Grande rift, north-central New Mexico, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 383–425, doi:10.1130/2013.2494(15)<br><br>#1297 Geissman, J.W., Brown, L., Turrin, B.D., McFadden, L.D., and Harlan, S.S., 1990, Brunhes chron excursion/polarity episode recorded during the late Pleistocene, Albuquerque Volcanoes, |

New Mexico, USA: Geophysical Journal International, v. 102, p. 73-88.<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1304 Hawley, J.W., and Haase, C.S., compilers, 1992, Hydrogeologic framework of the northern Albuquerque basin: New Mexico Bureau of Mines and Mineral Resources Open-File Report 387, 1 pl., scale 1:100,000.<br><br>#1303 Hawley, J.W., and Whitworth, T.M., compilers, 1996, Hydrogeology of potential recharge areas for the basin- and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D, 575 p.<br><br>#1302 Hawley, J.W., Love, D.W., Betancourt, J.L., Turner, R.M., and Tharnstrom, S., 1991, Quaternary and Neogene landscape evolution—A transect across the Colorado Plateau and Basin and Range provinces in west-central and central New Mexico, in Julian, B., and Zidek, J., eds., Field guide to geologic excursions in New Mexico and adjacent areas of Texas and Colorado: New Mexico Bureau of Mines and Mineral Resources Bulletin 137, p. 105-148.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1396 Lambert, P.W., 1968, Quaternary stratigraphy of the Albuquerque area, New Mexico: Albuquerque, University of New Mexico, unpublished Ph.D. dissertation, 329 p., 3 pl., scale 1:48,000.<br><br>#1402 Machette, M.N., 1978, Dating Quaternary faults in the southwestern United States by using buried calcic paleosols: U.S. Geological Survey Journal of Research, v. 6, no. 3, p. 369-381.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1767 McCalpin, J.P., 1997, Paleoseismicity of Quaternary faults near Albuquerque, New Mexico: Technical report to U.S. Geological Survey, under Contract 1434-HQ-96-GR-02751, 18 p.<br><br>#6931 McCalpin, J.P., Olig, S.S., Harrison, J.B.J., and Berger, G.W., 2006, Quaternary faulting and soil formation on the County Dump fault, Albuquerque, New Mexico: New Mexico Bureau of Geology and Mineral Resources Circular 212, 36 p.<br><br>#1411 Peate, D.W., Chen, J.H., Wasserburg, G.J., Papanastassiou, D.A., and Geissman, J.W., 1996, 238U-230Th dating of a geomagnetic excursion in Quaternary basalts of the Albuquerque Volcanoes Field, New Mexico (USA): Geophysical Research Letters, v. 23, p. 2271-2274.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p.

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# Quaternary Fault and Fold Database of the United States

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## Coyote Springs fault (Class A) No. 2114

**Last Review Date: 2016-03-30**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2114, Coyote Springs fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:20 AM.**

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| **Synopsis** | The Coyote Springs fault (and the Santa Fe [2123] and Loma Pelada [2113] faults to the north and south, respectively) form the active southwestern margin of the Rio Grande rift. Specifically, the Coyote Springs fault forms the southwestern margin of the Belen sub-basin of the Albuquerque basin. Offsets of 12–15 m in lower and middle Pleistocene deposits and 1–3 m in upper Pleistocene deposits indicate recurrent Quaternary movement along the Coyote Springs fault. At its southern end, clear evidence of Quaternary faulting dies out at Mariano Draw, and at its northern end, fault scarps die out about 5 km north of Arroyo Monte Largo. |
| **Name comments** | Originally named the Coyote fault by Kelley (1977 #1106), this fault was renamed the Coyote Springs fault by Machette (1982 #1401) and Machette and McGimsey (1983 #1024), after Coyote Spring, which is located near the southwest corner of the Comanche Ranch 7.5-minute quadrangle. The fault is still referred to as the Coyote fault in places (e.g., Grauch and Connell, 2013 #7268), but it should not be confused with the Coyote fault [2128] that forms the western boundary of the Manzanita Mountains on the southeast side of the Belen sub-basin (Personius and others, 1999 #6930). Thus, we retain the name Coyote Springs fault. The fault extends from the southern end of the |

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| | Santa Fe fault [2123] to the northern end of the Loma Pelada fault [2113] along the northeastern margin of the Sierra Ladrones.<br><br>**Fault ID:** Fault no. 6 of Machette (1982 #1401), fault no. 5 of Machette and McGimsey (1983 #1024). |
| **County(s) and State(s)** | VALENCIA COUNTY, NEW MEXICO <br>SOCORRO COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:250,000 scale.<br><br>*Comments:* Fault traces from Machette and McGimsey (1983 #1024) at1:250,00 scale on topographic base map. <P> |
| **Geologic setting** | The Coyote Springs fault forms the active southwestern margin of the Belen sub-basin of the Albuquerque basin in the Rio Grande rift (Grauch and Connell, 2013 #7268), with the apparent deactivation of the Comanche fault to the west (Kelley, 1977 #1106). Seismic reflection and 3D geophysical studies support Kelley's assumption that a shallow shelf or bench (Monte Largo bench) underlies the piedmont area between the Coyote Springs and Comanche faults (Russell and Snelson, 1994 #1186; Grauch and Connell, 2013 #7268). <P> |
| **Length (km)** | 17 km. |
| **Average strike** | N21°W |
| **Sense of movement** | Normal |
| **Dip** | 15–17° E.<br><br>*Comments:* Near the surface the fault probably has a relatively high angle (60°) dip. However, Russell and Snelson (1994 #1186) reported a very shallow dip of 15–17° E for the fault at about 5 km depth based on seismic reflection data. There is some controversy about the listric (shallow curving) nature of faults in the Albuquerque basin. <P> |

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| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | Prominent, but discontinuous (eroded) fault scarps are present on surficial deposits along the central part of the Coyote Springs fault, whereas the youngest scarps are found at the southern end of the fault. Machette (1982) and Machette and McGimsey (1983 #1024) measured offsets of 12–15 m in lower and middle Pleistocene deposits, and 1–3 m in upper Pleistocene deposits. Morphometric studies of the small scarps suggested possible early Holocene or latest Pleistocene ruptures (Machette and McGimsey, 1983 #1024). <P> |
| **Age of faulted surficial deposits** | The Coyote Springs fault offsets alluvial-fan deposits of early and middle Pleistocene age as much as 12–15 m along its northern part, and middle and late Pleistocene age along its southern part (Machette and McGimsey, 1983 #1024; Read and others, 2007 #7473). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | latest Quaternary (<15 ka)<br><br>*Comments:* Fault scarp morphology studies by Machette and McGimsey (1983 #1024) indicate possible latest Pleistocene or early Holocene movement on the southern part of the Coyote Springs fault north of Mariano Draw. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Low slip-rate category assigned based on fault scarp data from Machette (1982 #1401) and Machette and McGimsey (1983 #1024) which indicates offsets of 1–3 m in late Pleistocene (10–150 ka) alluvium and as much as 12–15 m in middle to early Quaternary deposits. |

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| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #7268 Grauch, V.J.S., and Connell, S.D., 2013, New perspectives on the geometry of the Albuquerque basin, Rio Grande rift, New Mexico: Insights from geophysical models of rift-fill thickness, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 427–462, doi:10.1130/2013.2494(16).<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#6930 Personius, S.F., Machette, M.N., and Kelson, K.I., 1999, Quaternary faults in the Albuquerque area—An update, in Pazzaglia, F.J., and Lucas, S.G., eds., Albuquerque geology: New Mexico Geological Society 50th Annual Field Conference, Guidebook, September 22–25, p. 189–200.<br><br>#7473 Read, A.S., Cather, S.M., Chamberlin, R.M., Connell, S.D., Hook, S.C., and Karlstrom, K.E., 2007, Preliminary geologic map of the Ladron Peak quadrangle, Socorro County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 142, scale 1:24,000.<br><br>#1186 Russell, L.R., and Snelson, S., 1994, Structure and tectonics of the Albuquerque basin segment of the Rio Grande rift—Insights from reflection seismic data, in Keller, G.R., and Cather, S.M., eds., Basins of the Rio Grande rift—Structure, stratigraphy, and tectonic setting: Geological Society of America Special Paper 291, p. 83–112. |

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# Quaternary Fault and Fold Database of the United States

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## Intrabasin faults on the Llano de Albuquerque (Class A) No. 2121

**Last Review Date: 2016-05-24**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Jochems, A.P., and Personius, S.F., compilers, 2016, Fault number 2121, Intrabasin faults on the Llano de Albuquerque, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:20 AM.**

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| **Synopsis** | These faults are mostly expressed by short faults that offset the early Pleistocene Llano de Albuquerque geomorphic surface. They are collected together as a group for the express purpose of description. Most of these intrabasin faults are partly to nearly completely covered by eolian sand, but on air photographs these features are marked by linear scarps, aligned drainages, and in some cases aligned ephemeral ponds. Quaternary displacement is unknown for most of these faults, but a few have scarps up to 3–12 m high. Some of these faults may be related to volcanic activity, such as those associated with the Wind Mesa and Los Lunas volcanic centers. |
| **Name comments** | This group of north-trending normal faults forms a series of horsts and grabens on the Llano de Albuquerque, west of Albuquerque. A thick cover of eolian sand covers most of the Llano de Albuquerque, which has led to varying orientations and configurations of mapped faults in this area (Kelley, 1977 #1106; Kelley and Kudo, 1978 #1307; Machette, 1982 #1401; Machette and McGimsey, 1983 #1024; Hawley and Haase, 1992 #1304; Wong and others, 1995 #1155; Hawley and Whitworth, 1996 #1303; Shroba and others, 2003 #7459; Thompson and others, 2009 #7460). Named faults include several strands of the West Mesa and Cat Mesa [2122] fault zones (Wong and others, |

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| | 1995 #1155; Hawley and Whitworth, 1996 #1303), the Atrisco fault (Hawley and Haase, 1992 #1304), and the Lost Horizon and Wind Mesa faults (Connell, 2008 #7454). We exclude all but the Cat Mesa fault [2122] as specific fault names until more detailed mapping and fault studies are conducted. |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br>SOCORRO COUNTY, NEW MEXICO <br>BERNALILLO COUNTY, NEW MEXICO <br>VALENCIA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces compiled from 1:24,000-scale mapping of Love and others (1998 #7457), Maldonado and Atencio (1998 #1777, 1998 #1778), Love (1999 #7456), Maldonado, 2003 (#7453), Rawling (2003 #7458), Shroba and others (2003 #7459), McCraw and others (2006 #7255), and Thompson and others (2009 #7460). Additional traces from unpublished 1:24,000-scale mapping of Isleta 7.5-minute quadrangle by Love and others and 1:50,000-scale mapping of Albuquerque metropolitan area by Connell (2008 #7454). All traces compiled digitally and accurately placed using photogrammetric methods. Original fault traces digitized from Machette and McGimsey (1983 #1024) with supplemental geophysical data from Grauch and Millegan (1998 #1721) and U.S. Geological Survey and SIAL Geosciences Inc. (1997 #1722). The area is covered by thick sequences of eolian sand, so most fault strands are subdued and others may be obscured. <P> |
| **Geologic setting** | This group of intrabasin faults forms a broad zone within the Albuquerque-Belen basin of the Rio Grande rift. <P> |
| **Length (km)** | 101 km. |
| **Average strike** | N3°E |
| **Sense of movement** | Normal |
| **Dip Direction** | E; W |

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| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | These faults are marked by subdued, discontinuously exposed, mostly sand covered scarps on the Llano de Albuquerque. East of El Rincon (an erosional embayment into the Llano), these structures form an anastomosing group of horsts and grabens that are marked by linear scarps, aligned drainages, and aligned ephemeral ponds (Shroba and others, 2003 #7459; Connell, 2008 #7454; Thompson and others, 2009 #7460). Some of the down-to-the-west faults have linear ponds along their bases, apparently caused by damming of the prevailing east-southeast-flowing drainages. Machette and McGimsey (1983 #1024) measured offsets of 3–12 m on some of these faults on the Llano de Albuquerque. Included in this dataset are buried faults delineated from high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721; Grauch, 1999 #7241). Most of these faults are buried only by a thin (less than 10 m) cover of eolian sediment and probably cut deposits and soils associated with Llano de Albuquerque (Shroba and others, 2003 #7459; Thompson and others, 2009 #7460). However, it is possible that some do not cut post-Pliocene strata. <P> |
| **Age of faulted surficial deposits** | These faults offset the early Pleistocene Llano de Albuquerque. This diachronous surface overlies deposits spanning the interval from approximately 1.8–0.8 Ma (Connell and others, 2000 #7455; Connell and others, 2013 #7235). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* Some of these faults offset the early Pleistocene Llano de Albuquerque surface as much as 12 m (Machette and McGimsey, 1983 #1024); these data indicate a recurrent history of faulting that in some cases probably extended at least into the middle Pleistocene following abandonment of the Llano de Albuquerque surface. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr |

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| | *Comments:* Low slip-rate category assigned based on offsets of 3–12 m of the early Pleistocene (~1.8-0.8 Ma) Llano de Albuquerque (Machette and McGimsey, 1983 #1024; Connell and others, 2013 #7235). |
| **Date and Compiler(s)** | 2016<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources<br>Stephen F. Personius, U.S. Geological Survey |
| **References** | #7454 Connell, S.D., 2008, Geologic map of the Albuquerque-Rio Rancho metropolitan area and vicinity, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources Geologic Map 78, scale 1:50,000.<br><br>#7455 Connell, S.D., Love, D.W., Maldonado, F., Jackson, P.B., McIntosh, W.C., and Eppes, M.C., 2000, Is the top of the Santa Fe Group diachronous in the Albuquerque Basin? [abs.], in Cole, J.C., ed., Middle Rio Grande basin study—Proceedings of the Fourth Annual Workshop, Albuquerque, New Mexico, February 15–16, 2000: U.S. Geological Survey Open-File Report 00-488, p. 18–20.<br><br>#7235 Connell, S.D., Smith, G.A., Geissman, J.W., and McIntosh, W.C., 2013, Climatic controls on nonmarine depositional sequences in the Albuquerque Basin, Rio Grande rift, north-central New Mexico, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 383–425, doi:10.1130/2013.2494(15)<br><br>#7241 Grauch, V.J.S., 1999, Principal features of high resolution aeromagnetic data collected near Albuquerque, New Mexico, in Pazzaglia, F.J., and Lucas, S.G., eds., Albuquerque Geology: New Mexico Geological Society Guidebook 50, p. 115–118.<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1304 Hawley, J.W., and Haase, C.S., compilers, 1992, Hydrogeologic framework of the northern Albuquerque basin: New Mexico Bureau of Mines and Mineral Resources Open-File Report 387, 1 pl., scale 1:100,000.<br><br>#1303 Hawley, J.W., and Whitworth, T.M., compilers, 1996, Hydrogeology of potential recharge areas for the basin- and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D, 575 p.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1307 Kelley, V.C., and Kudo, A.M., 1978, Volcanoes and related basalts of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 156, 29 p., 2 pls.<br><br>#7456 Love, D.W., 1999, Geologic map of the Veguita 7.5-minute quadrangle, Valencia and Socorro Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 28, scale 1:24,000.<br><br>#7457 Love, D.W., Maldonado, F., Hallett, B., Panter, K., Reynolds, C., McIntosh, W., and Dunbar, N., 1998, Geology of the Dalies 7.5-minute quadrangle, Bernalillo and |

Valencia Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 21, scale 1:24,000.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#7453 Maldonado, F., 2003, Geologic map of the Rio Puerco quadrangle, Bernalillo and Valencia Counties, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2397, scale 1:24,000.<br><br>#1777 Maldonado, F., and Atencio, A., 1998, Preliminary geologic map of the Wind Mesa quadrangle, Bernalillo County, New Mexico: U.S. Geological Survey Open-File Report 97-740, 1 sheet, scale 1:24,000.<br><br>#1778 Maldonado, F., and Atencio, A., 1998, Preliminary geologic map of the Dalies northwest quadrangle, Bernalillo County, New Mexico: U.S. Geological Survey Open-File Report 97-741, 1 sheet, scale 1:24000.<br><br>#7255 McCraw, D.J., Love, D.W., and Connell, S.D., 2006, Geologic map of the Abeytas quadrangle, Socorro County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 121, scale 1:24,000.<br><br>#7458 Rawling, G.C., 2003, Geologic map of the Belen 7.5-minute quadrangle, Valencia County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 80, scale 1:24,000.<br><br>#7459 Shroba, R.R., Thompson, R.A., Schmidt, D.L., Personius, S.F., Maldonado, F., and Brandt, T.R., 2003, Geologic map of the La Mesita Negra SE quadrangle, Bernalillo County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2416, scale 1:24,000.<br><br>#7460 Thompson, R.A., Shroba, R.R., Menges, C., Schmidt, D.L., Personius, S.F., and Brandt, T.R., 2009, Geologic map of the Volcanoes quadrangle, Bernalillo and Sandoval Counties, New Mexico: U.S. Geological Survey Scientific Investigations Map SIM-3083, scale 1:24,000.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.

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# Quaternary Fault and Fold Database of the United States

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## Jemez-San Ysidro fault, Calabacillas section (Class A) No. 2029c

**Last Review Date: 2015-02-20**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Koning, D.J., Haller, K.M., and Jochems, A.P., compilers, 2015, Fault number 2029c, Jemez-San Ysidro fault, Calabacillas section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:21 AM.**

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| **Synopsis** | **General:** The Jemez-San Ysidro fault is a steeply east-dipping normal fault that, in part, forms the active western margin of the Rio Grande rift south of the Valles caldera. The fault is divided into sections on the basis of a 45° change in fault strike at the latitude of Cañones and evidence for young (Holocene) rupture along its southern section. The northern, northeast-striking section of the fault (Jemez section) is aligned with northeast-striking faults within the collapsed center of the Valles caldera and the Embudo fault, and is coincident with the Jemez Lineament. The central fault (San Ysidro section) merges with the southern fault (Calabacillas section) about 7 km south of the town of San Ysidro.<br><br>**Sections:** This fault has 3 sections. The Jemez-San Ysidro fault consists of a northeast-striking fault (the Jemez fault of Goff and Kron, 1980 #1099), and north-striking faults along the northwestern margin of the Albuquerque basin (the Jemez and San Ysidro faults of Woodward, 1987 #1130). The boundary between the northern (Jemez) and central (San Ysidro) sections is placed at the 45° change in fault strike near Cañones. The boundary between the central and southern (Calabacillas) sections is near Arroyo Piedra Parada, 7 km south of San Ysidro. These sections |

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| | are distinguished primarily on the basis of younger demonstrated displacement on the Calabacillas section, a prominent down-to-the-east normal fault that offsets the west side of the Llano de Albuquerque along the western margin of the Rio Grande rift. |
| **Name comments** | **General:** The Jemez-San Ysidro fault extends from the latitude of the Albuquerque Volcanoes north to the southern rim of the Valles caldera near Highway 4. As used herein, the Jemez-San Ysidro fault includes the northeast-striking faults referred to as the Jemez fault zone by Goff and Kron (1980 #1099) and Goff and others (1981 #1182), the north-striking Sierrita fault of Woodward and DuChene (1975 #1131), Aldrich (1986 #1084), and Woodward (1987 #1130); the north-striking San Ysidro fault of Woodward and Ruetschilling (1976 #1133), Hawley and Galusha (1978 #1103), and Woodward (1987 #1130); and the north-striking Calabacillas fault of Bryan and McCann (1937 #1288, fig. 4), Wright (1946 #1427) and Cather and others (1997 #1763). All of these faults are grouped together herein because of lateral continuity (Wong and others, 1995 #1155; Koning and others, 1998 #7375).<br><br>**Section:** Part of the Calabacillas fault was originally mapped by Bryan and McCann (1937 #1288, fig. 4), and later described in detail by Wright (1946 #1427) in the Volcano Ranch 7.5 minute quadrangle. The fault was mapped and named in the Sky Village SE (now Arroyo de las Calabacillas) quadrangle by Cather and others (1997 #1763). Wright (1946 #1427, p. 426-428), Kelley and others (1976 #1380), and Kelley (1977 #1106) included the Calabacillas fault with the Sand Hill fault zone [2039], which is located 1–2 km to the west. However, detailed mapping indicates that the Calabacillas fault does not intersect the Sand Hill fault zone [2039] at the surface, but rather trends northeastward to the north and southeastward to the south of the exposures described by Wright (1946 #1427). At its northern end, the Calabacillas fault appears to join with the San Ysidro section near Arroyo Piedra Parada (Woodward and Ruetschilling, 1976 #1133; Koning and others, 1998 #7375). Connell (2008 #7454) and Grauch and Connell (2013 #7268) use the name San Ysidro fault for the entire fault zone south of the Rio Jemez, including all of what herein is named the Calabacillas section. |
| **County(s) and State(s)** | BERNALILLO COUNTY, NEW MEXICO <br>SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br>COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale. |

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| | *Comments:* The location of the fault is compiled from 1:24,000-scale mapping of the Cerro Conejo (previously Sky Village NE) quadrangle (Koning and others, 1998 #7375), the Arroyo de las Calabacillas (previously Sky Village SE) quadrangle (Cather and others, 1997 #1763), and the Volcanoes (previously Volcano Ranch) quadrangle (Thompson and others, 2009 #7460). The fault location is also evident in high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721) <P> |
| **Geologic setting** | The Jemez-San Ysidro fault forms the northwestern margin of the Albuquerque basin, although the amount of Quaternary vertical separation is less than that along other rift-margin faults. Aldrich (1986 #1084) stated that the fault was the western margin of the Rio Grande rift during the Oligocene, and that activity later stepped eastward to the Pajarito fault zone [2008]. Wong and others (1995 #1155) and House and Hartse (1995 #1160) identified seismicity aligned along the northern part of the fault. <P> |
| **Length (km)** | This section is 34 km of a total fault length of 92 km. |
| **Average strike** | N2°W (for section) versus N14°E (for whole fault) |
| **Sense of movement** | Normal |
| **Dip** | 60° E to near vertical<br><br>*Comments:* Dip measurement from Wright (1946 #1427, plate 8). McCalpin and others (2011 #7183) depict an exposure of the near-vertical main fault in a trench near the southern end of the fault. <P> |
| **Paleoseismology studies** | Site 2029-1. Two trenches were excavated 3 km north of the southern end of the fault (McCalpin and others, 2011 #7183). In the eastern trench, across a 5.3-m-high antithetic scarp, details of faulting are overprinted by stage IV soil carbonate that engulfs 4.5 m of exposed section, which bottoms in the Pliocene–Pleistocene (?) Santa Fe Group. McCalpin and others (2011 #7183) could distinguish five major depositional units, but the section was not sampled for dating. The western 60-m-long trench crosses a 27-m-high down-to-the-east fault scarp. The trench exposes Santa Fe Group only in the bottom of the exposed footwall. The interpretation of four prehistorical surface-faulting earthquakes is derived from observed vertical displacement of correlated buried soils and the six infrared-stimulated luminescence (IRSL) dates that are in correct stratigraphic order, substantiated by two fine-silt thermoluminescence (TL) ages, ranging from 14 ka to 219 ka. The IRSL dates were used to constrain the mean rate |

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| | of secondary-carbonate accumulation in the soils to estimate the timing of the four surface ruptures interpreted at the site. <P> |
| **Geomorphic expression** | The Calabacillas fault forms broad, dissected fault scarps across the Llano de Albuquerque and is exposed in upper Santa Fe Group sediments at several locations where it crosses the Ceja del Rio Puerco. The northeast-trending part of the fault zone was mapped by Kelley and others (1976 #1380), Kelley (1977 #1106), Cather and others (1997 #1763), and Koning and others (1998 #7375); this northeast-striking part is marked by scattered displaced pediment remnants across the dissected surface of the Llano de Albuquerque. Wright (1946 #1427) reports 45-m-high scarps on the Llano; McCalpin and others (2011 #7183) describe the broad fault scarps as being 10–30 m high and having surface angles typically less than 5 degrees. <P> |
| **Age of faulted surficial deposits** | Kelley (1977 #1106) described minor offsets of pediment remnants on the northeast-trending section of the fault north of the Ceja del Rio Puerco exposures. The ages of these offset deposits are unknown, but they concluded that most are probably early and middle (?) Pleistocene in age. McCalpin and others (2011 #7183) reported displacement of buried soils dated to the middle and late Pleistocene. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | latest Quaternary (<15 ka)<br><br>*Comments:* Based on trenching near the southern end of the fault, the most recent surface rupture occurred 14 k.y. ago (McCalpin and others, 2011 #7183). This age is assigned to the entire length of the fault, which is supported by the nine post-Llano de Albuquerque fault-scarp-derived colluvial and soil deposits adjacent to this structure described by Machette (1978 #1402) and Machette and others (1997 #1403). <P> |
| **Recurrence interval** | 9–20 k.y. (<55ka)<br><br>*Comments:* Based on six infrared-stimulated luminescence (IRSL) dates and one soil calcium-carbonate date, the timing of the most recent four surface-faulting events on the southern part of the fault is 14 ka, 23 ka, 35 ka, and 55 ka (McCalpin and others, 2011 #7183). The last four surface-rupturing earthquakes are not evenly spaced in time and individual recurrence intervals are between 9 k.y. and 20 k.y. McCalpin and others (2011 #7183) suggest that activity on the rift-bounding faults alternates and the east-dipping faults have been more active from the middle |

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| | Pleistocene to present than the west-dipping faults. Soils developed on the colluvial wedges in the Ceja del Rio Puerco exposures also have extensive carbonate development (Machette and others, 1997 #1403), which indicates that a substantial amount of time is recorded in these deposits. |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* McCalpin and others (2011 #7183) report a long-term vertical-displacement rate of 0.027–0.054 mm/yr based on the 27-m-high scarp on the Llano de Albuquerque surface, assumed to be 0.5–1 Ma. Later work by Connell and others (2013 #7235) indicated that the Llano de Albuquerque surface is 0.8-1.8 Ma, which would decrease these long-term vertical-displacement rates. McCalpin and others (2011 #7183) further report vertical-displacement rates derived from each of the four recent earthquakes, which range from 0.011 to 0.028 mm/yr; although they acknowledge that vertical displacement at this site is likely smaller than that to the north. Displacement on the nearby antithetic fault (5.3 m) is not reported or removed from the vertical displacement referenced above; therefore, the reported vertical-displacement rates include maximum displacement for each event at this site. At a different location, Wright (1946 #1427) described about 45 m of accumulated fault-derived colluvial deposits on the downthrown block. All of these data suggest the Calabacillas section deforms at a rate lower than 0.2 mm/yr. |
| **Date and Compiler(s)** | 2015<br>Daniel J. Koning, New Mexico Bureau of Geology & Mineral Resources<br>Kathleen M. Haller, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1084 Aldrich, M.J., Jr., 1986, Tectonics of the Jemez lineament in the Jemez Mountains and Rio Grande rift: Journal of Geophysical Research, v. 91, no. B2, p. 1753–1762.<br><br>#1288 Bryan, K., and McCann, F.T., 1937, The Ceja del Rio Puerco—A border feature of the Basin and Range province in New Mexico, Part I, Stratigraphy and structure: Journal of Geology, v. 45, p. 801-828.<br><br>#1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#7239 Connell, S.D., 2001, Stratigraphy of the Albuquerque basin, Rio Grande rift, central New Mexico—A progress report, in Connell, S.D., and 8 others, Stratigraphy and tectonic development of the Albuquerque basin, central Rio Grande rift—Field trip guidebook for the Geological Society of America, Rocky Mountain–South-Central Section Meeting, Albuquerque, New Mexico: New Mexico Bureau of Mines & Mineral Resources Open-File Report 454B, p. A-1–A-26.<br><br>#7454 Connell, S.D., 2008, Geologic map of the |

Albuquerque-Rio Rancho metropolitan area and vicinity, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources Geologic Map 78, scale 1:50,000.<br><br>#7235 Connell, S.D., Smith, G.A., Geissman, J.W., and McIntosh, W.C., 2013, Climatic controls on nonmarine depositional sequences in the Albuquerque Basin, Rio Grande rift, north-central New Mexico, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 383–425, doi:10.1130/2013.2494(15)<br><br>#1099 Goff, F., and Kron, A., 1980, In-progress geologic map of Canon de San Diego, Jemez Springs, New Mexico, and lithologic log of Jemez Springs geothermal well: Los Alamos Scientific Laboratory Report LA-8276-MAP, 1 sheet, scale 1:12,000.<br><br>#1182 Goff, F.E., Grigsby, C.O., Trujillo, P.E., Jr., Counce, D., and Kron, A., 1981, Geology, water chemistry and geothermal potential of the Jemez Springs area, Canon de San Diego, New Mexico: Journal of Volcanology and Geothermal Research, v. 10, p. 227-244.<br><br>#7268 Grauch, V.J.S., and Connell, S.D., 2013, New perspectives on the geometry of the Albuquerque basin, Rio Grande rift, New Mexico: Insights from geophysical models of rift-fill thickness, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 427–462, doi:10.1130/2013.2494(16).<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1103 Hawley, J.W., and Galusha, T., 1978, Southern rift guide 2, Socorro-Santa Fe, New Mexico—Bernalillo to south of San Ysidro, in Hawley, J.W., ed., Guide to Rio Grande rift in New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources Circular 163, p. 177-183.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1380 Kelley, V.C., Woodward, L.A., Kudo, A.M., and Callender, J.F., 1976, Guidebook to Albuquerque basin of the Rio Grande rift, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 153, 31 p.<br><br>#7375 Koning, D.J., Pederson, J., Pazzaglia, F.J., and Cather, S.M., 1998, Geology of the Cerro Conejo (Sky Village NE) 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 45, scale 1:24,000.<br><br>#1402 Machette, M.N., 1978, Dating Quaternary faults in the southwestern United States by using buried calcic paleosols: U.S. Geological Survey Journal of Research, v. 6, no. 3, p. 369-381.<br><br>#1403 Machette, M.N., Long, T., Bachman, G.O., and Timbel, N.R., 1997, Laboratory data for calcic soils in central New Mexico—Background information for mapping Quaternary deposits in the Albuquerque basin: New Mexico Bureau of Mines and Mineral Resources Circular 205, 63 p.<br><br>#7183 McCalpin, J.P., Harrison, J.B.J., Berger, G.W., and Tobin, H.C., 2011, Paleoseismicity of a low-slip-rate normal fault in the Rio Grande rift, USA—The Calabacillas fault, Albuquerque, New Mexico, in Audemard M., F.A., Michetti, A.M., and McCalpin, J.P., eds., Geological criteria for evaluating seismicity revisited—Forty years of paleoseismic Investigations and the natural record of past earthquakes: Geological Society of America Special Paper 479, p. 1–24,

doi:10.1130/2011.2479(01)<br><br>#7460 Thompson, R.A., Shroba, R.R., Menges, C., Schmidt, D.L., Personius, S.F., and Brandt, T.R., 2009, Geologic map of the Volcanoes quadrangle, Bernalillo and Sandoval Counties, New Mexico: U.S. Geological Survey Scientific Investigations Map SIM-3083, scale 1:24,000.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.<br><br>#1130 Woodward, L.A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 42, 84 p., 1 pl., scale 1:100,000.<br><br>#1131 Woodward, L.A., and DuChene, H.R., 1975, Geometry of the Sierrita fault and its bearing on tectonic development of the Rio Grande rift, New Mexico: Geology, v. 3, p. 114–116.<br><br>#1133 Woodward, L.A., and Ruetschilling, R.L., 1976, Geology of San Ysidro quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 37, 1 sheet, scale 1:24,000.<br><br>#1427 Wright, H.E., Jr., 1946, Tertiary and Quaternary geology of the lower Rio Puerco area, New Mexico: Geological Society of America Bulletin, v. 57, p. 383-456.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Jemez-San Ysidro fault, Jemez section (Class A) No. 2029a

**Last Review Date: 2016-06-26**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Jochems, A.P., Kelson, K.I., and Personius, S.F., compilers, 2016, Fault number 2029a, Jemez-San Ysidro fault, Jemez section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:21 AM.**

**Synopsis**

**General:** The Jemez-San Ysidro fault is a steeply east-dipping normal fault that, in part, forms the active western margin of the Rio Grande rift south of the Valles caldera. The fault is divided into sections on the basis of a 45° change in fault strike at the latitude of Cañones and evidence for young (Holocene) rupture along its southern section. The northern, northeast-striking section of the fault (Jemez section) is aligned with northeast-striking faults within the collapsed center of the Valles caldera and the Embudo fault, and is coincident with the Jemez Lineament. The central fault (San Ysidro section) merges with the southern fault (Calabacillas section) about 7 km south of the town of San Ysidro.

**Sections:** This fault has 3 sections. The Jemez-San Ysidro fault consists of a northeast-striking fault (the Jemez fault of Goff and Kron, 1980 #1099), and north-striking faults along the northwestern margin of the Albuquerque basin (the Jemez and San Ysidro faults of Woodward, 1987 #1130). The boundary between the northern (Jemez) and central (San Ysidro) sections is placed at the 45° change in fault strike near Cañones. The boundary between the central and southern (Calabacillas) sections is near Arroyo Piedra Parada, 7 km south of San Ysidro. These sections are distinguished primarily on the basis of younger demonstrated displacement on the Calabacillas section, a

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| | prominent down-to-the-east normal fault that offsets the west side of the Llano de Albuquerque along the western margin of the Rio Grande rift. |
| **Name comments** | **General:** The Jemez-San Ysidro fault extends from the latitude of the Albuquerque Volcanoes north to the southern rim of the Valles caldera near Highway 4. As used herein, the Jemez-San Ysidro fault includes the northeast-striking faults referred to as the Jemez fault zone by Goff and Kron (1980 #1099) and Goff and others (1981 #1182), the north-striking Sierrita fault of Woodward and DuChene (1975 #1131), Aldrich (1986 #1084), and Woodward (1987 #1130); the north-striking San Ysidro fault of Woodward and Ruetschilling (1976 #1133), Hawley and Galusha (1978 #1103), and Woodward (1987 #1130); and the north-striking Calabacillas fault of Bryan and McCann (1937 #1288, fig. 4), Wright (1946 #1427) and Cather and others (1997 #1763). All of these faults are grouped together herein because of lateral continuity (Wong and others, 1995 #1155; Koning and others, 1998 #7375).<br><br>**Section:** This part of the Jemez-San Ysidro fault was named the Jemez section by Wong and others (1995 #1155). The section extends from Highway 4 near Jemez Falls in the Jemez Mountains, southwest to Crow Springs, about 5 km west of Cañones. Smith (2004 #7529) connected this fault with the Cañones fault [2003]. |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | SOUTHERN ROCKY MOUNTAINS <br>COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Detailed geologic maps are available at a scale of 1:24,000 along the entire Jemez fault (Woodward and others, 1977 #1132), which was originally compiled and synthesized by Woodward (1987 #1130). More recent 1:24,000-scale maps include those of Osburn and others (2002 #7528) and Kelley and others (2003 #7527). Maps of selected parts of the fault are given by Goff and Kron (1980 #1099) at a scale of 1:12,000, and by Goff and Shevenell (1987 #1476) at a scale of 1:66,667. <P> |
| **Geologic setting** | The Jemez-San Ysidro fault forms the northwestern margin of the Albuquerque basin, although the amount of Quaternary vertical separation is less than that along other rift-margin faults. Aldrich (1986 #1084) stated that the fault was the western margin of the Rio Grande rift during the Oligocene, and that activity later stepped eastward to |

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| | the Pajarito fault zone [2008]. Wong and others (1995 #1155) and House and Hartse (1995 #1160) identified seismicity aligned along the northern part of the fault. <P> |
| **Length (km)** | This section is 28 km of a total fault length of 92 km. |
| **Average strike** | N41°E (for section) versus N14°E (for whole fault) |
| **Sense of movement** | Normal |
| **Dip Direction** | V<br><br>*Comments:* The Jemez fault appears to be near vertical at the surface and in the shallow subsurface based on the relatively straight traces across rugged topography. Microseismicity in the vicinity of the Jemez fault appears to be aligned along a near-vertical zone, with a slight westerly dip (L. House, unpublished data, 1993). However, as a rift-margin fault, the Jemez fault probably dips to the east (Woodward and Ruetschilling, 1976 #1133). Wong and others (1995 #1155) considered dip values of 80° W, 90°, and 80° E, without a preferred dip to constrain the fault's geometry for seismic source characterization. <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The Jemez section is marked by a prominent southeast-facing scarp across Virgin Mesa, which is underlain by the 1.2–1.3 Ma Tshirege Member of the Bandelier Tuff. Goff and Shevenell (1987 #1476) note a 15-m-high fault scarp on older travertine deposits near Soda Dam. <P> |
| **Age of faulted surficial deposits** | The youngest faulted bedrock is the 1.2–1.3 Ma Tshirege Member of the Bandelier Tuff. Tafoya (2012 #7530) obtained U-series ages of 210 ka and younger for calcite growth in the Jemez fault. These ages could relate to fault reactivation or infilling of younger sediment. |
| **Historic earthquake** | |
| **Most recent prehistoric** | undifferentiated Quaternary (<1.6 Ma) |

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| **deformation** | *Comments:* The timing of the most-recent event is unknown. Prominent geomorphic expression across Virgin Mesa, displaced upper Bandelier Tuff suggest Quaternary deformation (Wong and others, 1995 #1155). Tafoya's (2012 #7530) U-series ages (<210 ka) on calcite growth in the Jemez fault allow for the possibility of middle or late Quaternary activity. Alternatively, the calcite growth may reflect younger geomorphic phenomena associated with fluvial deposition and incision. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Assigned slip rate category based on 12 m of separation of 1.2–1.3 Ma Tshirege Member of the Bandelier Tuff along the Jemez fault (Woodward, 1987 #1130) and 50 m of separation of the same unit along the fault reported by Goff and Shevenell (1987 #1476) and Goff and others (1989 #1098). |
| **Date and Compiler(s)** | 2016<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources<br>Keith I. Kelson, William Lettis & Associates, Inc.<br>Stephen F. Personius, U.S. Geological Survey |
| **References** | #1084 Aldrich, M.J., Jr., 1986, Tectonics of the Jemez lineament in the Jemez Mountains and Rio Grande rift: Journal of Geophysical Research, v. 91, no. B2, p. 1753–1762.<br><br>#1288 Bryan, K., and McCann, F.T., 1937, The Ceja del Rio Puerco—A border feature of the Basin and Range province in New Mexico, Part I, Stratigraphy and structure: Journal of Geology, v. 45, p. 801-828.<br><br>#1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#1099 Goff, F., and Kron, A., 1980, In-progress geologic map of Canon de San Diego, Jemez Springs, New Mexico, and lithologic log of Jemez Springs geothermal well: Los Alamos Scientific Laboratory Report LA-8276-MAP, 1 sheet, scale 1:12,000.<br><br>#1476 Goff, F., and Shevenell, L., 1987, Travertine deposits of Soda Dam, New Mexico, and their implications for the age and evolution of the Valles caldera hydrothermal system: Geological Society of America Bulletin, v. 99, p. 292-302.<br><br>#1182 Goff, F.E., Grigsby, C.O., Trujillo, P.E., Jr., Counce, D., and Kron, A., 1981, Geology, water chemistry and geothermal potential of the Jemez Springs area, Canon de San Diego, New Mexico: Journal of Volcanology and Geothermal Research, v. 10, p. 227-244.<br><br>#1098 Goff, F., Gardner, J.N., Baldridge, W.S., Hulen, J.B., Nielson, D.L., Vaniman, D., Heiken, G., Dungan, M.A., |

and Broxton, D., 1989, Excursion 17B—Volcanic and hydrothermal evolution of Valles Caldera and Jemez volcanic field, in Chapin, C.E., and Zidek, J., eds., Field excursions to volcanic terranes in the Western United States, v. I, Southern Rocky Mountain region: New Mexico Bureau of Mines and Mineral Resources Memoir 46, p. 381-433.<br><br>#1103 Hawley, J.W., and Galusha, T., 1978, Southern rift guide 2, Socorro-Santa Fe, New Mexico—Bernalillo to south of San Ysidro, in Hawley, J.W., ed., Guide to Rio Grande rift in New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources Circular 163, p. 177-183.<br><br>#1160 House, L., and Hartse, H., 1995, Seismicity and faults in northern New Mexico, in Bauer, P.W., Kues, B.S., Dunbar, N.W., Karlstrom, K.E., and Harrison, B., eds., Geology of the Santa Fe region, New Mexico: New Mexico Geological Society, 46th Field Conference, September 27-30, 1995, Guidebook, p. 135–137.<br><br>#7527 Kelley, S., Kempter, K.A., Goff, F., Rampey, M., Osburn, B., and Ferguson, C.A., 2003, Geologic map of the Jemez Springs 7.5-minute quadrangle: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 73, scale 1:24,000.<br><br>#7375 Koning, D.J., Pederson, J., Pazzaglia, F.J., and Cather, S.M., 1998, Geology of the Cerro Conejo (Sky Village NE) 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 45, scale 1:24,000.<br><br>#7528 Osburn, G.R., Kelley, S., Rampey, M., Ferguson, C., Frankel, K., and Pazzaglia, F., 2002, Geologic map of the Ponderosa quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 57, scale 1:24,000.<br><br>#7529 Smith, G.A., 2004, Middle to late Cenozoic development of the Rio Grande rift and adjacent regions in northern New Mexico, in Mack, G.H., and Giles, K.A., eds., The geology of New Mexico—A geologic history: New Mexico Geological Society Special Publication 11, p. 311–358.<br><br>#7530 Tafoya, A.J., 2012, Uranium-series geochronology and stable isotope analysis of travertine from Soda Dam, New Mexico—A Quaternary record of episodic spring discharge and river incision in the Jemez Mountains hydrothermal system: Albuquerque, University of New Mexico, unpublished M.S. thesis, 112 p.<br><br>#1156 Wong, I., Kelson, K., Olig, S., Bott, J., Green, R., Kolbe, T., Hemphill-Haley, M., Gardner, J., Reneau, S., and Silva, W., 1996, Earthquake potential and ground shaking hazard at the Los Alamos National Laboratory, New Mexico, in Goff, F., Kues, B.S., Rogers, M.A., McFadden, L.D., and Gardner, J.N., eds., The Jemez Mountains region: New Mexico Geological Society, 47th Field Conference, September 25-28, 1996, Guidebook, p. 135–142.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.<br><br>#1130 Woodward, L.A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 42, 84 p., 1 pl., scale 1:100,000.<br><br>#1131 Woodward, L.A., and DuChene, H.R., 1975, Geometry of the Sierrita fault and its bearing on tectonic development of the Rio Grande rift, New

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| | Mexico: Geology, v. 3, p. 114–116.<br><br>#1133 Woodward, L.A., and Ruetschilling, R.L., 1976, Geology of San Ysidro quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 37, 1 sheet, scale 1:24,000.<br><br>#1132 Woodward, L.A., DuChene, H.R., and Martinez, R., 1977, Geology of Gilman quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 45, scale 1:24,000.<br><br>#1427 Wright, H.E., Jr., 1946, Tertiary and Quaternary geology of the lower Rio Puerco area, New Mexico: Geological Society of America Bulletin, v. 57, p. 383-456. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Jemez-San Ysidro fault, San Ysidro section (Class A) No. 2029b

**Last Review Date: 2015-02-20**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Kelson, K.I., Personius, S.F., Haller, K.M., Koning, D.J., and Jochems, A.P., compilers, 2015, Fault number 2029b, Jemez-San Ysidro fault, San Ysidro section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:21 AM.**

**Synopsis**

**General:** The Jemez-San Ysidro fault is a steeply east-dipping normal fault that, in part, forms the active western margin of the Rio Grande rift south of the Valles caldera. The fault is divided into sections on the basis of a 45° change in fault strike at the latitude of Cañones and evidence for young (Holocene) rupture along its southern section. The northern, northeast-striking section of the fault (Jemez section) is aligned with northeast-striking faults within the collapsed center of the Valles caldera and the Embudo fault, and is coincident with the Jemez Lineament. The central fault (San Ysidro section) merges with the southern fault (Calabacillas section) about 7 km south of the town of San Ysidro.

**Sections:** This fault has 3 sections. The Jemez-San Ysidro fault consists of a northeast-striking fault (the Jemez fault of Goff and Kron, 1980 #1099), and north-striking faults along the northwestern margin of the Albuquerque basin (the Jemez and San Ysidro faults of Woodward, 1987 #1130). The boundary between the northern (Jemez) and central (San Ysidro) sections is placed at the 45° change in fault strike near Cañones. The boundary between the central and southern (Calabacillas) sections is near Arroyo Piedra Parada, 7 km south of San Ysidro. These sections

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| | are distinguished primarily on the basis of younger demonstrated displacement on the Calabacillas section, a prominent down-to-the-east normal fault that offsets the west side of the Llano de Albuquerque along the western margin of the Rio Grande rift. |
| **Name comments** | **General:** The Jemez-San Ysidro fault extends from the latitude of the Albuquerque Volcanoes north to the southern rim of the Valles caldera near Highway 4. As used herein, the Jemez-San Ysidro fault includes the northeast-striking faults referred to as the Jemez fault zone by Goff and Kron (1980 #1099) and Goff and others (1981 #1182), the north-striking Sierrita fault of Woodward and DuChene (1975 #1131), Aldrich (1986 #1084), and Woodward (1987 #1130); the north-striking San Ysidro fault of Woodward and Ruetschilling (1976 #1133), Hawley and Galusha (1978 #1103), and Woodward (1987 #1130); and the north-striking Calabacillas fault of Bryan and McCann (1937 #1288, fig. 4), Wright (1946 #1427) and Cather and others (1997 #1763). All of these faults are grouped together herein because of lateral continuity (Wong and others, 1995 #1155; Koning and others, 1998 #7375).<br><br>**Section:** This part of the Jemez-San Ysidro fault was named the San Ysidro section by Wong and others (1995 #1155). The section extends from Crow Springs, about 5 km west of Cañones on the north to near Arroyo Piedra Parada, 7 km south of San Ysidro, where it joins with the Calabacillas section (e.g., Kelley, 1977 #1106; correlation implied by fault name convention of Koning and others, 1998 #7375; Connell, 2008 #7454). |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br>SOUTHERN ROCKY MOUNTAINS <br>COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Detailed geologic maps at a scale of 1:24,000 are available along the entire fault trace (Woodward and Ruetschilling, 1976 #1133; 1977 #1132), which are compiled and synthesized by Woodward (1987 #1130). Formento-Trigilio (1997 #1377) and Formento-Trigilio and others (1998 #7249) mapped Quaternary deposits and faults near Jemez Pueblo and San Ysidro at 1:24,000 scale. Additional detailed mapping of parts of the fault zone can be found in Koning and others (1998 #7375), Minor and Hudson (2006 #7246), and Caine and Minor (2009 #7244). <P> |

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| **Geologic setting** | The Jemez-San Ysidro fault forms the northwestern margin of the Albuquerque basin, although the amount of Quaternary vertical separation is less than that along other rift-margin faults. Aldrich (1986 #1084) stated that the fault was the western margin of the Rio Grande rift during the Oligocene, and that activity later stepped eastward to the Pajarito fault zone [2008]. Wong and others (1995 #1155) and House and Hartse (1995 #1160) identified seismicity aligned along the northern part of the fault. <P> |
| **Length (km)** | This section is 34 km of a total fault length of 92 km. |
| **Average strike** | N2°W (for section) versus N14°E (for whole fault) |
| **Sense of movement** | Normal<br><br>*Comments:* Woodward and DuChene (1975 #1131) characterize movement along the fault as dominantly dip-slip with a minor right-slip component. Down-to-the-east normal displacement is consistent with the occurrence of Tertiary rift-fill sediments (Zia Sand Formation) on the east faulted against Precambrian rocks on the west (Woodward, 1987 #1130). <P> |
| **Dip** | 58°–70° E.<br><br>*Comments:* Hudson and others (2008 #7245) report the fault dips eastward at 58° to 70° based on magnetic susceptibility studies. Caine and Minor (2009 #7244) report variable oblique slip along strike based on slickenline data; the variation is controlled by the geometry of the fault, which is interpreted to have an average dip of 66° to the east (Caine and Minor, 2009 #7244). Advances in interpreting fault dip from aeromagnetic expression will improve the fault's three-dimensional geometry in the future. <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | Moderate geomorphic expression in bedrock is apparent on aerial photography, as a result of juxtaposition of different rock types and differential erosion. Short fault scarps and fault exposures in middle and late Pleistocene alluvial deposits have been mapped on several strands of the San Ysidro section near Jemez Pueblo and San Ysidro near the southern end of the fault (Formento-Trigilio and Pazzaglia, 1996 #1295; Formento-Trigilio, 1997 #1377; |

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| | Formento-Trigilio and others, 1998 #7249). They measured offsets of 2–11 m on middle Pleistocene alluvial deposits along several strands of the fault. The numerous subparallel faults identified from high-resolution aeromagnetic data (Grauch and Hudson, 2007 #7243) are not included because of lack of reported recognized surface expression. <P> |
| **Age of faulted surficial deposits** | The youngest faulted bedrock mapped along the San Ysidro section is the Miocene Zia Sand Formation (Woodward and Ruetschilling, 1976 #1133; 1987 #1130). Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Formento-Trigilio and others (1998 #7294) map and describe fault scarps on fluvial and alluvial-fan deposits in the Jemez River drainage. The clearest evidence of faulting is found in deposits that contain the Lava Creek B ash; these sediments were deposited about 620 ka (Izett and Wilcox, 1982 #1708; Sarna-Wojcicki and others, 1987 #1707). Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) also described probable offset of a 100–200 ka terrace strath; some offset deposits along the San Ysidro section may be late Pleistocene in age. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* The timing of the most-recent event is unknown. Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) found offsets in 620-ka alluvial deposits, and probable faulting of a middle- to late-Pleistocene (100–200 ka) fluvial terrace. These relations indicate that the San Ysidro section has been active in middle and probably late Pleistocene time. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) measured offsets of as much as 6–11 m on several strands of the San Ysidro section in alluvial deposits containing the 620 ka Lava Creek B ash; these data support a low long-term slip rate. |

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| **Date and Compiler(s)** | 2015<br>Keith I. Kelson, William Lettis & Associates, Inc.<br>Stephen F. Personius, U.S. Geological Survey<br>Kathleen M. Haller, U.S. Geological Survey<br>Daniel J. Koning, New Mexico Bureau of Geology & Mineral Resources<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
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Socorro-Santa Fe, New Mexico—Bernalillo to south of San Ysidro, in Hawley, J.W., ed., Guide to Rio Grande rift in New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources Circular 163, p. 177-183.<br><br>#1160 House, L., and Hartse, H., 1995, Seismicity and faults in northern New Mexico, in Bauer, P.W., Kues, B.S., Dunbar, N.W., Karlstrom, K.E., and Harrison, B., eds., Geology of the Santa Fe region, New Mexico: New Mexico Geological Society, 46th Field Conference, September 27-30, 1995, Guidebook, p. 135–137.<br><br>#7245 Hudson, M.R., Grauch, V.J.S., and Minor, S.A., 2008, Rock magnetic characterization of faulted sediments with associated magnetic anomalies in the Albuquerque Basin, Rio Grande rift, New Mexico: Geological Society of America Bulletin, v. 120, no. 5-6, p. 641–658.<br><br>#1708 Izett, G.A., and Wilcox, R.E., 1982, Map showing localities and inferred distributions of the Huckleberry Ridge, Mesa Falls, and Lave Creek ash beds (Pearlette family ash beds) of Pleistocene age in the Western United States and southern Canada: U.S. Geological Survey Miscellaneous Investigations Map I-1325, 1 sheet, scale 1:4,000,000.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#7249 Kelson, K.I., Bauer, P.W., Unruh, J.R., and Bott, J.D.J., 2004, Late Quaternary characteristics of the northern Embudo fault, Taos County, New Mexico, in Brister, B.S., Bauer, P.W., Read, A.S., and Lueth, V.W., eds., Geology of the Taos region, New Mexico: New Mexico Geological Society, 55th Annual Field Conference, Guidebook, p. 147–157.<br><br>#7375 Koning, D.J., Pederson, J., Pazzaglia, F.J., and Cather, S.M., 1998, Geology of the Cerro Conejo (Sky Village NE) 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 45, scale 1:24,000.<br><br>#7246 Minor, S.A., and Hudson, M.R., 2006, Regional survey of structural properties and cementation patterns of fault zones in the northern part of the Albuquerque Basin, New Mexico—Implications for ground-water flow: U.S. Geological Survey Professional Paper 1719, 32 p.<br><br>#1707 Sarna-Wojcicki, A.M., Morrison, S.D., Meyer, C.E., and Hillhouse, J.W., 1987, Correlation of upper Cenozoic tephra layers between sediments of the Western United States and eastern Pacific Ocean and comparison with biostratigraphic and magnetostratigraphic age data: Geological Society of America Bulletin, v. 98, p. 207-223.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.<br><br>#1130 Woodward, L.A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 42, 84 p., 1 pl., scale 1:100,000.<br><br>#1131 Woodward, L.A., and DuChene, H.R., 1975, Geometry of the Sierrita fault and its bearing on tectonic development of the Rio Grande rift, New Mexico: Geology, v. 3, p. 114–116.<br><br>#1133 Woodward, L.A., and Ruetschilling, R.L., 1976, Geology of San Ysidro quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 37, 1 sheet, scale

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| | 1:24,000.<br><br>#1132 Woodward, L.A., DuChene, H.R., and Martinez, R., 1977, Geology of Gilman quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 45, scale 1:24,000.<br><br>#1427 Wright, H.E., Jr., 1946, Tertiary and Quaternary geology of the lower Rio Puerco area, New Mexico: Geological Society of America Bulletin, v. 57, p. 383-456. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## Mesa Prieta faults (Class A) No. 1985

Last Review Date: 2016-01-01

*citation for this record:* Jochems, A.P., compiler, 2016, Fault number 1985, Mesa Prieta faults, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:22 AM.

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| **Synopsis** | |
| **Name comments** | |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:100,000 scale.<br><br>*Comments:* <P> |
| **Geologic setting** | <P> |
| **Length (km)** | 12 km. |

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| **Average strike** | |
| **Sense of movement** | Normal |
| **Dip Direction** | NW; SE |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | <P> |
| **Age of faulted surficial deposits** | |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr |
| **Date and Compiler(s)** | 2016<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## Nacimiento fault, northern section (Class A) No. 2002a

**Last Review Date: 2015-12-14**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Kelson, K.I., Jochems, A.P., and Personius, S.F., compilers, 2015, Fault number 2002a, Nacimiento fault, northern section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:22 AM.**

**Synopsis**

**General:** The Nacimiento fault is an east-dipping fault bordering the Nacimiento uplift, an 80-km-long, 10- to 16-km-wide uplift related to Laramide deformation. The fault merges with the Gallina fault to the north, and dies out to the south into a broad anticline. The relatively high level of contemporary microseismicity within the Sierra Nacimiento may be related to deformation in the hanging wall of the fault. Detailed mapping along the southern part of the fault shows several short normal faults with both down-to-the-east and down-to-the-west displacements in Quaternary deposits. Down-to-the-east displacements may indicate normal reactivation of the Nacimiento reverse fault in the late Quaternary.

**Sections:** This fault has 2 sections. Woodward (1987 #1130) mapped the Nacimiento and Pajarito faults along the western margin of the Sierra Nacimiento. He noted the lack of continuity between these faults in the vicinity of San Miguel Canyon (section boundary), about 3 km southeast of the village of San Miguel. North of San Miguel Canyon, the fault generally has a lower dip and is a thrust fault, whereas south of San Miguel Canyon the fault is a high-angle reverse fault. Wong and others (1995 #1155) considered potential fault-rupture scenarios that included

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| | rupture on either a northern section or a southern section, and on both sections together. These sections are considered separately here. |
| **Name comments** | **General:** The Nacimiento fault extends from Red Mesa, 7 km west of San Ysidro on the south, to the northern end of Sierra Nacimiento, 7 km northeast of Regina. The Nacimiento fault forms the western margin of the Laramide Nacimiento uplift. As used herein, the Nacimiento fault includes the Nacimiento and Pajarito faults of Woodward (1987 #1130), to avoid confusion with the Pajarito fault [2008] along the western margin of the Rio Grande rift near Los Alamos.<br><br>**Section:** This part of the Nacimiento fault was defined as the northern section by Wong and others (1995 #1155). The northern section extends from San Miguel Canyon about 3 km southeast of the village of San Miguel to the northern end of Sierra Nacimiento, 7 km northeast of Regina. |
| **County(s) and State(s)** | RIO ARRIBA COUNTY, NEW MEXICO <br>SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Detailed geologic maps at a scale of 1:24,000 are available along the entire fault trace; 1:24,000 maps covering the northern section are those of Woodward and others (1972 #7292; 1973 #7293) and Merrick and Woodward (1982 #7291). These maps are compiled and synthesized by Woodward (1987 #1130). The location of the fault was digitized at 1:24,000 scale using photogrammetry to accurately map its trace from these maps. The fault was also mapped by Renick (1931 #1140) at a scale of 1:125,000 and by Wood and Northrop (1946 #1143) at a scale of about 1:95,000. <P> |
| **Geologic setting** | The Nacimiento fault is high-angle and over much of its geologic history a west-vergent reverse fault. The Nacimiento uplift is a north-south elongated structural block that lies west of the Jemez Mountains and forms the eastern margin of the San Juan Basin of the Colorado Plateau. Structural relief of the uplift formed during Laramide deformation, with shortening taking place via folding and reverse movement along the Nacimiento fault. The fault is west of the western margin of the Rio Grande rift. Quaternary normal faulting near Arroyo Peñasco |

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| | documented by Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Formento-Trigilio and Pazzaglia (1998 #2847) may indicate normal reactivation of the Nacimiento reverse fault. The relatively high level of contemporary microseismicity within the Sierra Nacimiento supports the interpretation of Quaternary deformation in the hanging wall of the fault (Wong and others, 1995 #1155; House and Hartse, 1995 #1160). <P> |
| **Length (km)** | This section is 36 km of a total fault length of 82 km. |
| **Average strike** | N3°E (for section) versus N1°W (for whole fault) |
| **Sense of movement** | Normal<br><br>*Comments:* West-vergent thrusting occurred during Laramide deformation. Sense of movement associated with contemporary microseismicity is unknown, but normal backslip may be likely in the present extensional regime. <P> |
| **Dip** | 45°–60° E.<br><br>*Comments:* Bedrock exposures of the fault noted by Woodward (1987 #1130) provide near-surface data on fault dip. Woodward (1987 #1130) speculates that the fault steepens with depth, although there are no published deep structural data for the fault. <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | Prominent west-facing range front of the Sierra Nacimiento is coincident with the Nacimiento fault. Baltz (1967 #1167) did not find geomorphic evidence of late Quaternary movement. Formento-Trigilio and Pazzaglia (1998 #2847) described low to moderate scarps on middle to late Pleistocene terrace and pediment-fan surfaces along the southern section <P> |
| **Age of faulted surficial deposits** | Youngest faulted bedrock is Cretaceous in age, although there are little or no data on the presence or absence of displaced late Quaternary deposits along the northern section. Manley and others (1987 #1119) map undisplaced Quaternary gravel across the fault trace at Rito de los Pinos, about 10 km northeast of the town of Cuba. |

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| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* Timing of most-recent event on northern section unknown. Prominent geomorphic expression along the range front and possible association with contemporary microseismicity suggest late Quaternary activity (Wong and others, 1995 #1155; House and Hartse, 1995 #1160). <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Low slip-rate category assigned based on the lack of evidence for Quaternary displacement along the northern section. |
| **Date and Compiler(s)** | 2015<br>Keith I. Kelson, William Lettis & Associates, Inc.<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources<br>Stephen F. Personius, U.S. Geological Survey |
| **References** | #1167 Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous and Tertiary rocks east-central San Juan Basin New Mexico: U.S. Geological Survey Professional Paper 552, 99 p., 1 pl., scale 1:377,000.<br><br>#1377 Formento-Trigilio, M.L., 1997, The tectonic geomorphology and long-term landscape evolution of the southern Sierra Nacimiento, northern New Mexico: Albuquerque, University of New Mexico, unpublished M.S. thesis, 201 p., 1 pl., scale 1:24,000.<br><br>#1295 Formento-Trigilio, M.L., and Pazzaglia, F.J., 1996, Quaternary stratigraphy, tectonic geomorphology and long-term landscape evolution of the southern Sierra Nacimiento, in Goff, F., Kues, B.S., Rogers, M.A., McFadden, L.D., and Gardner, J.N., eds., The Jemez Mountains region: New Mexico Geological Society, 47th Field Conference, September 25-28, 1996, Guidebook, p. 335-345.<br><br>#2847 Formento-Trigilio, M.L., and Pazzaglia, F.J., 1998, Tectonic geomorphology of the Sierra Nacimiento—Traditional and new techniques in assessing long-term landscape evolution in the southern Rocky Mountains: Journal of Geology, v. 106, p. 433-453.<br><br>#1160 House, L., and Hartse, H., 1995, Seismicity and faults in northern New Mexico, in Bauer, P.W., Kues, B.S., Dunbar, N.W., Karlstrom, K.E., and Harrison, B., |

eds., Geology of the Santa Fe region, New Mexico: New Mexico Geological Society, 46th Field Conference, September 27-30, 1995, Guidebook, p. 135–137.<br><br>#1119 Manley, K., Scott, G.R., and Wobus, R.A., 1987, Geologic map of the Aztec 1° by 2° quadrangle, northwestern New Mexico and southern Colorado: U.S. Geological Survey Miscellaneous Investigations Map I-1730, 1 sheet, scale 1:250,000.<br><br>#7291 Merrick, M.A., and Woodward, L.A., 1982, Geology of Regina quadrangle, Rio Arriba and Sandoval Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 46, scale 1:24,000.<br><br>#6930 Personius, S.F., Machette, M.N., and Kelson, K.I., 1999, Quaternary faults in the Albuquerque area—An update, in Pazzaglia, F.J., and Lucas, S.G., eds., Albuquerque geology: New Mexico Geological Society 50th Annual Field Conference, Guidebook, September 22–25, p. 189–200.<br><br>#1140 Renick, B.C., 1931, Geology and ground-water resources of western Sandoval County, New Mexico: U.S. Geological Survey Water-Supply Paper 620, 117 p., 10 pls.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.<br><br>#1143 Wood, G.H., Jr., and Northrop, S.A., 1946, Geology of the Nacimiento Mountains, San Pedro Mountain, and adjacent plateaus in parts of Sandoval and Rio Arriba Counties, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map 57, scale 1:95,000.<br><br>#1130 Woodward, L.A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 42, 84 p., 1 pl., scale 1:100,000.<br><br>#7293 Woodward, L.A., Anderson, J.B., Kaufman, W.H., and Reed, R.K., 1973, Geologic map and sections of San Pablo quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 26, scale 1:24,000.<br><br>#7292 Woodward, L.A., McLelland, D., and Kaufman, W.H., 1972, Geologic map of Cuba quadrangle: New Mexico Bureau of Mines and Mineral Resources Geologic Map 25, scale 1:24,000.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Nacimiento fault, southern section (Class A) No. 2002b

**Last Review Date: 2015-12-14**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Kelson, K.I., Jochems, A.P., and Personius, S.F., compilers, 2015, Fault number 2002b, Nacimiento fault, southern section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:23 AM.**

**Synopsis**

**General:** The Nacimiento fault is an east-dipping fault bordering the Nacimiento uplift, an 80-km-long, 10- to 16-km-wide uplift related to Laramide deformation. The fault merges with the Gallina fault to the north, and dies out to the south into a broad anticline. The relatively high level of contemporary microseismicity within the Sierra Nacimiento may be related to deformation in the hanging wall of the fault. Detailed mapping along the southern part of the fault shows several short normal faults with both down-to-the-east and down-to-the-west displacements in Quaternary deposits. Down-to-the-east displacements may indicate normal reactivation of the Nacimiento reverse fault in the late Quaternary.

**Sections:** This fault has 2 sections. Woodward (1987 #1130) mapped the Nacimiento and Pajarito faults along the western margin of the Sierra Nacimiento. He noted the lack of continuity between these faults in the vicinity of San Miguel Canyon (section boundary), about 3 km southeast of the village of San Miguel. North of San Miguel Canyon, the fault generally has a lower dip and is a thrust fault, whereas south of San Miguel Canyon the fault is a high-angle reverse fault. Wong and others (1995 #1155) considered potential fault-rupture scenarios that included

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| | rupture on either a northern section or a southern section, and on both sections together. These sections are considered separately here. |
| **Name comments** | **General:** The Nacimiento fault extends from Red Mesa, 7 km west of San Ysidro on the south, to the northern end of Sierra Nacimiento, 7 km northeast of Regina. The Nacimiento fault forms the western margin of the Laramide Nacimiento uplift. As used herein, the Nacimiento fault includes the Nacimiento and Pajarito faults of Woodward (1987 #1130), to avoid confusion with the Pajarito fault [2008] along the western margin of the Rio Grande rift near Los Alamos.<br><br>**Section:** This part of the Nacimiento fault was defined as the southern section by Wong and others (1995 #1155). The southern section extends from U.S. Highway 44 about 7 km west of the village of San Ysidro, northward to San Miguel Canyon about 3 km southeast of the village of San Miguel. |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Detailed geologic maps at a scale of 1:24,000 are available along the entire fault trace; 1:24,000 maps covering the southern section include those of Woodward and Schumacher (1973 #7295) and Woodward and others (1973 #7293; 1977 #1132). These maps are compiled and synthesized by Woodward (1987 #1130). In addition, detailed mapping of Quaternary deposits at 1:24,000 scale at the southern end of the fault has been completed by Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Formento-Trigilio and others (1998 #7294). The location of the fault was digitized at 1:24,000 scale using photogrammetry to accurately map its trace from these maps. The fault also was mapped by Renick(1931 #1140) at a scale of 1:125,000, by Wood and Northrop (1946 #1143) at a scale of about 1:95,000, and by Baltz (1967 #1167) at a scale of 1:63,360. <P> |
| **Geologic setting** | The Nacimiento fault is high-angle and over much of its geologic history a west-vergent reverse fault. The Nacimiento uplift is a north-south elongated structural block that lies west of the Jemez Mountains and forms the |

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| | eastern margin of the San Juan Basin of the Colorado Plateau. Structural relief of the uplift formed during Laramide deformation, with shortening taking place via folding and reverse movement along the Nacimiento fault. The fault is west of the western margin of the Rio Grande rift. Quaternary normal faulting near Arroyo Peñasco documented by Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Formento-Trigilio and Pazzaglia (1998 #2847) may indicate normal reactivation of the Nacimiento reverse fault. The relatively high level of contemporary microseismicity within the Sierra Nacimiento supports the interpretation of Quaternary deformation in the hanging wall of the fault (Wong and others, 1995 #1155; House and Hartse, 1995 #1160). <P> |
| **Length (km)** | This section is 45 km of a total fault length of 82 km. |
| **Average strike** | N4°W (for section) versus N1°W (for whole fault) |
| **Sense of movement** | Normal<br><br>*Comments:* West-vergent reverse faulting occurred during Laramide deformation on the Nacimiento fault (Woodward, 1987 #1130). Sense of movement associated with contemporary microseismicity is unknown, but down-to-the-east and down-to-the-west Quaternary normal faults have been mapped by Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Koning and others (1998 #7375) near Arroyo Peñasco and Cañada de las Milpas at the southern end of the fault. The down-to-the-west normal faults are in the footwall of the Nacimiento reverse fault, but the down-to-the-east Quaternary movement on one fault strand may be interpreted as normal backslip on a splay of the reverse fault (Formento-Trigilio and Pazzaglia, 1996 #1295; Formento-Trigilio, 1997 #1377). <P> |
| **Dip** | 75°–90° E.<br><br>*Comments:* Bedrock exposures of the fault noted by Woodward (1987 #1130) provide near-surface data on fault dip. Although exposures of the main trace of the Laramide Nacimiento fault clearly show steep east dips, west dipping synthetic and antithetic faults are locally present (Woodward, 1987 #1130). Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) mapped several normal faults in Quaternary deposits with both east and west dips near Arroyo Peñasco at the southern end of the Nacimiento fault. Woodward (1987 #1130) speculated that the fault steepens with depth, although no published subsurface structural data are available to confirm this interpretation. <P> |

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| **Paleoseismology studies** | Formento-Trigilio and Pazzaglia (1996 #1295), Formento-Trigilio (1997 #1377), and Formento-Trigilio and others (1998 #7294) mapped Quaternary deposits and faults in detail near Arroyo Peñasco at the southern end of the Nacimiento fault. Most of the Quaternary faults mapped by these workers dip west, opposite to the dip of the bedrock fault mapped by Woodward (1987 #1130) in the area. These faults are as much as 2 km long and are marked by scarps up to 17 m high, although some of this apparent displacement may be related to landsliding in the underlying Triassic shale bedrock. Down-to-the-east Quaternary displacement of 4.2 m of travertine-cemented alluvium on one fault strand on the north rim of Arroyo Peñasco may either represent normal reactivation on a trace of the Nacimiento reverse fault mapped by Woodward (1987 #1130), or is an antithetic splay to the down-to-the-west faults mapped further east by Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377). <P> |
| **Geomorphic expression** | The prominent west-facing range front of the Sierra Nacimiento is coincident with the Nacimiento fault. Baltz (1967 #1167) did not identify geomorphic evidence of late Quaternary activity, but Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) discuss evidence of multiple fault strands with Quaternary displacement along the southern end of the Sierra Nacimiento near Arroyo Peñasco. Scarps on middle to late Pleistocene terrace and pediment-fan surfaces in this area are up to 4.2 m high (Formento-Trigilio and Pazzaglia, 1998 #2847). <P> |
| **Age of faulted surficial deposits** | Although the youngest faulted bedrock mapped along the Nacimiento fault is Cretaceous in age (Woodward, 1987 #1130), Formento-Trigilio and Pazzaglia (1996 #1295) and Formento-Trigilio (1997 #1377) map fault scarps and infer displacements from geomorphic data in late Pleistocene alluvial deposits near Arroyo Peñasco at the southern end of the Nacimiento fault. Uranium-series ages on faulted, travertine-cemented alluvium indicate the faulted alluvium was deposited between about 270 ka and about 60 ka (Formento-Trigilio, 1997 #1377). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* Timing of most-recent event is from uranium-series dating of faulted travertine-cemented alluvium by Formento-Trigilio (1997 #1377) that bracket the age of the offset alluvium between about 270 ka and 60 ka. <P> |

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| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Wong and others (1995 #1155) conservatively estimated a range in slip rate of 0.01 to 0.23 mm/yr for the Nacimiento fault, with a preferred value of 0.02 mm/yr, based on analysis of slip rates on analogous faults in the Rio Grande rift (Formento-Trigilio and Pazzaglia, 1996 #1295; Formento-Trigilio, 1997 #1377). A rate of up to 0.07 mm/yr may be permissible depending on the age of displaced travertine-cemented alluvium (Personius and others, 1999 #6930). |
| **Date and Compiler(s)** | 2015<br>Keith I. Kelson, William Lettis & Associates, Inc.<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources<br>Stephen F. Personius, U.S. Geological Survey |
| **References** | #1167 Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous and Tertiary rocks east-central San Juan Basin New Mexico: U.S. Geological Survey Professional Paper 552, 99 p., 1 pl., scale 1:377,000.<br><br>#1377 Formento-Trigilio, M.L., 1997, The tectonic geomorphology and long-term landscape evolution of the southern Sierra Nacimiento, northern New Mexico: Albuquerque, University of New Mexico, unpublished M.S. thesis, 201 p., 1 pl., scale 1:24,000.<br><br>#1295 Formento-Trigilio, M.L., and Pazzaglia, F.J., 1996, Quaternary stratigraphy, tectonic geomorphology and long-term landscape evolution of the southern Sierra Nacimiento, in Goff, F., Kues, B.S., Rogers, M.A., McFadden, L.D., and Gardner, J.N., eds., The Jemez Mountains region: New Mexico Geological Society, 47th Field Conference, September 25-28, 1996, Guidebook, p. 335-345.<br><br>#2847 Formento-Trigilio, M.L., and Pazzaglia, F.J., 1998, Tectonic geomorphology of the Sierra Nacimiento—Traditional and new techniques in assessing long-term landscape evolution in the southern Rocky Mountains: Journal of Geology, v. 106, p. 433-453.<br><br>#7294 Formento-Trigilio, M.L., Toya, C., and Pazzaglia, F.J., 1998, Quaternary geologic map of the San Ysidro quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 18Q, scale 1:24,000<br><br>#1160 House, L., and Hartse, H., 1995, Seismicity and faults in northern New Mexico, in Bauer, P.W., Kues, B.S., Dunbar, N.W., Karlstrom, K.E., and Harrison, B., eds., Geology of the Santa Fe region, New Mexico: New Mexico Geological Society, 46th Field Conference, September 27-30, 1995, Guidebook, p. 135–137.<br><br>#7375 Koning, D.J., Pederson, J., Pazzaglia, F.J., and Cather, S.M., 1998, Geology of the Cerro Conejo (Sky Village NE) 7.5-minute quadrangle, Sandoval County, |

New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 45, scale 1:24,000.<br><br>#6930 Personius, S.F., Machette, M.N., and Kelson, K.I., 1999, Quaternary faults in the Albuquerque area—An update, in Pazzaglia, F.J., and Lucas, S.G., eds., Albuquerque geology: New Mexico Geological Society 50th Annual Field Conference, Guidebook, September 22–25, p. 189–200.<br><br>#1140 Renick, B.C., 1931, Geology and ground-water resources of western Sandoval County, New Mexico: U.S. Geological Survey Water-Supply Paper 620, 117 p., 10 pls.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.<br><br>#1143 Wood, G.H., Jr., and Northrop, S.A., 1946, Geology of the Nacimiento Mountains, San Pedro Mountain, and adjacent plateaus in parts of Sandoval and Rio Arriba Counties, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map 57, scale 1:95,000.<br><br>#1130 Woodward, L.A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 42, 84 p., 1 pl., scale 1:100,000.<br><br>#7293 Woodward, L.A., Anderson, J.B., Kaufman, W.H., and Reed, R.K., 1973, Geologic map and sections of San Pablo quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 26, scale 1:24,000.<br><br>#7295 Woodward, L.A., and Schumacher, O.L., 1973, Geologic map and sections of La Ventana quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 28, scale 1:24,000.<br><br>#1132 Woodward, L.A., DuChene, H.R., and Martinez, R., 1977, Geology of Gilman quadrangle, New Mexico: New Mexico Bureau of Mines and Mineral Resources Geologic Map 45, scale 1:24,000.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## San Felipe fault zone, Algodones section (Class A) No. 2030b

**Last Review Date: 2016-06-28**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., Kelson, K.I., and Jochems, A.P., compilers, 2016, Fault number 2030b, San Felipe fault zone, Algodones section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:29 AM.**

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| **Synopsis** | **General:** The San Felipe fault zone is a broad zone of normal faults that offset basalts of the San Felipe volcanic field and underlying Santa Fe Group sedimentary rocks. The fault zone is best expressed where individual fault strands offset the volcanic tablelands of Santa Ana Mesa. The fault zone is primarily a graben, centered on the westernmost of two north-trending eruptive centers in the volcanic field. This structure, the San Felipe graben, is bound on the west by the down-to-the-east Luce and Santa Ana faults, and on the east by the down-to-the-west Algodones fault. Most of these faults offset the 2.4–2.6 Ma basalt flows of the San Felipe volcanic field. Average displacements on most faults are 15–30 m, although some of the larger structures, such as the Luce fault, have as much as 90–120 m of vertical displacement.<br><br>**Sections:** This fault has 2 sections. Wong and others (1995 #1155) used the polarity of faults in the San Felipe fault zone to delineate two sections: down-to-the-east faults that form the western margin of the San Felipe graben (Santa Ana and Luce faults) are included in the Santa Ana section, and down-to-the-west faults that form the eastern margin of the graben (Algodones fault) are include in the Algodones section. They assumed that one of |

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| | these sections is a "master fault" that controls both sections, but they did not have enough subsurface data to support either scenario. |
| **Name comments** | **General:** This complex of numerous, generally north-trending normal faults near Santa Ana Mesa was first mapped in detail by Soister (1952 #1418). Kelley (1954 #1222) followed Soister's mapping closely in his compilation, and applied the name San Felipe fault zone to these structures. Later maps by Smith and others (1970 #1125), Kelley (1977 #1106), and Kelley and Kudo (1978 #1307) show similar fault patterns. Kelley (1977 #1106) named many of the more prominent structures in the zone, such as the Santa Ana, Luce, Cocida, and Algodones faults and the San Felipe graben. In their compilation, Wong and others (1995 #1155) used the name "San Felipe fault zone".<br><br>**Section:** The Algodones section includes the Algodones fault of Kelley (1977 #1106) and numerous smaller displacement down-to-the-west faults that form the east flank of the San Felipe graben. Some strands of the Algodones section of the San Felipe fault zone have been projected southward across the Rio Grande and connected with parts of the Valley View fault (Kelley, 1977 #1106; Wong and others, 1995 #1155), but detailed mapping by Connell (1995 #1291), Connell and others (1995 #1764), and Cather and Connell (1998 #7435) shows that strands of the Valley View fault trend northeasterly at their northern ends and probably do not connect with the San Felipe fault zone. |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault locations are good where faults cut volcanic rocks, but locations are poor in the less resistant Santa Fe Group rocks. Fault traces are from 1:24,000-scale maps of Cather and Connell (1998 #7435), Connell (1998 #7502), Smith and Kuhle (1998 #1771), Chamberlin and others (1999 #7524), and Personius (2002 #7526). A.P. Jochems used photogrammetric methods to accurately place fault traces in some locations. <P> |
| **Geologic setting** | The San Felipe fault zone is located in the western part of the Santo Domingo basin of the Rio Grande rift as defined by Smith and others (2001 #7438). The Santo Domingo basin links the en echelon Albuquerque and Española |

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| | basins, and kinematic and paleostress evidence suggests that the basin functions as a relay that began to narrow in Plio-Pleistocene time (Minor and others, 2013 #7437). The fault zone forms a north-trending graben within the San Felipe volcanic field. Although Wong and others (1995 #1155) conclude that this graben is a minor sub-basin within the Rio Grande rift, the narrowing of the fault zone within the volcanic field indicates that the geometry of the fault zone may be in part controlled by volcanic activity (for example, van Wyk de Vries and Merle, 1996 #1422). <P> |
| **Length (km)** | This section is 45 km of a total fault length of 48 km. |
| **Average strike** | N7°W (for section) versus N1°E (for whole fault) |
| **Sense of movement** | Normal |
| **Dip** | 64–74° W<br><br>*Comments:* Dips of 64–74° are reported for west-dipping faults belonging to the Algodones section of the San Felipe fault zone (Connell, 1998 #7502; Personius, 2002 #7526). In addition, Connell (1998 #7502) reported a dip of 77° toward the east along one of the few east-dipping strands in the Algodones section 1.5 km northwest of Canjilon Hill in the Bernalillo 7.5-minute quadrangle <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The Algodones fault and other faults that cut the basalt flows of the San Felipe volcanic field are well preserved as escarpments covered by basalt talus. Where these structures are located in Santa Fe Group rocks, fault expression is poor. Soister (1952 #1418) and Kelley (1977 #1106) measured average displacements of 15–30 m in basalts on most structures in the San Felipe fault zone, and as much as 90–120 m on larger structures such as the Luce fault in the Santa Ana section. <P> |
| **Age of faulted surficial deposits** | Faults in the Algodones section offset the 2.4-2.6 Ma (Bachman and Mehnert, 1978 #1265; Smith and Kuhle, 1998 #1771) basalts of the San Felipe volcanic field and underlying Santa Fe Group sedimentary rocks. Soister (1952 #1418) describes offset of his early Pleistocene Mesita Alta gravel and surface, which overlies San Felipe basalt flows in several places. |

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| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* No detailed studies of the age of most recent movement have been conducted. However, early Pleistocene gravels are offset locally and 90–120 m of post-San Felipe basalt (2.4-2.6 Ma) displacement has occurred. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Wong and others (1995 #1155) calculated long-term slip rates of 0.01–0.04 mm/yr based on 90–120 m of displacement that has occurred on the Luce fault since deposition of the San Felipe basalt (2.4-2.6 Ma) and similar data. They also concluded that it is likely that some of the major faults within the San Felipe fault zone act as independent rupture segments, but could not rule out the possibility that some faults rupture together. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Keith I. Kelson, William Lettis & Associates, Inc.<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1265 Bachman, G.O., and Mehnert, H.H., 1978, New K-Ar dates and the late Pliocene to Holocene geomorphic history of the central Rio Grande region, New Mexico: Geological Society of America Bulletin, v. 89, p. 283-292.<br><br>#7435 Cather, S.M., and Connell, S.D., 1998, Geologic map of the San Felipe Pueblo quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 19, scale 1:24,000.<br><br>#1764 Cather, S.M., Connell, S.D., Karlstrom, K.E., Ilg, B., Menne, B., Bauer, P.W., and Andronicus, C., 1996, Geology of the Placitas SE 7.5-minute quadrangle, Sandoval County, central New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Digital Map OF-DM 2, 26 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#7524 Chamberlin, R.M., Pazzaglia, F.J., Wegmann, K.W., and Smith, G.A., 1999, Geologic map of the Loma Creston 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 25, scale 1:24,000.<br><br>#1291 Connell, S.D., 1995, Quaternary geology and |

geomorphology of the Sandia Mountains piedmont, Bernalillo and Sandoval Counties, central New Mexico: Riverside, University of California, unpublished M.S. thesis, 414 p., 3 pls.<br><br>#7502 Connell, S.D., 1998, Geology of the Bernalillo quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 16, scale 1:24,000.<br><br>#1222 Kelley, V.C., 1954, Tectonic map of a part of the upper Rio Grande area, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-157, 1 sheet, scale 1:190,080.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1307 Kelley, V.C., and Kudo, A.M., 1978, Volcanoes and related basalts of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 156, 29 p., 2 pls.<br><br>#7437 Minor, S.A., Hudson, M.R., Caine, J.S., and Thompson, R.A., 2013, Oblique transfer of extensional strain between basins of the middle Rio Grande rift, New Mexico—Fault kinematic and paleostress constrains, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins: From Tectonics to Groundwater: Geological Society of America Special Paper 494, p. 345–382.<br><br>#7526 Personius, S.F., 2002, Geologic map of the Santa Ana Pueblo quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2405, scale 1:24,000.<br><br>#1771 Smith, G.A., and Kuhle, A.J., 1998, Geologic map of the Santo Domingo Southwest quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map OF-DM 26, 1 sheet, scale 1:24,000.<br><br>#7438 Smith, G.A., McIntosh, W.C., and Kuhle, A.J., 2001, Sedimentologic and geomorphic evidence for seesaw subsidence of the Santo Domingo accommodation-zone basin, Rio Grande rift, New Mexico: Geological Society of America Bulletin, v. 113, no. 5, p. 561–574.<br><br>#1125 Smith, R.L., Bailey, R.A., and Ross, C.S., 1970, Geologic map of the Jemez Mountains, New Mexico: U.S. Geological Survey Miscellaneous Investigations Map I-571, 1 sheet, scale 1:125,000.<br><br>#1418 Soister, P.E., 1952, Geology of Santa Ana Mesa and adjoining areas, Sandoval County, New Mexico: Albuquerque, University of New Mexico, unpublished M.S. thesis, 126 p., 2 pls., scale 1:62,500.<br><br>#1422 van Wyk de Vries, B., and Merle, O., 1996, The effects of volcanic constructs on rift fault patterns: Geology, v. 24, p. 643-646.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## San Felipe fault zone, Santa Ana section (Class A) No. 2030a

**Last Review Date: 2016-06-28**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., Jochems, A.P., and Kelson, K.I., compilers, 2016, Fault number 2030a, San Felipe fault zone, Santa Ana section, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:29 AM.**

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| **Synopsis** | **General:** The San Felipe fault zone is a broad zone of normal faults that offset basalts of the San Felipe volcanic field and underlying Santa Fe Group sedimentary rocks. The fault zone is best expressed where individual fault strands offset the volcanic tablelands of Santa Ana Mesa. The fault zone is primarily a graben, centered on the westernmost of two north-trending eruptive centers in the volcanic field. This structure, the San Felipe graben, is bound on the west by the down-to-the-east Luce and Santa Ana faults, and on the east by the down-to-the-west Algodones fault. Most of these faults offset the 2.4–2.6 Ma basalt flows of the San Felipe volcanic field. Average displacements on most faults are 15–30 m, although some of the larger structures, such as the Luce fault, have as much as 90–120 m of vertical displacement.<br><br>**Sections:** This fault has 2 sections. Wong and others (1995 #1155) used the polarity of faults in the San Felipe fault zone to delineate two sections: down-to-the-east faults that form the western margin of the San Felipe graben (Santa Ana and Luce faults) are included in the Santa Ana section, and down-to-the-west faults that form the eastern margin of the graben (Algodones fault) are include in the Algodones section. They assumed that one of |

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| | these sections is a "master fault" that controls both sections, but they did not have enough subsurface data to support either scenario. |
| **Name comments** | **General:** This complex of numerous, generally north-trending normal faults near Santa Ana Mesa was first mapped in detail by Soister (1952 #1418). Kelley (1954 #1222) followed Soister's mapping closely in his compilation, and applied the name San Felipe fault zone to these structures. Later maps by Smith and others (1970 #1125), Kelley (1977 #1106), and Kelley and Kudo (1978 #1307) show similar fault patterns. Kelley (1977 #1106) named many of the more prominent structures in the zone, such as the Santa Ana, Luce, Cocida, and Algodones faults and the San Felipe graben. In their compilation, Wong and others (1995 #1155) used the name "San Felipe fault zone".<br><br>**Section:** The Santa Ana section includes the Santa Ana, Luce, and Cocida faults of Kelley (1977 #1106), the Tamaya fault of Personius (2002 #7526), and numerous smaller displacements, generally down-to-the-east faults that form the west flank of the San Felipe graben. This section also includes an unnamed, west-dipping fault of uncertain origin about 8 km west of the main fault zone (Pazzaglia and others, 1997 #7525). |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br>SOUTHERN ROCKY MOUNTAINS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault locations are good where faults cut volcanic rocks, but locations are poor in the less resistant Santa Fe Group rocks. Fault traces are from 1:24,000-scale maps of Pazzaglia and others (1997 #7525), Connell (1998 #7502), Chamberlin and others (1999 #7524), Personius (2002 #7526), and Kempter and others (2007 #7429). <P> |
| **Geologic setting** | The San Felipe fault zone is located in the western part of the Santo Domingo basin of the Rio Grande rift as defined by Smith and others (2001 #7438). The Santo Domingo basin links the en echelon Albuquerque and Española basins, and kinematic and paleostress evidence suggests that the basin functions as a relay that began to narrow in Plio-Pleistocene time (Minor and others, 2013 #7437). The fault zone forms a north-trending graben within the San Felipe volcanic field. Although Wong and others (1995 #1155) conclude that this graben is a minor sub-basin within |

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| | the Rio Grande rift, the narrowing of the fault zone within the volcanic field indicates that the geometry of the fault zone may be in part controlled by volcanic activity (for example, van Wyk de Vries and Merle, 1996 #1422). <P> |
| **Length (km)** | This section is 44 km of a total fault length of 48 km. |
| **Average strike** | N5°E (for section) versus N1°E (for whole fault) |
| **Sense of movement** | Normal |
| **Dip** | 60°E–90°<br><br>*Comments:* An exposed section of the Luce fault along highway 44 west of Bernalillo yielded an east dip of 82° (Kelley, 1977 #1106). Connell (1998 #7502) reported east dips of 67–80° on the Luce fault in the Bernalillo 7.5-minute quadrangle, and Chamberlin and others (1999 #7524) reported east to southeast dips of 65–70° for the Cocida fault near Borrego Canyon in the Loma Creston quadrangle. Reported dips for the Santa Ana fault range from 65–80° toward the east or southeast (Chamberlin and others, 1999 #7524). Numerous fault exposures in Santa Fe Group rocks in the Santa Ana Pueblo quadrangle have dips of 45–85°E (Personius, 2002 #7526). <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The Luce and other faults that cut the basalt flows of the San Felipe volcanic field are well preserved as escarpments covered by basalt talus. The Santa Ana fault and other faults that are only located in Santa Fe Group rocks are poorly expressed, except where they are marked in places by clastic dikes (Soister, 1952 #1418) or strongly cemented zones (Minor and Hudson, 2006 #7246). Soister (1952 #1418) and Kelley (1977 #1106) measured average displacements of 15–30 m in basalts on most structures in the fault zone, and as much as 90–120 m on larger structures such as the Luce fault. <P> |
| **Age of faulted surficial deposits** | Faults in the Santa Ana section offset the 2.4-2.6 Ma (Bachman and Mehnert, 1978 #1265; Smith and Kuhle, 1998 #1771) basalts of the San Felipe volcanic field and underlying Santa Fe Group sedimentary rocks. Soister (1952 #1418) describes offset of his early Pleistocene Mesita Alta gravel and surface, which overlies San Felipe basalt flows in several places. |

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| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* No detailed studies of the age of most recent movement have been conducted. However, 90–120 m of post-San Felipe basalt displacement on some structures in this fault zone indicates a history of recurrent fault movements that probably continued at least into the early Pleistocene. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Wong and others (1995 #1155) estimated slip rates of 0.01–0.04 mm/yr based on 90–120 m of displacement that has occurred on the Luce fault since deposition of the San Felipe basalt (2.4–2.6 Ma) and similar data. They also concluded that it is likely that some of the major faults within the San Felipe fault zone act as independent rupture segments, but could not rule out the possibility that some faults rupture together. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources<br>Keith I. Kelson, William Lettis & Associates, Inc. |
| **References** | #1265 Bachman, G.O., and Mehnert, H.H., 1978, New K-Ar dates and the late Pliocene to Holocene geomorphic history of the central Rio Grande region, New Mexico: Geological Society of America Bulletin, v. 89, p. 283-292.<br><br>#7524 Chamberlin, R.M., Pazzaglia, F.J., Wegmann, K.W., and Smith, G.A., 1999, Geologic map of the Loma Creston 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 25, scale 1:24,000.<br><br>#7502 Connell, S.D., 1998, Geology of the Bernalillo quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 16, scale 1:24,000.<br><br>#1222 Kelley, V.C., 1954, Tectonic map of a part of the upper Rio Grande area, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-157, 1 sheet, scale 1:190,080.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1307 Kelley, V.C., and Kudo, A.M., 1978, Volcanoes and related basalts of |

Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 156, 29 p., 2 pls.<br><br>#7429 Kempter, K., Osburn, G.R., Kelley, S., Rampey, M., Ferguson, C., and Gardner, J., 2007, Preliminary geologic map of the Bear Springs Peak quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 74, scale 1:24,000.<br><br>#7246 Minor, S.A., and Hudson, M.R., 2006, Regional survey of structural properties and cementation patterns of fault zones in the northern part of the Albuquerque Basin, New Mexico—Implications for ground-water flow: U.S. Geological Survey Professional Paper 1719, 32 p.<br><br>#7437 Minor, S.A., Hudson, M.R., Caine, J.S., and Thompson, R.A., 2013, Oblique transfer of extensional strain between basins of the middle Rio Grande rift, New Mexico—Fault kinematic and paleostress constrains, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins: From Tectonics to Groundwater: Geological Society of America Special Paper 494, p. 345–382.<br><br>#7525 Pazzaglia, F.J., Pederson, J.L., Garcia, A.F., Koning, D.J., Formento-Trigilio, M.L., and Toya, C., 1997, Geologic map of the Jemez Pueblo 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 14, scale 1:24,000.<br><br>#7526 Personius, S.F., 2002, Geologic map of the Santa Ana Pueblo quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2405, scale 1:24,000.<br><br>#1771 Smith, G.A., and Kuhle, A.J., 1998, Geologic map of the Santo Domingo Southwest quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map OF-DM 26, 1 sheet, scale 1:24,000.<br><br>#7438 Smith, G.A., McIntosh, W.C., and Kuhle, A.J., 2001, Sedimentologic and geomorphic evidence for seesaw subsidence of the Santo Domingo accommodation-zone basin, Rio Grande rift, New Mexico: Geological Society of America Bulletin, v. 113, no. 5, p. 561–574.<br><br>#1125 Smith, R.L., Bailey, R.A., and Ross, C.S., 1970, Geologic map of the Jemez Mountains, New Mexico: U.S. Geological Survey Miscellaneous Investigations Map I-571, 1 sheet, scale 1:125,000.<br><br>#1418 Soister, P.E., 1952, Geology of Santa Ana Mesa and adjoining areas, Sandoval County, New Mexico: Albuquerque, University of New Mexico, unpublished M.S. thesis, 126 p., 2 pls., scale 1:62,500.<br><br>#1422 van Wyk de Vries, B., and Merle, O., 1996, The effects of volcanic constructs on rift fault patterns: Geology, v. 24, p. 643-646.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Sand Hill fault zone (Class A) No. 2039

**Last Review Date: 2016-06-28**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2039, Sand Hill fault zone, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:29 AM.**

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| **Synopsis** | The down-to-the-east Sand Hill fault zone extends from about 9 km south of the Sandoval-Bernalillo County line, northward along the Ceja del Rio Puerco to the vicinity of Cañada de las Milpas. Very little is known about the Quaternary history of the Sand Hill fault zone other than that it cuts probable early Pleistocene sand and gravel of the upper Santa Fe Group and is buried by younger surficial deposits. This fault zone is one of several north-trending faults that form the active western boundary of the Rio Grande rift in the northern part of the Albuquerque-Belen basin. |
| **Name comments** | The Sand Hill fault zone was first named, mapped, and described by Bryan and McCann (1937 #1288), has subsequently been mapped in various degrees of detail by Wright (1946 #1427), Kelley and others (1976 #1380, fig. 19), and Kelley (1954 #1222; 1977 #1106), and has more recently been mapped in detail in the Arroyo de las Calabacillas (previously Sky Village SE), Benavidez Ranch, Cerro Conejo (previously Sky Village NE), and The Volcanoes 7.5-minute quadrangles (Cather and others, 1997 #1763; Koning and others, 1998 #7375; Thompson and others, 2009 #7460; Koning and Jochems, 2014 #7507). As originally mapped by Bryan and McCann (1937 #1288), |

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| | the Sand Hill fault zone extended about 10 km along the western edge of the Llano de Albuquerque. Bryan and McCann (1937 #1288) and Wright (1946 #1427) mapped the southern end of the Sand Hill fault zone 3–5 km south of the Bernalillo-Sandoval County line; Bryan and McCann (1937 #1288) state that the fault is covered by Pleistocene and younger alluvium southward. Kelley (1977 #1106, p. 48) used stratigraphic arguments to extend the Sand Hill fault zone a minimum of 12 km further south. Similarly at the north end, Kelley and others (1976 #1380, fig. 19) and Kelley (1977 #1106, p. 48) extended the Sand Hill fault zone along a northeast-trending splay across the Llano de Albuquerque. Kelley (1977 #1106, p. 48) also suggests that some of the down-to-the-east displacement associated with the Sand Hill fault zone is taken up by the Garcia and Tenorio faults, which extend northward another 23 km along the western edge of the Llano. Mapping in the Arroyo de las Calabacillas 7.5-minute quadrangle (Cather and others, 1997 #1763) shows that the Sand Hill fault zone does not trend northeastward across the Llano de Albuquerque, but rather continues northward along the Ceja del Rio Puerco to the vicinity of Cañada de las Milpas in the Cerro Conejo quadrangle (Koning and others, 1998 #7375). Wright (1946 #1427) included in the Sand Hill fault zone a northwest-trending (N20°W) down-to-the-east fault that is 1–2 km east of the Sand Hill fault zone. However, the trend of this fault, Wright's detailed description of a thick sequence of tectonically-derived sediment on the downthrown block, and mapping in the Arroyo de las Calabacillas 7.5-minute quadrangle (Cather and others, 1997 #1763) all indicate that this eastern fault strand is distinct from the Sand Hill fault zone and thus is mapped as a separate structure (Calabacillas section of the Jemez-San Ysidro fault [2029c]) in this compilation. |
| **County(s) and State(s)** | BERNALILLO COUNTY, NEW MEXICO <br>SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br>BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces are from 1:24,000-scale maps by Cather and others (1997 #1763), Koning and others (1998 #7375), Thompson and others (2009 #7460), and Koning and Jochems (2014 #7507), as well as unpublished air-photo mapping by A.P. Jochems. <P> |

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| **Geologic setting** | The Sand Hill fault zone is one of several north-trending faults that form the active western boundary of the Rio Grande rift in the northern part of the Albuquerque-Belen basin. <P> |
| **Length (km)** | 36 km. |
| **Average strike** | N6°E |
| **Sense of movement** | Normal |
| **Dip** | 54°–82° E.<br><br>*Comments:* Fault dips are from surface exposures (Wright, 1946 #1427, plate 8; Cather and others, 1997 #1763; Thompson and others, 2009 #7460; Koning and Jochems, 2014 #7507). <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The fault is well expressed as linear breaks in slope in the eroded Santa Fe Group badlands below the western edge of the Llano de Albuquerque. Bryan and McCann (1937 #1288) noted that their northernmost strand has been injected by a sand dike that is more erosion resistant than the surrounding rocks; Wright (1946 #1427) stated that all strands of the Sand Hill fault are marked by sand dikes. In places, preferential cementation related to groundwater flow has formed prominent wall- or finger-like features in the fault zone (Mozley and Goodwin, 1995 #7508). No fault scarps on surficial deposits have been described, suggesting a lack of recency to the faulting. <P> |
| **Age of faulted surficial deposits** | The trace of the Sand Hill fault zone as originally mapped by Bryan and McCann (1937 #1288) lies entirely within the Upper Buff Member of the Santa Fe Formation, which is roughly correlative with the Ceja Formation of the Upper Santa Fe Group (Kelley, 1977 #1106; Hawley and others, 1991 #1302; Connell, 2008 #7506). In places the upper part of these deposits is early Pleistocene in age. No faulting of younger surficial deposits has been described. |
| **Historic earthquake** | |

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| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* The only deposits documented as offset by the Sand Hill fault zone are early Pleistocene to Pliocene in age. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* No detailed studies of fault offset or age of offset deposits are available; slip rate estimate is based on lack of fault scarps and low rates of slip on other faults in this part of the Rio Grande rift. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1288 Bryan, K., and McCann, F.T., 1937, The Ceja del Rio Puerco—A border feature of the Basin and Range province in New Mexico, Part I, Stratigraphy and structure: Journal of Geology, v. 45, p. 801-828.<br><br>#1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#7506 Connell, S.D., 2008, Refinements to the stratigraphic nomenclature of the Santa Fe Group, northwestern Albuquerque Basin, New Mexico: New Mexico Geology, v. 30, p. 14–35.<br><br>#1302 Hawley, J.W., Love, D.W., Betancourt, J.L., Turner, R.M., and Tharnstrom, S., 1991, Quaternary and Neogene landscape evolution—A transect across the Colorado Plateau and Basin and Range provinces in west-central and central New Mexico, in Julian, B., and Zidek, J., eds., Field guide to geologic excursions in New Mexico and adjacent areas of Texas and Colorado: New Mexico Bureau of Mines and Mineral Resources Bulletin 137, p. 105-148.<br><br>#1222 Kelley, V.C., 1954, Tectonic map of a part of the upper Rio Grande area, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-157, 1 sheet, scale 1:190,080.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1380 Kelley, V.C., Woodward, L.A., Kudo, A.M., and Callender, J.F., 1976, Guidebook to Albuquerque basin of the Rio Grande rift, New Mexico: New Mexico Bureau of Mines and Mineral |

Resources Circular 153, 31 p.<br><br>#7507 Koning, D.J., and Jochems, A.P., 2014, Geologic map of the Benavidez Ranch 7.5-minute quadrangle, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 234, scale 1:24,000.<br><br>#7375 Koning, D.J., Pederson, J., Pazzaglia, F.J., and Cather, S.M., 1998, Geology of the Cerro Conejo (Sky Village NE) 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-file Geologic Map 45, scale 1:24,000.<br><br>#1400 Machette, M.N., 1978, Geologic map of the San Acacia quadrangle, Socorro County, New Mexico: U.S. Geological Survey Geologic quadrangle Map GQ-1415, 1 sheet, scale 1:24,000.<br><br>#7508 Mozley, P.S., and Goodwin, L.B., 1995, Patterns of cementation along a Cenozoic normal fault: A record of paleoflow orientations: Geology, v. 23, p. 539-542.<br><br>#7460 Thompson, R.A., Shroba, R.R., Menges, C., Schmidt, D.L., Personius, S.F., and Brandt, T.R., 2009, Geologic map of the Volcanoes quadrangle, Bernalillo and Sandoval Counties, New Mexico: U.S. Geological Survey Scientific Investigations Map SIM-3083, scale 1:24,000.<br><br>#1427 Wright, H.E., Jr., 1946, Tertiary and Quaternary geology of the lower Rio Puerco area, New Mexico: Geological Society of America Bulletin, v. 57, p. 383-456.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## Santa Fe fault (Class A) No. 2123

**Last Review Date: 2015-12-21**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2015, Fault number 2123, Santa Fe fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:30 AM.**

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| **Synopsis** | The Santa Fe fault forms the western margin of the Rio Grande rift in the central Albuquerque-Belen basin. The fault has been quite active in the Pliocene and early Pleistocene, based on offset of upper Santa Fe Group (Sierra Ladrones Formation) sediment. Other indirect evidence of Quaternary offset includes differences in the elevation of the "Ortiz surface" across the fault trace and the geometry of spring deposits found along the fault. However, no scarps on surficial deposits have been observed along the trace of the Santa Fe fault. |
| **Name comments** | The Santa Fe fault forms part of the western margin of the Rio Grande rift and the Albuquerque basin (Machette, 1982 #1401; Machette and McGimsey, 1983 #1024). The structure was originally named the Carrizo fault by Wright (1946 #1427), was later renamed the Santa Fe fault by Kelley and Wood (1946 #1379), and was included on subsequent compilations (Kelley, 1954 #1222; Kelley, 1977 #1106). The Santa Fe fault places Pliocene to early Pleistocene (Lozinsky and Tedford, 1991 #1399) sediment of the Sierra Ladrones Formation down-to-the-east against older rocks (Machette and McGimsey, 1983 #1024; Ricketts and Karlstrom, 2014 #7300). |

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| | **Fault ID:** Fault no. 2 of Machette (1982 #1401), fault no. 1 of Machette and McGimsey (1983 #1024). |
| **County(s) and State(s)** | VALENCIA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br>COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* No scarps on surficial deposits have been observed; the fault had been shown as dashed along most of its trace on published maps until mapping was completed along much of its trace by Ricketts and Karlstrom (2014 #7300). Fault location is taken from this 1:24,000 map. <P> |
| **Geologic setting** | The Santa Fe fault forms the western margin of the Rio Grande rift and the Albuquerque basin; this structure separates the rift from the edge of the Colorado Plateau to the west. <P> |
| **Length (km)** | 30 km. |
| **Average strike** | N4°E |
| **Sense of movement** | Normal |
| **Dip** | 45°–80° E<br><br>*Comments:* Dip data are from Wright (1946 #1427), Callender and Zilinski, (1976 #1289), Russell and Snelson (1994 #1186), and Ricketts and Karlstrom (2014 #7300). <P> |
| **Paleoseismology studies** | <P> |

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| **Geomorphic expression** | No scarps have been recognized on surficial deposits along the Santa Fe fault, but the fault forms a bedrock escarpment along the northern half of its trace. <P> |
| **Age of faulted surficial deposits** | The Santa Fe fault offsets Pliocene to early Pleistocene (Lozinsky and Tedford, 1991 #1399) sediment of the Sierra Ladrones Formation down-to-the-east against older rocks (Machette and McGimsey, 1983 #1024; Ricketts and Karlstrom, 2014 #7300. Other indirect evidence of Quaternary offset includes differences in the elevation of the Pliocene (?) Ortiz surface across the fault trace (Kelley and others, 1976 #1380; Kelley, 1977 #1106, p. 28) and the geometry of spring deposits found along the fault (Callender and Zilinski, 1976 #1289). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* Timing estimate is based on offset of Pliocene-Pleistocene Sierra Ladrones Formation sediment (Machette and McGimsey, 1983 #1024; Ricketts and Karlstrom, 2014 #7300). <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* No detailed studies of fault offset or age of offset deposits are available; low slip-rate category is assigned based on about 30 m offset of 3.7-Ma basalt (Bachman and Mehnert, 1978 #1265) at the mouth of Arroyo Comanche (Kelley, 1977 #1106; Bachman and Mehnert, 1978 #1265). |
| **Date and Compiler(s)** | 2015<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1265 Bachman, G.O., and Mehnert, H.H., 1978, New K-Ar dates and the late Pliocene to Holocene geomorphic history of the central Rio Grande region, New Mexico: Geological Society of America Bulletin, v. 89, p. 283-292.<br><br>#1289 Callender, J.F., and Zilinski, R.E., Jr., 1976, Kinematics of Tertiary and Quaternary deformation along the |

eastern edge of the Lucero uplift, central New Mexico, in Woodward, L.A., and Northrop, S.A., eds., Tectonics and mineral resources of southwestern North America: New Mexico Geological Society Special Publication 6, p. 53-61.<br><br>#1222 Kelley, V.C., 1954, Tectonic map of a part of the upper Rio Grande area, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map OM-157, 1 sheet, scale 1:190,080.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1379 Kelley, V.C., and Wood, G.H., Jr., 1946, Geology of the Lucero uplift, Valencia, Socorro, and Bernalillo Counties, New Mexico: U.S. Geological Survey Oil and Gas Investigations Map 47, 1 sheet, scale 1:63,360.<br><br>#1380 Kelley, V.C., Woodward, L.A., Kudo, A.M., and Callender, J.F., 1976, Guidebook to Albuquerque basin of the Rio Grande rift, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 153, 31 p.<br><br>#1399 Lozinsky, R.P., and Tedford, R.H., 1991, Geology and paleontology of the Santa Fe Group, southwestern Albuquerque basin, Valencia County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Bulletin 132, 35 p., 3 pls., scale 1:24,000.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#7300 Ricketts, J.W., and Karlstrom, K.E., 2014, Geologic map of the South Garcia SE 7.5-minute quadrangle, Valencia County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 246, scale 1:24,000.<br><br>#1186 Russell, L.R., and Snelson, S., 1994, Structure and tectonics of the Albuquerque basin segment of the Rio Grande rift—Insights from reflection seismic data, in Keller, G.R., and Cather, S.M., eds., Basins of the Rio Grande rift—Structure, stratigraphy, and tectonic setting: Geological Society of America Special Paper 291, p. 83–112.<br><br>#1427 Wright, H.E., Jr., 1946, Tertiary and Quaternary geology of the lower Rio Puerco area, New Mexico: Geological Society of America Bulletin, v. 57, p. 383-456.

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## unnamed fault of Bonita Canyon (Class B) No. 2144

**Last Review Date: 2016-04-22**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Machette, M.N., and Jochems, A.P., compilers, 2016, Fault number 2144, unnamed fault of Bonita Canyon, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:30 AM.**

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| **Synopsis** | Fault scarp-like features have been mapped on the late Quaternary Twin Craters and El Calderon basalt flows of El Malpais lava field. The associated fault may represent reactivation of a bedrock fault that is concealed in Bonita Canyon, but which must juxtapose Precambrian rock on the west against Paleozoic rock on the east. However, similar mapped features within El Malpais lava field are considered by Levish and others (1992 #1715) to be related to volcanic processes. No detailed study of the fault has been conducted to confirm its origin or document the amount of vertical displacement that may be associated with it. Thus, the feature is herein considered to be of suspect origin. |

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| **Name comments** | This fault was first mapped by Maxwell (1986 #1720). Levish and others (1992 #1715) characterized it a non-tectonic feature related to volcanic processes as part of a regional reconnaissance for a dam-hazards study. Levish and others (1992 #1715) referred to it as one of the faults in the Zuni-Bandera volcanic field. This fault forms a north-trending scarp (?) across the Twin Craters and El Calderon lava flows south of Bonita Canyon. The scarp is located at the south end of Cerritos de Jaspe (a prominent, west-facing ridge), which is just east of Bonita Canyon. |
| **County(s) and State(s)** | CIBOLA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Trace from 1:62,500-scale geologic map of Maxwell (1986 #1720) combined with accurate placement using photogrammetric methods. <P> |
| **Geologic setting** | The fault is in Quaternary (undifferentiated) basalt flows according to the mapping of Maxwell (1986 #1720). It trends north on the basalts, and northwest up Bonita Canyon where it juxtaposes Precambrian rock on the west against Paleozoic rock on the east (Timmons and Cikoski, 2012 #7426). <P> |
| **Length (km)** | 9 km. |
| **Average strike** | N11°W |
| **Sense of movement** | Normal<br><br>*Comments:* Mapping by Maxwell (1986 #1720) and Timmons and Cikoski (2012 #7426) indicates that Paleozoic bedrock is down-dropped on the eastern side of the fault relative to Precambrian bedrock along a northern (concealed) extension of the fault. Conversely, where the fault crosses the El Calderon flow it appears to form a west-facing scarp. On the basis of this observation and similarity to other Cenozoic faults in the region, we infer that the fault has normal dip slip movement. <P> |

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| **Dip Direction** | Unknown |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The fault forms a 2-km-long north-trending scarp (?) on basaltic lava flows (Maxwell, 1986 #1720). Levish and others (1992 #1715) suggested that the fault is related to volcanic processes and is not of tectonic origin. No measurements of any vertical displacement have been made across the fault to confirm the amount or direction of possible movement. <P> |
| **Age of faulted surficial deposits** | Maxwell (1986 #1720) mapped the fault as offsetting the Twin Craters lava flow, dated at approximately 17_19 ka using radiocarbon and surface cosmogenic techniques (Laughlin and WoldeGabriel, 1997 #7425; Dunbar and Phillips, 2004 #7424). In addition, just south of New Mexico State Highway 53 the fault is mapped as crossing a small tongue of El Calderon flow, dated at 115–120 ka using paleomagnetic constraints (Cascadden and others, 1997 #7423). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* The fault scarp-like features are present on two Quaternary basalt flows dated at approximately 17–19 and 115–120 ka (Cascadden and others, 1997 #7423; Laughlin and WoldeGabriel, 1997 #7425; Dunbar and Phillips, 2004 #7424). <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* No measurement of offset across the fault has been reported. The fault does not appear to form a high or even moderate (>5 m) scarp on aerial photographs. Thus, it seems reasonable that slip rates associated with this suspect fault would be in the low slip-rate category (<0.2 mm/yr). |

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| **Date and Compiler(s)** | 2016<br>Michael N. Machette, U.S. Geological Survey, Retired<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #7423 Cascadden, T.E., Geissman, J.W., Kudo, A.M., and Laughlin, A.W., 1997, El Calderon cinder cone and related basalt flows, in Mabery, K., compiler, Natural History of El Malpais National Monument: New Mexico Bureau of Mines and Mineral Resources Bulletin 156, p. 41-–51.<br><br>#7424 Dunbar, N.W., and Phillips, F.M., 2004, Cosmogenic <sup>36</sup>Cl ages of lava flows in the Zuni-Bandera volcanic field, north-central New Mexico, U.S.A., in Cather, S.M., McIntosh, W.C., and Kelley, S.A., eds., Tectonics, geochronology, and volcanism in the Southern Rocky Mountains and Rio Grande Rift: New Mexico Bureau of Geology and Mineral Resources Bulletin 160, p. 309–317.<br><br>#7425 Laughlin, A.W., and WoldeGabriel, G., 1997, Dating the Zuni-Bandera volcanic field, in Mabery, K., compiler, Natural History of El Malpais National Monument: New Mexico Bureau of Mines and Mineral Resources Bulletin 156, p. 25–29.<br><br>#1715 Levish, D.R., Vetter, U.R., Ake, J.P., and Piety, L.A., 1992, Seismotectonic study for Black Rock Dam, Bureau of Indian Affairs, Pueblo of Zuni, New Mexico: Bureau of Reclamation Seismotectonic Report 92-3, 62 p.<br><br>#1720 Maxwell, C.H., 1986, Geologic map of El Malpais Lava Field and surrounding areas, Cibola County, New Mexico: U.S. Geological Survey Miscellaneous Investigations Map I-1595, 1 sheet, scale 1:62,500.<br><br>#7426 Timmons, J.M., and Cikoski, C.T., 2012, Geologic map of the San Rafael quadrangle, Cibola County, New Mexico: New Mexico Bureau of Geology and Mineral Resources Open-File Geologic Map 232, scale 1:24,000. |

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# Quaternary Fault and Fold Database of the United States

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## unnamed faults near Albuquerque Volcanoes (Class A) No. 2049

**Last Review Date: 2016-06-26**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

*citation for this record:* Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2049, unnamed faults near Albuquerque Volcanoes, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:31 AM.

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| **Synopsis** | Several unnamed north-trending normal faults are located near the Albuquerque Volcanoes. The basaltic volcanic field associated with the volcanoes is apparently confined in a broad graben, defined on the west by the down-to-the-east County Dump fault [2038] and on the east by the down-to-the-west East Paradise fault zone [2040]. Between these two flanking faults there is a series of smaller fault blocks and grabens. Most of these faults appear to be buried by basalt flows dated at about 155 ka. However, these faults can be mapped beneath the flows because most are marked by linear breaks in slope, indicating that preexisting fault scarps disrupted the flows during emplacement. The extent of some buried faults are also evident in high resolution aeromagnetic data. At least two faults are marked by more pronounced linear scarps that indicate small (1–2 m) post-basalt (155–218 ka) movements: a short down-to-the-east fault located between the East [2040] and West Paradise [2042] fault zones clearly offsets basalt in two places along the eastern edge of the volcanic field, and a longer north-trending down-to-the-west fault marked by small scarps in basalt bisects the volcanic field west of the West Paradise fault. This fault may have been the source of the 1978–1979 earthquake swarm near the Albuquerque Volcanoes. Latest movements on both the County Dump [2038] and East Paradise [2040] faults also post-date basalt emplacement. |
| **Name comments** | This group of structures is a series of north-trending normal faults on the east side of the Albuquerque Volcanoes. Some of these faults are included in the West Mesa fault zone of Wong and others (1995 #1155) and Hawley and Whitworth (1996 #1303). |
| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br>BERNALILLO COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces from 1:24,000-scale maps of Connell and others (1998 #7490), Shroba and others (2003 #7459), and Thompson and others (2009 #7460). The locations of some traces beneath the volcanic field are based on high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721). <P> |

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| **Geologic setting** | These structures are intrabasin faults in the central part of the Albuquerque-Belen basin of the Rio Grande rift. The broad graben that confines the Albuquerque Volcanoes volcanic field suggests that movement on some faults may be associated with magmatic activity. Recent seismicity may be associated with one of these intrabasin structures. An earthquake swarm in 1978–1979 near the southwestern margin of the volcanic field yielded a composite fault-plane solution with a preferred nodal plane striking N. 5° E. and dipping 74° W. (Jaksha and others, 1981 #1760). This fault plane projects to the surface very near the surface trace of an unnamed, 20 km long fault that lies 0.5 km east of the Albuquerque Volcanoes cinder cones. Northeast of the cinder cones, this fault is marked by small scarps on basalt that indicate post-basalt displacement. The County Dump fault [2038] is located between the surface trace of this fault and the surface projection of the earthquake 1978–1979 earthquake swarm, suggesting that the County Dump may sole into the fault at depth. <P> |
| **Length (km)** | 34 km. |
| **Average strike** | N5°W |
| **Sense of movement** | Normal |
| **Dip Direction** | E; W |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | Outside of the volcanic field, these faults are well expressed as eroded fault scarps on sediment of the upper Santa Fe Group and overlying surficial deposits. Within the Albuquerque Volcanoes volcanic field, these faults are marked by linear breaks in slope and minor fault scarps. Most breaks in slope along these faults appear to be preexisting scarps that disrupted the flow of basalt during eruptions to the west. At least two faults are marked by more pronounced linear scarps that indicate small post-basalt movements. Most of the fault traces in the volcanic field have been partly covered by eolian sand. <P> |
| **Age of faulted surficial deposits** | At least two of these faults offset the basalt of the Albuquerque Volcanoes volcanic field; these rocks have been dated by several methods at about 155–218 ka (Geissman and others, 1990 #1297; Peate and others, 1996 #1411; |

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| | Singer and others, 2008 #7492). Most of the faults cut sediment of the upper Santa Fe Group and surficial deposits that predate emplacement of the basalts. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* At least two faults in this group offset the 155–218-ka basalts of the Albuquerque Volcanoes volcanic field, indicating probable late Pleistocene displacement. Most of the other faults have most recent movements that predate 155–218 ka. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Two of these structures offset the 155–218-ka basalts of the Albuquerque Volcanoes volcanic field by about 1–2 m, which suggests a low slip rate. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #7490 Connell, S.D., Allen, B.D., Hawley, J.W., and Shroba, R.R., 1998, Geology of the Albuquerque West 7.5-minute quadrangle, Bernalillo County, New Mexico: New Mexico Bureau of Mines and Mineral Open-File Geologic Map 17, scale 1:24,000.<br><br>#1297 Geissman, J.W., Brown, L., Turrin, B.D., McFadden, L.D., and Harlan, S.S., 1990, Brunhes chron excursion/polarity episode recorded during the late Pleistocene, Albuquerque Volcanoes, New Mexico, USA: Geophysical Journal International, v. 102, p. 73-88.<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1303 Hawley, J.W., and Whitworth, T.M., compilers, 1996, Hydrogeology of potential recharge areas for the basin- and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D, 575 p.<br><br>#1760 Jaksha, L.H., Locke, J., and Gebhart, H.J., 1981, Microearthquakes |

near the Albuquerque volcanoes, New Mexico: Geological Society of America Bulletin, v. 92, p. 31-36.<br><br>#1411 Peate, D.W., Chen, J.H., Wasserburg, G.J., Papanastassiou, D.A., and Geissman, J.W., 1996, 238U-230Th dating of a geomagnetic excursion in Quaternary basalts of the Albuquerque Volcanoes Field, New Mexico (USA): Geophysical Research Letters, v. 23, p. 2271-2274.<br><br>#7459 Shroba, R.R., Thompson, R.A., Schmidt, D.L., Personius, S.F., Maldonado, F., and Brandt, T.R., 2003, Geologic map of the La Mesita Negra SE quadrangle, Bernalillo County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2416, scale 1:24,000.<br><br>#7492 Singer, B.S., Jicha, B.R., Kirby, B.T., Geissman, J.W., Herrero-Bervera, E., 2008, <sup>40</sup>Ar/<sup>39</sup>Ar dating links Albuquerque Volcanoes to the Pringle Falls excursion and the Geomagnetic Instability Time Scale: Earth and Planetary Science Letters, v. 267, p. 584–595.<br><br>#7460 Thompson, R.A., Shroba, R.R., Menges, C., Schmidt, D.L., Personius, S.F., and Brandt, T.R., 2009, Geologic map of the Volcanoes quadrangle, Bernalillo and Sandoval Counties, New Mexico: U.S. Geological Survey Scientific Investigations Map SIM-3083, scale 1:24,000.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen.

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# Quaternary Fault and Fold Database of the United States

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## unnamed faults near Picuda Peak (Class A) No. 2041

**Last Review Date: 2016-06-26**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2041, unnamed faults near Picuda Peak, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:32 AM.**

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| **Synopsis** | Near Picuda Peak there is a group of down-to-the-east and down-to-the-west, north trending normal faults that offset coarse gravels and underlying sands of the upper Santa Fe Group. Most of these faults trend to the northeast at their southern ends near Picuda Peak; further north, they trend generally north. Detailed mapping of the nearly complete exposures of the Santa Fe Group section in the Rincones de Zia show very closely spaced normal faults, most of which have displacements of only a few meters. These faults generally offset the uppermost coarse gravel of the Upper Santa Fe Group by a few tens of meters. |
| **Name comments** | This group of faults are herein named for their proximity to Picuda Peak. Some faults near Picuda Peak were previously described by Black and Hiss (1974 #1287) and Kelley (1977 #1106). These structures were mapped in detail by Manley (1978 #1404) in the Bernalillo NW 7.5-minute quadrangle and by Personius and others (2000 #1413) in the Loma Machete quadrangle. |

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| **County(s) and State(s)** | SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces are from 1:24,000-scale mapping of Manley (1978 #1404) in the Bernalillo NW quadrangle and Personius and others (2000 #1413) in the Loma Machete quadrangle. <P> |
| **Geologic setting** | Near Picuda Peak there is a group of down-to-the-east and down-to-the-west, north trending intrabasin faults near the northern margin of the Albuquerque-Belen basin in the Rio Grande rift. In previous publications, these faults were located near the crest of the Ziana anticline (Black and Hiss, 1974 #1287; Kelley and others, 1976 #1380; Kelley, 1977 #1106), but work by Personius and others (2000 #1413) indicates that opposing dips in the region that were thought to be the expression of a large fold may instead be related to intense normal faulting and block rotation. <P> |
| **Length (km)** | 10 km. |
| **Average strike** | N2°E |
| **Sense of movement** | Normal |
| **Dip** | 43–75° E., 47–87° W.<br><br>*Comments:* Numerous fault exposures indicate that these faults are usually steeply dipping (Personius and others, 2000 #1413). <P> |
| **Paleoseismology studies** | <P> |

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| **Geomorphic expression** | Most faults form narrow topographic ridges and valleys that correlate with sense of fault displacement. Topographic expression is lost, but numerous fault exposures and juxtaposed bedrock mark these faults in the badlands of the Rincones de Zia. <P> |
| **Age of faulted surficial deposits** | The ages of offset deposits are poorly known, but the uppermost sand and gravel of the upper Santa Fe Group in this area are thought to be early Pleistocene in age (Personius and others, 2000 #1413). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* The unnamed faults near Picuda Peak offset early Pleistocene sediments of the upper Santa Fe Group a few tens of meters but do not appear to offset younger surficial deposits (Personius and others, 2000 #1413). <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Offsets of early Pleistocene gravels across individual faults are probably no more than 20–30 m. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1287 Black, B.A., and Hiss, W.L., 1974, Structure and stratigraphy in the vicinity of the Shell Oil Co. Santa Fe Pacific No. 1 test well, southern Sandoval County, New Mexico, in Siemers, C.T., Woodward, L.A., and Callender, J.F., eds., Ghost Ranch central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, October 10-12, 1974, Guidebook, p. 365-370.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1380 Kelley, V.C., Woodward, L.A., Kudo, A.M., and Callender, J.F., 1976, Guidebook to Albuquerque basin of |

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| | the Rio Grande rift, New Mexico: New Mexico Bureau of Mines and Mineral Resources Circular 153, 31 p.<br><br>#1404 Manley, K., 1978, Geologic map of Bernalillo NW quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Geologic quadrangle Map GQ-1446, 1 sheet, scale 1:24,000.<br><br>#1413 Personius, S.F., Machette, M.N., and Stone, B.D., 2000, Preliminary geologic map of the Loma Machete quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2334, scale 1:24,000. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## unnamed faults near Star Heights (Class A) No. 2048

**Last Review Date: 2016-06-26**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2048, unnamed faults near Star Heights, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:32 AM.**

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| **Synopsis** | This group of north-trending, mostly down-to-the-east normal faults offsets upper Santa Fe Group sediments, the Llano de Albuquerque, and younger piedmont deposits near the neighborhood of Star Heights. Individual faults have displaced upper Santa Fe Group sediments of a few tens of meters, 15–20 m of the Llano de Albuquerque, and 5–10 m in probable middle Pleistocene piedmont deposits. |
| **Name comments** | These north-trending normal faults include parts of the Star Heights fault of Kelley (1977 #1106) and Hawley and Whitworth (1996 #1303). Detailed mapping by Cather and others (1997 #1763), Personius and others (2000 #1413), and Thompson and others (2009 #7460) indicate that the Star Heights fault mapped by Kelley (1977 #1106) and Hawley and Whitworth (1996 #1303) includes parts of at least two separate faults, so this name has been abandoned. |
| **County(s) and State(s)** | BERNALILLO COUNTY, NEW MEXICO <br>SANDOVAL COUNTY, NEW MEXICO <br> |

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| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces from 1:24,000-scale mapping of Cather and others (1997 #1763), Personius and others (2000 #1413), and Thompson and others (2009 #7460) supplemented with additional photogrammetric analysis by Jochems. The locations of some fault traces are based on high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721). <P> |
| **Geologic setting** | These structures are intrabasin faults in the northern part of the Albuquerque-Belen basin of the Rio Grande rift. <P> |
| **Length (km)** | 18 km. |
| **Average strike** | N5°E |
| **Sense of movement** | Normal |
| **Dip** | 70° E.<br><br>*Comments:* Dip data are from Personius and others (2000 #1413). <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | These faults offset upper Santa Fe Group sediment, form broad scarps on the Llano de Albuquerque, and form steeper, smaller scarps on younger piedmont deposits. <P> |
| **Age of faulted surficial deposits** | These faults offset early Plio-Pleistocene upper Santa Fe Group sediment, the early Pleistocene Llano de Albuquerque, and younger piedmont deposits (Personius and others, 2000 #1413). The faulted piedmont deposits are characterized by well-developed (stage III) calcic soils, so they probably are middle Pleistocene in age. |

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| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* Some of these structures offset the early Pleistocene Llano de Albuquerque 15–20 m and middle Pleistocene piedmont deposits 5–10 m; these data indicate a history of recurrent movement that, in some cases, possibly extend into the late Pleistocene. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Inferred low slip rate is based on presence of broad scarps on the Llano de Albuquerque that offset the surface 15–20 m. |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1303 Hawley, J.W., and Whitworth, T.M., compilers, 1996, Hydrogeology of potential recharge areas for the basin- and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D, 575 p.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1413 Personius, S.F., Machette, M.N., and Stone, B.D., 2000, Preliminary geologic map of the Loma Machete quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-2334, scale 1:24,000.<br><br>#7460 Thompson, R.A., Shroba, R.R., Menges, C., Schmidt, D.L., Personius, S.F., and Brandt, T.R., 2009, |

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| | Geologic map of the Volcanoes quadrangle, Bernalillo and Sandoval Counties, New Mexico: U.S. Geological Survey Scientific Investigations Map SIM-3083, scale 1:24,000.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## unnamed faults of El Malpais lava field (Class B) No. 2146

**Last Review Date: 2016-04-22**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Machette, M.N., and Jochems, A.P., compilers, 2016, Fault number 2146, unnamed faults of El Malpais lava field, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:32 AM.**

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| **Synopsis** | These three groups of suspect faults form numerous fissures and cracks in early Quaternary basalt flows of El Malpais lava field. They may include pressure ridges and collapsed lava tubes that give the expression of tectonic activity, but could be related to volcanic processes. Thus, these features are considered to be of suspect origin. No detailed studies of the features have been conducted to confirm their origin or document the amount of vertical displacement, if any, that may be associated with them. |
| **Name comments** | These faults were first mapped by Maxwell (1986 #1720); additional structures were mapped to the west by Baldridge and others (1989 #1741). Levish and others (1992 #1715), as part of a regional reconnaissance for a dam-hazards study, characterized them as non-tectonic features related to volcanic processes. Levish and others (1992 #1715) referred to the features as "Faults in the Zuni-Bandera volcanic field". The faults form four groups on El Malpais lava field. The southern group trends north across the North Plains, the main (longest) feature of which is named La Rendija. The southern extent of these faults is approximately 10 km south of the map area of Maxwell (1986 #1720). The northwestern group is comprised of two short north-northeast trending faults and associated |

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| | fissure-like features located about 3 km south and southwest of Hoya de Cibola (Maxwell, 1986 #1720). The northeastern group is comprised of four short faults that trend north to northeast; they are located about 5 km southeast of Cerro Encierro. |
| **County(s) and State(s)** | CIBOLA COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | COLORADO PLATEAUS <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces are shown on 1:62,500-scale geologic map of Maxwell (1986 #1720) and a small-scale (approximately 1:400,000 scale) geologic map of Baldridge and others (1989 #1741). Extensions of the fault features west of Maxwell's mapping are shown on 1:100,000-scale geologic map of Anderson (1986 #1281). Fault traces were recompiled and digitized at 1:24,000 scale using photogrammetric methods. <P> |
| **Geologic setting** | These fault-like features are present on Quaternary (undifferentiated) basalt flows according to the mapping of Maxwell (1986 #1720). They trend north and northeast and may be related to westward directed extension or to the NE-trending Jemez lineament. Levish and others (1992 #1715) characterized the faults as non-tectonic features related to volcanic processes. <P> |
| **Length (km)** | 26 km. |
| **Average strike** | N7°E |
| **Sense of movement** | Normal<br><br>*Comments:* As mapped by Maxwell (1986 #1720), although most of the features are fissures that may not correspond to vertical displacement. <P> |
| **Dip Direction** | W; NW; SE |

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| | *Comments:* As reported by Maxwell (1986 #1720). <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | The faults (?) form short north- and northeast-trending en echelon scarps (?), fissures, and open crevices in lava flows (Maxwell, 1986 #1720). Levish and others (1992 #1715) suggested that the faults are fissures, cracks, pressure ridges, and collapsed lava tubes that give the expression of tectonic activity, but are in fact related to volcanic processes. <P> |
| **Age of faulted surficial deposits** | Maxwell (1986 #1720) mapped the faults as having offset Quaternary basalts that have reported K-Ar ages as old as and 1.38±0.29 Ma and Ar-Ar ages as young as 0.593±0.086 Ma (Laughlin and West, 1976 #7420; Laughlin and others, 1993 #7421). These dates suggest that the older (undifferentiated) basalts flows (Qb) span the early to middle Quaternary. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | undifferentiated Quaternary (<1.6 Ma)<br><br>*Comments:* The features are present on basalts flows (Qb) of early to possibly middle Quaternary age. However, Maxwell (1986 #1720) suggested that the southern group of features (La Rendija) is Holocene in age because the crevices are not filled with alluvium, thus suggesting very recent formation of the features. In addition, he suggested that the numerous small fault scarps (?) on unconsolidated alluvium at the eastern edge of North Plains are also young. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* No measurements of offset across the features have been reported. If the features are really faults of Holocene age (Maxwell, 1986 #1720) and have substantial (>10 m) offset, they could have a slip rate that exceeds 0.2 mm/yr. However, the features are formed on an early to middle Quaternary landscape; thus, the recurrence |

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| | interval for accumulating stress prior to the most recent faulting (suspect) event could be 750 k.y. or more. It therefore seems reasonable that slip rates associated with these suspect faults would be in the lowest slip-rate category. |
| **Date and Compiler(s)** | 2016<br>Michael N. Machette, U.S. Geological Survey, Retired<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #1281 Anderson, O.J., compiler, 1986, Geologic map of Fence Lake, New Mexico 1:100,000 metric sheet: New Mexico Bureau of Mines and Mineral Resources Open-File Report 220, 4 p. pamphlet, 4 sheets, scale 1:100,000.<br><br>#1741 Baldridge, W.S., Perry, F.V., Vaniman, D.T., Nealey, L.D., Leavy, B.D., Laughlin, A.W., Kyle, P., Bartov, Y., Steinitz, G., and Gladney, E.S., 1989, Excursion 8A—Magmatism associated with lithospheric extension—Middle to late Cenozoic magmatism of the southeastern Colorado Plateau and central Rio Grande rift, New Mexico and Arizona, in Chapin, C.E., and Zidek, J., eds., Field excursions to volcanic terranes in the Western United States, v. I, Southern Rocky Mountain region: New Mexico Bureau of Mines and Mineral Resources Memoir 46, p. 187-202.<br><br>#7420 Laughlin, A.W., and West, F.G., 1976, The Zuni Mountains, New Mexico, as a potential dry hot rock geothermal energy site: U.S. Energy Research and Development Administration, Los Alamos Scientific Laboratories Informal Report LA-3197-MS, 13 p.<br><br>#7421 Laughlin, A.W., Perry, F.V., Damon, P.E., Shafiqullah, M., WoldeGabriel, G., McIntosh, W., Harrington, C.D., Wells, S.G., and Drakos, P.G., 1993, Geochronology of Mount Taylor, Cebollita Mesa, and Zuni-Bandera volcanic fields, Cibola County, New Mexico: New Mexico Geology, v. 16, no. 4, p. 81–92.<br><br>#1715 Levish, D.R., Vetter, U.R., Ake, J.P., and Piety, L.A., 1992, Seismotectonic study for Black Rock Dam, Bureau of Indian Affairs, Pueblo of Zuni, New Mexico: Bureau of Reclamation Seismotectonic Report 92-3, 62 p.<br><br>#1720 Maxwell, C.H., 1986, Geologic map of El Malpais Lava Field and surrounding areas, Cibola County, New Mexico: U.S. Geological Survey Miscellaneous Investigations Map I-1595, 1 sheet, scale 1:62,500. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

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## unnamed intrabasin faults west of the Rio Puerco (Class A) No. 2115

**Last Review Date: 2016-03-30**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Jochems, A.P., compilers, 2016, Fault number 2115, unnamed intrabasin faults west of the Rio Puerco, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:33 AM.**

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| **Synopsis** | These intrabasin faults east of the Coyote Springs fault [2114] in the southwest Albuquerque basin of the Rio Grande rift are mostly expressed as short fault scarps in deposits of the upper Santa Fe Group Sierra Ladrones Formation; some have offsets of 3–20 m in middle Pleistocene alluvium. Most of the faults are partly to nearly completely buried by eolian sand. |
| **Name comments** | This group of structures consists of numerous short to relatively long, generally isolated, north-trending faults within the Belen sub-basin of the Albuquerque basin west of the Rio Puerco that were mapped by Machette (1982 #1401), Machette and McGimsey (1983 #1024), and Love and Young (1983 #1723). Some of these faults were previously mapped and named by Kelley (1977 #1106), including the east-down Gabaldon fault, the northern part of which was mapped by Lozinsky and Tedford (1991 #1339). |
| **County(s) and State(s)** | SOCORRO COUNTY, NEW MEXICO <br>VALENCIA COUNTY, NEW MEXICO <br> |

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| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:24,000 scale.<br><br>*Comments:* Fault traces compiled using photogrammetric methods and previous mapping of Machette and McGimsey (1983 #1024) at 1:250,000 scale and Lozinsky and Tedford (1991 #1339) at 1:24,000 scale. <P> |
| **Geologic setting** | These faults dip to the east and west, and form a broad zone within the active part of the Belen sub-basin of the Albuquerque basin, west of the Rio Puerco. The longest fault (~27 km) in this group of structures (Gabaldon fault of Kelley, 1977 #1106) is thought to be an east-down listric fault at depth based on 2D geophysical modeling and well data (Grauch and Connell, 2013 #7268). <P> |
| **Length (km)** | 22 km. |
| **Average strike** | N7°W |
| **Sense of movement** | Normal |
| **Dip Direction** | E; W<br><br>*Comments:* Grauch and Connell (2013 #7268) show the longest east-down fault in this group of structures as a relatively shallow listric fault based on 2D geophysical modeling and well data. <P> |
| **Paleoseismology studies** | <P> |
| **Geomorphic expression** | These faults are marked by subdued, discontinuously preserved scarps that are mostly covered by eolian sand within the western part of the Belen sub-basin. Machette and McGimsey (1983 #1024) measured offsets of 3–20 m in middle Pleistocene alluvium. <P> |

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| **Age of faulted surficial deposits** | These faults offset lower Pleistocene sediment of the upper Santa Fe Group Sierra Ladrones Formation, and early and middle Pleistocene alluvium (Machette, 1978 #1223; Machette and McGimsey, 1983 #1024). |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | middle and late Quaternary (<750 ka)<br><br>*Comments:* No deposits younger than middle Pleistocene (150–750 ka) have been shown to be offset by these faults, but the 3–20 m offsets measured by Machette and McGimsey (1983 #1024) indicate a recurrent history of movement that in some cases probably extended into the late Pleistocene. <P> |
| **Recurrence interval** | |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* Low slip-rate category assigned based on offsets of 3–20 m of middle Pleistocene (150–750 ka) alluvium (Machette and McGimsey, 1983 #1024). |
| **Date and Compiler(s)** | 2016<br>Stephen F. Personius, U.S. Geological Survey<br>Andrew P. Jochems, New Mexico Bureau of Geology & Mineral Resources |
| **References** | #7268 Grauch, V.J.S., and Connell, S.D., 2013, New perspectives on the geometry of the Albuquerque basin, Rio Grande rift, New Mexico: Insights from geophysical models of rift-fill thickness, in Hudson, M.R., and Grauch, V.J.S., eds., New perspectives on Rio Grande rift basins—From tectonics to groundwater: Geological Society of America Special Paper 494, p. 427–462, doi:10.1130/2013.2494(16).<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1723 Love, D.W., and Young, J.D., 1983, Progress report on the late Cenozoic geologic evolution of the lower Rio Puerco, in Chapin, C.E., and Callender, J.F., eds., Socorro region II: New Mexico Geological Society, 34th Field Conference, October 13-15, 1983, Guidebook, p. 277-284.<br><br>#1399 Lozinsky, R.P., and Tedford, R.H., 1991, Geology and paleontology of the Santa Fe Group, southwestern Albuquerque basin, Valencia County, New |

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| | Mexico: New Mexico Bureau of Mines and Mineral Resources Bulletin 132, 35 p., 3 pls., scale 1:24,000.<br><br>#1401 Machette, M.N., 1982, Quaternary and Pliocene faults in the La Jencia and southern part of the Albuquerque-Belen basins, New Mexico—Evidence of fault history from fault-scarp morphology and Quaternary geology, in Grambling, J.A., and Wells, S.G., eds., Albuquerque Country II: New Mexico Geological Society, 33rd Field Conference, November 4-6, 1982, Guidebook, p. 161-169.<br><br>#1024 Machette, M.N., and McGimsey, R.G., 1983, Map of Quaternary and Pliocene faults in the Socorro and western part of the Fort Sumner 1° x 2° quadrangles, central New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF-1465-A, 12 p. pamphlet, 1 sheet, scale 1:250,000.<br><br>#1223 Machette, M.N., compiler, 1978, Preliminary geologic map of the Socorro 1° by 2° quadrangle, central New Mexico: U.S. Geological Survey Open-File Report 78-607, 1 sheet, scale 1:250,000. |

U.S. Geological Survey - Earthquake Hazards Program

# Quaternary Fault and Fold Database of the United States

**As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the interactive fault map.**

## Zia fault (Class A) No. 2046

**Last Review Date: 2015-04-13**

## Compiled in cooperation with the New Mexico Bureau of Geology & Mineral Resources

***citation for this record:*** **Personius, S.F., and Haller, K.M., compilers, 2015, Fault number 2046, Zia fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, https://earthquakes.usgs.gov/hazards/qfaults, accessed 08/27/2025 11:33 AM.**

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| **Synopsis** | The down-to-the-east Zia fault offsets Santa Fe Group sediment exposed in the Zia badlands, on the Llano de Albuquerque, and in younger Quaternary deposits. Upper Santa Fe Group sediment may have been offset about 60 m across the Zia fault since early Quaternary time. |
| **Name comments** | The Zia fault is one of several north-trending normal faults named by Kelley (1977 #1106) in the Zia badlands in the northern part of the Albuquerque-Belen basin. Galusha (1966 #1296), G.O. Bachman (unpublished mapping, 1975) and Manley (1978 #1404) mapped the northern end of the Zia fault in the Sky Village NE and Bernalillo NW quadrangles, respectively. Galusha (1966 #1296) and Manley (1978 #1404) used the name Rincon fault in the Bernalillo NW quadrangle, but we retain the name Zia fault herein due to apparent common usage in recent publications (Wong and others, 1995 #1155; Hawley and Whitworth, 1996 #1303). Recent mapping (Hawley and Whitworth, 1996 #1303; Cather and others, 1997 #1763; Connell, 2008 #7454) extends the Zia fault much further south than the original trace of the fault as mapped by Kelley (1977 #1106). |

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| **County(s) and State(s)** | BERNALILLO COUNTY, NEW MEXICO <br>SANDOVAL COUNTY, NEW MEXICO <br> |
| **Physiographic province(s)** | BASIN AND RANGE <br> |
| **Reliability of location** | Good<br>Compiled at 1:100,000 scale.<br><br>*Comments:* Fault trace from Manley (1978 #1404) in the Bernalillo NW quadrangle, G.O. Bachman (unpubl. mapping, 1975) in the Sky Village NE quadrangle, Cather and others (1997 #1763) in the Sky Village SE quadrangle, and unpublished air photo mapping by the compiler (1997) in the Sky Village NE, Sky Village SE, and Volcano Ranch quadrangles, all recompiled at 1:100,000 scale on a topographic base map. The fault location is also evident in high-resolution aeromagnetic data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721). <P> The southern trace of the Zia fault is open to interpretation. Cather and others (1997 #1763) mapped the Zia fault as a queried trace with a southward strike along the eastern margin of the Sky Village SE (now Arroyo de las Calabacillas) 7.5-minute quadrangle. However, the compiler used the mapping of Hawley and Whitworth (1996 #1303), airphoto analysis (S.F. Personius, unpubl. mapping, 1997), and geophysical data (U.S. Geological Survey and SIAL Geosciences Inc., 1997 #1722; Grauch and Millegan, 1998 #1721) to infer a more southwestward trace of the Zia fault across the Sky Village SE quadrangle. The latter trace is used in the compilation because the fault appears to have better topographic expression, and thus may have younger movement. <P> |
| **Geologic setting** | The Zia fault is one of several down-to-the-east intrabasin faults in the northern part of the Albuquerque-Belen basin. <P> |
| **Length (km)** | 32 km. |
| **Average strike** | N15°E |
| **Sense of movement** | Normal |

| | |
|---|---|
| **Dip Direction** | E |
| **Paleoseismology studies** | Site 2046-1. Referred to as the Zia trench site is located near the southern rim of Ceja de-Rio Jemez (the northern limit of the Llano de Albuquerque geomorphic surface). McCalpin and Harrison (2001 #6924) excavated three trenches at this site in order to better observe the stratigraphy. The middle trench crosses the steepest, highest part of the fault scarp and reveals evidence for at least 5 faulting events. Displacement in these events ranged from 0.6 to 2.6 m, with an average of 1.3 m. The study includes two independent age estimates from soil-carbonate accumulation and luminescence ages. Soil-carbonate age estimates are preferred because the thermoluminescence ages (56–416 ka) were deemed unreliable because all dates are in an inverted stratigraphic order. The soils in the upper 3 m of the trench required 10–32 k.y. to form, and the strong soils at the base of the trench required an additional 32 k.y. <P> |
| **Geomorphic expression** | The Zia fault is well exposed in Santa Fe Group sediment in the Zia badlands north of the Llano de Albuquerque. Farther south, the fault forms broad, dissected fault scarps across the Llano de Albuquerque and on younger surficial deposits. <P> |
| **Age of faulted surficial deposits** | Manley (1978 #1404) described minor (0.5 m) offset of middle or upper (?) Pleistocene alluvium by the Zia fault in the Bernalillo NW quadrangle. Kelly (1997 #1106) estimated approximately 60 m of throw in Upper Santa Fe Group sediment (Pliocene to early Pleistocene) across the Zia fault. In most places, the Zia fault offsets the early Pleistocene Llano de Albuquerque surface and middle (?) Pleistocene surficial deposits. |
| **Historic earthquake** | |
| **Most recent prehistoric deformation** | latest Quaternary (<15 ka)<br><br>*Comments:* McCalpin and Harrison (2001 #6924) conclude that the most recent surface rupture at the trench site occurred about 11 ka as inferred from soil-carbonate age estimates. Furthermore, the most recent event is older than the Holocene unconformity that occurred about 2,380–2,740 cal. yr BP. <P> |
| **Recurrence interval** | 10–21 k.y. (<119 ka) |

| | |
|---|---|
| | *Comments:* McCalpin and Harrison (2001 #6924) base their estimate of long-term average recurrence by assuming five events have occurred since the formation of buried soils 5 and 6, which have a soil-carbonate age estimate of greater than 63 ka and an optically stimulated luminescence (OSL) age of 119 ka. McCalpin and Harrison (2001 #6924) suggest that if the most recent event occurred at 11 ka, then the four preceding recurrence cycles spanned 52–108 k.y., which results in an average recurrence interval of 10–21 k.y. |
| **Slip-rate category** | Less than 0.2 mm/yr<br><br>*Comments:* The five events inferred from the middle trench have a cumulative down-to-the-east vertical displacement of 6.5 m, which occurred over the past 63-119 ka. McCalpin and Harrison (2001 #6924) suggest that the resulting average long-term vertical displacement rate is 0.055–0.1 mm/yr. |
| **Date and Compiler(s)** | 2015<br>Stephen F. Personius, U.S. Geological Survey<br>Kathleen M. Haller, U.S. Geological Survey |
| **References** | #1763 Cather, S.M., Connell, S.D., Heynekamp, M.R., and Goodwin, L.B., 1997, Geology of the Arroyo de las Calabacillas [Sky Village SE] 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Geologic Map 9, 8 p. pamphlet, 1 sheet, scale 1:24,000.<br><br>#7454 Connell, S.D., 2008, Geologic map of the Albuquerque-Rio Rancho metropolitan area and vicinity, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources Geologic Map 78, scale 1:50,000.<br><br>#1296 Galusha, T., 1966, The Zia Sand Formation, new early to medial Miocene beds in New Mexico: American Museum Novitates 2271, 12 p.<br><br>#1721 Grauch, V.J.S., and Millegan, P.S., 1998, Mapping intrabasinal faults from high-resolution aeromagnetic data: The Leading Edge, v. 17, p. 53-55.<br><br>#1303 Hawley, J.W., and Whitworth, T.M., compilers, 1996, Hydrogeology of potential recharge areas for the basin- and valley-fill aquifer systems, and hydrogeochemical modeling of proposed artificial recharge of the upper Santa Fe aquifer, northern Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Open-File Report 402-D, 575 p.<br><br>#1106 Kelley, V.C., 1977, Geology of Albuquerque basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Memoir 33, 60 p., 2 pls.<br><br>#1404 Manley, K., 1978, Geologic map of Bernalillo NW quadrangle, Sandoval County, New Mexico: U.S. Geological Survey Geologic quadrangle Map GQ-1446, 1 sheet, scale 1:24,000.<br><br>#6924 McCalpin, J.P., and Harrison, J.B.J., 2001, Paleoseismicity of Quaternary faults near Albuquerque, New Mexico: Final Technical Report, Second Year, to U.S. Geological Survey for Contract 99HQGR0056, 58 p.<br><br>#1722 U.S. Geological Survey, and SIAL Geosciences, Inc., 1997, Description of digital |

| | |
|---|---|
| | aeromagnetic data collected north and west of Albuquerque, New Mexico: U.S. Geological Survey Open-File Report 97-286, 40 p.<br><br>#1155 Wong, I., Kelson, K., Olig, S., Kolbe, T., Hemphill-Haley, M., Bott, J., Green, R., Kanakari, H., Sawyer, J., Silva, W., Stark, C., Haraden, C., Fenton, C., Unruh, J., Gardner, J., Reneau, S., and House, L., 1995, Seismic hazards evaluation of the Los Alamos National Laboratory: Technical report to Los Alamos National Laboratory, Los Alamos, New Mexico, February 24, 1995, 3 volumes, 12 pls., 16 appen. |

# APPENDIX C
# DETERMINISTIC ANALYSES

# APPENDIX C.1
# DETERMINISTIC EZ-FRISK SOFTWARE INPUT

```
                  ********************************************
                  *****              EZ-FRISK              *****
                  ***** SEISMIC HAZARD ANALYSIS DEFINITION *****
                  *****               FUGRO                *****
                  *****        WALNUT CREEK, CA  USA       *****
                  ********************************************

PROGRAM VERSION
  EZ-FRISK 8.11 Build 019

ANALYSIS TITLE:
  Mt Taylor Deterministic

ANALYSIS TYPE:
  Single Site Analysis

SITE COORDINATES
  Latitude 35.3409
  Longitude -107.635

INTENSITY TYPE:  Spectral Response @ 5% Damping

HAZARD DEAGGREGATION
  Status: ON
  Deagregation Scenario 1
    Period:             PGA
    Amplitude:          0.0001 Acceleration (g)
  Bin Configuration
    Magnitude
      Scale:         Moment Magnitude
      Lowest Value:  5 Mw
      Highest Value: 9 Mw
      Bin Size:      0.1
    Distance
      Lowest Value:  0 km
      Highest Value: 102.5 km
      Bin Size:      2.5 km
    Epsilon
      Lowest Value:  -2.2
      Highest Value: 4.2
      Bin Size:      0.2

SOIL AMPLIFICATION
  Method: Do not use soil amplification

ATTENUATION EQUATION SITE PARAMETERS
  Depth[Vs=1,000m/s] (m): 5
  Depth[Vs=1000m/s] (m): -1
  Estimate Z1 from Vs30 for CY NGA: 1
  Regional Code: Default
  Subduction Zone Setting: Unknown
  Vs30 (m/s): 1200
  Vs30 Is Measured: 0
  Z25 (km): 0.79
```

AMPLITUDES - Acceleration (g)
  0.0001
  0.001
  0.01
  0.02
  0.05
  0.07
  0.1
  0.2
  0.3
  0.4
  0.5
  0.7
  1
  2
  3

PERIODS (s)
  PGA
  0.05
  0.1
  0.2
  0.3
  0.4
  0.5
  0.75
  1
  2
  3
  4

DETERMINISTIC FRACTILES
  0.5
  0.84

PLOTTING PARAMETERS
  Period at which to plot PGA: 0.0001

CALCULATIONAL PARAMETERS
  Fault Seismic Sources -
    Maximum inclusion distance           :   1000 km
    Down dip integration increment       :   1 km
    Horizontal integration increment     :   1 km
    Number rupture length per earthquake :   1
  Subduction Interface Seismic Sources -
    Maximum inclusion distance           :   1000 km
    Down dip integration increment       :   5 km
    Horizontal integration increment     :   20 km
    Number rupture length per earthquake :   1
  Subduction Slab Seismic Sources -
    Maximum inclusion distance           :   300 km
    Down dip integration increment       :   5 km
    Horizontal integration increment     :   20 km

```
    Number rupture length per earthquake :   1
  Area Seismic Sources -
    Maximum inclusion distance           :   200 km
    Vertical integration increment       :   3 km
    Number of rupture azimuths           :   3
    Minimum epicentral distance step     :   0.5 km
    Maximum epicentral distance step     :   10 km
  Gridded Seismic Sources -
    Maximum inclusion distance            :   1000 km
    Default number of rupture azimuths    :   20
    Maximum distance for default azimuths :   40 km
    Minimum distance for one azimuth      :   150
    Use binned calcuations if possible    :   true
    Bins per decade in distance (km)      :   20
  All Seismic Sources -
    Magnitude integration step           :   0.1 M
    Apply magnitude scaling              :   NO
    Include near-source directivity      :   NO

ATTENUATION EQUATIONS

  Name: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Abrahamson-et al 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Distance To Rupture

  Name: Boore-et al (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Boore-et al 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Horizontal Distance To Rupture

  Name: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Campbell-Bozorgnia 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Distance To Rupture

  Name: Chiou-Youngs (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Chiou-Youngs 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
```

Magnitude Scale: Moment Magnitude
Distance Type: Distance To Rupture

SEISMIC SOURCE SUMMARY TABLE

| Closest Deterministic Fault Source | Distance | Magnitude | Mechanism | Dip Angle | Dips To | Site Region Lies |
|---|---|---|---|---|---|---|
| Random Earthquake | 15.08 | 6.3000 | Normal | 60.0000 | NE | Mt Taylor Deterministic S |
| Cat Mesa fault | 75.81 | 6.6000 | Normal | 80.0000 | W | Mt Taylor Deterministic NW |
| Cebollita Mesa fault | 74.73 | 6.3000 | Normal | 60.0000 | W | Mt Taylor Deterministic NE |
| Continental Divide fault | 91.78 | 6.5000 | Normal | 60.0000 | NW | Mt Taylor Deterministic NE |
| County Dump fault [2038] | 76.49 | 6.8900 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Coyote Springs fault | 93.39 | 6.5000 | Normal | 60.0000 | SW | Mt Taylor Deterministic NW |
| Intrabasin faults on the Llano de Albuquerque | 66.68 | 7.5000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Jemez-San Ysidro fault [2029ab] | 77.22 | 7.0900 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Calabacillas fault [2035] | 70.51 | 6.8300 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Mesa Prieta faults | 47.03 | 6.3000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Nacimiento fault [2002ab] | 72.26 | 7.3000 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| San Felipe fault zone [2030a] | 93.19 | 6.9700 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| San Felipe fault zone (Algodones section) | 93.26 | 7.0000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Sand Hill fault zone | 62.14 | 6.9000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Santa Fe fault | 67.75 | 6.8000 | Normal | 60.0000 | W | Mt Taylor Deterministic NW |
| unnamed fault of Bonita Canyon | 49.31 | 6.1000 | Normal | 60.0000 | W | Mt Taylor Deterministic NE |
| unnamed faults near Albuquerque Volcanoes | 73.56 | 6.9000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| unnamed faults near Picuda Peak | 78.77 | 6.4000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| unnamed faults near Star Heights | 78.52 | 6.5000 | Normal | 70.0000 | W | Mt Taylor Deterministic W |
| unnamed faults of El Malpais lava field | 60.42 | 6.7000 | Normal | 60.0000 | W | Mt Taylor Deterministic NE |
| unnamed intrabasin faults west of the Rio Puerco | 87.25 | 6.6000 | Normal | 60.0000 | W | Mt Taylor Deterministic NW |

Zia fault [2046]  USGS 2014 New Mexico
73.70  6.8400 Normal  35-65 E  W

SEISMIC SOURCES

Name: Random Earthquake
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.200000 | 6.400000 | 0.000000 | 6.300000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4750 | -107.6100 |
| 35.4760 | -107.6110 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Cat Mesa fault
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal

Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 80 | 80 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.300000 | 6.900000 | 0.000000 | 6.600000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.0060 | -106.8960 |
| 34.7350 | -106.9260 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Cebollita Mesa fault
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|

```
          Normal         1        Slip   2.000e-02  6.000000  6.600000
0.000000  6.300000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.7310  -107.9810
    34.6100  -107.9750

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Continental Divide fault
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal         1        Slip   2.000e-02  6.200000  6.800000
0.000000  6.500000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
```

```
    34.7820  -108.3780
    34.6090  -108.4870

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: County Dump fault [2038]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forCounty Dump fault [2038] -------
Name: 2038 County Dump fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.89

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
       ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal  0.013334    Activity   4.132e-05  6.450000  6.930000
2.300000  6.690000  0.120000  0.010000 10.000000
          Normal  0.040002    Activity   4.132e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
          Normal  0.013334    Activity   4.132e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
     Exponential  0.006666    Activity   5.043e-05  6.500000  6.690000
1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.019998    Activity   8.751e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
     Exponential  0.006666    Activity   1.132e-04  6.500000  7.090000
1.842068  0.000000  0.000000  0.000000  0.000000
          Normal  0.106666    Activity   4.095e-05  6.450000  6.930000
2.300000  6.690000  0.120000  0.010000 10.000000
          Normal  0.319998    Activity   4.095e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
```

| | | | | | | |
|---|---|---|---|---|---|---|
| Normal | 0.106666 | Activity | 4.095e-05 | 6.850000 | 7.330000 | 2.300000 |
| 7.090000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Exponential | 0.053334 | Activity | 5.003e-05 | 6.500000 | 6.690000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.160002 | Activity | 8.682e-05 | 6.500000 | 6.890000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.053334 | Activity | 1.123e-04 | 6.500000 | 7.090000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Normal | 0.013334 | Activity | 4.951e-05 | 6.450000 | 6.930000 | 2.300000 |
| 6.690000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.040002 | Activity | 4.951e-05 | 6.650000 | 7.130000 | 2.300000 |
| 6.890000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.013334 | Activity | 4.951e-05 | 6.850000 | 7.330000 | 2.300000 |
| 7.090000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Exponential | 0.006666 | Activity | 6.051e-05 | 6.500000 | 6.690000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.019998 | Activity | 1.050e-04 | 6.500000 | 6.890000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.006666 | Activity | 1.358e-04 | 6.500000 | 7.090000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.0085  -106.7757
    35.1051  -106.7841
    35.1830  -106.7825
    35.2448  -106.8003
    35.2807  -106.7828
    35.3260  -106.7499

Name: 2038 County Dump fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.89

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        50         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   4.132e-05  6.450000  6.930000
2.300000  6.690000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   4.132e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   4.132e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   5.043e-05  6.500000  6.690000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   8.751e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   1.132e-04  6.500000  7.090000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity   4.095e-05  6.450000  6.930000
2.300000  6.690000  0.120000  0.010000 10.000000
           Normal  0.319998    Activity   4.095e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
           Normal  0.106666    Activity   4.095e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
      Exponential  0.053334    Activity   5.003e-05  6.500000  6.690000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.160002    Activity   8.682e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
```

| | | | | | | |
|---|---|---|---|---|---|---|
| Exponential | 0.053334 | Activity | 1.123e-04 | 6.500000 | 7.090000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Normal | 0.013334 | Activity | 4.951e-05 | 6.450000 | 6.930000 | 2.300000 |
| 6.690000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.040002 | Activity | 4.951e-05 | 6.650000 | 7.130000 | 2.300000 |
| 6.890000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.013334 | Activity | 4.951e-05 | 6.850000 | 7.330000 | 2.300000 |
| 7.090000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Exponential | 0.006666 | Activity | 6.051e-05 | 6.500000 | 6.690000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.019998 | Activity | 1.050e-04 | 6.500000 | 6.890000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.006666 | Activity | 1.358e-04 | 6.500000 | 7.090000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.0085 | -106.7757 |
| 35.1051 | -106.7841 |
| 35.1830 | -106.7825 |
| 35.2448 | -106.8003 |
| 35.2807 | -106.7828 |
| 35.3260 | -106.7499 |

Name: 2038 County Dump fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.89

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 4.132e-05 | 6.450000 | 6.930000 | 2.300000 | 6.690000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 4.132e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 4.132e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 5.043e-05 | 6.500000 | 6.690000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 8.751e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 1.132e-04 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 4.095e-05 | 6.450000 | 6.930000 | 2.300000 | 6.690000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 4.095e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 4.095e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 5.003e-05 | 6.500000 | 6.690000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 8.682e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 1.123e-04 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 4.951e-05 | 6.450000 | 6.930000 | 2.300000 | 6.690000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 4.951e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.013334 | Activity | 4.951e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.006666 | Activity | 6.051e-05 | 6.500000 | 6.690000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.019998 | Activity | 1.050e-04 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.006666 | Activity | 1.358e-04 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.0085 | -106.7757 |
| 35.1051 | -106.7841 |
| 35.1830 | -106.7825 |

```
    35.2448  -106.8003
    35.2807  -106.7828
    35.3260  -106.7499

 ------ End Nested Sources for County Dump fault [2038] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Coyote Springs fault
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal         1        Slip   2.000e-02  6.200000  6.800000
0.000000  6.500000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.6210  -107.1060
    34.4710  -107.0050

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
```

```
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Intrabasin faults on the Llano de Albuquerque
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 7.5

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
       ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
         Normal         1        Slip   2.000e-02  7.200000  7.800000
0.000000  7.500000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1810  -106.8520
    34.4930  -106.8350

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Jemez-San Ysidro fault [2029ab]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
```

Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forJemez-San Ysidro fault [2029ab] -------
Name: 2029ab Jemez-San Ysidro fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 35 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.815e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.237e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 5.479e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 6.339e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.582e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 3.687e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 4.768e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.516e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 2.420e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 5.650e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.306e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Exponential 0.006666 Activity 8.452e-05 6.500000 7.290000
1.842068 0.000000 0.000000 0.000000 0.000000

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4204 | -106.7887 |
| 35.4846 | -106.7821 |
| 35.5444 | -106.7889 |
| 35.5588 | -106.7854 |
| 35.5980 | -106.7870 |
| 35.6099 | -106.7896 |
| 35.6472 | -106.8137 |
| 35.6645 | -106.8166 |
| 35.6864 | -106.8126 |

35.7072 -106.7940
35.7251 -106.7645
35.7443 -106.7555
35.7529 -106.7401
35.7737 -106.7198
35.7876 -106.6880
35.8181 -106.6576
35.8332 -106.6346

Name: 2029ab Jemez-San Ysidro fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.815e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.237e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 5.479e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 6.339e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.582e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 3.687e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 4.768e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.516e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 2.420e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Exponential | 0.006666 | Activity | 5.650e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.019998 | Activity | 7.306e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.006666 | Activity | 8.452e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4204 | -106.7887 |
| 35.4846 | -106.7821 |
| 35.5444 | -106.7889 |
| 35.5588 | -106.7854 |
| 35.5980 | -106.7870 |

```
    35.6099  -106.7896
    35.6472  -106.8137
    35.6645  -106.8166
    35.6864  -106.8126
    35.7072  -106.7940
    35.7251  -106.7645
    35.7443  -106.7555
    35.7529  -106.7401
    35.7737  -106.7198
    35.7876  -106.6880
    35.8181  -106.6576
    35.8332  -106.6346

Name: 2029ab Jemez-San Ysidro fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        65         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   1.815e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   1.815e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   1.815e-05  7.050000  7.530000
2.300000  7.290000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   4.237e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   5.479e-05  6.500000  7.090000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   6.339e-05  6.500000  7.290000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity   1.582e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
           Normal  0.319998    Activity   1.582e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
           Normal  0.106666    Activity   1.582e-05  7.050000  7.530000
2.300000  7.290000  0.120000  0.010000 10.000000
      Exponential  0.053334    Activity   3.687e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.160002    Activity   4.768e-05  6.500000  7.090000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.053334    Activity   5.516e-05  6.500000  7.290000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.013334    Activity   2.420e-05  6.650000  7.130000
2.300000  6.890000  0.120000  0.010000 10.000000
```

```
           Normal  0.040002    Activity   2.420e-05  6.850000  7.330000
2.300000  7.090000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   2.420e-05  7.050000  7.530000
2.300000  7.290000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   5.650e-05  6.500000  6.890000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   7.306e-05  6.500000  7.090000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   8.452e-05  6.500000  7.290000
1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.4204  -106.7887
```

```
    35.4846  -106.7821
    35.5444  -106.7889
    35.5588  -106.7854
    35.5980  -106.7870
    35.6099  -106.7896
    35.6472  -106.8137
    35.6645  -106.8166
    35.6864  -106.8126
    35.7072  -106.7940
    35.7251  -106.7645
    35.7443  -106.7555
    35.7529  -106.7401
    35.7737  -106.7198
    35.7876  -106.6880
    35.8181  -106.6576
    35.8332  -106.6346

 ------ End Nested Sources for Jemez-San Ysidro fault [2029ab] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Calabacillas fault [2035]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forCalabacillas fault [2035] -------
Name: 2035 Calabacillas fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
```

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.013334 | Activity | 1.984e-04 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.040002 | Activity | 1.984e-04 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.013334 | Activity | 1.984e-04 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.006666 | Activity | 1.770e-04 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.019998 | Activity | 3.787e-04 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.006666 | Activity | 5.181e-04 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Normal | 0.106666 | Activity | 8.097e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.319998 | Activity | 8.097e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.106666 | Activity | 8.097e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.053334 | Activity | 7.248e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.040002 | Activity | 9.028e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.006666 | Activity | 8.047e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.019998 | Activity | 1.721e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.006666 | Activity | 2.355e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- | | |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- | | |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- | | |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- | | |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.1404 | -106.8390 |
| 35.2034 | -106.8526 |
| 35.2416 | -106.8654 |
| 35.2671 | -106.8632 |
| 35.3315 | -106.8350 |
| 35.4192 | -106.7898 |

Name: 2035 Calabacillas fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.984e-04 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.984e-04 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.984e-04 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exponential | 0.006666 | Activity | 1.770e-04 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.019998 | Activity | 3.787e-04 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.006666 | Activity | 5.181e-04 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Normal | 0.106666 | Activity | 8.097e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 | | |
| Normal | 0.319998 | Activity | 8.097e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 | | |
| Normal | 0.106666 | Activity | 8.097e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 | | |
| Exponential | 0.053334 | Activity | 7.248e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 | | |
| Normal | 0.040002 | Activity | 9.028e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 | | |
| Normal | 0.013334 | Activity | 9.028e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 | | |
| Exponential | 0.006666 | Activity | 8.047e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.019998 | Activity | 1.721e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |
| Exponential | 0.006666 | Activity | 2.355e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.1404 | -106.8390 |
| 35.2034 | -106.8526 |
| 35.2416 | -106.8654 |
| 35.2671 | -106.8632 |
| 35.3315 | -106.8350 |
| 35.4192 | -106.7898 |

Name: 2035 Calabacillas fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.984e-04 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.984e-04 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.984e-04 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 1.770e-04 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 3.787e-04 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 5.181e-04 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.106666 | Activity | 8.097e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.319998 | Activity | 8.097e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.106666 | Activity | 8.097e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.053334 | Activity | 7.248e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.040002 | Activity | 9.028e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| | Exponential | 0.006666 | Activity | 8.047e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.019998 | Activity | 1.721e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | Exponential | 0.006666 | Activity | 2.355e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1404  -106.8390
    35.2034  -106.8526
    35.2416  -106.8654
    35.2671  -106.8632
    35.3315  -106.8350
    35.4192  -106.7898

 ------ End Nested Sources for Calabacillas fault [2035] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Mesa Prieta faults
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.3

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal         1        Slip   2.000e-02  6.000000  6.600000
0.000000  6.300000  0.120000  0.000000  0.000000
```

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.5190 | -107.0400 |
| 35.4360 | -107.0760 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Nacimiento fault [2002ab]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forNacimiento fault [2002ab] -------
Name: 2002ab Nacimiento fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 35 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.041e-04 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.041e-04 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.041e-04 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 3.949e-04 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Exponential | 0.019998 | Activity | 4.551e-04 | 6.500000 | 7.300000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.006666 | Activity | 4.968e-04 | 6.500000 | 7.500000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Normal | 0.106666 | Activity | 1.182e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.319998 | Activity | 1.182e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.106666 | Activity | 1.182e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Exponential | 0.053334 | Activity | 4.483e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4853 | -106.8574 |
| 35.5849 | -106.8557 |
| 35.6246 | -106.8577 |
| 35.6777 | -106.8687 |
| 35.7441 | -106.8701 |
| 35.7740 | -106.8782 |
| 35.7902 | -106.8878 |
| 35.8244 | -106.8941 |
| 35.8730 | -106.8830 |
| 35.8874 | -106.8885 |
| 35.8967 | -106.8886 |
| 35.9087 | -106.8936 |
| 35.9475 | -106.8926 |
| 35.9999 | -106.9014 |
| 36.0348 | -106.8992 |
| 36.0541 | -106.9073 |
| 36.0739 | -106.9093 |
| 36.0917 | -106.9093 |
| 36.1155 | -106.9015 |
| 36.1908 | -106.9112 |
| 36.1985 | -106.9056 |
| 36.2198 | -106.9021 |

Name: 2002ab Nacimiento fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.041e-04 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.041e-04 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.041e-04 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 3.949e-04 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 4.551e-04 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 4.968e-04 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.182e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.182e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.182e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 4.483e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4853 | -106.8574 |
| 35.5849 | -106.8557 |
| 35.6246 | -106.8577 |
| 35.6777 | -106.8687 |
| 35.7441 | -106.8701 |
| 35.7740 | -106.8782 |
| 35.7902 | -106.8878 |
| 35.8244 | -106.8941 |
| 35.8730 | -106.8830 |
| 35.8874 | -106.8885 |
| 35.8967 | -106.8886 |
| 35.9087 | -106.8936 |
| 35.9475 | -106.8926 |
| 35.9999 | -106.9014 |
| 36.0348 | -106.8992 |
| 36.0541 | -106.9073 |
| 36.0739 | -106.9093 |
| 36.0917 | -106.9093 |
| 36.1155 | -106.9015 |
| 36.1908 | -106.9112 |
| 36.1985 | -106.9056 |
| 36.2198 | -106.9021 |

Name: 2002ab Nacimiento fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal

Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.041e-04 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.041e-04 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.041e-04 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 3.949e-04 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 4.551e-04 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 4.968e-04 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.182e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.182e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.182e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 4.483e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4853 | -106.8574 |
| 35.5849 | -106.8557 |
| 35.6246 | -106.8577 |
| 35.6777 | -106.8687 |
| 35.7441 | -106.8701 |
| 35.7740 | -106.8782 |
| 35.7902 | -106.8878 |
| 35.8244 | -106.8941 |
| 35.8730 | -106.8830 |
| 35.8874 | -106.8885 |
| 35.8967 | -106.8886 |
| 35.9087 | -106.8936 |
| 35.9475 | -106.8926 |
| 35.9999 | -106.9014 |
| 36.0348 | -106.8992 |
| 36.0541 | -106.9073 |
| 36.0739 | -106.9093 |

```
    36.0917  -106.9093
    36.1155  -106.9015
    36.1908  -106.9112
    36.1985  -106.9056
    36.2198  -106.9021

 ------ End Nested Sources for Nacimiento fault [2002ab] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: San Felipe fault zone [2030a]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forSan Felipe fault zone [2030a] -------
Name: 2030a San Felipe fault zone (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.97

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   3.667e-05  6.530000  7.010000
2.300000  6.770000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   3.667e-05  6.730000  7.210000
2.300000  6.970000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   3.667e-05  6.930000  7.410000
2.300000  7.170000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   6.049e-05  6.500000  6.770000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   8.942e-05  6.500000  6.970000
1.842068  0.000000  0.000000  0.000000  0.000000
```

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Exponential | 0.006666 | Activity | 1.094e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Normal | 0.106666 | Activity | 4.114e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.319998 | Activity | 4.114e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.106666 | Activity | 4.114e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| Exponential | 0.053334 | Activity | 6.791e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.160002 | Activity | 1.004e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.053334 | Activity | 1.229e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Normal | 0.013334 | Activity | 5.863e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.040002 | Activity | 5.863e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.013334 | Activity | 5.863e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| Exponential | 0.006666 | Activity | 9.678e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.019998 | Activity | 1.431e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.006666 | Activity | 1.751e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.3121 | -106.6081 |
| 35.3270 | -106.6074 |
| 35.3567 | -106.5956 |
| 35.3788 | -106.5946 |
| 35.4247 | -106.6022 |
| 35.4578 | -106.6165 |
| 35.4795 | -106.6103 |
| 35.5200 | -106.6145 |
| 35.5312 | -106.6112 |
| 35.5464 | -106.5983 |
| 35.5640 | -106.5927 |
| 35.5981 | -106.5979 |
| 35.6192 | -106.5958 |
| 35.6399 | -106.6049 |
| 35.6641 | -106.6000 |
| 35.6832 | -106.5846 |

Name: 2030a San Felipe fault zone (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.97

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 3.667e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 3.667e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 3.667e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Exponential | 0.006666 | Activity | 6.049e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 8.942e-05 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 1.094e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.106666 | Activity | 4.114e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.319998 | Activity | 4.114e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.106666 | Activity | 4.114e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.053334 | Activity | 6.791e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.160002 | Activity | 1.004e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.053334 | Activity | 1.229e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.013334 | Activity | 5.863e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.040002 | Activity | 5.863e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 5.863e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 9.678e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 1.431e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 1.751e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.3121 | -106.6081 |
| 35.3270 | -106.6074 |
| 35.3567 | -106.5956 |
| 35.3788 | -106.5946 |
| 35.4247 | -106.6022 |
| 35.4578 | -106.6165 |
| 35.4795 | -106.6103 |
| 35.5200 | -106.6145 |
| 35.5312 | -106.6112 |
| 35.5464 | -106.5983 |
| 35.5640 | -106.5927 |
| 35.5981 | -106.5979 |
| 35.6192 | -106.5958 |
| 35.6399 | -106.6049 |
| 35.6641 | -106.6000 |
| 35.6832 | -106.5846 |

Name: 2030a San Felipe fault zone (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.97

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 3.667e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.040002 | Activity | 3.667e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 3.667e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 6.049e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 8.942e-05 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 1.094e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.106666 | Activity | 4.114e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.319998 | Activity | 4.114e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.106666 | Activity | 4.114e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.053334 | Activity | 6.791e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.160002 | Activity | 1.004e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.053334 | Activity | 1.229e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.013334 | Activity | 5.863e-05 | 6.530000 | 7.010000 | 2.300000 | 6.770000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.040002 | Activity | 5.863e-05 | 6.730000 | 7.210000 | 2.300000 | 6.970000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 5.863e-05 | 6.930000 | 7.410000 | 2.300000 | 7.170000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 9.678e-05 | 6.500000 | 6.770000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 1.431e-04 | 6.500000 | 6.970000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 1.751e-04 | 6.500000 | 7.170000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.3121  -106.6081
    35.3270  -106.6074
    35.3567  -106.5956
    35.3788  -106.5946
    35.4247  -106.6022
    35.4578  -106.6165
    35.4795  -106.6103
    35.5200  -106.6145
    35.5312  -106.6112
    35.5464  -106.5983
    35.5640  -106.5927
    35.5981  -106.5979
    35.6192  -106.5958
    35.6399  -106.6049
    35.6641  -106.6000
    35.6832  -106.5846

 ------ End Nested Sources for San Felipe fault zone [2030a] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************
```

Name: San Felipe fault zone (Algodones section)
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 7

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.700000 | 7.300000 | 0.000000 | 7.000000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.5690 | -106.4950 |
| 35.3340 | -106.5250 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Sand Hill fault zone
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

```
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  6.600000  7.200000
0.000000  6.900000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.4440  -106.8690
    35.1400  -106.8840

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Santa Fe fault
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.8

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  6.500000  7.100000
0.000000  6.800000  0.120000  0.000000  0.000000

Rupture Length Parameters
```

```
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.8880  -107.0530
    34.6360  -107.1040

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: unnamed fault of Bonita Canyon
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.1

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  5.800000  6.400000
0.000000  6.100000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.9800  -107.9510
    34.9250  -107.9400

Attenuation Equations for Source:
```

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: unnamed faults near Albuquerque Volcanoes
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.600000 | 7.200000 | 0.000000 | 6.900000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.2180 | -106.7620 |
| 35.0650 | -106.7500 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: unnamed faults near Picuda Peak
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.4

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.100000 | 6.700000 | 0.000000 | 6.400000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4270 | -106.6850 |
| 35.2830 | -106.6880 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: unnamed faults near Star Heights
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.5

Fault Profile Parameters:

```
        Dip1      Dip2    Depth1    Depth2    Depth3
          70        70         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  6.200000  6.800000
0.000000  6.500000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.3510  -106.7250
    35.1680  -106.7160

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: unnamed faults of El Malpais lava field
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.7

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  6.400000  7.000000
0.000000  6.700000  0.120000  0.000000  0.000000

Rupture Length Parameters
```

```
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.8880  -108.0030
    34.5720  -108.1560

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: unnamed intrabasin faults west of the Rio Puerco
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.6

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal         1        Slip   2.000e-02  6.300000  6.900000
0.000000  6.600000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    34.7190  -106.9930
    34.4700  -106.9620

Attenuation Equations for Source:
```

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Zia fault [2046]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forZia fault [2046] -------
Name: 2046 Zia fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.84

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 35 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 4.384e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 4.384e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 4.384e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.160e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 8.517e-05 | 6.500000 | 6.840000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 1.153e-04 | 6.500000 | 7.040000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 4.356e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 4.127e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

```
      Exponential  0.160002    Activity   8.450e-05  6.500000  6.840000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.053334    Activity   1.144e-04  6.500000  7.040000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.013334    Activity   5.268e-05  6.400000  6.880000
2.300000  6.640000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   5.268e-05  6.600000  7.080000
2.300000  6.840000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   5.268e-05  6.800000  7.280000
2.300000  7.040000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   4.992e-05  6.500000  6.640000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   1.022e-04  6.500000  6.840000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   1.384e-04  6.500000  7.040000
1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
```

Length and width -3.220000 0.690000 0.220000 -3.220000 0.690000 0.220000 -- -- --

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.1892 | -106.8434 |
| 35.2802 | -106.8231 |
| 35.3228 | -106.7957 |
| 35.3473 | -106.7841 |
| 35.3751 | -106.7784 |
| 35.4006 | -106.7624 |
| 35.4706 | -106.7481 |

Name: 2046 Zia fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.84

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 4.384e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 4.384e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 4.384e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.160e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 8.517e-05 | 6.500000 | 6.840000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 1.153e-04 | 6.500000 | 7.040000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 4.356e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 4.127e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 8.450e-05 | 6.500000 | 6.840000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 1.144e-04 | 6.500000 | 7.040000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 5.268e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |

```
           Normal  0.040002    Activity   5.268e-05  6.600000  7.080000
2.300000  6.840000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   5.268e-05  6.800000  7.280000
2.300000  7.040000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   4.992e-05  6.500000  6.640000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   1.022e-04  6.500000  6.840000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   1.384e-04  6.500000  7.040000
1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1892  -106.8434
```

35.2802 -106.8231
35.3228 -106.7957
35.3473 -106.7841
35.3751 -106.7784
35.4006 -106.7624
35.4706 -106.7481

Name: 2046 Zia fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.84

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 4.384e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 4.384e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 4.384e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.160e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 8.517e-05 | 6.500000 | 6.840000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 1.153e-04 | 6.500000 | 7.040000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 4.356e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 4.356e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 4.127e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 8.450e-05 | 6.500000 | 6.840000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 1.144e-04 | 6.500000 | 7.040000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 5.268e-05 | 6.400000 | 6.880000 | 2.300000 | 6.640000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 5.268e-05 | 6.600000 | 7.080000 | 2.300000 | 6.840000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 5.268e-05 | 6.800000 | 7.280000 | 2.300000 | 7.040000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.992e-05 | 6.500000 | 6.640000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

```
      Exponential  0.019998    Activity   1.022e-04  6.500000  6.840000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   1.384e-04  6.500000  7.040000
1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1892  -106.8434
    35.2802  -106.8231
    35.3228  -106.7957
    35.3473  -106.7841
    35.3751  -106.7784
    35.4006  -106.7624
    35.4706  -106.7481
```

------ End Nested Sources for Zia fault [2046] -------

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

MAGNITUDE CONVERSIONS

This analysis does not require any magnitude conversions.
Note: Your analysis may indirectly use magnitude conversions that are not listed here.

Echo File Creation Time: 14:08:38 Thursday, September 18, 2025

# APPENDIX C.2
# DETERMINISTIC RESULTS

## Appendix C.2 Results of Deterministic Hazard Analysis

| Name of Faults | ID Number | Age of Most Recent Prehistoric Deformation (ya)[1] | Slip-rate (mm/yr) | Fault Length (Km) | Fault Type | Distance from site to surface trace of fault (km) | MCE[2,3] | PGA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Lognormal Mean | | Arahamson-et al (2014) | | Borre-et al (2014) | | Campbell-Bozorgnia (2014) | | Chiou-Youngs (2014) | |
| | | | | | | | | Mean | Mean +1SD | Mean | Mean +1SD | Mean | Mean +1SD | Mean | Mean +1SD | Mean | Mean +1SD |
| Random Earthquake | - | - | - | - | - | 15.1 | 6.3 | 0.09 | 0.17 | 0.09 | 0.16 | 0.09 | 0.16 | 0.12 | 0.21 | 0.08 | 0.14 |
| Cat Mesa fault | 2122 | <750,000 | <0.2 | 20 | Normal | 75.9 | 6.6 | 0.02 | 0.04 | 0.02 | 0.04 | 0.02 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 |
| Cebollita Mesa fault | 2140 | <15,000 | <0.2 | 13 | Normal | 74.8 | 6.3 | 0.01 | 0.03 | 0.01 | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | 0.01 | 0.02 |
| Continental Divide fault | 2145 | <1,600,000 | <0.2 | 17 | Normal | 91.8 | 6.5 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | 0.02 |
| County Dump fault[(3)] | 2038 | <130,000 | <0.2 | 35 | Normal | 76.5 | 6.89 | 0.02 | 0.04 | 0.02 | 0.05 | 0.02 | 0.04 | 0.03 | 0.05 | 0.02 | 0.04 |
| Coyote Springs fault | 2114 | <15,000 | <0.2 | 17 | Normal | 93.4 | 6.5 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | 0.02 |
| Intrabasin faults on the Llano de Albuquerque | 2121 | <750,000 | <0.2 | 101 | Normal | 66.7 | 7.5 | 0.04 | 0.08 | 0.05 | 0.09 | 0.04 | 0.07 | 0.05 | 0.09 | 0.04 | 0.08 |
| Jemez-San Ysidro fault (Jemez section)[(3)] | 2029a | <1,600,000 | <0.2 | 28 | Normal | 77.3 | 7.09 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.06 | 0.03 | 0.04 |
| Jemez-San Ysidro fault (San Ysidro section)[(3)] | 2029b | <750,000 | <0.2 | 34 | Normal | 77.3 | 7.09 | | | | | | | | | | |
| Jemez-San Ysidro fault (Calabacillas section)[(3)] | 2029c | <15,000 | <0.2 | 34 | Normal | 70.5 | 6.83 | 0.03 | 0.05 | 0.03 | 0.05 | 0.02 | 0.04 | 0.03 | 0.05 | 0.02 | 0.04 |
| Mesa Prieta faults | 1985 | <1,600,000 | <0.2 | 12 | Normal | 47.1 | 6.3 | 0.03 | 0.05 | 0.02 | 0.05 | 0.03 | 0.05 | 0.03 | 0.06 | 0.02 | 0.04 |
| Nacimiento fault (northern section)[(3)] | 2002a | <1,600,000 | <0.2 | 36 | Normal | 72.3 | 7.30 | 0.03 | 0.06 | 0.04 | 0.07 | 0.03 | 0.06 | 0.04 | 0.07 | 0.03 | 0.06 |
| Nacimiento fault (southern section)[(3)] | 2002b | <750,000 | <0.2 | 45 | Normal | 72.3 | 7.30 | | | | | | | | | | |
| San Felipe fault zone (Santa Ana section)[(3)] | 2030a | <1,600,000 | <0.2 | 44 | Normal | 93.2 | 6.97 | 0.02 | 0.04 | 0.02 | 0.04 | 0.02 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 |
| San Felipe fault zone (Algodones section) | 2030b | <1,600,000 | <0.2 | 45 | Normal | 93.3 | 7.0 | 0.02 | 0.04 | 0.02 | 0.04 | 0.02 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 |
| Sand Hill fault zone | 2039 | <1,600,000 | <0.2 | 36 | Normal | 62.2 | 6.9 | 0.03 | 0.06 | 0.03 | 0.06 | 0.03 | 0.05 | 0.04 | 0.07 | 0.03 | 0.05 |
| Santa Fe fault | 2123 | <1,600,000 | <0.2 | 30 | Normal | 67.8 | 6.8 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.06 | 0.02 | 0.04 |
| unnamed fault of Bonita Canyon | 2144 | <1,600,000 | <0.2 | 9 | Normal | 49.3 | 6.1 | 0.02 | 0.04 | 0.02 | 0.04 | 0.02 | 0.04 | 0.03 | 0.05 | 0.02 | 0.03 |
| unnamed faults near Albuquerque Volcanoes | 2049 | <750,000 | <0.2 | 34 | Normal | 73.6 | 6.9 | 0.03 | 0.05 | 0.03 | 0.05 | 0.02 | 0.04 | 0.03 | 0.05 | 0.02 | 0.04 |
| unnamed faults near Picuda Peak | 2041 | <1,600,000 | <0.2 | 16 | Normal | 78.8 | 6.4 | 0.02 | 0.03 | 0.01 | 0.03 | 0.02 | 0.03 | 0.02 | 0.04 | 0.01 | 0.02 |
| unnamed faults near Star Heights | 2048 | <750,000 | <0.2 | 18 | Normal | 78.6 | 6.5 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.04 | 0.01 | 0.02 |
| unnamed faults of El Malpais lava field | 2146 | <1,600,000 | <0.2 | 26 | Normal | 60.5 | 6.7 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.06 | 0.02 | 0.04 |
| unnamed intrabasin faults west of the Rio Puerco | 2115 | <750,000 | <0.2 | 22 | Normal | 87.3 | 6.6 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.04 | 0.01 | 0.02 |
| Zia fault[(3)] | 2046 | <15,000 | <0.2 | 32 | Normal | 73.7 | 6.84 | 0.02 | 0.04 | 0.02 | 0.05 | 0.02 | 0.04 | 0.03 | 0.05 | 0.02 | 0.04 |

[1]ya = years ago

[2]Wells and Coopersmith (1994)

[3]The parameters included in the EZ Frisk program from the USGS Hazard mapping used for analysis

Deterministic Spectra Results using EZ-FRISK 8.11 Build 019

Largest Amplitudes of Ground Motions Considering All Sources Calculated using Weighted Mean of Attenuation Equations
Amplitude Units: Acceleration (g)

Fractile: 0.5

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 9.248e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.05 | 1.448e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.1 | 1.997e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.2 | 1.987e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.3 | 1.529e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.4 | 1.192e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.5 | 9.607e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.75 | 6.452e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 1 | 4.625e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 2 | 2.025e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 3 | 1.229e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 4 | 9.177e-03 | 7.50 Mw | 66.71 | Mt Taylor | Deterministic Intrabasin faults on the Llano de Albuquerque |

Fractile: 0.84

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 1.695e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.05 | 2.768e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.1 | 3.937e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.2 | 3.815e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.3 | 2.935e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.4 | 2.308e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.5 | 1.886e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |

| | | | | | |
|---|---|---|---|---|---|
| 0.75 | 1.301e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 9.416e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 4.145e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 2.515e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 1.851e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |

Largest Amplitudes of Ground Motions Considering Sources Calculated with Abrahamson-et al (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.5

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 8.560e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.05 | 1.112e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.1 | 1.690e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.2 | 1.680e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.3 | 1.250e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.4 | 9.558e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.5 | 7.845e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.75 | 5.106e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 1 | 3.775e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic | Intrabasin faults on the Llano de Albuquerque |
| 2 | 2.364e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic | Intrabasin faults on the Llano de Albuquerque |
| 3 | 1.730e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic | Intrabasin faults on the Llano de Albuquerque |
| 4 | 1.270e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic | Intrabasin faults on the Llano de Albuquerque |

Fractile: 0.84

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 1.642e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |
| 0.05 | 2.150e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic | Random Earthquake |

| | | | | | |
|---|---|---|---|---|---|
| 0.1 | 3.321e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.2 | 3.342e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.3 | 2.517e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.4 | 1.940e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.5 | 1.606e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.75 | 1.058e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 7.872e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 4.950e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |
| 3 | 3.591e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |
| 4 | 2.614e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |

Largest Amplitudes of Ground Motions Considering Sources Calculated with Boore-et al (2014) NGA West 2 USGS 2014
Amplitude Units: Acceleration (g)

Fractile: 0.5

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 8.586e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.05 | 1.307e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.1 | 1.803e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.2 | 2.075e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.3 | 1.626e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.4 | 1.261e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.5 | 9.983e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.75 | 6.853e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 5.002e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 2.062e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 1.373e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 1.025e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |

Fractile: 0.84

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 1.567e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.05 | 2.574e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.1 | 3.648e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.2 | 3.848e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.3 | 2.970e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.4 | 2.328e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.5 | 1.886e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.75 | 1.343e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 1 | 9.959e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 2 | 4.137e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 3 | 2.777e-02 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 4 | 2.072e-02 | 7.50 Mw | 66.71 | Mt Taylor | Deterministic Intrabasin faults on the Llano de Albuquerque |

Largest Amplitudes of Ground Motions Considering Sources Calculated with Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 1.183e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.05 | 2.044e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.1 | 2.594e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.2 | 2.386e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.3 | 1.850e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.4 | 1.452e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |
| 0.5 | 1.158e-01 | 6.30 Mw | 15.09 | Mt Taylor | Deterministic Random Earthquake |

| | | | | | |
|---|---|---|---|---|---|
| 0.75 | 7.848e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 5.536e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 2.357e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 1.375e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 9.487e-03 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |

Fractile: 0.84

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 2.123e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.05 | 3.872e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.1 | 5.153e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.2 | 4.541e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.3 | 3.504e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.4 | 2.768e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.5 | 2.243e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.75 | 1.593e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 1.133e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 4.781e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 2.793e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 1.872e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |

Largest Amplitudes of Ground Motions Considering Sources Calculated with Chiou-Youngs (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 8.015e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.05 | 1.330e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |

| | | | | | |
|---|---|---|---|---|---|
| 0.1 | 1.902e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.2 | 1.809e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.3 | 1.392e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.4 | 1.102e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.5 | 9.024e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.75 | 6.000e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 4.210e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 1.634e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 8.738e-03 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 5.425e-03 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |

Fractile: 0.84

| Period | Amplitude | Magnitude | Closest Distance(km) | Region | Controlling Source |
|---|---|---|---|---|---|
| PGA | 1.448e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.05 | 2.478e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.1 | 3.626e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.2 | 3.529e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.3 | 2.750e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.4 | 2.195e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.5 | 1.809e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 0.75 | 1.211e-01 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 1 | 8.502e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 2 | 3.294e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 3 | 1.751e-02 | 6.30 Mw | 15.09 | Mt Taylor Deterministic Random Earthquake | |
| 4 | 1.074e-02 | 7.50 Mw | 66.71 | Mt Taylor Deterministic Intrabasin faults on the Llano de Albuquerque | |

Largest Amplitudes of Ground Motions for Each Source

Source: Random Earthquake
Region: Mt Taylor Deterministic
  Closest Distance: 15.09 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.30 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 9.248e-02 | 8.560e-02 | 8.586e-02 | 1.183e-01 | 8.015e-02 |
| 0.05 | 1.448e-01 | 1.112e-01 | 1.307e-01 | 2.044e-01 | 1.330e-01 |
| 0.1 | 1.997e-01 | 1.690e-01 | 1.803e-01 | 2.594e-01 | 1.902e-01 |
| 0.2 | 1.987e-01 | 1.680e-01 | 2.075e-01 | 2.386e-01 | 1.809e-01 |
| 0.3 | 1.529e-01 | 1.250e-01 | 1.626e-01 | 1.850e-01 | 1.392e-01 |
| 0.4 | 1.192e-01 | 9.558e-02 | 1.261e-01 | 1.452e-01 | 1.102e-01 |
| 0.5 | 9.607e-02 | 7.845e-02 | 9.983e-02 | 1.158e-01 | 9.024e-02 |
| 0.75 | 6.452e-02 | 5.106e-02 | 6.853e-02 | 7.848e-02 | 6.000e-02 |
| 1 | 4.625e-02 | 3.751e-02 | 5.002e-02 | 5.536e-02 | 4.210e-02 |
| 2 | 2.025e-02 | 2.046e-02 | 2.062e-02 | 2.357e-02 | 1.634e-02 |
| 3 | 1.229e-02 | 1.295e-02 | 1.373e-02 | 1.375e-02 | 8.738e-03 |
| 4 | 8.305e-03 | 8.491e-03 | 1.004e-02 | 9.487e-03 | 5.200e-03 |

  Fractile: 0.84
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.695e-01 | 1.642e-01 | 1.567e-01 | 2.123e-01 | 1.448e-01 |
| 0.05 | 2.768e-01 | 2.150e-01 | 2.574e-01 | 3.872e-01 | 2.478e-01 |
| 0.1 | 3.937e-01 | 3.321e-01 | 3.648e-01 | 5.153e-01 | 3.626e-01 |
| 0.2 | 3.815e-01 | 3.342e-01 | 3.848e-01 | 4.541e-01 | 3.529e-01 |
| 0.3 | 2.935e-01 | 2.517e-01 | 2.970e-01 | 3.504e-01 | 2.750e-01 |
| 0.4 | 2.308e-01 | 1.940e-01 | 2.328e-01 | 2.768e-01 | 2.195e-01 |
| 0.5 | 1.886e-01 | 1.606e-01 | 1.886e-01 | 2.243e-01 | 1.809e-01 |
| 0.75 | 1.301e-01 | 1.058e-01 | 1.343e-01 | 1.593e-01 | 1.211e-01 |
| 1 | 9.416e-02 | 7.872e-02 | 9.959e-02 | 1.133e-01 | 8.502e-02 |
| 2 | 4.145e-02 | 4.366e-02 | 4.137e-02 | 4.781e-02 | 3.294e-02 |
| 3 | 2.515e-02 | 2.740e-02 | 2.777e-02 | 2.793e-02 | 1.751e-02 |
| 4 | 1.680e-02 | 1.782e-02 | 2.030e-02 | 1.872e-02 | 1.038e-02 |

Source: Cat Mesa fault
Region: Mt Taylor Deterministic
  Closest Distance: 75.85 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.60 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.961e-02 | 1.853e-02 | 1.907e-02 | 2.448e-02 | 1.635e-02 |
| 0.05 | 2.815e-02 | 2.293e-02 | 2.623e-02 | 3.837e-02 | 2.507e-02 |
| 0.1 | 3.658e-02 | 3.182e-02 | 3.577e-02 | 4.577e-02 | 3.296e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.2 | 3.847e-02 | 3.403e-02 | 4.376e-02 | 4.427e-02 | 3.182e-02 |
| 0.3 | 3.288e-02 | 2.948e-02 | 3.638e-02 | 3.977e-02 | 2.589e-02 |
| 0.4 | 2.723e-02 | 2.592e-02 | 2.898e-02 | 3.264e-02 | 2.137e-02 |
| 0.5 | 2.283e-02 | 2.303e-02 | 2.328e-02 | 2.689e-02 | 1.812e-02 |
| 0.75 | 1.628e-02 | 1.623e-02 | 1.625e-02 | 1.977e-02 | 1.288e-02 |
| 1 | 1.182e-02 | 1.215e-02 | 1.198e-02 | 1.361e-02 | 9.556e-03 |
| 2 | 5.878e-03 | 7.110e-03 | 5.516e-03 | 6.485e-03 | 4.400e-03 |
| 3 | 3.794e-03 | 4.665e-03 | 3.920e-03 | 3.983e-03 | 2.610e-03 |
| 4 | 2.670e-03 | 3.114e-03 | 3.069e-03 | 2.851e-03 | 1.647e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.568e-02 | 3.521e-02 | 3.481e-02 | 4.393e-02 | 2.876e-02 |
| 0.05 | 5.343e-02 | 4.390e-02 | 5.167e-02 | 7.267e-02 | 4.549e-02 |
| 0.1 | 7.162e-02 | 6.193e-02 | 7.239e-02 | 9.092e-02 | 6.124e-02 |
| 0.2 | 7.326e-02 | 6.706e-02 | 8.118e-02 | 8.426e-02 | 6.053e-02 |
| 0.3 | 6.263e-02 | 5.882e-02 | 6.646e-02 | 7.534e-02 | 4.993e-02 |
| 0.4 | 5.238e-02 | 5.215e-02 | 5.352e-02 | 6.224e-02 | 4.159e-02 |
| 0.5 | 4.457e-02 | 4.672e-02 | 4.398e-02 | 5.210e-02 | 3.550e-02 |
| 0.75 | 3.270e-02 | 3.334e-02 | 3.185e-02 | 4.013e-02 | 2.550e-02 |
| 1 | 2.400e-02 | 2.527e-02 | 2.386e-02 | 2.785e-02 | 1.900e-02 |
| 2 | 1.202e-02 | 1.505e-02 | 1.107e-02 | 1.315e-02 | 8.804e-03 |
| 3 | 7.749e-03 | 9.788e-03 | 7.928e-03 | 8.091e-03 | 5.191e-03 |

```
       4      5.393e-03      6.479e-03      6.206e-03      5.625e-03
3.261e-03



Source: Cebollita Mesa fault
Region: Mt Taylor Deterministic
  Closest Distance: 74.77 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.30 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS
2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS
2014

       1          2              3              4              5
6
     PGA      1.497e-02      1.339e-02      1.554e-02      1.895e-02
1.199e-02
    0.05      2.143e-02      1.658e-02      2.159e-02      2.914e-02
1.841e-02
     0.1      2.843e-02      2.305e-02      3.018e-02      3.635e-02
2.413e-02
     0.2      3.052e-02      2.418e-02      3.781e-02      3.654e-02
2.354e-02
     0.3      2.596e-02      2.052e-02      3.127e-02      3.279e-02
1.927e-02
     0.4      2.114e-02      1.778e-02      2.469e-02      2.614e-02
1.595e-02
     0.5      1.749e-02      1.559e-02      1.965e-02      2.120e-02
1.352e-02
    0.75      1.225e-02      1.058e-02      1.356e-02      1.533e-02
9.515e-03
       1      8.732e-03      7.770e-03      9.897e-03      1.030e-02
6.958e-03
       2      4.002e-03      4.392e-03      4.236e-03      4.390e-03
2.991e-03
       3      2.456e-03      2.763e-03      2.849e-03      2.530e-03
1.681e-03
       4      1.673e-03      1.788e-03      2.129e-03      1.761e-03
1.015e-03

  Fractile: 0.84
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS
2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
```

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.743e-02 | 2.569e-02 | 2.837e-02 | 3.400e-02 | 2.166e-02 |
| 0.05 | 4.101e-02 | 3.207e-02 | 4.252e-02 | 5.518e-02 | 3.429e-02 |
| 0.1 | 5.614e-02 | 4.530e-02 | 6.107e-02 | 7.220e-02 | 4.600e-02 |
| 0.2 | 5.843e-02 | 4.810e-02 | 7.013e-02 | 6.955e-02 | 4.592e-02 |
| 0.3 | 4.966e-02 | 4.131e-02 | 5.713e-02 | 6.211e-02 | 3.807e-02 |
| 0.4 | 4.083e-02 | 3.609e-02 | 4.559e-02 | 4.984e-02 | 3.178e-02 |
| 0.5 | 3.430e-02 | 3.190e-02 | 3.712e-02 | 4.109e-02 | 2.711e-02 |
| 0.75 | 2.470e-02 | 2.192e-02 | 2.658e-02 | 3.112e-02 | 1.920e-02 |
| 1 | 1.779e-02 | 1.631e-02 | 1.970e-02 | 2.109e-02 | 1.405e-02 |
| 2 | 8.201e-03 | 9.374e-03 | 8.499e-03 | 8.904e-03 | 6.029e-03 |
| 3 | 5.029e-03 | 5.847e-03 | 5.761e-03 | 5.140e-03 | 3.368e-03 |
| 4 | 3.389e-03 | 3.753e-03 | 4.304e-03 | 3.475e-03 | 2.025e-03 |

Source: Continental Divide fault
Region: Mt Taylor Deterministic
Closest Distance: 91.82 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.364e-02 | 1.250e-02 | 1.326e-02 | 1.732e-02 | 1.147e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.05 | 1.918e-02 | 1.527e-02 | 1.778e-02 | 2.653e-02 | 1.714e-02 |
| 0.1 | 2.462e-02 | 2.069e-02 | 2.439e-02 | 3.140e-02 | 2.201e-02 |
| 0.2 | 2.656e-02 | 2.232e-02 | 3.108e-02 | 3.132e-02 | 2.153e-02 |
| 0.3 | 2.334e-02 | 1.991e-02 | 2.650e-02 | 2.898e-02 | 1.799e-02 |
| 0.4 | 1.966e-02 | 1.804e-02 | 2.136e-02 | 2.410e-02 | 1.514e-02 |
| 0.5 | 1.664e-02 | 1.624e-02 | 1.725e-02 | 2.007e-02 | 1.302e-02 |
| 0.75 | 1.202e-02 | 1.144e-02 | 1.213e-02 | 1.505e-02 | 9.435e-03 |
| 1 | 8.736e-03 | 8.511e-03 | 8.970e-03 | 1.039e-02 | 7.071e-03 |
| 2 | 4.306e-03 | 4.976e-03 | 4.086e-03 | 4.867e-03 | 3.293e-03 |
| 3 | 2.744e-03 | 3.230e-03 | 2.852e-03 | 2.944e-03 | 1.951e-03 |
| 4 | 1.910e-03 | 2.141e-03 | 2.202e-03 | 2.080e-03 | 1.218e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.482e-02 | 2.383e-02 | 2.419e-02 | 3.108e-02 | 2.017e-02 |
| 0.05 | 3.642e-02 | 2.934e-02 | 3.502e-02 | 5.025e-02 | 3.109e-02 |
| 0.1 | 4.835e-02 | 4.040e-02 | 4.975e-02 | 6.237e-02 | 4.088e-02 |
| 0.2 | 5.060e-02 | 4.412e-02 | 5.771e-02 | 5.961e-02 | 4.096e-02 |
| 0.3 | 4.446e-02 | 3.984e-02 | 4.841e-02 | 5.489e-02 | 3.469e-02 |
| 0.4 | 3.781e-02 | 3.639e-02 | 3.945e-02 | 4.595e-02 | 2.946e-02 |
| 0.5 | 3.250e-02 | 3.305e-02 | 3.257e-02 | 3.888e-02 | 2.551e-02 |
| 0.75 | 2.414e-02 | 2.357e-02 | 2.378e-02 | 3.055e-02 | 1.868e-02 |
| 1 | 1.774e-02 | 1.776e-02 | 1.786e-02 | 2.127e-02 | 1.406e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 2 | 8.805e-03 | 1.056e-02 | 8.197e-03 | 9.872e-03 | 6.589e-03 |
| 3 | 5.606e-03 | 6.798e-03 | 5.767e-03 | 5.981e-03 | 3.879e-03 |
| 4 | 3.859e-03 | 4.468e-03 | 4.452e-03 | 4.104e-03 | 2.413e-03 |

Source: County Dump fault [2038]
Region: USGS 2014 New Mexico
  Closest Distance: 76.53 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.89 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.424e-02 | 2.444e-02 | 2.228e-02 | 2.884e-02 | 2.140e-02 |
| 0.05 | 3.458e-02 | 3.022e-02 | 3.024e-02 | 4.514e-02 | 3.273e-02 |
| 0.1 | 4.438e-02 | 4.190e-02 | 4.024e-02 | 5.221e-02 | 4.318e-02 |
| 0.2 | 4.613e-02 | 4.553e-02 | 4.832e-02 | 4.918e-02 | 4.149e-02 |
| 0.3 | 3.989e-02 | 4.011e-02 | 4.050e-02 | 4.519e-02 | 3.374e-02 |
| 0.4 | 3.338e-02 | 3.568e-02 | 3.262e-02 | 3.737e-02 | 2.786e-02 |
| 0.5 | 2.833e-02 | 3.205e-02 | 2.646e-02 | 3.115e-02 | 2.364e-02 |
| 0.75 | 2.053e-02 | 2.329e-02 | 1.870e-02 | 2.321e-02 | 1.692e-02 |
| 1 | 1.509e-02 | 1.770e-02 | 1.394e-02 | 1.609e-02 | 1.264e-02 |
| 2 | 7.947e-03 | 1.067e-02 | 6.894e-03 | 8.163e-03 | 6.065e-03 |
| 3 | 5.382e-03 | 7.403e-03 | 5.170e-03 | 5.205e-03 | 3.750e-03 |
| 4 | 3.928e-03 | 5.181e-03 | 4.236e-03 | 3.832e-03 | 2.463e-03 |

  Fractile: 0.84
  Column 1: Spectral Period

Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.402e-02 | 4.600e-02 | 4.067e-02 | 5.176e-02 | 3.764e-02 |
| 0.05 | 6.544e-02 | 5.734e-02 | 5.955e-02 | 8.549e-02 | 5.938e-02 |
| 0.1 | 8.655e-02 | 8.082e-02 | 8.144e-02 | 1.037e-01 | 8.023e-02 |
| 0.2 | 8.777e-02 | 8.892e-02 | 8.962e-02 | 9.360e-02 | 7.893e-02 |
| 0.3 | 7.599e-02 | 7.933e-02 | 7.398e-02 | 8.560e-02 | 6.506e-02 |
| 0.4 | 6.422e-02 | 7.116e-02 | 6.024e-02 | 7.126e-02 | 5.421e-02 |
| 0.5 | 5.528e-02 | 6.447e-02 | 4.998e-02 | 6.036e-02 | 4.632e-02 |
| 0.75 | 4.117e-02 | 4.746e-02 | 3.664e-02 | 4.712e-02 | 3.349e-02 |
| 1 | 3.059e-02 | 3.653e-02 | 2.775e-02 | 3.294e-02 | 2.514e-02 |
| 2 | 1.623e-02 | 2.239e-02 | 1.383e-02 | 1.656e-02 | 1.213e-02 |
| 3 | 1.097e-02 | 1.541e-02 | 1.045e-02 | 1.057e-02 | 7.458e-03 |
| 4 | 7.924e-03 | 1.069e-02 | 8.564e-03 | 7.561e-03 | 4.877e-03 |

Source: Coyote Springs fault
Region: Mt Taylor Deterministic
Closest Distance: 93.44 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.329e-02 | 1.218e-02 | 1.292e-02 | 1.682e-02 | 1.123e-02 |
| 0.05 | 1.865e-02 | 1.485e-02 | 1.729e-02 | 2.571e-02 | 1.675e-02 |
| 0.1 | 2.390e-02 | 2.008e-02 | 2.371e-02 | 3.036e-02 | 2.146e-02 |
| 0.2 | 2.584e-02 | 2.169e-02 | 3.030e-02 | 3.036e-02 | 2.101e-02 |
| 0.3 | 2.278e-02 | 1.941e-02 | 2.591e-02 | 2.821e-02 | 1.760e-02 |
| 0.4 | 1.923e-02 | 1.765e-02 | 2.091e-02 | 2.350e-02 | 1.484e-02 |
| 0.5 | 1.630e-02 | 1.592e-02 | 1.690e-02 | 1.961e-02 | 1.278e-02 |
| 0.75 | 1.179e-02 | 1.122e-02 | 1.190e-02 | 1.475e-02 | 9.276e-03 |
| 1 | 8.577e-03 | 8.351e-03 | 8.804e-03 | 1.019e-02 | 6.960e-03 |
| 2 | 4.232e-03 | 4.887e-03 | 4.016e-03 | 4.777e-03 | 3.249e-03 |
| 3 | 2.698e-03 | 3.174e-03 | 2.803e-03 | 2.889e-03 | 1.926e-03 |
| 4 | 1.878e-03 | 2.105e-03 | 2.164e-03 | 2.041e-03 | 1.203e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.418e-02 | 2.320e-02 | 2.359e-02 | 3.019e-02 | 1.976e-02 |
| 0.05 | 3.542e-02 | 2.853e-02 | 3.405e-02 | 4.869e-02 | 3.039e-02 |
| 0.1 | 4.694e-02 | 3.920e-02 | 4.840e-02 | 6.031e-02 | 3.987e-02 |
| 0.2 | 4.925e-02 | 4.286e-02 | 5.637e-02 | 5.779e-02 | 3.997e-02 |
| 0.3 | 4.338e-02 | 3.885e-02 | 4.733e-02 | 5.343e-02 | 3.393e-02 |
| 0.4 | 3.698e-02 | 3.560e-02 | 3.862e-02 | 4.482e-02 | 2.888e-02 |
| 0.5 | 3.183e-02 | 3.239e-02 | 3.191e-02 | 3.799e-02 | 2.503e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.75 | 2.369e-02 | 2.313e-02 | 2.332e-02 | 2.994e-02 | 1.836e-02 |
| 1 | 1.741e-02 | 1.743e-02 | 1.753e-02 | 2.087e-02 | 1.384e-02 |
| 2 | 8.655e-03 | 1.037e-02 | 8.056e-03 | 9.690e-03 | 6.501e-03 |
| 3 | 5.511e-03 | 6.678e-03 | 5.668e-03 | 5.869e-03 | 3.830e-03 |
| 4 | 3.794e-03 | 4.391e-03 | 4.376e-03 | 4.026e-03 | 2.382e-03 |

Source: Intrabasin faults on the Llano de Albuquerque
Region: Mt Taylor Deterministic
  Closest Distance: 66.71 km
  Amplitude Units: Acceleration (g)
  Magnitude: 7.50 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.438e-02 | 4.692e-02 | 4.020e-02 | 4.766e-02 | 4.274e-02 |
| 0.05 | 6.352e-02 | 5.847e-02 | 5.445e-02 | 7.537e-02 | 6.579e-02 |
| 0.1 | 8.064e-02 | 8.228e-02 | 6.913e-02 | 8.249e-02 | 8.867e-02 |
| 0.2 | 8.169e-02 | 9.076e-02 | 7.788e-02 | 7.334e-02 | 8.476e-02 |
| 0.3 | 7.066e-02 | 8.014e-02 | 6.502e-02 | 6.914e-02 | 6.833e-02 |
| 0.4 | 5.954e-02 | 7.095e-02 | 5.300e-02 | 5.806e-02 | 5.614e-02 |
| 0.5 | 5.117e-02 | 6.406e-02 | 4.365e-02 | 4.948e-02 | 4.751e-02 |
| 0.75 | 3.785e-02 | 4.850e-02 | 3.139e-02 | 3.763e-02 | 3.388e-02 |
| 1 | 2.839e-02 | 3.775e-02 | 2.387e-02 | 2.664e-02 | 2.528e-02 |
| 2 | 1.623e-02 | 2.364e-02 | 1.359e-02 | 1.542e-02 | 1.226e-02 |
| 3 | 1.179e-02 | 1.730e-02 | 1.140e-02 | 1.064e-02 | 7.841e-03 |

4 9.177e-03 1.270e-02 1.025e-02 8.331e-03
5.425e-03

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS
2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS
2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 8.052e-02 | 8.801e-02 | 7.338e-02 | 8.552e-02 | 7.517e-02 |
| 0.05 | 1.200e-01 | 1.106e-01 | 1.072e-01 | 1.428e-01 | 1.194e-01 |
| 0.1 | 1.567e-01 | 1.582e-01 | 1.399e-01 | 1.639e-01 | 1.647e-01 |
| 0.2 | 1.555e-01 | 1.767e-01 | 1.445e-01 | 1.396e-01 | 1.613e-01 |
| 0.3 | 1.349e-01 | 1.580e-01 | 1.188e-01 | 1.310e-01 | 1.317e-01 |
| 0.4 | 1.147e-01 | 1.411e-01 | 9.787e-02 | 1.107e-01 | 1.093e-01 |
| 0.5 | 9.997e-02 | 1.285e-01 | 8.244e-02 | 9.587e-02 | 9.309e-02 |
| 0.75 | 7.587e-02 | 9.852e-02 | 6.151e-02 | 7.639e-02 | 6.706e-02 |
| 1 | 5.750e-02 | 7.767e-02 | 4.753e-02 | 5.454e-02 | 5.027e-02 |
| 2 | 3.314e-02 | 4.950e-02 | 2.726e-02 | 3.128e-02 | 2.453e-02 |
| 3 | 2.404e-02 | 3.591e-02 | 2.305e-02 | 2.161e-02 | 1.559e-02 |
| 4 | 1.851e-02 | 2.614e-02 | 2.072e-02 | 1.644e-02 | 1.074e-02 |

Source: Jemez-San Ysidro fault [2029ab]
Region: USGS 2014 New Mexico
Closest Distance: 77.26 km
Amplitude Units: Acceleration (g)
Magnitude: 7.09 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS
2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.785e-02 | 2.851e-02 | 2.515e-02 | 3.223e-02 | 2.551e-02 |
| 0.05 | 3.959e-02 | 3.522e-02 | 3.386e-02 | 5.037e-02 | 3.889e-02 |
| 0.1 | 5.038e-02 | 4.878e-02 | 4.431e-02 | 5.702e-02 | 5.142e-02 |
| 0.2 | 5.201e-02 | 5.353e-02 | 5.244e-02 | 5.274e-02 | 4.933e-02 |
| 0.3 | 4.530e-02 | 4.766e-02 | 4.416e-02 | 4.925e-02 | 4.014e-02 |
| 0.4 | 3.816e-02 | 4.272e-02 | 3.581e-02 | 4.093e-02 | 3.317e-02 |
| 0.5 | 3.261e-02 | 3.864e-02 | 2.924e-02 | 3.440e-02 | 2.818e-02 |
| 0.75 | 2.389e-02 | 2.861e-02 | 2.082e-02 | 2.587e-02 | 2.024e-02 |
| 1 | 1.769e-02 | 2.194e-02 | 1.564e-02 | 1.802e-02 | 1.518e-02 |
| 2 | 9.630e-03 | 1.345e-02 | 8.123e-03 | 9.540e-03 | 7.406e-03 |
| 3 | 6.692e-03 | 9.531e-03 | 6.321e-03 | 6.242e-03 | 4.675e-03 |
| 4 | 5.001e-03 | 6.836e-03 | 5.343e-03 | 4.685e-03 | 3.141e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 5.052e-02 | 5.346e-02 | 4.591e-02 | 5.784e-02 | 4.486e-02 |
| 0.05 | 7.481e-02 | 6.661e-02 | 6.668e-02 | 9.540e-02 | 7.057e-02 |
| 0.1 | 9.807e-02 | 9.379e-02 | 8.967e-02 | 1.133e-01 | 9.554e-02 |
| 0.2 | 9.893e-02 | 1.042e-01 | 9.727e-02 | 1.004e-01 | 9.385e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.3 | 8.633e-02 | 9.397e-02 | 8.067e-02 | 9.328e-02 | 7.739e-02 |
| 0.4 | 7.342e-02 | 8.494e-02 | 6.614e-02 | 7.806e-02 | 6.455e-02 |
| 0.5 | 6.364e-02 | 7.748e-02 | 5.523e-02 | 6.665e-02 | 5.521e-02 |
| 0.75 | 4.787e-02 | 5.811e-02 | 4.080e-02 | 5.252e-02 | 4.006e-02 |
| 1 | 3.583e-02 | 4.514e-02 | 3.114e-02 | 3.688e-02 | 3.018e-02 |
| 2 | 1.966e-02 | 2.816e-02 | 1.630e-02 | 1.935e-02 | 1.482e-02 |
| 3 | 1.364e-02 | 1.978e-02 | 1.278e-02 | 1.268e-02 | 9.298e-03 |
| 4 | 1.008e-02 | 1.407e-02 | 1.080e-02 | 9.244e-03 | 6.220e-03 |

Source: Calabacillas fault [2035]
Region: USGS 2014 New Mexico
  Closest Distance: 70.54 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.83 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.553e-02 | 2.583e-02 | 2.376e-02 | 3.035e-02 | 2.218e-02 |
| 0.05 | 3.669e-02 | 3.210e-02 | 3.263e-02 | 4.779e-02 | 3.423e-02 |
| 0.1 | 4.747e-02 | 4.490e-02 | 4.368e-02 | 5.583e-02 | 4.548e-02 |
| 0.2 | 4.924e-02 | 4.839e-02 | 5.216e-02 | 5.277e-02 | 4.363e-02 |
| 0.3 | 4.206e-02 | 4.194e-02 | 4.330e-02 | 4.778e-02 | 3.523e-02 |
| 0.4 | 3.495e-02 | 3.677e-02 | 3.465e-02 | 3.943e-02 | 2.893e-02 |
| 0.5 | 2.949e-02 | 3.275e-02 | 2.800e-02 | 3.276e-02 | 2.444e-02 |
| 0.75 | 2.120e-02 | 2.356e-02 | 1.967e-02 | 2.422e-02 | 1.735e-02 |

| | | | | |
|---|---|---|---|---|
| 1 | 1.555e-02 | 1.785e-02 | 1.461e-02 | 1.683e-02 1.289e-02 |
| 2 | 8.067e-03 | 1.066e-02 | 7.091e-03 | 8.439e-03 6.078e-03 |
| 3 | 5.415e-03 | 7.344e-03 | 5.258e-03 | 5.346e-03 3.712e-03 |
| 4 | 3.904e-03 | 5.017e-03 | 4.265e-03 | 3.919e-03 2.416e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.639e-02 | 4.872e-02 | 4.337e-02 | 5.447e-02 | 3.901e-02 |
| 0.05 | 6.947e-02 | 6.101e-02 | 6.426e-02 | 9.052e-02 | 6.210e-02 |
| 0.1 | 9.264e-02 | 8.677e-02 | 8.840e-02 | 1.109e-01 | 8.450e-02 |
| 0.2 | 9.372e-02 | 9.468e-02 | 9.676e-02 | 1.004e-01 | 8.299e-02 |
| 0.3 | 8.016e-02 | 8.311e-02 | 7.910e-02 | 9.050e-02 | 6.793e-02 |
| 0.4 | 6.724e-02 | 7.348e-02 | 6.400e-02 | 7.520e-02 | 5.629e-02 |
| 0.5 | 5.756e-02 | 6.599e-02 | 5.288e-02 | 6.348e-02 | 4.788e-02 |
| 0.75 | 4.254e-02 | 4.809e-02 | 3.854e-02 | 4.918e-02 | 3.434e-02 |
| 1 | 3.152e-02 | 3.691e-02 | 2.909e-02 | 3.445e-02 | 2.563e-02 |
| 2 | 1.648e-02 | 2.242e-02 | 1.422e-02 | 1.712e-02 | 1.216e-02 |
| 3 | 1.105e-02 | 1.531e-02 | 1.063e-02 | 1.086e-02 | 7.382e-03 |
| 4 | 7.877e-03 | 1.037e-02 | 8.623e-03 | 7.732e-03 | 4.784e-03 |

Source: Mesa Prieta faults
Region: Mt Taylor Deterministic
Closest Distance: 47.05 km
Amplitude Units: Acceleration (g)
Magnitude: 6.30 Mw

Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.745e-02 | 2.490e-02 | 2.973e-02 | 3.312e-02 | 2.206e-02 |
| 0.05 | 4.072e-02 | 3.152e-02 | 4.329e-02 | 5.266e-02 | 3.541e-02 |
| 0.1 | 5.525e-02 | 4.568e-02 | 6.048e-02 | 6.651e-02 | 4.834e-02 |
| 0.2 | 5.759e-02 | 4.674e-02 | 7.189e-02 | 6.556e-02 | 4.617e-02 |
| 0.3 | 4.661e-02 | 3.731e-02 | 5.712e-02 | 5.575e-02 | 3.627e-02 |
| 0.4 | 3.700e-02 | 3.050e-02 | 4.420e-02 | 4.420e-02 | 2.908e-02 |
| 0.5 | 3.010e-02 | 2.594e-02 | 3.485e-02 | 3.556e-02 | 2.407e-02 |
| 0.75 | 2.058e-02 | 1.726e-02 | 2.372e-02 | 2.506e-02 | 1.631e-02 |
| 1 | 1.463e-02 | 1.268e-02 | 1.719e-02 | 1.702e-02 | 1.164e-02 |
| 2 | 6.567e-03 | 7.050e-03 | 7.208e-03 | 7.287e-03 | 4.723e-03 |
| 3 | 4.014e-03 | 4.425e-03 | 4.842e-03 | 4.218e-03 | 2.569e-03 |
| 4 | 2.737e-03 | 2.861e-03 | 3.603e-03 | 2.951e-03 | 1.534e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 5.033e-02 | 4.777e-02 | 5.426e-02 | 5.944e-02 | 3.985e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.05 | 7.798e-02 | 6.096e-02 | 8.527e-02 | 9.974e-02 | 6.597e-02 |
| 0.1 | 1.091e-01 | 8.976e-02 | 1.224e-01 | 1.321e-01 | 9.217e-02 |
| 0.2 | 1.103e-01 | 9.296e-02 | 1.334e-01 | 1.248e-01 | 9.008e-02 |
| 0.3 | 8.918e-02 | 7.512e-02 | 1.043e-01 | 1.056e-01 | 7.166e-02 |
| 0.4 | 7.145e-02 | 6.192e-02 | 8.162e-02 | 8.429e-02 | 5.796e-02 |
| 0.5 | 5.902e-02 | 5.308e-02 | 6.582e-02 | 6.891e-02 | 4.827e-02 |
| 0.75 | 4.151e-02 | 3.577e-02 | 4.647e-02 | 5.086e-02 | 3.291e-02 |
| 1 | 2.979e-02 | 2.661e-02 | 3.422e-02 | 3.483e-02 | 2.350e-02 |
| 2 | 1.345e-02 | 1.505e-02 | 1.446e-02 | 1.478e-02 | 9.522e-03 |
| 3 | 8.219e-03 | 9.365e-03 | 9.792e-03 | 8.569e-03 | 5.148e-03 |
| 4 | 5.543e-03 | 6.004e-03 | 7.284e-03 | 5.822e-03 | 3.062e-03 |

Source: Nacimiento fault [2002ab]
Region: USGS 2014 New Mexico
  Closest Distance: 72.30 km
  Amplitude Units: Acceleration (g)
  Magnitude: 7.30 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.497e-02 | 3.665e-02 | 3.134e-02 | 3.899e-02 | 3.290e-02 |
| 0.05 | 4.982e-02 | 4.546e-02 | 4.222e-02 | 6.121e-02 | 5.038e-02 |
| 0.1 | 6.327e-02 | 6.344e-02 | 5.437e-02 | 6.804e-02 | 6.721e-02 |
| 0.2 | 6.468e-02 | 6.987e-02 | 6.282e-02 | 6.167e-02 | 6.436e-02 |
| 0.3 | 5.622e-02 | 6.204e-02 | 5.274e-02 | 5.798e-02 | 5.212e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.4 | 4.741e-02 | 5.534e-02 | 4.290e-02 | 4.845e-02 | 4.295e-02 |
| 0.5 | 4.067e-02 | 5.005e-02 | 3.519e-02 | 4.101e-02 | 3.642e-02 |
| 0.75 | 2.996e-02 | 3.754e-02 | 2.519e-02 | 3.101e-02 | 2.609e-02 |
| 1 | 2.235e-02 | 2.903e-02 | 1.905e-02 | 2.178e-02 | 1.953e-02 |
| 2 | 1.251e-02 | 1.802e-02 | 1.037e-02 | 1.208e-02 | 9.549e-03 |
| 3 | 8.905e-03 | 1.300e-02 | 8.389e-03 | 8.134e-03 | 6.099e-03 |
| 4 | 6.796e-03 | 9.445e-03 | 7.322e-03 | 6.244e-03 | 4.174e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 6.344e-02 | 6.873e-02 | 5.720e-02 | 6.997e-02 | 5.786e-02 |
| 0.05 | 9.411e-02 | 8.597e-02 | 8.315e-02 | 1.159e-01 | 9.141e-02 |
| 0.1 | 1.230e-01 | 1.220e-01 | 1.100e-01 | 1.352e-01 | 1.249e-01 |
| 0.2 | 1.231e-01 | 1.360e-01 | 1.165e-01 | 1.174e-01 | 1.224e-01 |
| 0.3 | 1.072e-01 | 1.223e-01 | 9.634e-02 | 1.098e-01 | 1.005e-01 |
| 0.4 | 9.130e-02 | 1.100e-01 | 7.923e-02 | 9.238e-02 | 8.358e-02 |
| 0.5 | 7.941e-02 | 1.004e-01 | 6.647e-02 | 7.946e-02 | 7.136e-02 |
| 0.75 | 6.006e-02 | 7.626e-02 | 4.937e-02 | 6.296e-02 | 5.165e-02 |
| 1 | 4.527e-02 | 5.972e-02 | 3.792e-02 | 4.458e-02 | 3.884e-02 |
| 2 | 2.554e-02 | 3.772e-02 | 2.081e-02 | 2.451e-02 | 1.910e-02 |
| 3 | 1.815e-02 | 2.698e-02 | 1.696e-02 | 1.652e-02 | 1.213e-02 |
| 4 | 1.371e-02 | 1.944e-02 | 1.480e-02 | 1.232e-02 | 8.266e-03 |

Source: San Felipe fault zone [2030a]
Region: USGS 2014 New Mexico
  Closest Distance: 93.24 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.97 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.984e-02 | 2.006e-02 | 1.803e-02 | 2.293e-02 | 1.835e-02 |
| 0.05 | 2.763e-02 | 2.447e-02 | 2.373e-02 | 3.497e-02 | 2.736e-02 |
| 0.1 | 3.473e-02 | 3.309e-02 | 3.126e-02 | 3.921e-02 | 3.537e-02 |
| 0.2 | 3.667e-02 | 3.664e-02 | 3.841e-02 | 3.744e-02 | 3.418e-02 |
| 0.3 | 3.277e-02 | 3.361e-02 | 3.307e-02 | 3.604e-02 | 2.837e-02 |
| 0.4 | 2.807e-02 | 3.105e-02 | 2.707e-02 | 3.036e-02 | 2.380e-02 |
| 0.5 | 2.423e-02 | 2.848e-02 | 2.218e-02 | 2.580e-02 | 2.045e-02 |
| 0.75 | 1.794e-02 | 2.110e-02 | 1.588e-02 | 1.981e-02 | 1.495e-02 |
| 1 | 1.330e-02 | 1.609e-02 | 1.194e-02 | 1.383e-02 | 1.134e-02 |
| 2 | 7.194e-03 | 9.864e-03 | 6.098e-03 | 7.162e-03 | 5.651e-03 |
| 3 | 4.936e-03 | 6.925e-03 | 4.643e-03 | 4.600e-03 | 3.578e-03 |
| 4 | 3.644e-03 | 4.938e-03 | 3.859e-03 | 3.398e-03 | 2.382e-03 |

  Fractile: 0.84
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.600e-02 | 3.766e-02 | 3.291e-02 | 4.114e-02 | 3.228e-02 |
| 0.05 | 5.223e-02 | 4.632e-02 | 4.674e-02 | 6.624e-02 | 4.964e-02 |
| 0.1 | 6.777e-02 | 6.367e-02 | 6.381e-02 | 7.789e-02 | 6.571e-02 |
| 0.2 | 6.978e-02 | 7.139e-02 | 7.143e-02 | 7.127e-02 | 6.502e-02 |
| 0.3 | 6.243e-02 | 6.633e-02 | 6.041e-02 | 6.827e-02 | 5.471e-02 |
| 0.4 | 5.400e-02 | 6.178e-02 | 4.999e-02 | 5.790e-02 | 4.632e-02 |
| 0.5 | 4.728e-02 | 5.715e-02 | 4.189e-02 | 4.999e-02 | 4.008e-02 |
| 0.75 | 3.596e-02 | 4.289e-02 | 3.112e-02 | 4.022e-02 | 2.960e-02 |
| 1 | 2.694e-02 | 3.314e-02 | 2.377e-02 | 2.830e-02 | 2.255e-02 |
| 2 | 1.468e-02 | 2.067e-02 | 1.223e-02 | 1.453e-02 | 1.131e-02 |
| 3 | 1.006e-02 | 1.439e-02 | 9.388e-03 | 9.344e-03 | 7.115e-03 |
| 4 | 7.348e-03 | 1.017e-02 | 7.802e-03 | 6.704e-03 | 4.717e-03 |

Source: San Felipe fault zone (Algodones section)
Region: Mt Taylor Deterministic
  Closest Distance: 93.31 km
  Amplitude Units: Acceleration (g)
  Magnitude: 7.00 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.045e-02 | 2.058e-02 | 1.874e-02 | 2.338e-02 | 1.908e-02 |
| 0.05 | 2.848e-02 | 2.510e-02 | 2.469e-02 | 3.567e-02 | 2.845e-02 |
| 0.1 | 3.577e-02 | 3.394e-02 | 3.244e-02 | 3.987e-02 | 3.682e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.2 | 3.770e-02 | 3.763e-02 | 3.967e-02 | 3.796e-02 | 3.553e-02 |
| 0.3 | 3.370e-02 | 3.458e-02 | 3.411e-02 | 3.664e-02 | 2.948e-02 |
| 0.4 | 2.887e-02 | 3.197e-02 | 2.792e-02 | 3.088e-02 | 2.471e-02 |
| 0.5 | 2.493e-02 | 2.935e-02 | 2.288e-02 | 2.624e-02 | 2.123e-02 |
| 0.75 | 1.847e-02 | 2.181e-02 | 1.639e-02 | 2.019e-02 | 1.550e-02 |
| 1 | 1.371e-02 | 1.666e-02 | 1.233e-02 | 1.409e-02 | 1.176e-02 |
| 2 | 7.444e-03 | 1.024e-02 | 6.338e-03 | 7.344e-03 | 5.858e-03 |
| 3 | 5.126e-03 | 7.209e-03 | 4.852e-03 | 4.734e-03 | 3.708e-03 |
| 4 | 3.796e-03 | 5.152e-03 | 4.051e-03 | 3.507e-03 | 2.474e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.708e-02 | 3.859e-02 | 3.420e-02 | 4.196e-02 | 3.356e-02 |
| 0.05 | 5.382e-02 | 4.747e-02 | 4.862e-02 | 6.757e-02 | 5.163e-02 |
| 0.1 | 6.975e-02 | 6.525e-02 | 6.617e-02 | 7.919e-02 | 6.840e-02 |
| 0.2 | 7.170e-02 | 7.327e-02 | 7.369e-02 | 7.224e-02 | 6.760e-02 |
| 0.3 | 6.418e-02 | 6.817e-02 | 6.232e-02 | 6.939e-02 | 5.683e-02 |
| 0.4 | 5.553e-02 | 6.357e-02 | 5.157e-02 | 5.888e-02 | 4.809e-02 |
| 0.5 | 4.863e-02 | 5.886e-02 | 4.322e-02 | 5.085e-02 | 4.159e-02 |
| 0.75 | 3.702e-02 | 4.430e-02 | 3.212e-02 | 4.099e-02 | 3.069e-02 |
| 1 | 2.776e-02 | 3.427e-02 | 2.455e-02 | 2.883e-02 | 2.338e-02 |
| 2 | 1.519e-02 | 2.143e-02 | 1.271e-02 | 1.490e-02 | 1.172e-02 |
| 3 | 1.044e-02 | 1.496e-02 | 9.812e-03 | 9.617e-03 | 7.375e-03 |

| | | | | | |
|---|---|---|---|---|---|
| 4 | 7.653e-03 | 1.060e-02 | 8.191e-03 | 6.919e-03 | 4.899e-03 |

Source: Sand Hill fault zone
Region: Mt Taylor Deterministic
  Closest Distance: 62.17 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.90 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.152e-02 | 3.191e-02 | 2.999e-02 | 3.638e-02 | 2.779e-02 |
| 0.05 | 4.574e-02 | 3.990e-02 | 4.176e-02 | 5.787e-02 | 4.343e-02 |
| 0.1 | 5.955e-02 | 5.653e-02 | 5.569e-02 | 6.751e-02 | 5.846e-02 |
| 0.2 | 6.119e-02 | 6.067e-02 | 6.510e-02 | 6.319e-02 | 5.579e-02 |
| 0.3 | 5.158e-02 | 5.181e-02 | 5.338e-02 | 5.657e-02 | 4.456e-02 |
| 0.4 | 4.257e-02 | 4.474e-02 | 4.253e-02 | 4.673e-02 | 3.628e-02 |
| 0.5 | 3.580e-02 | 3.957e-02 | 3.432e-02 | 3.883e-02 | 3.047e-02 |
| 0.75 | 2.564e-02 | 2.850e-02 | 2.407e-02 | 2.862e-02 | 2.139e-02 |
| 1 | 1.882e-02 | 2.166e-02 | 1.789e-02 | 1.995e-02 | 1.580e-02 |
| 2 | 9.811e-03 | 1.295e-02 | 8.769e-03 | 1.017e-02 | 7.348e-03 |
| 3 | 6.635e-03 | 8.986e-03 | 6.585e-03 | 6.505e-03 | 4.464e-03 |
| 4 | 4.856e-03 | 6.304e-03 | 5.390e-03 | 4.811e-03 | 2.917e-03 |

  Fractile: 0.84
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 5.723e-02 | 6.003e-02 | 5.473e-02 | 6.528e-02 | 4.888e-02 |
| 0.05 | 8.659e-02 | 7.569e-02 | 8.225e-02 | 1.096e-01 | 7.880e-02 |
| 0.1 | 1.161e-01 | 1.090e-01 | 1.127e-01 | 1.341e-01 | 1.086e-01 |
| 0.2 | 1.164e-01 | 1.185e-01 | 1.207e-01 | 1.203e-01 | 1.061e-01 |
| 0.3 | 9.826e-02 | 1.024e-01 | 9.752e-02 | 1.072e-01 | 8.592e-02 |
| 0.4 | 8.187e-02 | 8.920e-02 | 7.855e-02 | 8.910e-02 | 7.061e-02 |
| 0.5 | 6.983e-02 | 7.957e-02 | 6.483e-02 | 7.523e-02 | 5.969e-02 |
| 0.75 | 5.141e-02 | 5.804e-02 | 4.716e-02 | 5.810e-02 | 4.235e-02 |
| 1 | 3.814e-02 | 4.470e-02 | 3.561e-02 | 4.084e-02 | 3.141e-02 |
| 2 | 2.003e-02 | 2.719e-02 | 1.759e-02 | 2.063e-02 | 1.470e-02 |
| 3 | 1.353e-02 | 1.870e-02 | 1.332e-02 | 1.321e-02 | 8.879e-03 |
| 4 | 9.794e-03 | 1.301e-02 | 1.090e-02 | 9.492e-03 | 5.777e-03 |

Source: Santa Fe fault
Region: Mt Taylor Deterministic
Closest Distance: 67.79 km
Amplitude Units: Acceleration (g)
Magnitude: 6.80 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.652e-02 | 2.652e-02 | 2.526e-02 | 3.135e-02 | 2.295e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.05 | 3.829e-02 | 3.302e-02 | 3.497e-02 | 4.955e-02 | 3.560e-02 |
| 0.1 | 4.976e-02 | 4.639e-02 | 4.697e-02 | 5.817e-02 | 4.750e-02 |
| 0.2 | 5.152e-02 | 4.979e-02 | 5.580e-02 | 5.504e-02 | 4.546e-02 |
| 0.3 | 4.372e-02 | 4.284e-02 | 4.601e-02 | 4.946e-02 | 3.656e-02 |
| 0.4 | 3.616e-02 | 3.730e-02 | 3.667e-02 | 4.076e-02 | 2.991e-02 |
| 0.5 | 3.041e-02 | 3.309e-02 | 2.956e-02 | 3.379e-02 | 2.520e-02 |
| 0.75 | 2.177e-02 | 2.369e-02 | 2.069e-02 | 2.492e-02 | 1.779e-02 |
| 1 | 1.592e-02 | 1.792e-02 | 1.534e-02 | 1.727e-02 | 1.317e-02 |
| 2 | 8.188e-03 | 1.065e-02 | 7.367e-03 | 8.603e-03 | 6.128e-03 |
| 3 | 5.455e-03 | 7.266e-03 | 5.432e-03 | 5.423e-03 | 3.700e-03 |
| 4 | 3.918e-03 | 4.934e-03 | 4.383e-03 | 3.965e-03 | 2.392e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.819e-02 | 5.006e-02 | 4.610e-02 | 5.625e-02 | 4.036e-02 |
| 0.05 | 7.254e-02 | 6.284e-02 | 6.887e-02 | 9.385e-02 | 6.460e-02 |
| 0.1 | 9.714e-02 | 8.973e-02 | 9.504e-02 | 1.155e-01 | 8.825e-02 |
| 0.2 | 9.807e-02 | 9.752e-02 | 1.035e-01 | 1.048e-01 | 8.649e-02 |
| 0.3 | 8.330e-02 | 8.495e-02 | 8.406e-02 | 9.369e-02 | 7.050e-02 |
| 0.4 | 6.957e-02 | 7.460e-02 | 6.773e-02 | 7.773e-02 | 5.821e-02 |
| 0.5 | 5.935e-02 | 6.673e-02 | 5.582e-02 | 6.546e-02 | 4.938e-02 |
| 0.75 | 4.368e-02 | 4.838e-02 | 4.055e-02 | 5.058e-02 | 3.521e-02 |
| 1 | 3.229e-02 | 3.707e-02 | 3.054e-02 | 3.536e-02 | 2.618e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 2 | 1.673e-02 | 2.242e-02 | 1.478e-02 | 1.745e-02 | 1.226e-02 |
| 3 | 1.113e-02 | 1.516e-02 | 1.098e-02 | 1.102e-02 | 7.359e-03 |
| 4 | 7.907e-03 | 1.021e-02 | 8.861e-03 | 7.822e-03 | 4.737e-03 |

Source: unnamed fault of Bonita Canyon
Region: Mt Taylor Deterministic
  Closest Distance: 49.34 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.10 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.117e-02 | 1.905e-02 | 2.354e-02 | 2.570e-02 | 1.640e-02 |
| 0.05 | 3.109e-02 | 2.407e-02 | 3.425e-02 | 3.985e-02 | 2.617e-02 |
| 0.1 | 4.269e-02 | 3.477e-02 | 4.861e-02 | 5.186e-02 | 3.551e-02 |
| 0.2 | 4.528e-02 | 3.516e-02 | 5.899e-02 | 5.268e-02 | 3.430e-02 |
| 0.3 | 3.635e-02 | 2.782e-02 | 4.496e-02 | 4.544e-02 | 2.717e-02 |
| 0.4 | 2.806e-02 | 2.264e-02 | 3.264e-02 | 3.509e-02 | 2.188e-02 |
| 0.5 | 2.270e-02 | 1.912e-02 | 2.554e-02 | 2.800e-02 | 1.813e-02 |
| 0.75 | 1.527e-02 | 1.240e-02 | 1.697e-02 | 1.953e-02 | 1.219e-02 |
| 1 | 1.065e-02 | 8.986e-03 | 1.204e-02 | 1.300e-02 | 8.590e-03 |
| 2 | 4.502e-03 | 4.875e-03 | 4.755e-03 | 5.075e-03 | 3.305e-03 |
| 3 | 2.643e-03 | 2.966e-03 | 3.070e-03 | 2.789e-03 | 1.747e-03 |
| 4 | 1.759e-03 | 1.873e-03 | 2.232e-03 | 1.913e-03 | 1.019e-03 |

  Fractile: 0.84
  Column 1: Spectral Period

Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.908e-02 | 3.679e-02 | 4.296e-02 | 4.613e-02 | 3.042e-02 |
| 0.05 | 5.996e-02 | 4.686e-02 | 6.746e-02 | 7.548e-02 | 5.005e-02 |
| 0.1 | 8.490e-02 | 6.875e-02 | 9.838e-02 | 1.030e-01 | 6.948e-02 |
| 0.2 | 8.717e-02 | 7.036e-02 | 1.094e-01 | 1.003e-01 | 6.863e-02 |
| 0.3 | 6.989e-02 | 5.636e-02 | 8.214e-02 | 8.606e-02 | 5.500e-02 |
| 0.4 | 5.453e-02 | 4.625e-02 | 6.027e-02 | 6.692e-02 | 4.466e-02 |
| 0.5 | 4.477e-02 | 3.938e-02 | 4.824e-02 | 5.425e-02 | 3.721e-02 |
| 0.75 | 3.096e-02 | 2.585e-02 | 3.326e-02 | 3.965e-02 | 2.509e-02 |
| 1 | 2.179e-02 | 1.897e-02 | 2.397e-02 | 2.660e-02 | 1.762e-02 |
| 2 | 9.253e-03 | 1.047e-02 | 9.539e-03 | 1.029e-02 | 6.716e-03 |
| 3 | 5.429e-03 | 6.313e-03 | 6.209e-03 | 5.665e-03 | 3.528e-03 |
| 4 | 3.573e-03 | 3.955e-03 | 4.513e-03 | 3.774e-03 | 2.050e-03 |

Source: unnamed faults near Albuquerque Volcanoes
Region: Mt Taylor Deterministic
Closest Distance: 73.60 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.586e-02 | 2.591e-02 | 2.422e-02 | 3.036e-02 | 2.293e-02 |
| 0.05 | 3.703e-02 | 3.211e-02 | 3.309e-02 | 4.768e-02 | 3.525e-02 |
| 0.1 | 4.767e-02 | 4.472e-02 | 4.404e-02 | 5.520e-02 | 4.672e-02 |
| 0.2 | 4.940e-02 | 4.849e-02 | 5.244e-02 | 5.189e-02 | 4.478e-02 |
| 0.3 | 4.247e-02 | 4.247e-02 | 4.368e-02 | 4.748e-02 | 3.626e-02 |
| 0.4 | 3.543e-02 | 3.756e-02 | 3.508e-02 | 3.924e-02 | 2.983e-02 |
| 0.5 | 3.000e-02 | 3.364e-02 | 2.842e-02 | 3.268e-02 | 2.525e-02 |
| 0.75 | 2.169e-02 | 2.442e-02 | 2.003e-02 | 2.432e-02 | 1.797e-02 |
| 1 | 1.593e-02 | 1.857e-02 | 1.493e-02 | 1.684e-02 | 1.339e-02 |
| 2 | 8.372e-03 | 1.118e-02 | 7.375e-03 | 8.567e-03 | 6.369e-03 |
| 3 | 5.672e-03 | 7.764e-03 | 5.540e-03 | 5.471e-03 | 3.915e-03 |
| 4 | 4.150e-03 | 5.453e-03 | 4.544e-03 | 4.034e-03 | 2.567e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.694e-02 | 4.876e-02 | 4.420e-02 | 5.449e-02 | 4.033e-02 |
| 0.05 | 7.009e-02 | 6.092e-02 | 6.517e-02 | 9.031e-02 | 6.395e-02 |
| 0.1 | 9.296e-02 | 8.624e-02 | 8.913e-02 | 1.097e-01 | 8.681e-02 |
| 0.2 | 9.398e-02 | 9.469e-02 | 9.728e-02 | 9.876e-02 | 8.519e-02 |
| 0.3 | 8.090e-02 | 8.397e-02 | 7.980e-02 | 8.993e-02 | 6.991e-02 |
| 0.4 | 6.814e-02 | 7.489e-02 | 6.478e-02 | 7.484e-02 | 5.805e-02 |
| 0.5 | 5.853e-02 | 6.764e-02 | 5.368e-02 | 6.332e-02 | 4.946e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.75 | 4.349e-02 | 4.974e-02 | 3.926e-02 | 4.937e-02 | 3.557e-02 |
| 1 | 3.228e-02 | 3.831e-02 | 2.971e-02 | 3.448e-02 | 2.663e-02 |
| 2 | 1.709e-02 | 2.346e-02 | 1.480e-02 | 1.738e-02 | 1.274e-02 |
| 3 | 1.157e-02 | 1.616e-02 | 1.120e-02 | 1.111e-02 | 7.785e-03 |
| 4 | 8.370e-03 | 1.125e-02 | 9.187e-03 | 7.960e-03 | 5.084e-03 |

Source: unnamed faults near Picuda Peak
Region: Mt Taylor Deterministic
  Closest Distance: 78.81 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.40 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.557e-02 | 1.393e-02 | 1.584e-02 | 1.980e-02 | 1.269e-02 |
| 0.05 | 2.226e-02 | 1.720e-02 | 2.183e-02 | 3.065e-02 | 1.938e-02 |
| 0.1 | 2.922e-02 | 2.376e-02 | 3.026e-02 | 3.753e-02 | 2.531e-02 |
| 0.2 | 3.121e-02 | 2.518e-02 | 3.780e-02 | 3.724e-02 | 2.462e-02 |
| 0.3 | 2.671e-02 | 2.169e-02 | 3.145e-02 | 3.350e-02 | 2.021e-02 |
| 0.4 | 2.196e-02 | 1.904e-02 | 2.496e-02 | 2.707e-02 | 1.677e-02 |
| 0.5 | 1.829e-02 | 1.684e-02 | 1.995e-02 | 2.210e-02 | 1.425e-02 |
| 0.75 | 1.292e-02 | 1.161e-02 | 1.385e-02 | 1.612e-02 | 1.011e-02 |
| 1 | 9.281e-03 | 8.582e-03 | 1.015e-02 | 1.094e-02 | 7.454e-03 |
| 2 | 4.389e-03 | 4.921e-03 | 4.459e-03 | 4.873e-03 | 3.303e-03 |
| 3 | 2.742e-03 | 3.143e-03 | 3.055e-03 | 2.879e-03 | 1.892e-03 |

| | | | | |
|---|---|---|---|---|
| 4 | 1.889e-03 | 2.058e-03 | 2.319e-03 | 2.021e-03 1.158e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.843e-02 | 2.664e-02 | 2.891e-02 | 3.553e-02 | 2.262e-02 |
| 0.05 | 4.245e-02 | 3.314e-02 | 4.300e-02 | 5.804e-02 | 3.563e-02 |
| 0.1 | 5.749e-02 | 4.654e-02 | 6.124e-02 | 7.455e-02 | 4.764e-02 |
| 0.2 | 5.959e-02 | 4.992e-02 | 7.012e-02 | 7.088e-02 | 4.744e-02 |
| 0.3 | 5.097e-02 | 4.354e-02 | 5.745e-02 | 6.345e-02 | 3.945e-02 |
| 0.4 | 4.232e-02 | 3.853e-02 | 4.609e-02 | 5.162e-02 | 3.302e-02 |
| 0.5 | 3.578e-02 | 3.436e-02 | 3.769e-02 | 4.283e-02 | 2.825e-02 |
| 0.75 | 2.601e-02 | 2.398e-02 | 2.713e-02 | 3.273e-02 | 2.021e-02 |
| 1 | 1.887e-02 | 1.796e-02 | 2.020e-02 | 2.239e-02 | 1.494e-02 |
| 2 | 8.984e-03 | 1.047e-02 | 8.946e-03 | 9.884e-03 | 6.633e-03 |
| 3 | 5.609e-03 | 6.633e-03 | 6.178e-03 | 5.849e-03 | 3.776e-03 |
| 4 | 3.821e-03 | 4.306e-03 | 4.689e-03 | 3.988e-03 | 2.302e-03 |

Source: unnamed faults near Star Heights
Region: Mt Taylor Deterministic
Closest Distance: 78.56 km
Amplitude Units: Acceleration (g)
Magnitude: 6.50 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.726e-02 | 1.572e-02 | 1.701e-02 | 2.213e-02 | 1.416e-02 |
| 0.05 | 2.475e-02 | 1.941e-02 | 2.338e-02 | 3.460e-02 | 2.163e-02 |
| 0.1 | 3.223e-02 | 2.683e-02 | 3.213e-02 | 4.166e-02 | 2.830e-02 |
| 0.2 | 3.413e-02 | 2.860e-02 | 3.981e-02 | 4.071e-02 | 2.743e-02 |
| 0.3 | 2.921e-02 | 2.477e-02 | 3.316e-02 | 3.646e-02 | 2.244e-02 |
| 0.4 | 2.417e-02 | 2.182e-02 | 2.640e-02 | 2.986e-02 | 1.859e-02 |
| 0.5 | 2.021e-02 | 1.937e-02 | 2.116e-02 | 2.452e-02 | 1.580e-02 |
| 0.75 | 1.437e-02 | 1.352e-02 | 1.474e-02 | 1.798e-02 | 1.124e-02 |
| 1 | 1.039e-02 | 1.006e-02 | 1.084e-02 | 1.234e-02 | 8.323e-03 |
| 2 | 5.060e-03 | 5.833e-03 | 4.880e-03 | 5.752e-03 | 3.775e-03 |
| 3 | 3.218e-03 | 3.778e-03 | 3.405e-03 | 3.486e-03 | 2.204e-03 |
| 4 | 2.241e-03 | 2.498e-03 | 2.626e-03 | 2.469e-03 | 1.371e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.141e-02 | 2.996e-02 | 3.105e-02 | 3.970e-02 | 2.491e-02 |
| 0.05 | 4.702e-02 | 3.728e-02 | 4.604e-02 | 6.553e-02 | 3.925e-02 |
| 0.1 | 6.318e-02 | 5.238e-02 | 6.502e-02 | 8.274e-02 | 5.257e-02 |
| 0.2 | 6.500e-02 | 5.652e-02 | 7.384e-02 | 7.748e-02 | 5.218e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.3 | 5.562e-02 | 4.957e-02 | 6.058e-02 | 6.906e-02 | 4.328e-02 |
| 0.4 | 4.647e-02 | 4.403e-02 | 4.875e-02 | 5.694e-02 | 3.618e-02 |
| 0.5 | 3.946e-02 | 3.941e-02 | 3.998e-02 | 4.751e-02 | 3.095e-02 |
| 0.75 | 2.887e-02 | 2.785e-02 | 2.888e-02 | 3.650e-02 | 2.224e-02 |
| 1 | 2.109e-02 | 2.098e-02 | 2.158e-02 | 2.526e-02 | 1.655e-02 |
| 2 | 1.035e-02 | 1.238e-02 | 9.789e-03 | 1.167e-02 | 7.553e-03 |
| 3 | 6.575e-03 | 7.949e-03 | 6.886e-03 | 7.081e-03 | 4.383e-03 |
| 4 | 4.527e-03 | 5.213e-03 | 5.309e-03 | 4.872e-03 | 2.714e-03 |

Source: unnamed faults of El Malpais lava field
Region: Mt Taylor Deterministic
  Closest Distance: 60.45 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.70 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.774e-02 | 2.784e-02 | 2.643e-02 | 3.334e-02 | 2.335e-02 |
| 0.05 | 4.041e-02 | 3.487e-02 | 3.705e-02 | 5.310e-02 | 3.661e-02 |
| 0.1 | 5.305e-02 | 4.953e-02 | 5.019e-02 | 6.325e-02 | 4.921e-02 |
| 0.2 | 5.484e-02 | 5.254e-02 | 5.952e-02 | 6.022e-02 | 4.709e-02 |
| 0.3 | 4.586e-02 | 4.424e-02 | 4.862e-02 | 5.298e-02 | 3.760e-02 |
| 0.4 | 3.760e-02 | 3.780e-02 | 3.848e-02 | 4.353e-02 | 3.059e-02 |
| 0.5 | 3.139e-02 | 3.314e-02 | 3.086e-02 | 3.591e-02 | 2.565e-02 |
| 0.75 | 2.223e-02 | 2.336e-02 | 2.146e-02 | 2.616e-02 | 1.795e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 1 | 1.621e-02 | 1.758e-02 | 1.583e-02 | 1.822e-02 | 1.320e-02 |
| 2 | 8.154e-03 | 1.030e-02 | 7.393e-03 | 8.907e-03 | 6.011e-03 |
| 3 | 5.330e-03 | 6.833e-03 | 5.351e-03 | 5.559e-03 | 3.577e-03 |
| 4 | 3.790e-03 | 4.597e-03 | 4.247e-03 | 4.034e-03 | 2.282e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 5.047e-02 | 5.272e-02 | 4.823e-02 | 5.984e-02 | 4.107e-02 |
| 0.05 | 7.663e-02 | 6.656e-02 | 7.296e-02 | 1.006e-01 | 6.642e-02 |
| 0.1 | 1.037e-01 | 9.610e-02 | 1.016e-01 | 1.256e-01 | 9.143e-02 |
| 0.2 | 1.045e-01 | 1.032e-01 | 1.104e-01 | 1.146e-01 | 8.958e-02 |
| 0.3 | 8.741e-02 | 8.799e-02 | 8.882e-02 | 1.003e-01 | 7.249e-02 |
| 0.4 | 7.236e-02 | 7.582e-02 | 7.106e-02 | 8.302e-02 | 5.952e-02 |
| 0.5 | 6.129e-02 | 6.704e-02 | 5.828e-02 | 6.958e-02 | 5.026e-02 |
| 0.75 | 4.464e-02 | 4.785e-02 | 4.206e-02 | 5.310e-02 | 3.554e-02 |
| 1 | 3.289e-02 | 3.648e-02 | 3.152e-02 | 3.730e-02 | 2.625e-02 |
| 2 | 1.667e-02 | 2.175e-02 | 1.483e-02 | 1.807e-02 | 1.203e-02 |
| 3 | 1.088e-02 | 1.430e-02 | 1.082e-02 | 1.129e-02 | 7.114e-03 |
| 4 | 7.651e-03 | 9.538e-03 | 8.587e-03 | 7.959e-03 | 4.519e-03 |

Source: unnamed intrabasin faults west of the Rio Puerco
Region: Mt Taylor Deterministic
Closest Distance: 87.30 km
Amplitude Units: Acceleration (g)
Magnitude: 6.60 Mw

Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.619e-02 | 1.519e-02 | 1.563e-02 | 2.013e-02 | 1.380e-02 |
| 0.05 | 2.290e-02 | 1.862e-02 | 2.110e-02 | 3.107e-02 | 2.079e-02 |
| 0.1 | 2.941e-02 | 2.540e-02 | 2.872e-02 | 3.660e-02 | 2.693e-02 |
| 0.2 | 3.134e-02 | 2.745e-02 | 3.589e-02 | 3.588e-02 | 2.615e-02 |
| 0.3 | 2.737e-02 | 2.439e-02 | 3.037e-02 | 3.307e-02 | 2.164e-02 |
| 0.4 | 2.297e-02 | 2.197e-02 | 2.443e-02 | 2.740e-02 | 1.808e-02 |
| 0.5 | 1.944e-02 | 1.976e-02 | 1.972e-02 | 2.278e-02 | 1.547e-02 |
| 0.75 | 1.402e-02 | 1.404e-02 | 1.387e-02 | 1.703e-02 | 1.115e-02 |
| 1 | 1.021e-02 | 1.051e-02 | 1.027e-02 | 1.173e-02 | 8.350e-03 |
| 2 | 5.120e-03 | 6.192e-03 | 4.768e-03 | 5.600e-03 | 3.920e-03 |
| 3 | 3.309e-03 | 4.070e-03 | 3.390e-03 | 3.431e-03 | 2.344e-03 |
| 4 | 2.327e-03 | 2.722e-03 | 2.657e-03 | 2.449e-03 | 1.482e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.945e-02 | 2.886e-02 | 2.853e-02 | 3.613e-02 | 2.427e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.05 | 4.345e-02 | 3.566e-02 | 4.155e-02 | 5.885e-02 | 3.773e-02 |
| 0.1 | 5.764e-02 | 4.944e-02 | 5.837e-02 | 7.271e-02 | 5.003e-02 |
| 0.2 | 5.967e-02 | 5.409e-02 | 6.658e-02 | 6.829e-02 | 4.974e-02 |
| 0.3 | 5.212e-02 | 4.865e-02 | 5.548e-02 | 6.264e-02 | 4.172e-02 |
| 0.4 | 4.418e-02 | 4.419e-02 | 4.511e-02 | 5.225e-02 | 3.519e-02 |
| 0.5 | 3.795e-02 | 4.009e-02 | 3.726e-02 | 4.414e-02 | 3.032e-02 |
| 0.75 | 2.817e-02 | 2.884e-02 | 2.718e-02 | 3.458e-02 | 2.208e-02 |
| 1 | 2.073e-02 | 2.186e-02 | 2.044e-02 | 2.402e-02 | 1.660e-02 |
| 2 | 1.047e-02 | 1.311e-02 | 9.565e-03 | 1.136e-02 | 7.843e-03 |
| 3 | 6.757e-03 | 8.541e-03 | 6.855e-03 | 6.970e-03 | 4.661e-03 |
| 4 | 4.700e-03 | 5.664e-03 | 5.372e-03 | 4.831e-03 | 2.934e-03 |

Source: Zia fault [2046]
Region: USGS 2014 New Mexico
  Closest Distance: 73.74 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.84 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.441e-02 | 2.461e-02 | 2.261e-02 | 2.912e-02 | 2.129e-02 |
| 0.05 | 3.494e-02 | 3.049e-02 | 3.088e-02 | 4.570e-02 | 3.270e-02 |
| 0.1 | 4.506e-02 | 4.245e-02 | 4.128e-02 | 5.323e-02 | 4.327e-02 |
| 0.2 | 4.682e-02 | 4.590e-02 | 4.952e-02 | 5.032e-02 | 4.155e-02 |
| 0.3 | 4.023e-02 | 4.009e-02 | 4.131e-02 | 4.585e-02 | 3.369e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 0.4 | 3.354e-02 | 3.540e-02 | 3.315e-02 | 3.786e-02 | 2.774e-02 |
| 0.5 | 2.836e-02 | 3.165e-02 | 2.682e-02 | 3.148e-02 | 2.349e-02 |
| 0.75 | 2.046e-02 | 2.284e-02 | 1.888e-02 | 2.335e-02 | 1.674e-02 |
| 1 | 1.501e-02 | 1.732e-02 | 1.404e-02 | 1.620e-02 | 1.247e-02 |
| 2 | 7.818e-03 | 1.037e-02 | 6.847e-03 | 8.134e-03 | 5.922e-03 |
| 3 | 5.257e-03 | 7.155e-03 | 5.087e-03 | 5.155e-03 | 3.632e-03 |
| 4 | 3.798e-03 | 4.909e-03 | 4.134e-03 | 3.780e-03 | 2.368e-03 |

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 4.434e-02 | 4.638e-02 | 4.127e-02 | 5.226e-02 | 3.744e-02 |
| 0.05 | 6.616e-02 | 5.795e-02 | 6.081e-02 | 8.655e-02 | 5.933e-02 |
| 0.1 | 8.792e-02 | 8.201e-02 | 8.354e-02 | 1.057e-01 | 8.039e-02 |
| 0.2 | 8.912e-02 | 8.979e-02 | 9.186e-02 | 9.578e-02 | 7.905e-02 |
| 0.3 | 7.667e-02 | 7.941e-02 | 7.546e-02 | 8.685e-02 | 6.495e-02 |
| 0.4 | 6.453e-02 | 7.071e-02 | 6.121e-02 | 7.220e-02 | 5.398e-02 |
| 0.5 | 5.536e-02 | 6.375e-02 | 5.066e-02 | 6.101e-02 | 4.603e-02 |
| 0.75 | 4.104e-02 | 4.661e-02 | 3.700e-02 | 4.741e-02 | 3.314e-02 |
| 1 | 3.043e-02 | 3.579e-02 | 2.796e-02 | 3.316e-02 | 2.480e-02 |
| 2 | 1.597e-02 | 2.180e-02 | 1.374e-02 | 1.650e-02 | 1.185e-02 |
| 3 | 1.072e-02 | 1.491e-02 | 1.029e-02 | 1.047e-02 | 7.223e-03 |
| 4 | 7.663e-03 | 1.014e-02 | 8.359e-03 | 7.458e-03 | 4.690e-03 |

# APPENDIX D
# PROBABILISTIC ANALYSES

# APPENDIX D.1
# SUMMARY OF PROBABILISTIC CHARACTERISTICS

## Appendix D.1 Probabilistic Characteristics of Quaternary Faults and Folds Capable of Generating a PGA of 0.05g or Greater

| Name of Faults | ID Number | Age of Most Recent Prehistoric Deformation (ya)[1] | Probability of Activity | Dip[2] (Degrees) | Maximum Seismogenic Depth[2] (km) | Rate of Activity[2] (mm/yr) | MCE[3,4] |
|---|---|---|---|---|---|---|---|
| Intrabasin faults on the Llano de Albuquerque | 2121 | <750,000 | 1 | 60 | 15 | 0.02 | 7.5 |
| Jemez-San Ysidro fault (Jemez and San Ysidro sections)[(4)] | 2029ab | <1,600,000 | 1 | 35 (0.2)<br>50 (0.4)<br>65 (0.2) | 15 | (4) | 7.09 |
| Jemez-San Ysidro fault (Calabacillas section)[(4)] | 2029c | <15,000 | 1 | 35 (0.2)<br>50 (0.4)<br>65 (0.2) | 15 | (4) | 6.83 |
| Mesa Prieta faults | 1985 | <1,600,000 | 0.5 | 60 | 15 | 0.02 | 6.3 |
| Nacimiento fault (northern and southern sections)[(4)] | 2002ab | <1,600,000 | 1 | 35 (0.2)<br>50 (0.4)<br>65 (0.2) | 15 | (4) | 7.3 |
| Sand Hill fault zone | 2039 | <1,600,000 | 0.5 | 60 | 15 | 0.02 | 6.9 |
| Santa Fe fault | 2123 | <1,600,000 | 0.5 | 60 | 15 | 0.02 | 6.8 |
| unnamed faults near Albuquerque Volcanoes | 2049 | <750,000 | 1 | 60 | 15 | 0.02 | 6.9 |
| unnamed faults of El Malpais lava field | 2146 | <1,600,000 | 0.5 | 60 | 15 | 0.02 | 6.7 |

1) Years ago
2) Number in parentheses represents weights for each parameter
3) The middle number is the magnitude of the Maximum Credible Earthquake as calculated by Wells and Coppersmith (1994), an additional minimum and maximum of MCE +0.3 and MCE -0.3 are entered for each model in the analysis of the fault to account for standard error in their equation.
4) The parameters included in the EZ Frisk program from the USGS Hazard mapping used for analysis.

# APPENDIX D.2
# PROBABILISTIC EZ-FRISK SOFTWARE INPUT

```
                  ********************************************
                  *****              EZ-FRISK              *****
                  ***** SEISMIC HAZARD ANALYSIS DEFINITION *****
                  *****               FUGRO                *****
                  *****        WALNUT CREEK, CA  USA       *****
                  ********************************************

PROGRAM VERSION
  EZ-FRISK 8.11 Build 019

ANALYSIS TITLE:
  Mt Taylor - 10,000 yr

ANALYSIS TYPE:
  Single Site Analysis

SITE COORDINATES
  Latitude 35.3409
  Longitude -107.635

INTENSITY TYPE:  Spectral Response @ 5% Damping

HAZARD DEAGGREGATION
  Status: ON
  Deagregation Scenario 1
    Period:             PGA
    Amplitude:          0.02 Acceleration (g)
  Bin Configuration
    Magnitude
      Scale:         Moment Magnitude
      Lowest Value:  4 Mw
      Highest Value: 9 Mw
      Bin Size:      0.1
    Distance
      Lowest Value:  0 km
      Highest Value: 300 km
      Bin Size:      2.5 km
    Epsilon
      Lowest Value:  -2.2
      Highest Value: 4.2
      Bin Size:      0.2

SOIL AMPLIFICATION
  Method: Do not use soil amplification

ATTENUATION EQUATION SITE PARAMETERS
  Depth[Vs=1,000m/s] (m): 5
  Depth[Vs=1000m/s] (m): -1
  Estimate Z1 from Vs30 for CY NGA: 1
  Regional Code: Default
  Subduction Zone Setting: Unknown
  Vs30 (m/s): 1200
  Vs30 Is Measured: 0
  Z25 (km): 0.79
```

AMPLITUDES - Acceleration (g)
  0.0001
  0.001
  0.01
  0.02
  0.05
  0.07
  0.1
  0.2
  0.3
  0.4
  0.5
  0.7
  1
  2
  3

PERIODS (s)
  PGA
  0.05
  0.1
  0.2
  0.3
  0.4
  0.5
  0.75
  1
  2
  3
  4

DETERMINISTIC FRACTILES

PLOTTING PARAMETERS
  Period at which to plot PGA: 0.0001

CALCULATIONAL PARAMETERS
  Fault Seismic Sources -
    Maximum inclusion distance           :   1000 km
    Down dip integration increment       :   1 km
    Horizontal integration increment     :   1 km
    Number rupture length per earthquake :   4
  Subduction Interface Seismic Sources -
    Maximum inclusion distance           :   1000 km
    Down dip integration increment       :   5 km
    Horizontal integration increment     :   20 km
    Number rupture length per earthquake :   1
  Subduction Slab Seismic Sources -
    Maximum inclusion distance           :   1000 km
    Down dip integration increment       :   5 km
    Horizontal integration increment     :   20 km
    Number rupture length per earthquake :   1
  Area Seismic Sources -

```
    Maximum inclusion distance           :   1000 km
    Vertical integration increment       :   3 km
    Number of rupture azimuths           :   3
    Minimum epicentral distance step     :   0.5 km
    Maximum epicentral distance step     :   10 km
  Gridded Seismic Sources -
    Maximum inclusion distance           :   400 km
    Default number of rupture azimuths   :   10
    Maximum distance for default azimuths :   20 km
    Minimum distance for one azimuth     :   70
    Use binned calcuations if possible   :   true
    Bins per decade in distance (km)     :   20
  All Seismic Sources -
    Magnitude integration step           :   0.1 M
    Apply magnitude scaling              :   NO
    Include near-source directivity      :   NO

ATTENUATION EQUATIONS

  Name: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Abrahamson-et al 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Distance To Rupture

  Name: Boore-et al (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Boore-et al 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Horizontal Distance To Rupture

  Name: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Campbell-Bozorgnia 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Distance To Rupture

  Name: Chiou-Youngs (2014) NGA West 2 USGS 2014
  Database: C:\Program Files (x86)\EZ-FRISK 8.11\Files\standard.bin-
attendb
  Base: Chiou-Youngs 2014 NGA West 2
  Truncation Type: USGS 2008 NSHM Truncation
  Truncation Value: 3
  Magnitude Scale: Moment Magnitude
  Distance Type: Distance To Rupture
```

SEISMIC SOURCE SUMMARY TABLE

| Closest Deterministic Fault Source | Distance | Magnitude | Mechanism | Dip Angle | Dips To | Site Region Lies |
|---|---|---|---|---|---|---|
| CEUS Gridded Source | 0.00 | 0.0000 | Strike Slip | 90.0000 | -- | USGS 2014 CEUS Gridded Source Above |
| Shallow - Extensional Gridded | 0.00 | 8.0000 | N\|SS | 90.0000 | -- | USGS 2014 WUS Gridded Source Above |
| Intrabasin faults on the Llano de Albuquerque | 66.68 | 7.5000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Jemez-San Ysidro fault [2029ab] | 77.22 | 7.0900 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Calabacillas fault [2035] | 70.51 | 6.8300 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Mesa Prieta faults | 47.03 | 6.3000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Nacimiento fault [2002ab] | 72.26 | 7.3000 | Normal | 35-65 | E | USGS 2014 New Mexico W |
| Sand Hill fault zone | 62.14 | 6.9000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| Santa Fe fault | 67.75 | 6.8000 | Normal | 60.0000 | W | Mt Taylor Deterministic NW |
| unnamed faults near Albuquerque Volcanoes | 73.56 | 6.9000 | Normal | 60.0000 | W | Mt Taylor Deterministic W |
| unnamed faults of El Malpais lava field | 60.42 | 6.7000 | Normal | 60.0000 | W | Mt Taylor Deterministic NE |

SEISMIC SOURCES

Name: CEUS Gridded Source
Region: USGS 2014 CEUS Gridded Source
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
------ Start Nested Sources forCEUS Gridded Source -------
Name: CEUS_adGridded_2014_2zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
FileType: USGS2008

General Parameters
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.2
Latitude Increment, degrees: 0.1
Longitude Increment, degrees: 0.1
Magnitude Threshold for Weighting: 4.7

```
Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
  Rate at Minimum Magnitude, events per year: 0     Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
  Rate at Minimum Magnitude, events per year: 0     Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
```

```
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_2zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike
```

Name: CEUS_adGridded_2014_4zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:  0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters (Varies point to point?)
  Cell Weight: 1 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0 Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:  0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters (Varies point to point?)
  Cell Weight: 1 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0 Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_adGridded_2014_4zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters

```
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.2
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7
```

```
Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
  Rate at Minimum Magnitude, events per year: 0     Yes
  Beta: 2.3025                                      Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
  Rate at Minimum Magnitude, events per year: 0     Yes
  Beta: 2.3025                                      Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_2zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters                (Varies point to point?)
  Cell Weight: 1                                    Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                              Yes
```

```
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 6.5-6.8
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 7.0-7.2
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1                                  Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0                            Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 2.3025                                    Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike
```

Name: CEUS_fixGridded_2014_4zone_Mmax 7.5-7.6
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters (Varies point to point?)
  Cell Weight: 1 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0 Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025 Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

Name: CEUS_fixGridded_2014_4zone_Mmax 8.0
Region: USGS 2014 Central and Eastern US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.3
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 4.7

Earthquake Model Parameters (Varies point to point?)
  Cell Weight: 1 Yes
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 4.7
  Maximum Magnitude: 0 Yes
  Rate at Minimum Magnitude, events per year: 0 Yes
  Beta: 2.3025 Yes
  Horizontal Rupture Length, A parameter: -2.0325
  Horizontal Rupture Length, B parameter: 0.5
  Rupture Strike Azimuth Model: Random Strike

 ------ End Nested Sources for CEUS Gridded Source -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014

```
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Shallow - Extensional Gridded
Region: USGS 2014 WUS Gridded Source
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forShallow - Extensional Gridded -------
Name: Extensional Gridded, adSm, Tapered_M7.95, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.0133333
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Tapered_M7.95, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.0266667
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
```

```
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, Char, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.16
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                              Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, Char, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.08
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                              Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
```

```
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, GR, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.08
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                                Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, adSm, Truncated_M7.5, GR, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.04
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                                Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Tapered_M7.95, Normal
Region: USGS 2014 Western US
```

Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.04
  Latitude Increment, degrees:  0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters  (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0  Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Tapered_M7.95, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.02
  Latitude Increment, degrees:  0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters  (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 8
  Rate at Minimum Magnitude, events per year: 0  Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, Char, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.24

```
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                                Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, Char, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.12
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                                Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, GR, Normal
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.12
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
```

```
  Fault Mechanism: Normal
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                              Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

Name: Extensional Gridded, fixSm, Truncated_M7.5, GR, Strike Slip
Region: USGS 2014 Western US
Category:Gridded
  FileType: USGS2008

General Parameters
  Magnitude Scale: Moment Magnitude
  Probability of Activity: 0.06
  Latitude Increment, degrees:   0.1
  Longitude Increment, degrees:  0.1
  Magnitude Threshold for Weighting: 5

Earthquake Model Parameters               (Varies point to point?)
  Cell Weight: 1
  Fault Mechanism: Strike Slip
  Depth to Top of Rupture, km: 5
  Minimum Magnitude: 5
  Maximum Magnitude: 7                              Yes
  Rate at Minimum Magnitude, events per year: 0   Yes
  Beta: 1.842
  Horizontal Rupture Length, A parameter: -3.22
  Horizontal Rupture Length, B parameter: 0.69
  Rupture Strike Azimuth Model: Random Strike

 ------ End Nested Sources for Shallow - Extensional Gridded -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Intrabasin faults on the Llano de Albuquerque
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
```

Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 7.5

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 7.200000 | 7.800000 | 0.000000 | 7.500000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.1810 | -106.8520 |
| 34.4930 | -106.8350 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: Jemez-San Ysidro fault [2029ab]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forJemez-San Ysidro fault [2029ab] -------
Name: 2029ab Jemez-San Ysidro fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 35 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.815e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.237e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 5.479e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 6.339e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.582e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 3.687e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 4.768e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.516e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 2.420e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 5.650e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.306e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 8.452e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

```
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
```

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4204 | -106.7887 |
| 35.4846 | -106.7821 |
| 35.5444 | -106.7889 |
| 35.5588 | -106.7854 |
| 35.5980 | -106.7870 |
| 35.6099 | -106.7896 |
| 35.6472 | -106.8137 |
| 35.6645 | -106.8166 |
| 35.6864 | -106.8126 |
| 35.7072 | -106.7940 |
| 35.7251 | -106.7645 |
| 35.7443 | -106.7555 |
| 35.7529 | -106.7401 |
| 35.7737 | -106.7198 |
| 35.7876 | -106.6880 |
| 35.8181 | -106.6576 |
| 35.8332 | -106.6346 |

Name: 2029ab Jemez-San Ysidro fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude

Probability of Activity: 0.60000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.815e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.237e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 5.479e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 6.339e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.582e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 3.687e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 4.768e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.516e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 2.420e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 5.650e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.306e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 8.452e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.4204  -106.7887
    35.4846  -106.7821
    35.5444  -106.7889
    35.5588  -106.7854
    35.5980  -106.7870
    35.6099  -106.7896
    35.6472  -106.8137
    35.6645  -106.8166
    35.6864  -106.8126
    35.7072  -106.7940
    35.7251  -106.7645
    35.7443  -106.7555
    35.7529  -106.7401
    35.7737  -106.7198
    35.7876  -106.6880
    35.8181  -106.6576
    35.8332  -106.6346

Name: 2029ab Jemez-San Ysidro fault (dip 65)
```

Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.09

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.815e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.815e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 4.237e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 5.479e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 6.339e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 1.582e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 1.582e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 3.687e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 4.768e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 5.516e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 6.650000 | 7.130000 | 2.300000 | 6.890000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 2.420e-05 | 6.850000 | 7.330000 | 2.300000 | 7.090000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 2.420e-05 | 7.050000 | 7.530000 | 2.300000 | 7.290000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 5.650e-05 | 6.500000 | 6.890000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 7.306e-05 | 6.500000 | 7.090000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 8.452e-05 | 6.500000 | 7.290000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4204 | -106.7887 |
| 35.4846 | -106.7821 |
| 35.5444 | -106.7889 |
| 35.5588 | -106.7854 |
| 35.5980 | -106.7870 |
| 35.6099 | -106.7896 |
| 35.6472 | -106.8137 |
| 35.6645 | -106.8166 |
| 35.6864 | -106.8126 |
| 35.7072 | -106.7940 |
| 35.7251 | -106.7645 |
| 35.7443 | -106.7555 |
| 35.7529 | -106.7401 |
| 35.7737 | -106.7198 |
| 35.7876 | -106.6880 |

```
    35.8181  -106.6576
    35.8332  -106.6346

 ------ End Nested Sources for Jemez-San Ysidro fault [2029ab] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Calabacillas fault [2035]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forCalabacillas fault [2035] -------
Name: 2035 Calabacillas fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   1.984e-04  6.390000  6.870000
2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   1.984e-04  6.590000  7.070000
2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   1.984e-04  6.790000  7.270000
2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   1.770e-04  6.500000  6.630000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   3.787e-04  6.500000  6.830000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   5.181e-04  6.500000  7.030000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity   8.097e-06  6.390000  6.870000
2.300000  6.630000  0.120000  0.010000 10.000000
```

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.319998 | Activity | 8.097e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.106666 | Activity | 8.097e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.053334 | Activity | 7.248e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.040002 | Activity | 9.028e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 9.028e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 8.047e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 1.721e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 2.355e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1404  -106.8390
    35.2034  -106.8526
    35.2416  -106.8654
    35.2671  -106.8632
    35.3315  -106.8350
    35.4192  -106.7898

Name: 2035 Calabacillas fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        50         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   1.984e-04  6.390000  6.870000
2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   1.984e-04  6.590000  7.070000
2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   1.984e-04  6.790000  7.270000
2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   1.770e-04  6.500000  6.630000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   3.787e-04  6.500000  6.830000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   5.181e-04  6.500000  7.030000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity   8.097e-06  6.390000  6.870000
2.300000  6.630000  0.120000  0.010000 10.000000
           Normal  0.319998    Activity   8.097e-06  6.590000  7.070000
2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.106666    Activity   8.097e-06  6.790000  7.270000
2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.053334    Activity   7.248e-06  6.500000  6.630000
1.842068  0.000000  0.000000  0.000000  0.000000
```

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.040002 | Activity | 9.028e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Normal | 0.013334 | Activity | 9.028e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 |
| 0.120000 | 0.010000 | 10.000000 | | | | | |
| Exponential | 0.006666 | Activity | 8.047e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.019998 | Activity | 1.721e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |
| Exponential | 0.006666 | Activity | 2.355e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | | | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Length and width -3.220000 0.690000 0.220000 -3.220000 0.690000 0.220000 -- -- --

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.1404 | -106.8390 |
| 35.2034 | -106.8526 |
| 35.2416 | -106.8654 |
| 35.2671 | -106.8632 |
| 35.3315 | -106.8350 |
| 35.4192 | -106.7898 |

Name: 2035 Calabacillas fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 6.83

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.984e-04 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.984e-04 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.984e-04 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 1.770e-04 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 3.787e-04 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.006666 | Activity | 5.181e-04 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.106666 | Activity | 8.097e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.319998 | Activity | 8.097e-06 | 6.590000 | 7.070000 | 2.300000 | 6.830000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.106666 | Activity | 8.097e-06 | 6.790000 | 7.270000 | 2.300000 | 7.030000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.053334 | Activity | 7.248e-06 | 6.500000 | 6.630000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.160002 | Activity | 1.550e-05 | 6.500000 | 6.830000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.053334 | Activity | 2.121e-05 | 6.500000 | 7.030000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Normal | 0.013334 | Activity | 9.028e-06 | 6.390000 | 6.870000 | 2.300000 | 6.630000 | 0.120000 | 0.010000 | 10.000000 |

```
           Normal  0.040002    Activity   9.028e-06  6.590000  7.070000
2.300000  6.830000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   9.028e-06  6.790000  7.270000
2.300000  7.030000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   8.047e-06  6.500000  6.630000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   1.721e-05  6.500000  6.830000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   2.355e-05  6.500000  7.030000
1.842068  0.000000  0.000000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.1404  -106.8390
```

```
    35.2034  -106.8526
    35.2416  -106.8654
    35.2671  -106.8632
    35.3315  -106.8350
    35.4192  -106.7898

 ------ End Nested Sources for Calabacillas fault [2035] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

*****************************************

Name: Mesa Prieta faults
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.3

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
          Normal         1        Slip   2.000e-02  6.000000  6.600000
0.000000  6.300000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.5190  -107.0400
    35.4360  -107.0760

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
```

```
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Nacimiento fault [2002ab]
Region: USGS 2014 New Mexico
Category:Composite Seismic Source
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Regions\EZ-FRISK
USGS2014 Lower 48 v1.00\Files\USGS 2014 Lower 48.bin-ssdb
Magnitude Scale: Moment Magnitude
Probability of Activity: 1
 ------ Start Nested Sources forNacimiento fault [2002ab] -------
Name: 2002ab Nacimiento fault (dip 35)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          90        35         0     0.001        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal  0.013334    Activity   1.041e-04  6.860000  7.340000
2.300000  7.100000  0.120000  0.010000 10.000000
           Normal  0.040002    Activity   1.041e-04  7.060000  7.540000
2.300000  7.300000  0.120000  0.010000 10.000000
           Normal  0.013334    Activity   1.041e-04  7.260000  7.740000
2.300000  7.500000  0.120000  0.010000 10.000000
      Exponential  0.006666    Activity   3.949e-04  6.500000  7.100000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.019998    Activity   4.551e-04  6.500000  7.300000
1.842068  0.000000  0.000000  0.000000  0.000000
      Exponential  0.006666    Activity   4.968e-04  6.500000  7.500000
1.842068  0.000000  0.000000  0.000000  0.000000
           Normal  0.106666    Activity   1.182e-05  6.860000  7.340000
2.300000  7.100000  0.120000  0.010000 10.000000
           Normal  0.319998    Activity   1.182e-05  7.060000  7.540000
2.300000  7.300000  0.120000  0.010000 10.000000
           Normal  0.106666    Activity   1.182e-05  7.260000  7.740000
2.300000  7.500000  0.120000  0.010000 10.000000
      Exponential  0.053334    Activity   4.483e-05  6.500000  7.100000
1.842068  0.000000  0.000000  0.000000  0.000000
```

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 | |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 | |
| Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4853 | -106.8574 |
| 35.5849 | -106.8557 |
| 35.6246 | -106.8577 |
| 35.6777 | -106.8687 |
| 35.7441 | -106.8701 |
| 35.7740 | -106.8782 |
| 35.7902 | -106.8878 |
| 35.8244 | -106.8941 |
| 35.8730 | -106.8830 |
| 35.8874 | -106.8885 |
| 35.8967 | -106.8886 |
| 35.9087 | -106.8936 |
| 35.9475 | -106.8926 |
| 35.9999 | -106.9014 |
| 36.0348 | -106.8992 |
| 36.0541 | -106.9073 |
| 36.0739 | -106.9093 |
| 36.0917 | -106.9093 |
| 36.1155 | -106.9015 |
| 36.1908 | -106.9112 |
| 36.1985 | -106.9056 |
| 36.2198 | -106.9021 |

Name: 2002ab Nacimiento fault (dip 50)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.60000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 50 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 0.013334 | Activity | 1.041e-04 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.040002 | Activity | 1.041e-04 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 |
| Normal | 0.013334 | Activity | 1.041e-04 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 |
| Exponential | 0.006666 | Activity | 3.949e-04 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Exponential | 0.019998 | Activity | 4.551e-04 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Exponential | 0.006666 | Activity | 4.968e-04 | 6.500000 | 7.500000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Normal | 0.106666 | Activity | 1.182e-05 | 6.860000 | 7.340000 | 2.300000 |
| 7.100000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.319998 | Activity | 1.182e-05 | 7.060000 | 7.540000 | 2.300000 |
| 7.300000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.106666 | Activity | 1.182e-05 | 7.260000 | 7.740000 | 2.300000 |
| 7.500000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Exponential | 0.053334 | Activity | 4.483e-05 | 6.500000 | 7.100000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 |
| 7.100000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 |
| 7.300000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 |
| 7.500000 | 0.120000 | 0.010000 | 10.000000 | | | |
| Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |
| Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 |
| 0.000000 | 0.000000 | 0.000000 | 0.000000 | | | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.4853 | -106.8574 |
| 35.5849 | -106.8557 |
| 35.6246 | -106.8577 |
| 35.6777 | -106.8687 |
| 35.7441 | -106.8701 |
| 35.7740 | -106.8782 |
| 35.7902 | -106.8878 |
| 35.8244 | -106.8941 |
| 35.8730 | -106.8830 |
| 35.8874 | -106.8885 |
| 35.8967 | -106.8886 |
| 35.9087 | -106.8936 |
| 35.9475 | -106.8926 |
| 35.9999 | -106.9014 |
| 36.0348 | -106.8992 |
| 36.0541 | -106.9073 |
| 36.0739 | -106.9093 |
| 36.0917 | -106.9093 |
| 36.1155 | -106.9015 |
| 36.1908 | -106.9112 |
| 36.1985 | -106.9056 |
| 36.2198 | -106.9021 |

Name: 2002ab Nacimiento fault (dip 65)
Region: USGS 2014 New Mexico
Category:Fault
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.20000000
Deterministic Magnitude: 7.3

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 90 | 65 | 0 | 0.001 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Normal | 0.013334 | Activity | 1.041e-04 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.040002 | Activity | 1.041e-04 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 1.041e-04 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 3.949e-04 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 4.551e-04 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 4.968e-04 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.106666 | Activity | 1.182e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.319998 | Activity | 1.182e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.106666 | Activity | 1.182e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.053334 | Activity | 4.483e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.160002 | Activity | 5.167e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.053334 | Activity | 5.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Normal | 0.013334 | Activity | 1.815e-05 | 6.860000 | 7.340000 | 2.300000 | 7.100000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.040002 | Activity | 1.815e-05 | 7.060000 | 7.540000 | 2.300000 | 7.300000 | 0.120000 | 0.010000 | 10.000000 | |
| | Normal | 0.013334 | Activity | 1.815e-05 | 7.260000 | 7.740000 | 2.300000 | 7.500000 | 0.120000 | 0.010000 | 10.000000 | |
| | Exponential | 0.006666 | Activity | 6.868e-05 | 6.500000 | 7.100000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.019998 | Activity | 7.916e-05 | 6.500000 | 7.300000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |
| | Exponential | 0.006666 | Activity | 8.640e-05 | 6.500000 | 7.500000 | 1.842068 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | -3.220000 | 0.690000 | 0.220000 | -3.220000 | 0.690000 | 0.220000 | -- | -- | -- |
| Length and width | 4.000000 | 0.000000 | 0.001000 | 4.000000 | 0.000000 | 0.001000 | -- | -- | -- |

```
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width  4.000000  0.000000  0.001000  4.000000  0.000000
0.001000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --
      Length and width -3.220000  0.690000  0.220000 -3.220000  0.690000
0.220000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.4853  -106.8574
    35.5849  -106.8557
    35.6246  -106.8577
    35.6777  -106.8687
    35.7441  -106.8701
    35.7740  -106.8782
    35.7902  -106.8878
    35.8244  -106.8941
    35.8730  -106.8830
    35.8874  -106.8885
    35.8967  -106.8886
    35.9087  -106.8936
    35.9475  -106.8926
    35.9999  -106.9014
    36.0348  -106.8992
    36.0541  -106.9073
    36.0739  -106.9093
    36.0917  -106.9093
    36.1155  -106.9015
    36.1908  -106.9112
    36.1985  -106.9056
    36.2198  -106.9021

 ------ End Nested Sources for Nacimiento fault [2002ab] -------

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
```

```
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Sand Hill fault zone
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-
ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:
        Dip1      Dip2    Depth1    Depth2    Depth3
          60        60         0       0.1        15

Magnitude Recurrence Distributions:
        ModelType    Weight    RateType        Rate    MinMag    MaxMag
Beta      Mean     Sigma    Delta1    Delta2
           Normal         1        Slip   2.000e-02  6.600000  7.200000
0.000000  6.900000  0.120000  0.000000  0.000000

Rupture Length Parameters
  Rupture Dimensioning        Al        Bl      Sigl        Aw        Bw
Sigw        Aa        Ba      Sigw
      Length and width  4.000000  0.000000  0.100000  4.000000  0.000000
0.100000        --        --        --

Trace Coordinates:
  Latitude   Longitude
    35.4440  -106.8690
    35.1400  -106.8840

Attenuation Equations for Source:
  Raw Weight  Normalized Weight  Name
      0.25      0.250000          Abrahamson-et al (2014) NGA West 2 USGS
2014
      0.25      0.250000          Boore-et al (2014) NGA West 2 USGS 2014
      0.25      0.250000          Campbell-Bozorgnia (2014) NGA West 2
USGS 2014
      0.25      0.250000          Chiou-Youngs (2014) NGA West 2 USGS
2014

****************************************

Name: Santa Fe fault
Region: Mt Taylor Deterministic
Category:Fault
```

Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.8

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.500000 | 7.100000 | 0.000000 | 6.800000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 34.8880 | -107.0530 |
| 34.6360 | -107.1040 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: unnamed faults near Albuquerque Volcanoes
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 1.00000000
Deterministic Magnitude: 6.9

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.600000 | 7.200000 | 0.000000 | 6.900000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 35.2180 | -106.7620 |
| 35.0650 | -106.7500 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

Name: unnamed faults of El Malpais lava field
Region: Mt Taylor Deterministic
Category:Fault
Database: C:\Users\dgarcia\AppData\Local\Fugro\EZ-FRISK\Files\user.xml-ssdb
Fault Mechanism: Normal
Magnitude Scale: Moment Magnitude
Probability of Activity: 0.50000000
Deterministic Magnitude: 6.7

Fault Profile Parameters:

| Dip1 | Dip2 | Depth1 | Depth2 | Depth3 |
|---|---|---|---|---|
| 60 | 60 | 0 | 0.1 | 15 |

Magnitude Recurrence Distributions:

| ModelType | Weight | RateType | Rate | MinMag | MaxMag | Beta | Mean | Sigma | Delta1 | Delta2 |
|---|---|---|---|---|---|---|---|---|---|---|
| Normal | 1 | Slip | 2.000e-02 | 6.400000 | 7.000000 | 0.000000 | 6.700000 | 0.120000 | 0.000000 | 0.000000 |

Rupture Length Parameters

| Rupture Dimensioning | Al | Bl | Sigl | Aw | Bw | Sigw | Aa | Ba | Sigw |
|---|---|---|---|---|---|---|---|---|---|
| Length and width | 4.000000 | 0.000000 | 0.100000 | 4.000000 | 0.000000 | 0.100000 | -- | -- | -- |

Trace Coordinates:

| Latitude | Longitude |
|---|---|
| 34.8880 | -108.0030 |
| 34.5720 | -108.1560 |

Attenuation Equations for Source:

| Raw Weight | Normalized Weight | Name |
|---|---|---|
| 0.25 | 0.250000 | Abrahamson-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Boore-et al (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Campbell-Bozorgnia (2014) NGA West 2 USGS 2014 |
| 0.25 | 0.250000 | Chiou-Youngs (2014) NGA West 2 USGS 2014 |

**********

MAGNITUDE CONVERSIONS

This analysis does not require any magnitude conversions.
Note: Your analysis may indirectly use magnitude conversions that are not listed here.

Echo File Creation Time: 13:37:53 Monday, September 22, 2025

# APPENDIX D.3
# PROBABILISTIC RESULTS

Probabilistic Spectra results for EZ-FRISK 8.11 Build 019

ANNUAL FREQUENCY OF EXCEEDANCE: 2.107e-03
RETURN PERIOD: 474.6
PROBABILITY OF EXCEEDENCE: 10.0% IN 50.0 YEARS
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Mean
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 3.221e-02 | 3.542e-02 | 3.142e-02 | 3.253e-02 | 2.962e-02 |
| 0.05 | 4.864e-02 | 4.533e-02 | 4.809e-02 | 5.292e-02 | 4.798e-02 |
| 0.1 | 6.812e-02 | 6.553e-02 | 7.097e-02 | 7.013e-02 | 6.546e-02 |
| 0.2 | 6.633e-02 | 6.606e-02 | 6.668e-02 | 6.829e-02 | 6.413e-02 |
| 0.3 | 5.274e-02 | 5.281e-02 | 4.827e-02 | 5.902e-02 | 5.068e-02 |
| 0.4 | 4.168e-02 | 4.400e-02 | 3.698e-02 | 4.595e-02 | 4.001e-02 |
| 0.5 | 3.446e-02 | 3.807e-02 | 2.999e-02 | 3.716e-02 | 3.271e-02 |
| 0.75 | 2.402e-02 | 2.537e-02 | 2.134e-02 | 2.724e-02 | 2.190e-02 |
| 1 | 1.717e-02 | 1.862e-02 | 1.561e-02 | 1.891e-02 | 1.558e-02 |
| 2 | 7.695e-03 | 1.044e-02 | 6.584e-03 | 7.387e-03 | 6.514e-03 |
| 3 | 4.401e-03 | 5.989e-03 | 4.309e-03 | 4.002e-03 | 3.414e-03 |
| 4 | 3.004e-03 | 3.756e-03 | 3.351e-03 | 2.773e-03 | 2.148e-03 |

ANNUAL FREQUENCY OF EXCEEDANCE: 1.026e-03
RETURN PERIOD: 974.8
PROBABILITY OF EXCEEDENCE: 5.0% IN 50.0 YEARS
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Mean
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 5.520e-02 | 6.152e-02 | 5.269e-02 | 5.580e-02 | 5.090e-02 |
| 0.05 | 8.401e-02 | 7.893e-02 | 8.150e-02 | 9.218e-02 | 8.367e-02 |
| 0.1 | 1.180e-01 | 1.156e-01 | 1.186e-01 | 1.213e-01 | 1.162e-01 |
| 0.2 | 1.125e-01 | 1.152e-01 | 1.084e-01 | 1.144e-01 | 1.123e-01 |
| 0.3 | 8.747e-02 | 8.956e-02 | 7.714e-02 | 9.652e-02 | 8.686e-02 |
| 0.4 | 6.871e-02 | 7.258e-02 | 5.922e-02 | 7.467e-02 | 6.798e-02 |
| 0.5 | 5.636e-02 | 6.199e-02 | 4.778e-02 | 6.035e-02 | 5.483e-02 |
| 0.75 | 3.800e-02 | 4.053e-02 | 3.293e-02 | 4.298e-02 | 3.522e-02 |
| 1 | 2.696e-02 | 2.929e-02 | 2.427e-02 | 2.923e-02 | 2.481e-02 |
| 2 | 1.271e-02 | 1.661e-02 | 1.107e-02 | 1.220e-02 | 1.096e-02 |
| 3 | 7.598e-03 | 1.077e-02 | 7.301e-03 | 6.769e-03 | 5.531e-03 |
| 4 | 5.019e-03 | 6.658e-03 | 5.589e-03 | 4.553e-03 | 3.322e-03 |

ANNUAL FREQUENCY OF EXCEEDANCE: 4.041e-04
RETURN PERIOD: 2474.9
PROBABILITY OF EXCEEDENCE: 2.0% IN 50.0 YEARS
Column 1: Spectral Period
Column 2: Acceleration (g) for: Mean
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 1.006e-01 | 1.121e-01 | 9.326e-02 | 1.012e-01 | 9.412e-02 |
| 0.05 | 1.553e-01 | 1.449e-01 | 1.469e-01 | 1.728e-01 | 1.570e-01 |
| 0.1 | 2.236e-01 | 2.215e-01 | 2.168e-01 | 2.304e-01 | 2.264e-01 |
| 0.2 | 2.091e-01 | 2.186e-01 | 1.924e-01 | 2.090e-01 | 2.167e-01 |

| | | | | | |
|---|---|---|---|---|---|
| 0.3 | 1.567e-01 | 1.622e-01 | 1.337e-01 | 1.678e-01 | 1.631e-01 |
| 0.4 | 1.212e-01 | 1.264e-01 | 1.028e-01 | 1.289e-01 | 1.257e-01 |
| 0.5 | 9.956e-02 | 1.068e-01 | 8.280e-02 | 1.048e-01 | 1.013e-01 |
| 0.75 | 6.687e-02 | 7.048e-02 | 5.733e-02 | 7.409e-02 | 6.409e-02 |
| 1 | 4.724e-02 | 5.157e-02 | 4.174e-02 | 5.090e-02 | 4.404e-02 |
| 2 | 2.197e-02 | 2.824e-02 | 1.870e-02 | 2.106e-02 | 1.849e-02 |
| 3 | 1.382e-02 | 1.864e-02 | 1.326e-02 | 1.257e-02 | 1.025e-02 |
| 4 | 9.757e-03 | 1.256e-02 | 1.065e-02 | 8.652e-03 | 5.844e-03 |

ANNUAL FREQUENCY OF EXCEEDANCE: 1.000e-04
RETURN PERIOD: 10000.0
PROBABILITY OF EXCEEDENCE: 0.5% IN 50.0 YEARS
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Mean
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| PGA | 2.096e-01 | 2.360e-01 | 1.893e-01 | 2.094e-01 | 2.013e-01 |
| 0.05 | 3.382e-01 | 3.129e-01 | 3.135e-01 | 3.834e-01 | 3.443e-01 |
| 0.1 | 4.875e-01 | 4.824e-01 | 4.564e-01 | 5.061e-01 | 5.047e-01 |
| 0.2 | 4.482e-01 | 4.756e-01 | 4.024e-01 | 4.322e-01 | 4.839e-01 |
| 0.3 | 3.359e-01 | 3.483e-01 | 2.839e-01 | 3.406e-01 | 3.666e-01 |
| 0.4 | 2.579e-01 | 2.634e-01 | 2.186e-01 | 2.635e-01 | 2.837e-01 |
| 0.5 | 2.097e-01 | 2.170e-01 | 1.770e-01 | 2.131e-01 | 2.264e-01 |
| 0.75 | 1.395e-01 | 1.407e-01 | 1.238e-01 | 1.489e-01 | 1.420e-01 |
| 1 | 1.009e-01 | 1.050e-01 | 9.197e-02 | 1.056e-01 | 9.857e-02 |
| 2 | 4.668e-02 | 5.845e-02 | 4.032e-02 | 4.488e-02 | 3.920e-02 |

| | | | | | |
|---|---|---|---|---|---|
| 3 | 2.922e-02 | 3.772e-02 | 2.850e-02 | 2.727e-02 | 2.085e-02 |
| 4 | 2.090e-02 | 2.569e-02 | 2.291e-02 | 1.954e-02 | 1.286e-02 |

# APPENDIX D
# Technical Memorandum – Frost Depth Analysis

# *Draft Technical Memorandum*

| | | | |
|---|---|---|---|
| To: | Rio Grande Resources Ltd. | From: | Jason Andrews P.E.,<br>Larry Coons P.E. |
| Company: | Rio Grande Resources Ltd. | Date: | October 9, 2025 |
| EA No.: | 111360 | | |
| Re: | Mt. Taylor Uranium Mine<br>- Frost Depth Analysis | | |

## 1.0 INTRODUCTION

This technical memorandum provides the frost depth analysis and results to support the design of the proposed expanded disposal cell. The radon barrier should be located below the calculated frost depth to protect against freeze-thaw impacts.

## 2.0 FROST DEPTH ANALYSIS

The frost depth penetration into the final reclamation cover (cover) for the proposed expanded disposal cell was determined using the procedure adopted by the U.S. Department of Energy and accepted by the Nuclear Regulatory Commission (DOE, 1989). The depth of freezing into the cover (depth of frost penetration) is governed by the local climate, soil material and soil moisture content expected during the operational life of the cover. The procedure used includes a computational procedure to predict frost depth which was initially proposed by Berggren (1943). Smith and Rager (2002) apply these previous studies to determine an adequate thickness of a protective soil layer to protect underlying compacted soil. The freezing depth was calculated for a 200-year recurrence interval (0.5% probability of occurrence in any given year).

### 2.1 Analyzed Final Reclamation Cover Configuration

The following cover system is proposed to overlay the clay layer (radon barrier) and was analyzed for frost penetration. The proposed cover system is presented on Figure D-1.

- 12-inches of rock mulch (erosion protection) consisting of gravel mixed with onsite pediment soils.
- 33-inches of onsite pediment soil (biointrusion and frost protection.)

## 2.2 Input parameters

Calculations

- ***Step 1 Determine freeze-index parameters.***
  Fifty years of historic temperature data consisting of maximum and minimum daily air temperatures was obtained from Grants, New Mexico Municipal Airport for the main data source, additional alternative data sources included the on-site meteorological station at the Mt. Taylor Mine, and the historical weather records of San Mateo, New Mexico. The historic climate data sources and data used in the calculations are presented in Attachment D1.

  The degree day calculation was used to compute the duration of freeze. The duration of freeze is defined as length of time in days that the cumulative degree day is below freezing (Smith and Rager, 2002). The degree day, defined as the mean daily temperature minus 32 degrees Fahrenheit (freezing point of water) (Smith and Rager, 2002) was calculated and presented in Attachment D1. The cumulative degree-days versus the days in the freeze year are plotted. The cumulative degree day plots are provided in Attachment D2.1 and are used to determine the duration of freeze. The selection of points for the duration of freeze calculation is provided in Attachment D2.2

- ***Step 2 Determine surface temperature correction factor.***
  A surface correction factor, N, is applied to the daily temperature data used to correct for difference between air temperature and ground temperature. A surface correction factor of 0.7 for bare soil was chosen from Table 1 of Smith and Rager (2002).

- ***Step 3 Determine thermal properties.***
  Soil thermal properties: thermal conductivity, heat capacity, and latent heat of fusion are products of empirical relationships between the dry unit weight (pcf) and gravimetric moisture content (%). For the purpose of these calculations, the relationships presented by Bianchini and Gonzalez (2012) were used. The thermal conductivity, volumetric heat capacity and latent heat of fusion for each of the soil types for the respective layer are presented in Table 1 below. The thermal ratio and fusion parameter for each of the soil types are presented in Table 2 below. The parameters presented in Tables 1 and 2 were calculated with the following equations from Bianchini and Gonzalez (2012) presented below.

**Thermal conductivity equations:**

$$K_f = \frac{0.076(10)^{0.013\gamma_d} + 0.032(10)^{0.013\gamma_d * w}}{12}$$

$$K_u = \frac{(0.07\log(w) + 0.04)(10)^{0.01\gamma_d}}{12}$$

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Where:

$K_u$ = Thermal Conductivity of unfrozen soil
$K_f$ = Thermal Conductivity of frozen soil
$\gamma_d$ = soil dry unit weight
$w$ = soil water content as percentage

**Volumetric heat capacity equation:**

$$C_{avg} = \gamma_d(c + 0.75\frac{w}{100})$$

Where:

$C_{avg}$ = Average volumetric heat capacity
$\gamma_d$ = soil dry unit weight
$w$ = soil water content as percentage
$c$ = specific heat of the soil solids

**Volumetric latent heat of fusion equation:**

$$L = 144\gamma_d\frac{w}{100}$$

Where:

L= Volumetric latent heat of fusion
$\gamma_d$ = soil dry unit weight
$w$ = soil water content as percentage

**Thermal ratio equation:**

$$\alpha = \frac{v_0}{v_s}$$

Where:

$\alpha$ = Thermal Ratio
$v_0$ =absolute value of the difference between the mean annual temperature below the ground surface and 32° F.
$v_s$ =the term is computed in two different ways in relation to problem analysis.

**Term $v_s$ equation:**

$$v_s = \frac{nF}{t}$$

Where:

$n$ = conversion factor from air index to surface index
$F$ = air-freezing index



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$t$ = length of the freezing season

**Fusion parameter equation:**

$$\mu = \frac{C}{L} v_s$$

Where

$C$= Volumetric Heat Capacity
$L$ = Volumetric latent heat of fusion

**Table 1 – Thermal Properties**

| Layer | Depth (Inches) | Optimum Dry Density (PCF) | Water Content (%) | Dry Density (85% of Proctor) (PCF) | Thermal Conductivity Kf (BTU/ Ft hr °F) | Thermal Conductivity Ku (BTU/ Ft hr °F) | Average Thermal Conductivity (1/2*( Ku+Kf)) (BTU/ Ft hr °F) | Volumetric Heat Capacity (Cavg) (BTU/ft$^3$ °F) | Latent Heat of Fusion (BTU/ft$^3$) |
|---|---|---|---|---|---|---|---|---|---|
| Mulch | 12 | 115 | 10 | 97.8 | 0.83 | 0.87 | 0.85 | 23.9 | 1407.6 |
| Pediment | 33 | 110.7 | 11 | 94.1 | 0.80 | 0.82 | 0.81 | 23.8 | 1490.46 |

**Table 2 – Thermal Parameters**

| Layer | Average Temperature (°F) | Freeze Index (Degree-Day) | Duration (Days) | Vs | Vo | Thermal Ratio | Fusion Parameter |
|---|---|---|---|---|---|---|---|
| Mulch | 63.1 | 927.5 | 173 | 3.8 | 31.1 | 8.25 | 0.06 |
| Pediment | 63.1 | 927.5 | 173 | 3.8 | 31.1 | 8.25 | 0.06 |

- ***Step 4 Determine 200-year recurrence interval.***
  NRC, 10 CFR Appendix A to Part 40, Criterion 6, Paragraph 1 states that the design life should be 1,000 years when reasonably achievable and at a minimum, 200 years. As discussed in Smith and Rager (2002) the use of a 200-year recurrence interval for frost depth analysis meets the requirements of 40 Code of Federal Regulations Part 40. Mean annual temperature was calculated for each year in the data set. The mean annual temperature was plotted and projected to develop the mean minimum temperature for 200 years using the method presented in Smith and Rager (2002). The results of this are presented in Attachment D3.1.

  In addition to the mean annual temperature, the frost index and duration of freeze were calculated for each year in the data set as stated in Step 1. These data were plotted and projected to develop the 200-year maximum frost index and duration of freeze using the method presented in Smith and Rager (2002). The results are presented in Attachments D3.2 and D3.3, respectively.

- ***Step 5 Determine freezing depth.***
  To determine the frost depth of 200-year recurrence interval the method for manual solution of the Modberg Equation presented in Bianchini and Gonzalez (2012) was applied using the parameters calculated in Step 4 to determine the depth of the freezing front inside of the cover system. The depth of the freezing front is presented in Attachment D4.

## 3.0 CONCLUSIONS

The frost penetration depth into the final cover for the 200-year recurrence interval was calculated to be 28 inches. The total thickness of material over the radon barrier is proposed to be 45 inches. Thus, the radon barrier is not anticipated to experience any impacts from freezing.

## 4.0 REFERENCES

Berggren, W.P. (1943). Prediction of temperature distribution in frozen soils. *Proceedings of the 11th Annual Western Interstate Snow Survey Conference, Trans. Am. Geophys. Union*. 71-77.

Bianchini, A., and C.R. Gonzalez. (2012). *Pavement-Transportation Computer Assisted Structural Engineering (PCASE) Implementation of the Modified Berggren (ModBerg) Equation for Computing the Frost Penetration Depth within Pavement structures*. U.S. Army Corps of Engineers, Engineer Research and Development Center, Geotechnical and Structures Laboratory, ERDC/GSL TR-12-15.

Smith, G.E., and R.E. Rager. (2002). Protective layer design in landfill covers based on frost penetration. *ASCE J. Geotechnical/Geoenvironmental Engineering* 128(9): 794-799.

U.S. Department of Energy (U.S. DOE). (1989). *Technical Approach Document, Revision II, Uranium Mill Tailings Remedial Action Project*, UMTRA-DOE/AL 050425.0002, Albuquerque, New Mexico.

## LIST OF FIGURES

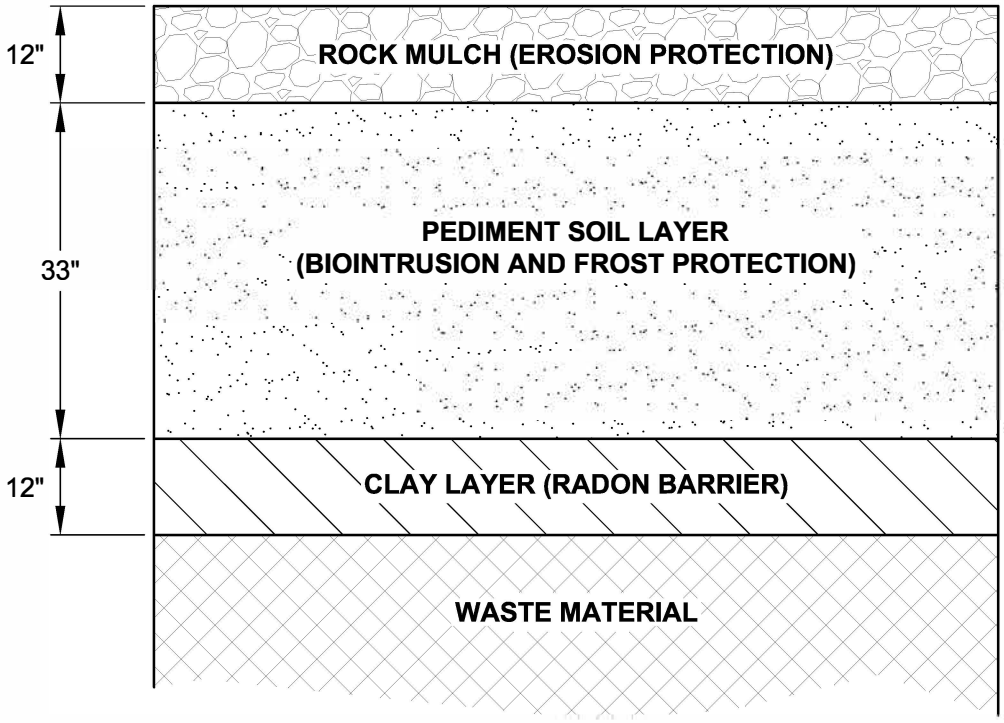
Figure D-1 Final Reclamation Cover System

## LIST OF ATTACHMENTS

Attachment D1 Historical Temperature Data
Attachment D2 Frost Index Calculations
Attachment D2.1 Cumulative Degree Day Plots
Attachment D2.2 Frost Index Determination
Attachment D3 Determination of Parameters at a 200-year Recurrence Interval
Attachment D3.1 Mean Annual Temperature at 200-year Recurrence Interval
Attachment D3.2 Frost Index at 200-year Recurrence Interval
Attachment D3.3 Duration of Freeze Season at 200-year Recurrence Interval
Attachment D4 Frost Depth Determination

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**FIGURE**




NOT TO SCALE

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Project No. 111360

October 2025

Engineering Analytics, Inc.

**FIGURE D-1**
**FINAL RECLAMATION COVER SYSTEM**
**MT. TAYLOR MINE**

# ATTACHMENT D1
# HISTORICAL TEMPERATURE DATA

**Attachment D1 - Summary of Historical Weather Data**

| Location | Site ID | Distance from Site | Elevation (Mt. Taylor, El 6454 ft) | Start Date | End Date | Missing Data? | Weather Categories Used | Notes |
|---|---|---|---|---|---|---|---|---|
| Gallup Municipal Airport, Gallup, NM. | KNMGA19 | 64 miles | 6467 ft | 1/1/1975 | 6/23/2023 | • 8/12/2000 – 8/21/2000<br>• 8/23/2000 – 8/26/2000<br>• 8/28/2000-8/30/2000<br>• 2/20/2007-2/25/2007<br>• 3/1/2014-3/3/2014<br>• 12/11/2022-01/23/2023<br>• 9/26/2023-9/30/2023<br>• 01/25/2024-01/28/2024<br>• 05/29/2025-06/04/2025 | • Temperature<br>• Relative Humidity<br>• Avg Daily Wind Speed<br>• Precipitation | • **Main data source**<br>• Gaps in data filled with Alternative data from Albuquerque, NM . |
| Albuquerque, NM. | KNMALBUQ1093) | 58 miles | 5312 ft | 2/20/2007 | 6/04/2025 | | • Temperature<br>• Relative Humidity<br>• Average Wind Speed<br>• Precipitation | • **Alternative data source**<br>• Used for 5/29/2025-6/4/2025<br>• 01/26/2025-01/28/2025<br>• 9/26/2025-9/30/2025<br>• 12/11/2022-01/23/2023 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | • 2/20/2007-2/25/2007<br>• 2/23/2000-2/28/2000<br>•<br>• |

111360 Mt. Taylor Uranium Mine Grants, NM Municipal Airport Data

| Date | Year | MO | Day | Day in frost Year | Minimum Temperature (Deg F) | Maximum Temperature (Deg F) | Average Temperature (Deg F) | Degree Day | Cum. Degree Day |
|---|---|---|---|---|---|---|---|---|---|
| 6/1/1975 | 1975 | 6 | 1 | 1 | 38 | 80 | 59 | 27 | 27 |
| 6/2/1975 | 1975 | 6 | 2 | 2 | 42 | 83 | 62.5 | 30.5 | 57.5 |
| 6/3/1975 | 1975 | 6 | 3 | 3 | 48 | 84 | 66 | 34 | 91.5 |
| 6/4/1975 | 1975 | 6 | 4 | 4 | 49 | 82 | 65.5 | 33.5 | 125 |
| 6/5/1975 | 1975 | 6 | 5 | 5 | 45 | 83 | 64 | 32 | 157 |
| 6/6/1975 | 1975 | 6 | 6 | 6 | 47 | 81 | 64 | 32 | 189 |
| 6/7/1975 | 1975 | 6 | 7 | 7 | 50 | 80 | 65 | 33 | 222 |
| 6/8/1975 | 1975 | 6 | 8 | 8 | 48 | 79 | 63.5 | 31.5 | 253.5 |
| 6/9/1975 | 1975 | 6 | 9 | 9 | 43 | 77 | 60 | 28 | 281.5 |
| 6/10/1975 | 1975 | 6 | 10 | 10 | 36 | 77 | 56.5 | 24.5 | 306 |
| 6/11/1975 | 1975 | 6 | 11 | 11 | 35 | 75 | 55 | 23 | 329 |
| 6/12/1975 | 1975 | 6 | 12 | 12 | 40 | 80 | 60 | 28 | 357 |
| 6/13/1975 | 1975 | 6 | 13 | 13 | 43 | 86 | 64.5 | 32.5 | 389.5 |
| 6/14/1975 | 1975 | 6 | 14 | 14 | 51 | 85 | 68 | 36 | 425.5 |
| 6/15/1975 | 1975 | 6 | 15 | 15 | 50 | 80 | 65 | 33 | 458.5 |
| 6/16/1975 | 1975 | 6 | 16 | 16 | 51 | 84 | 67.5 | 35.5 | 494 |
| 6/17/1975 | 1975 | 6 | 17 | 17 | 53 | 84 | 68.5 | 36.5 | 530.5 |
| 6/18/1975 | 1975 | 6 | 18 | 18 | 52 | 81 | 66.5 | 34.5 | 565 |
| 6/19/1975 | 1975 | 6 | 19 | 19 | 43 | 77 | 60 | 28 | 593 |
| 6/20/1975 | 1975 | 6 | 20 | 20 | 45 | 74 | 59.5 | 27.5 | 620.5 |
| 6/21/1975 | 1975 | 6 | 21 | 21 | 43 | 79 | 61 | 29 | 649.5 |
| 6/22/1975 | 1975 | 6 | 22 | 22 | 46 | 84 | 65 | 33 | 682.5 |
| 6/23/1975 | 1975 | 6 | 23 | 23 | 48 | 84 | 66 | 34 | 716.5 |
| 6/24/1975 | 1975 | 6 | 24 | 24 | 52 | 84 | 68 | 36 | 752.5 |
| 6/25/1975 | 1975 | 6 | 25 | 25 | 43 | 83 | 63 | 31 | 783.5 |
| 6/26/1975 | 1975 | 6 | 26 | 26 | 48 | 85 | 66.5 | 34.5 | 818 |
| 6/27/1975 | 1975 | 6 | 27 | 27 | 49 | 85 | 67 | 35 | 853 |
| 6/28/1975 | 1975 | 6 | 28 | 28 | 49 | 88 | 68.5 | 36.5 | 889.5 |
| 6/29/1975 | 1975 | 6 | 29 | 29 | 52 | 90 | 71 | 39 | 928.5 |
| 6/30/1975 | 1975 | 6 | 30 | 30 | 53 | 91 | 72 | 40 | 968.5 |
| 7/1/1975 | 1975 | 7 | 1 | 31 | 59 | 90 | 74.5 | 42.5 | 1011 |
| 7/2/1975 | 1975 | 7 | 2 | 32 | 62 | 84 | 73 | 41 | 1052 |
| 7/3/1975 | 1975 | 7 | 3 | 33 | 53 | 82 | 67.5 | 35.5 | 1087.5 |
| 7/4/1975 | 1975 | 7 | 4 | 34 | 56 | 80 | 68 | 36 | 1123.5 |
| 7/5/1975 | 1975 | 7 | 5 | 35 | 54 | 85 | 69.5 | 37.5 | 1161 |
| 7/6/1975 | 1975 | 7 | 6 | 36 | 52 | 81 | 66.5 | 34.5 | 1195.5 |
| 7/7/1975 | 1975 | 7 | 7 | 37 | 51 | 78 | 64.5 | 32.5 | 1228 |
| 7/8/1975 | 1975 | 7 | 8 | 38 | 50 | 79 | 64.5 | 32.5 | 1260.5 |
| 7/9/1975 | 1975 | 7 | 9 | 39 | 54 | 80 | 67 | 35 | 1295.5 |
| 7/10/1975 | 1975 | 7 | 10 | 40 | 59 | 86 | 72.5 | 40.5 | 1336 |
| 7/11/1975 | 1975 | 7 | 11 | 41 | 56 | 81 | 68.5 | 36.5 | 1372.5 |
| 7/12/1975 | 1975 | 7 | 12 | 42 | 54 | 81 | 67.5 | 35.5 | 1408 |
| 7/13/1975 | 1975 | 7 | 13 | 43 | 52 | 79 | 65.5 | 33.5 | 1441.5 |
| 7/14/1975 | 1975 | 7 | 14 | 44 | 50 | 79 | 64.5 | 32.5 | 1474 |
| 7/15/1975 | 1975 | 7 | 15 | 45 | 49 | 80 | 64.5 | 32.5 | 1506.5 |
| 7/16/1975 | 1975 | 7 | 16 | 46 | 55 | 78 | 66.5 | 34.5 | 1541 |
| 7/17/1975 | 1975 | 7 | 17 | 47 | 52 | 76 | 64 | 32 | 1573 |
| 7/18/1975 | 1975 | 7 | 18 | 48 | 53 | 81 | 67 | 35 | 1608 |
| 7/19/1975 | 1975 | 7 | 19 | 49 | 56 | 84 | 70 | 38 | 1646 |
| 7/20/1975 | 1975 | 7 | 20 | 50 | 57 | 82 | 69.5 | 37.5 | 1683.5 |
| 7/21/1975 | 1975 | 7 | 21 | 51 | 50 | 84 | 67 | 35 | 1718.5 |
| 7/22/1975 | 1975 | 7 | 22 | 52 | 50 | 82 | 66 | 34 | 1752.5 |
| 7/23/1975 | 1975 | 7 | 23 | 53 | 53 | 87 | 70 | 38 | 1790.5 |
| 7/24/1975 | 1975 | 7 | 24 | 54 | 54 | 90 | 72 | 40 | 1830.5 |
| 7/25/1975 | 1975 | 7 | 25 | 55 | 49 | 86 | 67.5 | 35.5 | 1866 |
| 7/26/1975 | 1975 | 7 | 26 | 56 | 52 | 79 | 65.5 | 33.5 | 1899.5 |
| 7/27/1975 | 1975 | 7 | 27 | 57 | 53 | 78 | 65.5 | 33.5 | 1933 |
| 7/28/1975 | 1975 | 7 | 28 | 58 | 53 | 77 | 65 | 33 | 1966 |
| 7/29/1975 | 1975 | 7 | 29 | 59 | 50 | 70 | 60 | 28 | 1994 |
| 7/30/1975 | 1975 | 7 | 30 | 60 | 51 | 78 | 64.5 | 32.5 | 2026.5 |
| 7/31/1975 | 1975 | 7 | 31 | 61 | 53 | 80 | 66.5 | 34.5 | 2061 |
| 8/1/1975 | 1975 | 8 | 1 | 62 | 53 | 83 | 68 | 36 | 2097 |
| 8/2/1975 | 1975 | 8 | 2 | 63 | 55 | 84 | 69.5 | 37.5 | 2134.5 |
| 8/3/1975 | 1975 | 8 | 3 | 64 | 52 | 84 | 68 | 36 | 2170.5 |
| 8/4/1975 | 1975 | 8 | 4 | 65 | 51 | 85 | 68 | 36 | 2206.5 |
| 8/5/1975 | 1975 | 8 | 5 | 66 | 53 | 84 | 68.5 | 36.5 | 2243 |
| 8/6/1975 | 1975 | 8 | 6 | 67 | 56 | 85 | 70.5 | 38.5 | 2281.5 |
| 8/7/1975 | 1975 | 8 | 7 | 68 | 57 | 80 | 68.5 | 36.5 | 2318 |
| 8/8/1975 | 1975 | 8 | 8 | 69 | 56 | 80 | 68 | 36 | 2354 |
| 8/9/1975 | 1975 | 8 | 9 | 70 | 54 | 78 | 66 | 34 | 2388 |
| 8/10/1975 | 1975 | 8 | 10 | 71 | 53 | 77 | 65 | 33 | 2421 |
| 8/11/1975 | 1975 | 8 | 11 | 72 | 47 | 78 | 62.5 | 30.5 | 2451.5 |
| 8/12/1975 | 1975 | 8 | 12 | 73 | 53 | 76 | 64.5 | 32.5 | 2484 |
| 8/13/1975 | 1975 | 8 | 13 | 74 | 49 | 73 | 61 | 29 | 2513 |
| 8/14/1975 | 1975 | 8 | 14 | 75 | 50 | 79 | 64.5 | 32.5 | 2545.5 |
| 8/15/1975 | 1975 | 8 | 15 | 76 | 50 | 83 | 66.5 | 34.5 | 2580 |
| 8/16/1975 | 1975 | 8 | 16 | 77 | 55 | 84 | 69.5 | 37.5 | 2617.5 |
| 8/17/1975 | 1975 | 8 | 17 | 78 | 50 | 82 | 66 | 34 | 2651.5 |
| 8/18/1975 | 1975 | 8 | 18 | 79 | 55 | 83 | 69 | 37 | 2688.5 |
| 8/19/1975 | 1975 | 8 | 19 | 80 | 50 | 82 | 66 | 34 | 2722.5 |
| 8/20/1975 | 1975 | 8 | 20 | 81 | 53 | 79 | 66 | 34 | 2756.5 |
| 8/21/1975 | 1975 | 8 | 21 | 82 | 54 | 70 | 62 | 30 | 2786.5 |
| 8/22/1975 | 1975 | 8 | 22 | 83 | 53 | 77 | 65 | 33 | 2819.5 |
| 8/23/1975 | 1975 | 8 | 23 | 84 | 51 | 73 | 62 | 30 | 2849.5 |
| 8/24/1975 | 1975 | 8 | 24 | 85 | 53 | 87 | 70 | 38 | 2887.5 |
| 8/25/1975 | 1975 | 8 | 25 | 86 | 48 | 83 | 65.5 | 33.5 | 2921 |
| 8/26/1975 | 1975 | 8 | 26 | 87 | 47 | 82 | 64.5 | 32.5 | 2953.5 |
| 8/27/1975 | 1975 | 8 | 27 | 88 | 56 | 81 | 68.5 | 36.5 | 2990 |
| 8/28/1975 | 1975 | 8 | 28 | 89 | 49 | 81 | 65 | 33 | 3023 |
| 8/29/1975 | 1975 | 8 | 29 | 90 | 51 | 83 | 67 | 35 | 3058 |
| 8/30/1975 | 1975 | 8 | 30 | 91 | 50 | 80 | 65 | 33 | 3091 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8/31/1975 | 1975 | 8 | 31 | 92 | 51 | 81 | 66 | 34 | 3125 |
| 9/1/1975 | 1975 | 9 | 1 | 93 | 50 | 85 | 67.5 | 35.5 | 3160.5 |
| 9/2/1975 | 1975 | 9 | 2 | 94 | 54 | 79 | 66.5 | 34.5 | 3195 |
| 9/3/1975 | 1975 | 9 | 3 | 95 | 53 | 78 | 65.5 | 33.5 | 3228.5 |
| 9/4/1975 | 1975 | 9 | 4 | 96 | 54 | 73 | 63.5 | 31.5 | 3260 |
| 9/5/1975 | 1975 | 9 | 5 | 97 | 49 | 69 | 59 | 27 | 3287 |
| 9/6/1975 | 1975 | 9 | 6 | 98 | 50 | 63 | 56.5 | 24.5 | 3311.5 |
| 9/7/1975 | 1975 | 9 | 7 | 99 | 50 | 69 | 59.5 | 27.5 | 3339 |
| 9/8/1975 | 1975 | 9 | 8 | 100 | 50 | 73 | 61.5 | 29.5 | 3368.5 |
| 9/9/1975 | 1975 | 9 | 9 | 101 | 43 | 62 | 52.5 | 20.5 | 3389 |
| 9/10/1975 | 1975 | 9 | 10 | 102 | 42 | 61 | 51.5 | 19.5 | 3408.5 |
| 9/11/1975 | 1975 | 9 | 11 | 103 | 40 | 69 | 54.5 | 22.5 | 3431 |
| 9/12/1975 | 1975 | 9 | 12 | 104 | 40 | 59 | 49.5 | 17.5 | 3448.5 |
| 9/13/1975 | 1975 | 9 | 13 | 105 | 43 | 67 | 55 | 23 | 3471.5 |
| 9/14/1975 | 1975 | 9 | 14 | 106 | 44 | 69 | 56.5 | 24.5 | 3496 |
| 9/15/1975 | 1975 | 9 | 15 | 107 | 42 | 69 | 55.5 | 23.5 | 3519.5 |
| 9/16/1975 | 1975 | 9 | 16 | 108 | 46 | 70 | 58 | 26 | 3545.5 |
| 9/17/1975 | 1975 | 9 | 17 | 109 | 48 | 73 | 60.5 | 28.5 | 3574 |
| 9/18/1975 | 1975 | 9 | 18 | 110 | 50 | 73 | 61.5 | 29.5 | 3603.5 |
| 9/19/1975 | 1975 | 9 | 19 | 111 | 46 | 73 | 59.5 | 27.5 | 3631 |
| 9/20/1975 | 1975 | 9 | 20 | 112 | 45 | 72 | 58.5 | 26.5 | 3657.5 |
| 9/21/1975 | 1975 | 9 | 21 | 113 | 40 | 72 | 56 | 24 | 3681.5 |
| 9/22/1975 | 1975 | 9 | 22 | 114 | 40 | 70 | 55 | 23 | 3704.5 |
| 9/23/1975 | 1975 | 9 | 23 | 115 | 42 | 69 | 55.5 | 23.5 | 3728 |
| 9/24/1975 | 1975 | 9 | 24 | 116 | 41 | 68 | 54.5 | 22.5 | 3750.5 |
| 9/25/1975 | 1975 | 9 | 25 | 117 | 40 | 69 | 54.5 | 22.5 | 3773 |
| 9/26/1975 | 1975 | 9 | 26 | 118 | 42 | 70 | 56 | 24 | 3797 |
| 9/27/1975 | 1975 | 9 | 27 | 119 | 43 | 70 | 56.5 | 24.5 | 3821.5 |
| 9/28/1975 | 1975 | 9 | 28 | 120 | 40 | 69 | 54.5 | 22.5 | 3844 |
| 9/29/1975 | 1975 | 9 | 29 | 121 | 41 | 68 | 54.5 | 22.5 | 3866.5 |
| 9/30/1975 | 1975 | 9 | 30 | 122 | 40 | 69 | 54.5 | 22.5 | 3889 |
| 10/1/1975 | 1975 | 10 | 1 | 123 | 36 | 76 | 56 | 24 | 3913 |
| 10/2/1975 | 1975 | 10 | 2 | 124 | 39 | 71 | 55 | 23 | 3936 |
| 10/3/1975 | 1975 | 10 | 3 | 125 | 41 | 72 | 56.5 | 24.5 | 3960.5 |
| 10/4/1975 | 1975 | 10 | 4 | 126 | 42 | 68 | 55 | 23 | 3983.5 |
| 10/5/1975 | 1975 | 10 | 5 | 127 | 42 | 72 | 57 | 25 | 4008.5 |
| 10/6/1975 | 1975 | 10 | 6 | 128 | 42 | 78 | 60 | 28 | 4036.5 |
| 10/7/1975 | 1975 | 10 | 7 | 129 | 48 | 73 | 60.5 | 28.5 | 4065 |
| 10/8/1975 | 1975 | 10 | 8 | 130 | 41 | 69 | 55 | 23 | 4088 |
| 10/9/1975 | 1975 | 10 | 9 | 131 | 37 | 70 | 53.5 | 21.5 | 4109.5 |
| 10/10/1975 | 1975 | 10 | 10 | 132 | 40 | 69 | 54.5 | 22.5 | 4132 |
| 10/11/1975 | 1975 | 10 | 11 | 133 | 41 | 70 | 55.5 | 23.5 | 4155.5 |
| 10/12/1975 | 1975 | 10 | 12 | 134 | 39 | 69 | 54 | 22 | 4177.5 |
| 10/13/1975 | 1975 | 10 | 13 | 135 | 40 | 68 | 54 | 22 | 4199.5 |
| 10/14/1975 | 1975 | 10 | 14 | 136 | 29 | 56 | 42.5 | 10.5 | 4210 |
| 10/15/1975 | 1975 | 10 | 15 | 137 | 25 | 52 | 38.5 | 6.5 | 4216.5 |
| 10/16/1975 | 1975 | 10 | 16 | 138 | 30 | 66 | 48 | 16 | 4232.5 |
| 10/17/1975 | 1975 | 10 | 17 | 139 | 35 | 66 | 50.5 | 18.5 | 4251 |
| 10/18/1975 | 1975 | 10 | 18 | 140 | 37 | 69 | 53 | 21 | 4272 |
| 10/19/1975 | 1975 | 10 | 19 | 141 | 40 | 68 | 54 | 22 | 4294 |
| 10/20/1975 | 1975 | 10 | 20 | 142 | 40 | 68 | 54 | 22 | 4316 |
| 10/21/1975 | 1975 | 10 | 21 | 143 | 35 | 66 | 50.5 | 18.5 | 4334.5 |
| 10/22/1975 | 1975 | 10 | 22 | 144 | 34 | 62 | 48 | 16 | 4350.5 |
| 10/23/1975 | 1975 | 10 | 23 | 145 | 35 | 61 | 48 | 16 | 4366.5 |
| 10/24/1975 | 1975 | 10 | 24 | 146 | 15 | 44 | 29.5 | -2.5 | 4364 |
| 10/25/1975 | 1975 | 10 | 25 | 147 | 17 | 60 | 38.5 | 6.5 | 4370.5 |
| 10/26/1975 | 1975 | 10 | 26 | 148 | 28 | 59 | 43.5 | 11.5 | 4382 |
| 10/27/1975 | 1975 | 10 | 27 | 149 | 29 | 60 | 44.5 | 12.5 | 4394.5 |
| 10/28/1975 | 1975 | 10 | 28 | 150 | 34 | 65 | 60.5 | 28.5 | 4423 |
| 10/29/1975 | 1975 | 10 | 29 | 151 | 33 | 69 | 51 | 19 | 4442 |
| 10/30/1975 | 1975 | 10 | 30 | 152 | 41 | 68 | 54.5 | 22.5 | 4464.5 |
| 10/31/1975 | 1975 | 10 | 31 | 153 | 40 | 61 | 50.5 | 18.5 | 4483 |
| 11/1/1975 | 1975 | 11 | 1 | 154 | 30 | 53 | 41.5 | 9.5 | 4492.5 |
| 11/2/1975 | 1975 | 11 | 2 | 155 | 32 | 58 | 45 | 13 | 4505.5 |
| 11/3/1975 | 1975 | 11 | 3 | 156 | 30 | 61 | 45.5 | 13.5 | 4519 |
| 11/4/1975 | 1975 | 11 | 4 | 157 | 34 | 60 | 47 | 15 | 4534 |
| 11/5/1975 | 1975 | 11 | 5 | 158 | 30 | 69 | 49.5 | 17.5 | 4551.5 |
| 11/6/1975 | 1975 | 11 | 6 | 159 | 32 | 64 | 48 | 16 | 4567.5 |
| 11/7/1975 | 1975 | 11 | 7 | 160 | 31 | 67 | 49 | 17 | 4584.5 |
| 11/8/1975 | 1975 | 11 | 8 | 161 | 33 | 65 | 49 | 17 | 4601.5 |
| 11/9/1975 | 1975 | 11 | 9 | 162 | 32 | 60 | 46 | 14 | 4615.5 |
| 11/10/1975 | 1975 | 11 | 10 | 163 | 23 | 64 | 43.5 | 11.5 | 4627 |
| 11/11/1975 | 1975 | 11 | 11 | 164 | 27 | 58 | 42.5 | 10.5 | 4637.5 |
| 11/12/1975 | 1975 | 11 | 12 | 165 | 19 | 53 | 36 | 4 | 4641.5 |
| 11/13/1975 | 1975 | 11 | 13 | 166 | 18 | 58 | 38 | 6 | 4647.5 |
| 11/14/1975 | 1975 | 11 | 14 | 167 | 17 | 69 | 43 | 11 | 4658.5 |
| 11/15/1975 | 1975 | 11 | 15 | 168 | 19 | 68 | 43.5 | 11.5 | 4670 |
| 11/16/1975 | 1975 | 11 | 16 | 169 | 15 | 71 | 43 | 11 | 4681 |
| 11/17/1975 | 1975 | 11 | 17 | 170 | 10 | 67 | 38.5 | 6.5 | 4687.5 |
| 11/18/1975 | 1975 | 11 | 18 | 171 | 11 | 58 | 34.5 | 2.5 | 4690 |
| 11/19/1975 | 1975 | 11 | 19 | 172 | 20 | 44 | 32 | 0 | 4690 |
| 11/20/1975 | 1975 | 11 | 20 | 173 | 10 | 45 | 27.5 | -4.5 | 4685.5 |
| 11/21/1975 | 1975 | 11 | 21 | 174 | 9 | 45 | 27 | -5 | 4680.5 |
| 11/22/1975 | 1975 | 11 | 22 | 175 | 10 | 45 | 27.5 | -4.5 | 4676 |
| 11/23/1975 | 1975 | 11 | 23 | 176 | 12 | 56 | 34 | 2 | 4678 |
| 11/24/1975 | 1975 | 11 | 24 | 177 | 19 | 54 | 36.5 | 4.5 | 4682.5 |
| 11/25/1975 | 1975 | 11 | 25 | 178 | 18 | 47 | 32.5 | 0.5 | 4683 |
| 11/26/1975 | 1975 | 11 | 26 | 179 | 4 | 44 | 24 | -8 | 4675 |
| 11/27/1975 | 1975 | 11 | 27 | 180 | 10 | 56 | 33 | 1 | 4676 |
| 11/28/1975 | 1975 | 11 | 28 | 181 | 29 | 55 | 42 | 10 | 4686 |
| 11/29/1975 | 1975 | 11 | 29 | 182 | 10 | 37 | 23.5 | -8.5 | 4677.5 |
| 11/30/1975 | 1975 | 11 | 30 | 183 | 1 | 36 | 18.5 | -13.5 | 4664 |
| 12/1/1975 | 1975 | 12 | 1 | 184 | 8 | 44 | 26 | -6 | 4658 |

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| 12/2/1975 | 1975 | 12 | 2 | 185 | 10 | 46 | 28 | -4 | 4654 |
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| 12/4/1975 | 1975 | 12 | 4 | 187 | 18 | 40 | 29 | -3 | 4648 |
| 12/5/1975 | 1975 | 12 | 5 | 188 | 17 | 45 | 31 | -1 | 4647 |
| 12/6/1975 | 1975 | 12 | 6 | 189 | 20 | 46 | 33 | 1 | 4648 |
| 12/7/1975 | 1975 | 12 | 7 | 190 | 19 | 50 | 34.5 | 2.5 | 4650.5 |
| 12/8/1975 | 1975 | 12 | 8 | 191 | 20 | 50 | 35 | 3 | 4653.5 |
| 12/9/1975 | 1975 | 12 | 9 | 192 | 19 | 56 | 37.5 | 5.5 | 4659 |
| 12/10/1975 | 1975 | 12 | 10 | 193 | 27 | 46 | 36.5 | 4.5 | 4663.5 |
| 12/11/1975 | 1975 | 12 | 11 | 194 | 23 | 50 | 36.5 | 4.5 | 4668 |
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| 12/16/1975 | 1975 | 12 | 16 | 199 | 12 | 49 | 30.5 | -1.5 | 4640.5 |
| 12/17/1975 | 1975 | 12 | 17 | 200 | 17 | 45 | 31 | -1 | 4639.5 |
| 12/18/1975 | 1975 | 12 | 18 | 201 | 16 | 46 | 31 | -1 | 4638.5 |
| 12/19/1975 | 1975 | 12 | 19 | 202 | 18 | 51 | 34.5 | 2.5 | 4641 |
| 12/20/1975 | 1975 | 12 | 20 | 203 | 18 | 40 | 29 | -3 | 4638 |
| 12/21/1975 | 1975 | 12 | 21 | 204 | 17 | 37 | 27 | -5 | 4633 |
| 12/22/1975 | 1975 | 12 | 22 | 205 | 18 | 36 | 27 | -5 | 4628 |
| 12/23/1975 | 1975 | 12 | 23 | 206 | 7 | 32 | 19.5 | -12.5 | 4615.5 |
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| 12/25/1975 | 1975 | 12 | 25 | 208 | 6 | 30 | 18 | -14 | 4589 |
| 12/26/1975 | 1975 | 12 | 26 | 209 | 11 | 39 | 25 | -7 | 4582 |
| 12/27/1975 | 1975 | 12 | 27 | 210 | 10 | 40 | 25 | -7 | 4575 |
| 12/28/1975 | 1975 | 12 | 28 | 211 | 14 | 36 | 25 | -7 | 4568 |
| 12/29/1975 | 1975 | 12 | 29 | 212 | 8 | 26 | 17 | -15 | 4553 |
| 12/30/1975 | 1975 | 12 | 30 | 213 | 10 | 30 | 20 | -12 | 4541 |
| 12/31/1975 | 1975 | 12 | 31 | 214 | 11 | 36 | 23.5 | -8.5 | 4532.5 |
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| 1/3/1976 | 1976 | 1 | 3 | 217 | 5 | 30 | 17.5 | -14.5 | 4475.5 |
| 1/4/1976 | 1976 | 1 | 4 | 218 | -10 | 33 | 11.5 | -20.5 | 4455 |
| 1/5/1976 | 1976 | 1 | 5 | 219 | -5 | 39 | 17 | -15 | 4440 |
| 1/6/1976 | 1976 | 1 | 6 | 220 | 5 | 39 | 22 | -10 | 4430 |
| 1/7/1976 | 1976 | 1 | 7 | 221 | 6 | 40 | 23 | -9 | 4421 |
| 1/8/1976 | 1976 | 1 | 8 | 222 | 10 | 34 | 22 | -10 | 4411 |
| 1/9/1976 | 1976 | 1 | 9 | 223 | 17 | 44 | 30.5 | -1.5 | 4409.5 |
| 1/10/1976 | 1976 | 1 | 10 | 224 | 27 | 43 | 35 | 3 | 4412.5 |
| 1/11/1976 | 1976 | 1 | 11 | 225 | 13 | 39 | 26 | -6 | 4406.5 |
| 1/12/1976 | 1976 | 1 | 12 | 226 | 18 | 40 | 29 | -3 | 4403.5 |
| 1/13/1976 | 1976 | 1 | 13 | 227 | 17 | 40 | 28.5 | -3.5 | 4400 |
| 1/14/1976 | 1976 | 1 | 14 | 228 | 16 | 40 | 28 | -4 | 4396 |
| 1/15/1976 | 1976 | 1 | 15 | 229 | 21 | 41 | 31 | -1 | 4395 |
| 1/16/1976 | 1976 | 1 | 16 | 230 | 22 | 40 | 31 | -1 | 4394 |
| 1/17/1976 | 1976 | 1 | 17 | 231 | 20 | 42 | 31 | -1 | 4393 |
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| 1/20/1976 | 1976 | 1 | 20 | 234 | 13 | 43 | 28 | -4 | 4398 |
| 1/21/1976 | 1976 | 1 | 21 | 235 | 14 | 49 | 31.5 | -0.5 | 4397.5 |
| 1/22/1976 | 1976 | 1 | 22 | 236 | 21 | 48 | 34.5 | 2.5 | 4400 |
| 1/23/1976 | 1976 | 1 | 23 | 237 | 26 | 49 | 37.5 | 5.5 | 4405.5 |
| 1/24/1976 | 1976 | 1 | 24 | 238 | 25 | 44 | 34.5 | 2.5 | 4408 |
| 1/25/1976 | 1976 | 1 | 25 | 239 | 24 | 43 | 33.5 | 1.5 | 4409.5 |
| 1/26/1976 | 1976 | 1 | 26 | 240 | 0 | 32 | 16 | -16 | 4393.5 |
| 1/27/1976 | 1976 | 1 | 27 | 241 | 6 | 36 | 21 | -11 | 4382.5 |
| 1/28/1976 | 1976 | 1 | 28 | 242 | 10 | 35 | 22.5 | -9.5 | 4373 |
| 1/29/1976 | 1976 | 1 | 29 | 243 | 15 | 40 | 27.5 | -4.5 | 4368.5 |
| 1/30/1976 | 1976 | 1 | 30 | 244 | 17 | 44 | 30.5 | -1.5 | 4367 |
| 1/31/1976 | 1976 | 1 | 31 | 245 | 20 | 48 | 34 | 2 | 4369 |
| 2/1/1976 | 1976 | 2 | 1 | 246 | 19 | 57 | 38 | 6 | 4375 |
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| 2/3/1976 | 1976 | 2 | 3 | 248 | 26 | 52 | 39 | 7 | 4387.5 |
| 2/4/1976 | 1976 | 2 | 4 | 249 | 32 | 46 | 39 | 7 | 4394.5 |
| 2/5/1976 | 1976 | 2 | 5 | 250 | 36 | 49 | 42.5 | 10.5 | 4405 |
| 2/6/1976 | 1976 | 2 | 6 | 251 | 35 | 44 | 39.5 | 7.5 | 4412.5 |
| 2/7/1976 | 1976 | 2 | 7 | 252 | 26 | 50 | 38 | 6 | 4418.5 |
| 2/8/1976 | 1976 | 2 | 8 | 253 | 29 | 59 | 44 | 12 | 4430.5 |
| 2/9/1976 | 1976 | 2 | 9 | 254 | 20 | 56 | 38 | 6 | 4436.5 |
| 2/10/1976 | 1976 | 2 | 10 | 255 | 23 | 52 | 37.5 | 5.5 | 4442 |
| 2/11/1976 | 1976 | 2 | 11 | 256 | 26 | 48 | 37 | 5 | 4447 |
| 2/12/1976 | 1976 | 2 | 12 | 257 | 30 | 57 | 43.5 | 11.5 | 4458.5 |
| 2/13/1976 | 1976 | 2 | 13 | 258 | 30 | 59 | 44.5 | 12.5 | 4471 |
| 2/14/1976 | 1976 | 2 | 14 | 259 | 30 | 42 | 36 | 4 | 4475 |
| 2/15/1976 | 1976 | 2 | 15 | 260 | 29 | 41 | 35 | 3 | 4478 |
| 2/16/1976 | 1976 | 2 | 16 | 261 | 20 | 40 | 30 | -2 | 4476 |
| 2/17/1976 | 1976 | 2 | 17 | 262 | 20 | 41 | 30.5 | -1.5 | 4474.5 |
| 2/18/1976 | 1976 | 2 | 18 | 263 | 21 | 39 | 30 | -2 | 4472.5 |
| 2/19/1976 | 1976 | 2 | 19 | 264 | 24 | 50 | 37 | 5 | 4477.5 |
| 2/20/1976 | 1976 | 2 | 20 | 265 | 17 | 50 | 33.5 | 1.5 | 4479 |
| 2/21/1976 | 1976 | 2 | 21 | 266 | 25 | 37 | 31 | -1 | 4478 |
| 2/22/1976 | 1976 | 2 | 22 | 267 | 12 | 39 | 25.5 | -6.5 | 4471.5 |
| 2/23/1976 | 1976 | 2 | 23 | 268 | 19 | 42 | 30.5 | -1.5 | 4470 |
| 2/24/1976 | 1976 | 2 | 24 | 269 | 19 | 49 | 34 | 2 | 4472 |
| 2/25/1976 | 1976 | 2 | 25 | 270 | 22 | 50 | 36 | 4 | 4476 |
| 2/26/1976 | 1976 | 2 | 26 | 271 | 20 | 56 | 38 | 6 | 4482 |
| 2/27/1976 | 1976 | 2 | 27 | 272 | 19 | 56 | 37.5 | 5.5 | 4487.5 |
| 2/28/1976 | 1976 | 2 | 28 | 273 | 27 | 64 | 45.5 | 13.5 | 4501 |
| 2/29/1976 | 1976 | 2 | 29 | 274 | 30 | 55 | 42.5 | 10.5 | 4511.5 |
| 3/1/1976 | 1976 | 3 | 1 | 275 | 29 | 60 | 44.5 | 12.5 | 4524 |
| 3/2/1976 | 1976 | 3 | 2 | 276 | 30 | 50 | 40 | 8 | 4532 |
| 3/3/1976 | 1976 | 3 | 3 | 277 | 25 | 55 | 40 | 8 | 4540 |

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|---|---|---|---|---|---|---|---|---|---|
| 3/4/1976 | 1976 | 3 | 4 | 278 | 0 | 46 | 23 | -9 | 4531 |
| 3/5/1976 | 1976 | 3 | 5 | 279 | 1 | 45 | 23 | -9 | 4522 |
| 3/6/1976 | 1976 | 3 | 6 | 280 | 0 | 40 | 20 | -12 | 4510 |
| 3/7/1976 | 1976 | 3 | 7 | 281 | 3 | 39 | 21 | -11 | 4499 |
| 3/8/1976 | 1976 | 3 | 8 | 282 | 4 | 35 | 19.5 | -12.5 | 4486.5 |
| 3/9/1976 | 1976 | 3 | 9 | 283 | 4 | 32 | 18 | -14 | 4472.5 |
| 3/10/1976 | 1976 | 3 | 10 | 284 | 9 | 36 | 22.5 | -9.5 | 4463 |
| 3/11/1976 | 1976 | 3 | 11 | 285 | 10 | 40 | 25 | -7 | 4456 |
| 3/12/1976 | 1976 | 3 | 12 | 286 | 26 | 49 | 37.5 | 5.5 | 4461.5 |
| 3/13/1976 | 1976 | 3 | 13 | 287 | 29 | 45 | 37 | 5 | 4466.5 |
| 3/14/1976 | 1976 | 3 | 14 | 288 | 27 | 44 | 35.5 | 3.5 | 4470 |
| 3/15/1976 | 1976 | 3 | 15 | 289 | 13 | 38 | 25.5 | -6.5 | 4463.5 |
| 3/16/1976 | 1976 | 3 | 16 | 290 | 12 | 39 | 25.5 | -6.5 | 4457 |
| 3/17/1976 | 1976 | 3 | 17 | 291 | 22 | 40 | 31 | -1 | 4456 |
| 3/18/1976 | 1976 | 3 | 18 | 292 | 23 | 45 | 34 | 2 | 4458 |
| 3/19/1976 | 1976 | 3 | 19 | 293 | 29 | 46 | 37.5 | 5.5 | 4463.5 |
| 3/20/1976 | 1976 | 3 | 20 | 294 | 30 | 49 | 39.5 | 7.5 | 4471 |
| 3/21/1976 | 1976 | 3 | 21 | 295 | 12 | 50 | 31 | -1 | 4470 |
| 3/22/1976 | 1976 | 3 | 22 | 296 | 15 | 50 | 32.5 | 0.5 | 4470.5 |
| 3/23/1976 | 1976 | 3 | 23 | 297 | 20 | 50 | 35 | 3 | 4473.5 |
| 3/24/1976 | 1976 | 3 | 24 | 298 | 23 | 54 | 38.5 | 6.5 | 4480 |
| 3/25/1976 | 1976 | 3 | 25 | 299 | 37 | 50 | 43.5 | 11.5 | 4491.5 |
| 3/26/1976 | 1976 | 3 | 26 | 300 | 32 | 56 | 44 | 12 | 4503.5 |
| 3/27/1976 | 1976 | 3 | 27 | 301 | 25 | 59 | 42 | 10 | 4513.5 |
| 3/28/1976 | 1976 | 3 | 28 | 302 | 20 | 56 | 38 | 6 | 4519.5 |
| 3/29/1976 | 1976 | 3 | 29 | 303 | 19 | 36 | 27.5 | -4.5 | 4515 |
| 3/30/1976 | 1976 | 3 | 30 | 304 | 15 | 40 | 27.5 | -4.5 | 4510.5 |
| 3/31/1976 | 1976 | 3 | 31 | 305 | 23 | 45 | 34 | 2 | 4512.5 |
| 4/1/1976 | 1976 | 4 | 1 | 306 | 29 | 66 | 47.5 | 15.5 | 4528 |
| 4/2/1976 | 1976 | 4 | 2 | 307 | 39 | 65 | 52 | 20 | 4548 |
| 4/3/1976 | 1976 | 4 | 3 | 308 | 34 | 61 | 47.5 | 15.5 | 4563.5 |
| 4/4/1976 | 1976 | 4 | 4 | 309 | 20 | 58 | 39 | 7 | 4570.5 |
| 4/5/1976 | 1976 | 4 | 5 | 310 | 20 | 50 | 35 | 3 | 4573.5 |
| 4/6/1976 | 1976 | 4 | 6 | 311 | 19 | 51 | 35 | 3 | 4576.5 |
| 4/7/1976 | 1976 | 4 | 7 | 312 | 18 | 56 | 37 | 5 | 4581.5 |
| 4/8/1976 | 1976 | 4 | 8 | 313 | 17 | 48 | 32.5 | 0.5 | 4582 |
| 4/9/1976 | 1976 | 4 | 9 | 314 | 30 | 50 | 40 | 8 | 4590 |
| 4/10/1976 | 1976 | 4 | 10 | 315 | 32 | 59 | 45.5 | 13.5 | 4603.5 |
| 4/11/1976 | 1976 | 4 | 11 | 316 | 35 | 59 | 47 | 15 | 4618.5 |
| 4/12/1976 | 1976 | 4 | 12 | 317 | 34 | 60 | 47 | 15 | 4633.5 |
| 4/13/1976 | 1976 | 4 | 13 | 318 | 38 | 69 | 53.5 | 21.5 | 4655 |
| 4/14/1976 | 1976 | 4 | 14 | 319 | 43 | 66 | 54.5 | 22.5 | 4677.5 |
| 4/15/1976 | 1976 | 4 | 15 | 320 | 40 | 60 | 50 | 18 | 4695.5 |
| 4/16/1976 | 1976 | 4 | 16 | 321 | 39 | 57 | 48 | 16 | 4711.5 |
| 4/17/1976 | 1976 | 4 | 17 | 322 | 30 | 59 | 44.5 | 12.5 | 4724 |
| 4/18/1976 | 1976 | 4 | 18 | 323 | 20 | 45 | 32.5 | 0.5 | 4724.5 |
| 4/19/1976 | 1976 | 4 | 19 | 324 | 20 | 40 | 30 | -2 | 4722.5 |
| 4/20/1976 | 1976 | 4 | 20 | 325 | 19 | 42 | 30.5 | -1.5 | 4721 |
| 4/21/1976 | 1976 | 4 | 21 | 326 | 18 | 49 | 33.5 | 1.5 | 4722.5 |
| 4/22/1976 | 1976 | 4 | 22 | 327 | 27 | 60 | 43.5 | 11.5 | 4734 |
| 4/23/1976 | 1976 | 4 | 23 | 328 | 41 | 69 | 55 | 23 | 4757 |
| 4/24/1976 | 1976 | 4 | 24 | 329 | 42 | 67 | 54.5 | 22.5 | 4779.5 |
| 4/25/1976 | 1976 | 4 | 25 | 330 | 38 | 69 | 53.5 | 21.5 | 4801 |
| 4/26/1976 | 1976 | 4 | 26 | 331 | 33 | 70 | 51.5 | 19.5 | 4820.5 |
| 4/27/1976 | 1976 | 4 | 27 | 332 | 41 | 69 | 55 | 23 | 4843.5 |
| 4/28/1976 | 1976 | 4 | 28 | 333 | 39 | 69 | 54 | 22 | 4865.5 |
| 4/29/1976 | 1976 | 4 | 29 | 334 | 36 | 69 | 52.5 | 20.5 | 4886 |
| 4/30/1976 | 1976 | 4 | 30 | 335 | 42 | 68 | 55 | 23 | 4909 |
| 5/1/1976 | 1976 | 5 | 1 | 336 | 26 | 69 | 47.5 | 15.5 | 4924.5 |
| 5/2/1976 | 1976 | 5 | 2 | 337 | 35 | 70 | 52.5 | 20.5 | 4945 |
| 5/3/1976 | 1976 | 5 | 3 | 338 | 42 | 72 | 57 | 25 | 4970 |
| 5/4/1976 | 1976 | 5 | 4 | 339 | 41 | 64 | 52.5 | 20.5 | 4990.5 |
| 5/5/1976 | 1976 | 5 | 5 | 340 | 40 | 66 | 53 | 21 | 5011.5 |
| 5/6/1976 | 1976 | 5 | 6 | 341 | 30 | 65 | 47.5 | 15.5 | 5027 |
| 5/7/1976 | 1976 | 5 | 7 | 342 | 39 | 64 | 51.5 | 19.5 | 5046.5 |
| 5/8/1976 | 1976 | 5 | 8 | 343 | 30 | 51 | 40.5 | 8.5 | 5055 |
| 5/9/1976 | 1976 | 5 | 9 | 344 | 31 | 68 | 49.5 | 17.5 | 5072.5 |
| 5/10/1976 | 1976 | 5 | 10 | 345 | 32 | 69 | 50.5 | 18.5 | 5091 |
| 5/11/1976 | 1976 | 5 | 11 | 346 | 30 | 68 | 49 | 17 | 5108 |
| 5/12/1976 | 1976 | 5 | 12 | 347 | 40 | 70 | 55 | 23 | 5131 |
| 5/13/1976 | 1976 | 5 | 13 | 348 | 39 | 74 | 56.5 | 24.5 | 5155.5 |
| 5/14/1976 | 1976 | 5 | 14 | 349 | 42 | 79 | 60.5 | 28.5 | 5184 |
| 5/15/1976 | 1976 | 5 | 15 | 350 | 48 | 80 | 64 | 32 | 5216 |
| 5/16/1976 | 1976 | 5 | 16 | 351 | 44 | 80 | 62 | 30 | 5246 |
| 5/17/1976 | 1976 | 5 | 17 | 352 | 40 | 79 | 59.5 | 27.5 | 5273.5 |
| 5/18/1976 | 1976 | 5 | 18 | 353 | 45 | 79 | 62 | 30 | 5303.5 |
| 5/19/1976 | 1976 | 5 | 19 | 354 | 42 | 74 | 58 | 26 | 5329.5 |
| 5/20/1976 | 1976 | 5 | 20 | 355 | 43 | 70 | 56.5 | 24.5 | 5354 |
| 5/21/1976 | 1976 | 5 | 21 | 356 | 42 | 70 | 56 | 24 | 5378 |
| 5/22/1976 | 1976 | 5 | 22 | 357 | 44 | 69 | 56.5 | 24.5 | 5402.5 |
| 5/23/1976 | 1976 | 5 | 23 | 358 | 42 | 70 | 56 | 24 | 5426.5 |
| 5/24/1976 | 1976 | 5 | 24 | 359 | 47 | 75 | 61 | 29 | 5455.5 |
| 5/25/1976 | 1976 | 5 | 25 | 360 | 42 | 74 | 58 | 26 | 5481.5 |
| 5/26/1976 | 1976 | 5 | 26 | 361 | 40 | 72 | 56 | 24 | 5505.5 |
| 5/27/1976 | 1976 | 5 | 27 | 362 | 42 | 70 | 56 | 24 | 5529.5 |
| 5/28/1976 | 1976 | 5 | 28 | 363 | 42 | 70 | 56 | 24 | 5553.5 |
| 5/29/1976 | 1976 | 5 | 29 | 364 | 51 | 79 | 65 | 33 | 5586.5 |
| 5/30/1976 | 1976 | 5 | 30 | 365 | 49 | 80 | 64.5 | 32.5 | 5619 |
| 5/31/1976 | 1976 | 5 | 31 | 366 | 47 | 76 | 61.5 | 29.5 | 5648.5 |
| 6/1/1976 | 1976 | 6 | 1 | 1 | 42 | 84 | 63 | 31 | 31 |
| 6/2/1976 | 1976 | 6 | 2 | 2 | 51 | 84 | 67.5 | 35.5 | 66.5 |
| 6/3/1976 | 1976 | 6 | 3 | 3 | 53 | 84 | 68.5 | 36.5 | 103 |
| 6/4/1976 | 1976 | 6 | 4 | 4 | 50 | 85 | 67.5 | 35.5 | 138.5 |

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| 6/6/1976 | 1976 | 6 | 6 | 6 | 48 | 76 | 62 | 30 | 203 |
| 6/7/1976 | 1976 | 6 | 7 | 7 | 53 | 82 | 67.5 | 35.5 | 238.5 |
| 6/8/1976 | 1976 | 6 | 8 | 8 | 44 | 83 | 63.5 | 31.5 | 270 |
| 6/9/1976 | 1976 | 6 | 9 | 9 | 49 | 82 | 65.5 | 33.5 | 303.5 |
| 6/10/1976 | 1976 | 6 | 10 | 10 | 48 | 82 | 65 | 33 | 336.5 |
| 6/11/1976 | 1976 | 6 | 11 | 11 | 51 | 83 | 67 | 35 | 371.5 |
| 6/12/1976 | 1976 | 6 | 12 | 12 | 43 | 80 | 61.5 | 29.5 | 401 |
| 6/13/1976 | 1976 | 6 | 13 | 13 | 40 | 80 | 60 | 28 | 429 |
| 6/14/1976 | 1976 | 6 | 14 | 14 | 45 | 81 | 63 | 31 | 460 |
| 6/15/1976 | 1976 | 6 | 15 | 15 | 45 | 74 | 59.5 | 27.5 | 487.5 |
| 6/16/1976 | 1976 | 6 | 16 | 16 | 44 | 75 | 59.5 | 27.5 | 515 |
| 6/17/1976 | 1976 | 6 | 17 | 17 | 40 | 80 | 60 | 28 | 543 |
| 6/18/1976 | 1976 | 6 | 18 | 18 | 56 | 81 | 68.5 | 36.5 | 579.5 |
| 6/19/1976 | 1976 | 6 | 19 | 19 | 49 | 84 | 66.5 | 34.5 | 614 |
| 6/20/1976 | 1976 | 6 | 20 | 20 | 48 | 87 | 67.5 | 35.5 | 649.5 |
| 6/21/1976 | 1976 | 6 | 21 | 21 | 54 | 89 | 71.5 | 39.5 | 689 |
| 6/22/1976 | 1976 | 6 | 22 | 22 | 59 | 84 | 71.5 | 39.5 | 728.5 |
| 6/23/1976 | 1976 | 6 | 23 | 23 | 41 | 78 | 59.5 | 27.5 | 756 |
| 6/24/1976 | 1976 | 6 | 24 | 24 | 45 | 79 | 62 | 30 | 786 |
| 6/25/1976 | 1976 | 6 | 25 | 25 | 49 | 79 | 64 | 32 | 818 |
| 6/26/1976 | 1976 | 6 | 26 | 26 | 50 | 79 | 64.5 | 32.5 | 850.5 |
| 6/27/1976 | 1976 | 6 | 27 | 27 | 52 | 89 | 70.5 | 38.5 | 889 |
| 6/28/1976 | 1976 | 6 | 28 | 28 | 53 | 90 | 71.5 | 39.5 | 928.5 |
| 6/29/1976 | 1976 | 6 | 29 | 29 | 56 | 89 | 72.5 | 40.5 | 969 |
| 6/30/1976 | 1976 | 6 | 30 | 30 | 61 | 84 | 72.5 | 40.5 | 1009.5 |
| 7/1/1976 | 1976 | 7 | 1 | 31 | 55 | 84 | 69.5 | 37.5 | 1047 |
| 7/2/1976 | 1976 | 7 | 2 | 32 | 57 | 86 | 71.5 | 39.5 | 1086.5 |
| 7/3/1976 | 1976 | 7 | 3 | 33 | 55 | 90 | 72.5 | 40.5 | 1127 |
| 7/4/1976 | 1976 | 7 | 4 | 34 | 58 | 90 | 74 | 42 | 1169 |
| 7/5/1976 | 1976 | 7 | 5 | 35 | 53 | 91 | 72 | 40 | 1209 |
| 7/6/1976 | 1976 | 7 | 6 | 36 | 56 | 88 | 72 | 40 | 1249 |
| 7/7/1976 | 1976 | 7 | 7 | 37 | 55 | 89 | 72 | 40 | 1289 |
| 7/8/1976 | 1976 | 7 | 8 | 38 | 56 | 91 | 73.5 | 41.5 | 1330.5 |
| 7/9/1976 | 1976 | 7 | 9 | 39 | 57 | 90 | 73.5 | 41.5 | 1372 |
| 7/10/1976 | 1976 | 7 | 10 | 40 | 58 | 90 | 74 | 42 | 1414 |
| 7/11/1976 | 1976 | 7 | 11 | 41 | 57 | 90 | 73.5 | 41.5 | 1455.5 |
| 7/12/1976 | 1976 | 7 | 12 | 42 | 52 | 85 | 68.5 | 36.5 | 1492 |
| 7/13/1976 | 1976 | 7 | 13 | 43 | 55 | 85 | 70 | 38 | 1530 |
| 7/14/1976 | 1976 | 7 | 14 | 44 | 52 | 85 | 68.5 | 36.5 | 1566.5 |
| 7/15/1976 | 1976 | 7 | 15 | 45 | 53 | 86 | 69.5 | 37.5 | 1604 |
| 7/16/1976 | 1976 | 7 | 16 | 46 | 56 | 86 | 71 | 39 | 1643 |
| 7/17/1976 | 1976 | 7 | 17 | 47 | 56 | 82 | 69 | 37 | 1680 |
| 7/18/1976 | 1976 | 7 | 18 | 48 | 57 | 83 | 70 | 38 | 1718 |
| 7/19/1976 | 1976 | 7 | 19 | 49 | 56 | 84 | 70 | 38 | 1756 |
| 7/20/1976 | 1976 | 7 | 20 | 50 | 57 | 80 | 68.5 | 36.5 | 1792.5 |
| 7/21/1976 | 1976 | 7 | 21 | 51 | 50 | 79 | 64.5 | 32.5 | 1825 |
| 7/22/1976 | 1976 | 7 | 22 | 52 | 52 | 80 | 66 | 34 | 1859 |
| 7/23/1976 | 1976 | 7 | 23 | 53 | 56 | 72 | 64 | 32 | 1891 |
| 7/24/1976 | 1976 | 7 | 24 | 54 | 51 | 81 | 66 | 34 | 1925 |
| 7/25/1976 | 1976 | 7 | 25 | 55 | 52 | 76 | 64 | 32 | 1957 |
| 7/26/1976 | 1976 | 7 | 26 | 56 | 52 | 78 | 65 | 33 | 1990 |
| 7/27/1976 | 1976 | 7 | 27 | 57 | 51 | 81 | 66 | 34 | 2024 |
| 7/28/1976 | 1976 | 7 | 28 | 58 | 50 | 76 | 63 | 31 | 2055 |
| 7/29/1976 | 1976 | 7 | 29 | 59 | 52 | 77 | 64.5 | 32.5 | 2087.5 |
| 7/30/1976 | 1976 | 7 | 30 | 60 | 54 | 86 | 70 | 38 | 2125.5 |
| 7/31/1976 | 1976 | 7 | 31 | 61 | 53.5 | 70 | 61.75 | 29.75 | 2155.25 |
| 8/1/1976 | 1976 | 8 | 1 | 62 | 53 | 66 | 59.5 | 27.5 | 2182.75 |
| 8/2/1976 | 1976 | 8 | 2 | 63 | 49 | 80 | 64.5 | 32.5 | 2215.25 |
| 8/3/1976 | 1976 | 8 | 3 | 64 | 50 | 76 | 63 | 31 | 2246.25 |
| 8/4/1976 | 1976 | 8 | 4 | 65 | 46 | 68 | 57 | 25 | 2271.25 |
| 8/5/1976 | 1976 | 8 | 5 | 66 | 48 | 81 | 64.5 | 32.5 | 2303.75 |
| 8/6/1976 | 1976 | 8 | 6 | 67 | 49 | 82 | 65.5 | 33.5 | 2337.25 |
| 8/7/1976 | 1976 | 8 | 7 | 68 | 58 | 85 | 71.5 | 39.5 | 2376.75 |
| 8/8/1976 | 1976 | 8 | 8 | 69 | 50 | 72 | 61 | 29 | 2405.75 |
| 8/9/1976 | 1976 | 8 | 9 | 70 | 51 | 73 | 62 | 30 | 2435.75 |
| 8/10/1976 | 1976 | 8 | 10 | 71 | 52 | 80 | 66 | 34 | 2469.75 |
| 8/11/1976 | 1976 | 8 | 11 | 72 | 50 | 82 | 66 | 34 | 2503.75 |
| 8/12/1976 | 1976 | 8 | 12 | 73 | 54 | 85 | 69.5 | 37.5 | 2541.25 |
| 8/13/1976 | 1976 | 8 | 13 | 74 | 55 | 87 | 71 | 39 | 2580.25 |
| 8/14/1976 | 1976 | 8 | 14 | 75 | 52 | 83 | 67.5 | 35.5 | 2615.75 |
| 8/15/1976 | 1976 | 8 | 15 | 76 | 53 | 82 | 67.5 | 35.5 | 2651.25 |
| 8/16/1976 | 1976 | 8 | 16 | 77 | 49 | 83 | 66 | 34 | 2685.25 |
| 8/17/1976 | 1976 | 8 | 17 | 78 | 60 | 79 | 69.5 | 37.5 | 2722.75 |
| 8/18/1976 | 1976 | 8 | 18 | 79 | 52 | 69 | 60.5 | 28.5 | 2751.25 |
| 8/19/1976 | 1976 | 8 | 19 | 80 | 53 | 70 | 61.5 | 29.5 | 2780.75 |
| 8/20/1976 | 1976 | 8 | 20 | 81 | 52 | 74 | 63 | 31 | 2811.75 |
| 8/21/1976 | 1976 | 8 | 21 | 82 | 51 | 83 | 67 | 35 | 2846.75 |
| 8/22/1976 | 1976 | 8 | 22 | 83 | 54 | 82 | 68 | 36 | 2882.75 |
| 8/23/1976 | 1976 | 8 | 23 | 84 | 52 | 81 | 66.5 | 34.5 | 2917.25 |
| 8/24/1976 | 1976 | 8 | 24 | 85 | 50 | 79 | 64.5 | 32.5 | 2949.75 |
| 8/25/1976 | 1976 | 8 | 25 | 86 | 49 | 81 | 65 | 33 | 2982.75 |
| 8/26/1976 | 1976 | 8 | 26 | 87 | 54 | 83 | 68.5 | 36.5 | 3019.25 |
| 8/27/1976 | 1976 | 8 | 27 | 88 | 53 | 78 | 65.5 | 33.5 | 3052.75 |
| 8/28/1976 | 1976 | 8 | 28 | 89 | 51 | 77 | 64 | 32 | 3084.75 |
| 8/29/1976 | 1976 | 8 | 29 | 90 | 47 | 79 | 63 | 31 | 3115.75 |
| 8/30/1976 | 1976 | 8 | 30 | 91 | 47 | 79 | 63 | 31 | 3146.75 |
| 8/31/1976 | 1976 | 8 | 31 | 92 | 50 | 80 | 65 | 33 | 3179.75 |
| 9/1/1976 | 1976 | 9 | 1 | 93 | 49 | 78 | 63.5 | 31.5 | 3211.25 |
| 9/2/1976 | 1976 | 9 | 2 | 94 | 45 | 75 | 60 | 28 | 3239.25 |
| 9/3/1976 | 1976 | 9 | 3 | 95 | 48 | 84 | 66 | 34 | 3273.25 |
| 9/4/1976 | 1976 | 9 | 4 | 96 | 54 | 83 | 68.5 | 36.5 | 3309.75 |
| 9/5/1976 | 1976 | 9 | 5 | 97 | 52 | 81 | 66.5 | 34.5 | 3344.25 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/6/1976 | 1976 | 9 | 6 | 98 | 55 | 73 | 64 | 32 | 3376.25 |
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| 9/8/1976 | 1976 | 9 | 8 | 100 | 52 | 76 | 64 | 32 | 3438.75 |
| 9/9/1976 | 1976 | 9 | 9 | 101 | 53 | 74 | 63.5 | 31.5 | 3470.25 |
| 9/10/1976 | 1976 | 9 | 10 | 102 | 49 | 67 | 58 | 26 | 3496.25 |
| 9/11/1976 | 1976 | 9 | 11 | 103 | 42 | 69 | 55.5 | 23.5 | 3519.75 |
| 9/12/1976 | 1976 | 9 | 12 | 104 | 46 | 75 | 60.5 | 28.5 | 3548.25 |
| 9/13/1976 | 1976 | 9 | 13 | 105 | 47 | 79 | 63 | 31 | 3579.25 |
| 9/14/1976 | 1976 | 9 | 14 | 106 | 52 | 78 | 65 | 33 | 3612.25 |
| 9/15/1976 | 1976 | 9 | 15 | 107 | 50 | 77 | 63.5 | 31.5 | 3643.75 |
| 9/16/1976 | 1976 | 9 | 16 | 108 | 49 | 76 | 62.5 | 30.5 | 3674.25 |
| 9/17/1976 | 1976 | 9 | 17 | 109 | 48 | 75 | 61.5 | 29.5 | 3703.75 |
| 9/18/1976 | 1976 | 9 | 18 | 110 | 49 | 70 | 59.5 | 27.5 | 3731.25 |
| 9/19/1976 | 1976 | 9 | 19 | 111 | 48 | 71 | 59.5 | 27.5 | 3758.75 |
| 9/20/1976 | 1976 | 9 | 20 | 112 | 45 | 70 | 57.5 | 25.5 | 3784.25 |
| 9/21/1976 | 1976 | 9 | 21 | 113 | 46 | 76 | 61 | 29 | 3813.25 |
| 9/22/1976 | 1976 | 9 | 22 | 114 | 44 | 67 | 55.5 | 23.5 | 3836.75 |
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| 9/24/1976 | 1976 | 9 | 24 | 116 | 48 | 67 | 57.5 | 25.5 | 3887.75 |
| 9/25/1976 | 1976 | 9 | 25 | 117 | 46 | 65 | 55.5 | 23.5 | 3911.25 |
| 9/26/1976 | 1976 | 9 | 26 | 118 | 45 | 64 | 54.5 | 22.5 | 3933.75 |
| 9/27/1976 | 1976 | 9 | 27 | 119 | 42 | 61 | 51.5 | 19.5 | 3953.25 |
| 9/28/1976 | 1976 | 9 | 28 | 120 | 35 | 65 | 50 | 18 | 3971.25 |
| 9/29/1976 | 1976 | 9 | 29 | 121 | 40 | 70 | 55 | 23 | 3994.25 |
| 9/30/1976 | 1976 | 9 | 30 | 122 | 41 | 74 | 57.5 | 25.5 | 4019.75 |
| 10/1/1976 | 1976 | 10 | 1 | 123 | 45 | 69 | 57 | 25 | 4044.75 |
| 10/2/1976 | 1976 | 10 | 2 | 124 | 51 | 65 | 58 | 26 | 4070.75 |
| 10/3/1976 | 1976 | 10 | 3 | 125 | 43 | 64 | 53.5 | 21.5 | 4092.25 |
| 10/4/1976 | 1976 | 10 | 4 | 126 | 36 | 66 | 51 | 19 | 4111.25 |
| 10/5/1976 | 1976 | 10 | 5 | 127 | 38 | 67 | 52.5 | 20.5 | 4131.75 |
| 10/6/1976 | 1976 | 10 | 6 | 128 | 30 | 64 | 47 | 15 | 4146.75 |
| 10/7/1976 | 1976 | 10 | 7 | 129 | 28 | 66 | 47 | 15 | 4161.75 |
| 10/8/1976 | 1976 | 10 | 8 | 130 | 34 | 69 | 51.5 | 19.5 | 4181.25 |
| 10/9/1976 | 1976 | 10 | 9 | 131 | 39 | 75 | 57 | 25 | 4206.25 |
| 10/10/1976 | 1976 | 10 | 10 | 132 | 36 | 74 | 55 | 23 | 4229.25 |
| 10/11/1976 | 1976 | 10 | 11 | 133 | 39 | 69 | 54 | 22 | 4251.25 |
| 10/12/1976 | 1976 | 10 | 12 | 134 | 37 | 67 | 52 | 20 | 4271.25 |
| 10/13/1976 | 1976 | 10 | 13 | 135 | 35 | 68 | 51.5 | 19.5 | 4290.75 |
| 10/14/1976 | 1976 | 10 | 14 | 136 | 36 | 67 | 51.5 | 19.5 | 4310.25 |
| 10/15/1976 | 1976 | 10 | 15 | 137 | 38 | 61 | 49.5 | 17.5 | 4327.75 |
| 10/16/1976 | 1976 | 10 | 16 | 138 | 25 | 50 | 37.5 | 5.5 | 4333.25 |
| 10/17/1976 | 1976 | 10 | 17 | 139 | 24 | 52 | 38 | 6 | 4339.25 |
| 10/18/1976 | 1976 | 10 | 18 | 140 | 23 | 59 | 41 | 9 | 4348.25 |
| 10/19/1976 | 1976 | 10 | 19 | 141 | 26 | 60 | 43 | 11 | 4359.25 |
| 10/20/1976 | 1976 | 10 | 20 | 142 | 30 | 58 | 44 | 12 | 4371.25 |
| 10/21/1976 | 1976 | 10 | 21 | 143 | 30 | 60 | 45 | 13 | 4384.25 |
| 10/22/1976 | 1976 | 10 | 22 | 144 | 34 | 59 | 46.5 | 14.5 | 4398.75 |
| 10/23/1976 | 1976 | 10 | 23 | 145 | 36 | 55 | 45.5 | 13.5 | 4412.25 |
| 10/24/1976 | 1976 | 10 | 24 | 146 | 29 | 57 | 43 | 11 | 4423.25 |
| 10/25/1976 | 1976 | 10 | 25 | 147 | 28 | 55 | 41.5 | 9.5 | 4432.75 |
| 10/26/1976 | 1976 | 10 | 26 | 148 | 24 | 41 | 32.5 | 0.5 | 4433.25 |
| 10/27/1976 | 1976 | 10 | 27 | 149 | 27 | 39 | 72.5 | 40.5 | 4473.75 |
| 10/28/1976 | 1976 | 10 | 28 | 150 | 22 | 49 | 35.5 | 3.5 | 4477.25 |
| 10/29/1976 | 1976 | 10 | 29 | 151 | 28 | 58 | 43 | 11 | 4488.25 |
| 10/30/1976 | 1976 | 10 | 30 | 152 | 28 | 56 | 42 | 10 | 4498.25 |
| 10/31/1976 | 1976 | 10 | 31 | 153 | 27 | 52 | 39.5 | 7.5 | 4505.75 |
| 11/1/1976 | 1976 | 11 | 1 | 154 | 23 | 59 | 41 | 9 | 4514.75 |
| 11/2/1976 | 1976 | 11 | 2 | 155 | 29 | 56 | 42.5 | 10.5 | 4525.25 |
| 11/3/1976 | 1976 | 11 | 3 | 156 | 30 | 60 | 45 | 13 | 4538.25 |
| 11/4/1976 | 1976 | 11 | 4 | 157 | 29 | 60 | 44.5 | 12.5 | 4550.75 |
| 11/5/1976 | 1976 | 11 | 5 | 158 | 31 | 62 | 46.5 | 14.5 | 4565.25 |
| 11/6/1976 | 1976 | 11 | 6 | 159 | 30 | 64 | 47 | 15 | 4580.25 |
| 11/7/1976 | 1976 | 11 | 7 | 160 | 29 | 66 | 47.5 | 15.5 | 4595.75 |
| 11/8/1976 | 1976 | 11 | 8 | 161 | 30 | 60 | 45 | 13 | 4608.75 |
| 11/9/1976 | 1976 | 11 | 9 | 162 | 25 | 65 | 45 | 13 | 4621.75 |
| 11/10/1976 | 1976 | 11 | 10 | 163 | 32 | 63 | 47.5 | 15.5 | 4637.25 |
| 11/11/1976 | 1976 | 11 | 11 | 164 | 30 | 57 | 43.5 | 11.5 | 4648.75 |
| 11/12/1976 | 1976 | 11 | 12 | 165 | 25 | 48 | 36.5 | 4.5 | 4653.25 |
| 11/13/1976 | 1976 | 11 | 13 | 166 | 25 | 44 | 34.5 | 2.5 | 4655.75 |
| 11/14/1976 | 1976 | 11 | 14 | 167 | 20 | 48 | 34 | 2 | 4657.75 |
| 11/15/1976 | 1976 | 11 | 15 | 168 | 20 | 40 | 30 | -2 | 4655.75 |
| 11/16/1976 | 1976 | 11 | 16 | 169 | 11 | 40 | 25.5 | -6.5 | 4649.25 |
| 11/17/1976 | 1976 | 11 | 17 | 170 | 22 | 52 | 37 | 5 | 4654.25 |
| 11/18/1976 | 1976 | 11 | 18 | 171 | 19 | 51 | 35 | 3 | 4657.25 |
| 11/19/1976 | 1976 | 11 | 19 | 172 | 26 | 57 | 41.5 | 9.5 | 4666.75 |
| 11/20/1976 | 1976 | 11 | 20 | 173 | 27 | 56 | 41.5 | 9.5 | 4676.25 |
| 11/21/1976 | 1976 | 11 | 21 | 174 | 31 | 59 | 45 | 13 | 4689.25 |
| 11/22/1976 | 1976 | 11 | 22 | 175 | 28 | 56 | 42 | 10 | 4699.25 |
| 11/23/1976 | 1976 | 11 | 23 | 176 | 26 | 49 | 37.5 | 5.5 | 4704.75 |
| 11/24/1976 | 1976 | 11 | 24 | 177 | 28 | 50 | 39 | 7 | 4711.75 |
| 11/25/1976 | 1976 | 11 | 25 | 178 | 25 | 50 | 37.5 | 5.5 | 4717.25 |
| 11/26/1976 | 1976 | 11 | 26 | 179 | 29 | 48 | 38.5 | 6.5 | 4723.75 |
| 11/27/1976 | 1976 | 11 | 27 | 180 | -9 | 32 | 11.5 | -20.5 | 4703.25 |
| 11/28/1976 | 1976 | 11 | 28 | 181 | -10 | 32 | 11 | -21 | 4682.25 |
| 11/29/1976 | 1976 | 11 | 29 | 182 | -9 | 30 | 10.5 | -21.5 | 4660.75 |
| 11/30/1976 | 1976 | 11 | 30 | 183 | 7 | 32 | 19.5 | -12.5 | 4648.25 |
| 12/1/1976 | 1976 | 12 | 1 | 184 | 9 | 34 | 21.5 | -10.5 | 4637.75 |
| 12/2/1976 | 1976 | 12 | 2 | 185 | 8 | 35 | 21.5 | -10.5 | 4627.25 |
| 12/3/1976 | 1976 | 12 | 3 | 186 | 12 | 39 | 25.5 | -6.5 | 4620.75 |
| 12/4/1976 | 1976 | 12 | 4 | 187 | 0 | 38 | 19 | -13 | 4607.75 |
| 12/5/1976 | 1976 | 12 | 5 | 188 | -2 | 19 | 8.5 | -23.5 | 4584.25 |
| 12/6/1976 | 1976 | 12 | 6 | 189 | 10 | 22 | 16 | -16 | 4568.25 |
| 12/7/1976 | 1976 | 12 | 7 | 190 | 12 | 30 | 21 | -11 | 4557.25 |

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|---|---|---|---|---|---|---|---|---|---|
| 12/8/1976 | 1976 | 12 | 8 | 191 | 12 | 36 | 24 | -8 | 4549.25 |
| 12/9/1976 | 1976 | 12 | 9 | 192 | 23 | 40 | 31.5 | -0.5 | 4548.75 |
| 12/10/1976 | 1976 | 12 | 10 | 193 | 9 | 40 | 24.5 | -7.5 | 4541.25 |
| 12/11/1976 | 1976 | 12 | 11 | 194 | 8 | 32 | 20 | -12 | 4529.25 |
| 12/12/1976 | 1976 | 12 | 12 | 195 | 8 | 39 | 23.5 | -8.5 | 4520.75 |
| 12/13/1976 | 1976 | 12 | 13 | 196 | 9 | 38 | 23.5 | -8.5 | 4512.25 |
| 12/14/1976 | 1976 | 12 | 14 | 197 | 10 | 35 | 22.5 | -9.5 | 4502.75 |
| 12/15/1976 | 1976 | 12 | 15 | 198 | 13 | 36 | 24.5 | -7.5 | 4495.25 |
| 12/16/1976 | 1976 | 12 | 16 | 199 | 12 | 39 | 25.5 | -6.5 | 4488.75 |
| 12/17/1976 | 1976 | 12 | 17 | 200 | 16 | 35 | 25.5 | -6.5 | 4482.25 |
| 12/18/1976 | 1976 | 12 | 18 | 201 | 17 | 37 | 27 | -5 | 4477.25 |
| 12/19/1976 | 1976 | 12 | 19 | 202 | 10 | 39 | 24.5 | -7.5 | 4469.75 |
| 12/20/1976 | 1976 | 12 | 20 | 203 | 11 | 34 | 22.5 | -9.5 | 4460.25 |
| 12/21/1976 | 1976 | 12 | 21 | 204 | 12 | 39 | 25.5 | -6.5 | 4453.75 |
| 12/22/1976 | 1976 | 12 | 22 | 205 | 12 | 40 | 26 | -6 | 4447.75 |
| 12/23/1976 | 1976 | 12 | 23 | 206 | 11 | 34 | 22.5 | -9.5 | 4438.25 |
| 12/24/1976 | 1976 | 12 | 24 | 207 | 10 | 37 | 23.5 | -8.5 | 4429.75 |
| 12/25/1976 | 1976 | 12 | 25 | 208 | 10 | 36 | 23 | -9 | 4420.75 |
| 12/26/1976 | 1976 | 12 | 26 | 209 | 11 | 35 | 23 | -9 | 4411.75 |
| 12/27/1976 | 1976 | 12 | 27 | 210 | 8 | 32 | 20 | -12 | 4399.75 |
| 12/28/1976 | 1976 | 12 | 28 | 211 | 9 | 33 | 21 | -11 | 4388.75 |
| 12/29/1976 | 1976 | 12 | 29 | 212 | 10 | 30 | 20 | -12 | 4376.75 |
| 12/30/1976 | 1976 | 12 | 30 | 213 | 11 | 32 | 21.5 | -10.5 | 4366.25 |
| 12/31/1976 | 1976 | 12 | 31 | 214 | 11 | 32 | 21.5 | -10.5 | 4355.75 |
| 1/1/1977 | 1977 | 1 | 1 | 215 | 11 | 30 | 20.5 | -11.5 | 4344.25 |
| 1/2/1977 | 1977 | 1 | 2 | 216 | 10 | 39 | 24.5 | -7.5 | 4336.75 |
| 1/3/1977 | 1977 | 1 | 3 | 217 | 11 | 36 | 23.5 | -8.5 | 4328.25 |
| 1/4/1977 | 1977 | 1 | 4 | 218 | 11 | 30 | 20.5 | -11.5 | 4316.75 |
| 1/5/1977 | 1977 | 1 | 5 | 219 | 10 | 36 | 23 | -9 | 4307.75 |
| 1/6/1977 | 1977 | 1 | 6 | 220 | 10 | 36 | 23 | -9 | 4298.75 |
| 1/7/1977 | 1977 | 1 | 7 | 221 | -1 | 25 | 12 | -20 | 4278.75 |
| 1/8/1977 | 1977 | 1 | 8 | 222 | 5 | 25 | 15 | -17 | 4261.75 |
| 1/9/1977 | 1977 | 1 | 9 | 223 | 9 | 30 | 19.5 | -12.5 | 4249.25 |
| 1/10/1977 | 1977 | 1 | 10 | 224 | -10 | 29 | 9.5 | -22.5 | 4226.75 |
| 1/11/1977 | 1977 | 1 | 11 | 225 | -4 | 34 | 15 | -17 | 4209.75 |
| 1/12/1977 | 1977 | 1 | 12 | 226 | -9 | 39 | 15 | -17 | 4192.75 |
| 1/13/1977 | 1977 | 1 | 13 | 227 | -10 | 35 | 12.5 | -19.5 | 4173.25 |
| 1/14/1977 | 1977 | 1 | 14 | 228 | -10 | 32 | 11 | -21 | 4152.25 |
| 1/15/1977 | 1977 | 1 | 15 | 229 | -10 | 32 | 11 | -21 | 4131.25 |
| 1/16/1977 | 1977 | 1 | 16 | 230 | -11 | 39 | 14 | -18 | 4113.25 |
| 1/17/1977 | 1977 | 1 | 17 | 231 | 12 | 40 | 26 | -6 | 4107.25 |
| 1/18/1977 | 1977 | 1 | 18 | 232 | 12 | 39 | 25.5 | -6.5 | 4100.75 |
| 1/19/1977 | 1977 | 1 | 19 | 233 | 13 | 39 | 26 | -6 | 4094.75 |
| 1/20/1977 | 1977 | 1 | 20 | 234 | 12 | 38 | 25 | -7 | 4087.75 |
| 1/21/1977 | 1977 | 1 | 21 | 235 | 22 | 40 | 31 | -1 | 4086.75 |
| 1/22/1977 | 1977 | 1 | 22 | 236 | 20 | 39 | 29.5 | -2.5 | 4084.25 |
| 1/23/1977 | 1977 | 1 | 23 | 237 | 25 | 37 | 31 | -1 | 4083.25 |
| 1/24/1977 | 1977 | 1 | 24 | 238 | 25 | 39 | 32 | 0 | 4083.25 |
| 1/25/1977 | 1977 | 1 | 25 | 239 | 12 | 36 | 24 | -8 | 4075.25 |
| 1/26/1977 | 1977 | 1 | 26 | 240 | 15 | 38 | 26.5 | -5.5 | 4069.75 |
| 1/27/1977 | 1977 | 1 | 27 | 241 | 19 | 37 | 28 | -4 | 4065.75 |
| 1/28/1977 | 1977 | 1 | 28 | 242 | 17 | 40 | 28.5 | -3.5 | 4062.25 |
| 1/29/1977 | 1977 | 1 | 29 | 243 | 13 | 40 | 26.5 | -5.5 | 4056.75 |
| 1/30/1977 | 1977 | 1 | 30 | 244 | 13 | 39 | 26 | -6 | 4050.75 |
| 1/31/1977 | 1977 | 1 | 31 | 245 | 18 | 40 | 29 | -3 | 4047.75 |
| 2/1/1977 | 1977 | 2 | 1 | 246 | 21 | 48 | 34.5 | 2.5 | 4050.25 |
| 2/2/1977 | 1977 | 2 | 2 | 247 | 20 | 39 | 29.5 | -2.5 | 4047.75 |
| 2/3/1977 | 1977 | 2 | 3 | 248 | 17 | 37 | 27 | -5 | 4042.75 |
| 2/4/1977 | 1977 | 2 | 4 | 249 | 15 | 35 | 25 | -7 | 4035.75 |
| 2/5/1977 | 1977 | 2 | 5 | 250 | 14 | 32 | 23 | -9 | 4026.75 |
| 2/6/1977 | 1977 | 2 | 6 | 251 | 13 | 30 | 21.5 | -10.5 | 4016.25 |
| 2/7/1977 | 1977 | 2 | 7 | 252 | 12 | 32 | 22 | -10 | 4006.25 |
| 2/8/1977 | 1977 | 2 | 8 | 253 | 15 | 37 | 26 | -6 | 4000.25 |
| 2/9/1977 | 1977 | 2 | 9 | 254 | 14 | 35 | 24.5 | -7.5 | 3992.75 |
| 2/10/1977 | 1977 | 2 | 10 | 255 | 19 | 40 | 29.5 | -2.5 | 3990.25 |
| 2/11/1977 | 1977 | 2 | 11 | 256 | 20 | 40 | 30 | -2 | 3988.25 |
| 2/12/1977 | 1977 | 2 | 12 | 257 | 21 | 44 | 32.5 | 0.5 | 3988.75 |
| 2/13/1977 | 1977 | 2 | 13 | 258 | 20 | 49 | 34.5 | 2.5 | 3991.25 |
| 2/14/1977 | 1977 | 2 | 14 | 259 | 20 | 49 | 34.5 | 2.5 | 3993.75 |
| 2/15/1977 | 1977 | 2 | 15 | 260 | 20 | 49 | 34.5 | 2.5 | 3996.25 |
| 2/16/1977 | 1977 | 2 | 16 | 261 | 28 | 50 | 39 | 7 | 4003.25 |
| 2/17/1977 | 1977 | 2 | 17 | 262 | 29 | 54 | 41.5 | 9.5 | 4012.75 |
| 2/18/1977 | 1977 | 2 | 18 | 263 | 29 | 59 | 44 | 12 | 4024.75 |
| 2/19/1977 | 1977 | 2 | 19 | 264 | 27 | 58 | 42.5 | 10.5 | 4035.25 |
| 2/20/1977 | 1977 | 2 | 20 | 265 | 28 | 60 | 44 | 12 | 4047.25 |
| 2/21/1977 | 1977 | 2 | 21 | 266 | 27 | 61 | 44 | 12 | 4059.25 |
| 2/22/1977 | 1977 | 2 | 22 | 267 | 11 | 59 | 35 | 3 | 4062.25 |
| 2/23/1977 | 1977 | 2 | 23 | 268 | 10 | 30 | 20 | -12 | 4050.25 |
| 2/24/1977 | 1977 | 2 | 24 | 269 | 8 | 29 | 18.5 | -13.5 | 4036.75 |
| 2/25/1977 | 1977 | 2 | 25 | 270 | 12 | 30 | 21 | -11 | 4025.75 |
| 2/26/1977 | 1977 | 2 | 26 | 271 | 10 | 29 | 19.5 | -12.5 | 4013.25 |
| 2/27/1977 | 1977 | 2 | 27 | 272 | 12 | 39 | 25.5 | -6.5 | 4006.75 |
| 2/28/1977 | 1977 | 2 | 28 | 273 | 10 | 40 | 25 | -7 | 3999.75 |
| 3/1/1977 | 1977 | 3 | 1 | 274 | 20 | 45 | 32.5 | 0.5 | 4000.25 |
| 3/2/1977 | 1977 | 3 | 2 | 275 | 10 | 40 | 25 | -7 | 3993.25 |
| 3/3/1977 | 1977 | 3 | 3 | 276 | 12 | 36 | 24 | -8 | 3985.25 |
| 3/4/1977 | 1977 | 3 | 4 | 277 | 15 | 34 | 24.5 | -7.5 | 3977.75 |
| 3/5/1977 | 1977 | 3 | 5 | 278 | 18 | 32 | 25 | -7 | 3970.75 |
| 3/6/1977 | 1977 | 3 | 6 | 279 | 12 | 40 | 26 | -6 | 3964.75 |
| 3/7/1977 | 1977 | 3 | 7 | 280 | 15 | 39 | 27 | -5 | 3959.75 |
| 3/8/1977 | 1977 | 3 | 8 | 281 | 18 | 40 | 29 | -3 | 3956.75 |
| 3/9/1977 | 1977 | 3 | 9 | 282 | 19 | 42 | 30.5 | -1.5 | 3955.25 |
| 3/10/1977 | 1977 | 3 | 10 | 283 | 20 | 40 | 30 | -2 | 3953.25 |

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| 3/11/1977 | 1977 | 3 | 11 | 284 | 10 | 39 | 24.5 | -7.5 | 3945.75 |
| 3/12/1977 | 1977 | 3 | 12 | 285 | 16 | 49 | 32.5 | 0.5 | 3946.25 |
| 3/13/1977 | 1977 | 3 | 13 | 286 | 19 | 32 | 25.5 | -6.5 | 3939.75 |
| 3/14/1977 | 1977 | 3 | 14 | 287 | 19 | 42 | 30.5 | -1.5 | 3938.25 |
| 3/15/1977 | 1977 | 3 | 15 | 288 | 20 | 42 | 31 | -1 | 3937.25 |
| 3/16/1977 | 1977 | 3 | 16 | 289 | 20 | 45 | 32.5 | 0.5 | 3937.75 |
| 3/17/1977 | 1977 | 3 | 17 | 290 | 28 | 49 | 38.5 | 6.5 | 3944.25 |
| 3/18/1977 | 1977 | 3 | 18 | 291 | 20 | 46 | 33 | 1 | 3945.25 |
| 3/19/1977 | 1977 | 3 | 19 | 292 | 19 | 42 | 30.5 | -1.5 | 3943.75 |
| 3/20/1977 | 1977 | 3 | 20 | 293 | 19 | 48 | 33.5 | 1.5 | 3945.25 |
| 3/21/1977 | 1977 | 3 | 21 | 294 | 18 | 46 | 32 | 0 | 3945.25 |
| 3/22/1977 | 1977 | 3 | 22 | 295 | 20 | 54 | 37 | 5 | 3950.25 |
| 3/23/1977 | 1977 | 3 | 23 | 296 | 32 | 52 | 42 | 10 | 3960.25 |
| 3/24/1977 | 1977 | 3 | 24 | 297 | 30 | 49 | 39.5 | 7.5 | 3967.75 |
| 3/25/1977 | 1977 | 3 | 25 | 298 | 32 | 50 | 41 | 9 | 3976.75 |
| 3/26/1977 | 1977 | 3 | 26 | 299 | 28 | 51 | 39.5 | 7.5 | 3984.25 |
| 3/27/1977 | 1977 | 3 | 27 | 300 | 32 | 40 | 36 | 4 | 3988.25 |
| 3/28/1977 | 1977 | 3 | 28 | 301 | 27 | 50 | 38.5 | 6.5 | 3994.75 |
| 3/29/1977 | 1977 | 3 | 29 | 302 | 20 | 37 | 28.5 | -3.5 | 3991.25 |
| 3/30/1977 | 1977 | 3 | 30 | 303 | 16 | 31 | 23.5 | -8.5 | 3982.75 |
| 3/31/1977 | 1977 | 3 | 31 | 304 | 15 | 30 | 22.5 | -9.5 | 3973.25 |
| 4/1/1977 | 1977 | 4 | 1 | 305 | 26 | 40 | 33 | 1 | 3974.25 |
| 4/2/1977 | 1977 | 4 | 2 | 306 | 25 | 42 | 33.5 | 1.5 | 3975.75 |
| 4/3/1977 | 1977 | 4 | 3 | 307 | 26 | 43 | 34.5 | 2.5 | 3978.25 |
| 4/4/1977 | 1977 | 4 | 4 | 308 | 21 | | 21 | -11 | 3967.25 |
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| 4/11/1977 | 1977 | 4 | 11 | 315 | 31 | 74 | 52.5 | 20.5 | 4003.25 |
| 4/12/1977 | 1977 | 4 | 12 | 316 | 30 | 65 | 47.5 | 15.5 | 4018.75 |
| 4/13/1977 | 1977 | 4 | 13 | 317 | 33 | 69 | 51 | 19 | 4037.75 |
| 4/14/1977 | 1977 | 4 | 14 | 318 | 31 | 67 | 49 | 17 | 4054.75 |
| 4/15/1977 | 1977 | 4 | 15 | 319 | 35 | 69 | 52 | 20 | 4074.75 |
| 4/16/1977 | 1977 | 4 | 16 | 320 | 36 | 66 | 31.25 | -0.75 | 4074 |
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| 4/19/1977 | 1977 | 4 | 19 | 323 | 31 | 54 | 42.5 | 10.5 | 4111.5 |
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| 4/21/1977 | 1977 | 4 | 21 | 325 | 41 | 68 | 54.5 | 22.5 | 4152.5 |
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| 4/27/1977 | 1977 | 4 | 27 | 331 | 42 | 74 | 58 | 26 | 4281 |
| 4/28/1977 | 1977 | 4 | 28 | 332 | 45 | 72 | 58.5 | 26.5 | 4307.5 |
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| 4/30/1977 | 1977 | 4 | 30 | 334 | 40 | 76 | 58 | 26 | 4358 |
| 5/1/1977 | 1977 | 5 | 1 | 335 | 49 | 74 | 61.5 | 29.5 | 4387.5 |
| 5/2/1977 | 1977 | 5 | 2 | 336 | 40 | 76 | 58 | 26 | 4413.5 |
| 5/3/1977 | 1977 | 5 | 3 | 337 | 42 | 75 | 58.5 | 26.5 | 4440 |
| 5/4/1977 | 1977 | 5 | 4 | 338 | 42 | 69 | 55.5 | 23.5 | 4463.5 |
| 5/5/1977 | 1977 | 5 | 5 | 339 | 43 | 69 | 56 | 24 | 4487.5 |
| 5/6/1977 | 1977 | 5 | 6 | 340 | 38 | 70 | 54 | 22 | 4509.5 |
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| 5/8/1977 | 1977 | 5 | 8 | 342 | 38 | 72 | 55 | 23 | 4556.5 |
| 5/9/1977 | 1977 | 5 | 9 | 343 | 41 | 74 | 57.5 | 25.5 | 4582 |
| 5/10/1977 | 1977 | 5 | 10 | 344 | 48 | 76 | 62 | 30 | 4612 |
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| 5/18/1977 | 1977 | 5 | 18 | 352 | 38 | 70 | 54 | 22 | 4779 |
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| 5/22/1977 | 1977 | 5 | 22 | 356 | 32 | 69 | 50.5 | 18.5 | 4861.5 |
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| 5/25/1977 | 1977 | 5 | 25 | 359 | 46 | 70 | 58 | 26 | 4932.5 |
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| 6/6/1977 | 1977 | 6 | 6 | 6 | 55 | 81 | 68 | 36 | 211 |
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| 6/8/1977 | 1977 | 6 | 8 | 8 | 50 | 80 | 65 | 33 | 277.5 |
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| 6/11/1977 | 1977 | 6 | 11 | 11 | 51 | 81 | 66 | 34 | 379.5 |

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| 6/18/1977 | 1977 | 6 | 18 | 18 | 55 | 88 | 71.5 | 39.5 | 647.5 |
| 6/19/1977 | 1977 | 6 | 19 | 19 | 57 | 85 | 71 | 39 | 686.5 |
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| 6/21/1977 | 1977 | 6 | 21 | 21 | 51 | 81 | 66 | 34 | 761 |
| 6/22/1977 | 1977 | 6 | 22 | 22 | 54 | 78 | 66 | 34 | 795 |
| 6/23/1977 | 1977 | 6 | 23 | 23 | 48 | 75 | 61.5 | 29.5 | 824.5 |
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| 6/25/1977 | 1977 | 6 | 25 | 25 | 49 | 81 | 65 | 33 | 888 |
| 6/26/1977 | 1977 | 6 | 26 | 26 | 52 | 88 | 70 | 38 | 926 |
| 6/27/1977 | 1977 | 6 | 27 | 27 | 55 | 87 | 71 | 39 | 965 |
| 6/28/1977 | 1977 | 6 | 28 | 28 | 57 | 91 | 74 | 42 | 1007 |
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| 6/30/1977 | 1977 | 6 | 30 | 30 | 53 | 91 | 72 | 40 | 1087 |
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| 7/5/1977 | 1977 | 7 | 5 | 35 | 53 | 90 | 71.5 | 39.5 | 1295.5 |
| 7/6/1977 | 1977 | 7 | 6 | 36 | 52 | 83 | 67.5 | 35.5 | 1331 |
| 7/7/1977 | 1977 | 7 | 7 | 37 | 55 | 86 | 70.5 | 38.5 | 1369.5 |
| 7/8/1977 | 1977 | 7 | 8 | 38 | 56 | 87 | 71.5 | 39.5 | 1409 |
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| 7/17/1977 | 1977 | 7 | 17 | 47 | 55 | 81 | 68 | 36 | 1735 |
| 7/18/1977 | 1977 | 7 | 18 | 48 | 56 | 84 | 70 | 38 | 1773 |
| 7/19/1977 | 1977 | 7 | 19 | 49 | 55 | 81 | 68 | 36 | 1809 |
| 7/20/1977 | 1977 | 7 | 20 | 50 | 53 | 76 | 64.5 | 32.5 | 1841.5 |
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| 7/22/1977 | 1977 | 7 | 22 | 52 | 55 | 80 | 67.5 | 35.5 | 1911 |
| 7/23/1977 | 1977 | 7 | 23 | 53 | 53 | 79 | 66 | 34 | 1945 |
| 7/24/1977 | 1977 | 7 | 24 | 54 | 59 | 71 | 65 | 33 | 1978 |
| 7/25/1977 | 1977 | 7 | 25 | 55 | 53 | 77 | 65 | 33 | 2011 |
| 7/26/1977 | 1977 | 7 | 26 | 56 | 52 | 79 | 65.5 | 33.5 | 2044.5 |
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| 8/1/1977 | 1977 | 8 | 1 | 62 | 55 | 90 | 72.5 | 40.5 | 2278 |
| 8/2/1977 | 1977 | 8 | 2 | 63 | 55 | 90 | 72.5 | 40.5 | 2318.5 |
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| 8/5/1977 | 1977 | 8 | 5 | 66 | 59 | 86 | 72.5 | 40.5 | 2443.5 |
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| 8/8/1977 | 1977 | 8 | 8 | 69 | 55 | 86 | 70.5 | 38.5 | 2564 |
| 8/9/1977 | 1977 | 8 | 9 | 70 | 59 | 85 | 72 | 40 | 2604 |
| 8/10/1977 | 1977 | 8 | 10 | 71 | 58 | 80 | 69 | 37 | 2641 |
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| 8/18/1977 | 1977 | 8 | 18 | 79 | 55 | 70 | 62.5 | 30.5 | 2899.5 |
| 8/19/1977 | 1977 | 8 | 19 | 80 | 58 | 78 | 68 | 36 | 2935.5 |
| 8/20/1977 | 1977 | 8 | 20 | 81 | 53 | 72 | 62.5 | 30.5 | 2966 |
| 8/21/1977 | 1977 | 8 | 21 | 82 | 54 | 79 | 66.5 | 34.5 | 3000.5 |
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| 8/24/1977 | 1977 | 8 | 24 | 85 | 55 | 84 | 69.5 | 37.5 | 3108.5 |
| 8/25/1977 | 1977 | 8 | 25 | 86 | 56 | 81 | 68.5 | 36.5 | 3145 |
| 8/26/1977 | 1977 | 8 | 26 | 87 | 57 | 82 | 69.5 | 37.5 | 3182.5 |
| 8/27/1977 | 1977 | 8 | 27 | 88 | 58 | 80 | 69 | 37 | 3219.5 |
| 8/28/1977 | 1977 | 8 | 28 | 89 | 49 | 78 | 63.5 | 31.5 | 3251 |
| 8/29/1977 | 1977 | 8 | 29 | 90 | 48 | 80 | 64 | 32 | 3283 |
| 8/30/1977 | 1977 | 8 | 30 | 91 | 55 | 81 | 68 | 36 | 3319 |
| 8/31/1977 | 1977 | 8 | 31 | 92 | 55 | 80 | 67.5 | 35.5 | 3354.5 |
| 9/1/1977 | 1977 | 9 | 1 | 93 | 51 | 76 | 63.5 | 31.5 | 3386 |
| 9/2/1977 | 1977 | 9 | 2 | 94 | 57 | 73 | 65 | 33 | 3419 |
| 9/3/1977 | 1977 | 9 | 3 | 95 | 52 | 76 | 64 | 32 | 3451 |
| 9/4/1977 | 1977 | 9 | 4 | 96 | 55 | 75 | 65 | 33 | 3484 |
| 9/5/1977 | 1977 | 9 | 5 | 97 | 54 | 78 | 66 | 34 | 3518 |
| 9/6/1977 | 1977 | 9 | 6 | 98 | 51 | 79 | 65 | 33 | 3551 |
| 9/7/1977 | 1977 | 9 | 7 | 99 | 53 | 80 | 66.5 | 34.5 | 3585.5 |
| 9/8/1977 | 1977 | 9 | 8 | 100 | 54 | 81 | 67.5 | 35.5 | 3621 |
| 9/9/1977 | 1977 | 9 | 9 | 101 | 53 | 82 | 67.5 | 35.5 | 3656.5 |
| 9/10/1977 | 1977 | 9 | 10 | 102 | 54 | 79 | 66.5 | 34.5 | 3691 |
| 9/11/1977 | 1977 | 9 | 11 | 103 | 52 | 79 | 65.5 | 33.5 | 3724.5 |
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| 9/13/1977 | 1977 | 9 | 13 | 105 | 46 | 70 | 58 | 26 | 3778.5 |
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| 9/26/1977 | 1977 | 9 | 26 | 118 | 47 | 75 | 61 | 29 | 4138.5 |
| 9/27/1977 | 1977 | 9 | 27 | 119 | 51 | 72 | 61.5 | 29.5 | 4168 |
| 9/28/1977 | 1977 | 9 | 28 | 120 | 52 | 70 | 61 | 29 | 4197 |
| 9/29/1977 | 1977 | 9 | 29 | 121 | 46 | 75 | 60.5 | 28.5 | 4225.5 |
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| 10/2/1977 | 1977 | 10 | 2 | 124 | 41 | 69 | 55 | 23 | 4302 |
| 10/3/1977 | 1977 | 10 | 3 | 125 | 52 | 72 | 62 | 30 | 4332 |
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| 10/5/1977 | 1977 | 10 | 5 | 127 | 49 | 74 | 61.5 | 29.5 | 4387.5 |
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| 12/22/1977 | 1977 | 12 | 22 | 205 | 7 | 36 | 21.5 | -10.5 | 5198.5 |
| 12/23/1977 | 1977 | 12 | 23 | 206 | 5 | 40 | 22.5 | -9.5 | 5189 |
| 12/24/1977 | 1977 | 12 | 24 | 207 | 5 | 39 | 22 | -10 | 5179 |
| 12/25/1977 | 1977 | 12 | 25 | 208 | 10 | 38 | 24 | -8 | 5171 |
| 12/26/1977 | 1977 | 12 | 26 | 209 | 12 | 38 | 25 | -7 | 5164 |
| 12/27/1977 | 1977 | 12 | 27 | 210 | 30 | 38 | 34 | 2 | 5166 |
| 12/28/1977 | 1977 | 12 | 28 | 211 | 32 | 39 | 35.5 | 3.5 | 5169.5 |
| 12/29/1977 | 1977 | 12 | 29 | 212 | 32 | 40 | 36 | 4 | 5173.5 |
| 12/30/1977 | 1977 | 12 | 30 | 213 | 30 | 40 | 35 | 3 | 5176.5 |
| 12/31/1977 | 1977 | 12 | 31 | 214 | 30 | 40 | 35 | 3 | 5179.5 |
| 1/1/1978 | 1978 | 1 | 1 | 215 | 30 | 39 | 34.5 | 2.5 | 5182 |
| 1/2/1978 | 1978 | 1 | 2 | 216 | 19 | 40 | 29.5 | -2.5 | 5179.5 |
| 1/3/1978 | 1978 | 1 | 3 | 217 | 21 | 46 | 33.5 | 1.5 | 5181 |
| 1/4/1978 | 1978 | 1 | 4 | 218 | 20 | 40 | 30 | -2 | 5179 |
| 1/5/1978 | 1978 | 1 | 5 | 219 | 28 | 44 | 36 | 4 | 5183 |
| 1/6/1978 | 1978 | 1 | 6 | 220 | 27 | 42 | 34.5 | 2.5 | 5185.5 |
| 1/7/1978 | 1978 | 1 | 7 | 221 | 20 | 40 | 30 | -2 | 5183.5 |
| 1/8/1978 | 1978 | 1 | 8 | 222 | 21 | 40 | 30.5 | -1.5 | 5182 |
| 1/9/1978 | 1978 | 1 | 9 | 223 | 22 | 45 | 33.5 | 1.5 | 5183.5 |
| 1/10/1978 | 1978 | 1 | 10 | 224 | 29 | 46 | 37.5 | 5.5 | 5189 |
| 1/11/1978 | 1978 | 1 | 11 | 225 | 22 | 40 | 31 | -1 | 5188 |
| 1/12/1978 | 1978 | 1 | 12 | 226 | 25 | 41 | 33 | 1 | 5189 |
| 1/13/1978 | 1978 | 1 | 13 | 227 | 20 | 37 | 28.5 | -3.5 | 5185.5 |
| 1/14/1978 | 1978 | 1 | 14 | 228 | 21 | 34 | 27.5 | -4.5 | 5181 |
| 1/15/1978 | 1978 | 1 | 15 | 229 | 26 | 39 | 32.5 | 0.5 | 5181.5 |
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| 1/17/1978 | 1978 | 1 | 17 | 231 | 29 | 37 | 33 | 1 | 5180 |
| 1/18/1978 | 1978 | 1 | 18 | 232 | 28 | 35 | 31.5 | -0.5 | 5179.5 |
| 1/19/1978 | 1978 | 1 | 19 | 233 | 20 | 34 | 27 | -5 | 5174.5 |
| 1/20/1978 | 1978 | 1 | 20 | 234 | 14 | 34 | 24 | -8 | 5166.5 |
| 1/21/1978 | 1978 | 1 | 21 | 235 | 14 | 32 | 23 | -9 | 5157.5 |
| 1/22/1978 | 1978 | 1 | 22 | 236 | 13 | 36 | 24.5 | -7.5 | 5150 |
| 1/23/1978 | 1978 | 1 | 23 | 237 | 16 | 37 | 26.5 | -5.5 | 5144.5 |
| 1/24/1978 | 1978 | 1 | 24 | 238 | 8 | 35 | 21.5 | -10.5 | 5134 |
| 1/25/1978 | 1978 | 1 | 25 | 239 | 6 | 36 | 21 | -11 | 5123 |
| 1/26/1978 | 1978 | 1 | 26 | 240 | 10 | 42 | 26 | -6 | 5117 |
| 1/27/1978 | 1978 | 1 | 27 | 241 | 12 | 43 | 27.5 | -4.5 | 5112.5 |
| 1/28/1978 | 1978 | 1 | 28 | 242 | 19 | 39 | 29 | -3 | 5109.5 |
| 1/29/1978 | 1978 | 1 | 29 | 243 | 20 | 40 | 30 | -2 | 5107.5 |
| 1/30/1978 | 1978 | 1 | 30 | 244 | 20 | 42 | 31 | -1 | 5106.5 |
| 1/31/1978 | 1978 | 1 | 31 | 245 | 23 | 40 | 31.5 | -0.5 | 5106 |
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| 2/3/1978 | 1978 | 2 | 3 | 248 | 22 | 44 | 33 | 1 | 5110 |
| 2/4/1978 | 1978 | 2 | 4 | 249 | 19 | 42 | 30.5 | -1.5 | 5108.5 |
| 2/5/1978 | 1978 | 2 | 5 | 250 | 26 | 45 | 35.5 | 3.5 | 5112 |
| 2/6/1978 | 1978 | 2 | 6 | 251 | 27 | 43 | 35 | 3 | 5115 |
| 2/7/1978 | 1978 | 2 | 7 | 252 | 31 | 42 | 36.5 | 4.5 | 5119.5 |
| 2/8/1978 | 1978 | 2 | 8 | 253 | 30 | 45 | 37.5 | 5.5 | 5125 |
| 2/9/1978 | 1978 | 2 | 9 | 254 | 21 | 42 | 31.5 | -0.5 | 5124.5 |
| 2/10/1978 | 1978 | 2 | 10 | 255 | 30 | 49 | 39.5 | 7.5 | 5132 |
| 2/11/1978 | 1978 | 2 | 11 | 256 | 9 | 38 | 23.5 | -8.5 | 5123.5 |
| 2/12/1978 | 1978 | 2 | 12 | 257 | 10 | 30 | 20 | -12 | 5111.5 |
| 2/13/1978 | 1978 | 2 | 13 | 258 | 10 | 27 | 18.5 | -13.5 | 5098 |
| 2/14/1978 | 1978 | 2 | 14 | 259 | 11 | 25 | 18 | -14 | 5084 |
| 2/15/1978 | 1978 | 2 | 15 | 260 | 13 | 39 | 26 | -6 | 5078 |
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| 2/18/1978 | 1978 | 2 | 18 | 263 | -6 | 30 | 12 | -20 | 5041 |
| 2/19/1978 | 1978 | 2 | 19 | 264 | 6 | 32 | 19 | -13 | 5028 |
| 2/20/1978 | 1978 | 2 | 20 | 265 | 12 | 39 | 25.5 | -6.5 | 5021.5 |
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| 2/22/1978 | 1978 | 2 | 22 | 267 | 21 | 46 | 33.5 | 1.5 | 5021.5 |
| 2/23/1978 | 1978 | 2 | 23 | 268 | 22 | 49 | 35.5 | 3.5 | 5025 |
| 2/24/1978 | 1978 | 2 | 24 | 269 | 25 | 50 | 37.5 | 5.5 | 5030.5 |
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| 2/27/1978 | 1978 | 2 | 27 | 272 | 26 | 49 | 37.5 | 5.5 | 5046.5 |
| 2/28/1978 | 1978 | 2 | 28 | 273 | 30 | 40 | 35 | 3 | 5049.5 |
| 3/1/1978 | 1978 | 3 | 1 | 274 | 30 | 45 | 37.5 | 5.5 | 5055 |
| 3/2/1978 | 1978 | 3 | 2 | 275 | 32 | 45 | 38.5 | 6.5 | 5061.5 |
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| 3/4/1978 | 1978 | 3 | 4 | 277 | 29 | 49 | 39 | 7 | 5075 |
| 3/5/1978 | 1978 | 3 | 5 | 278 | 28 | 48 | 38 | 6 | 5081 |
| 3/6/1978 | 1978 | 3 | 6 | 279 | 37 | 45 | 41 | 9 | 5090 |
| 3/7/1978 | 1978 | 3 | 7 | 280 | 28 | 47 | 37.5 | 5.5 | 5095.5 |
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| 3/9/1978 | 1978 | 3 | 9 | 282 | 29 | 50 | 39.5 | 7.5 | 5108.5 |
| 3/10/1978 | 1978 | 3 | 10 | 283 | 30 | 50 | 40 | 8 | 5116.5 |
| 3/11/1978 | 1978 | 3 | 11 | 284 | 29 | 48 | 38.5 | 6.5 | 5123 |
| 3/12/1978 | 1978 | 3 | 12 | 285 | 28 | 47 | 37.5 | 5.5 | 5128.5 |
| 3/13/1978 | 1978 | 3 | 13 | 286 | 25 | 45 | 35 | 3 | 5131.5 |
| 3/14/1978 | 1978 | 3 | 14 | 287 | 26 | 46 | 36 | 4 | 5135.5 |
| 3/15/1978 | 1978 | 3 | 15 | 288 | 19 | 44 | 31.5 | -0.5 | 5135 |
| 3/16/1978 | 1978 | 3 | 16 | 289 | 20 | 49 | 34.5 | 2.5 | 5137.5 |
| 3/17/1978 | 1978 | 3 | 17 | 290 | 28 | 49 | 38.5 | 6.5 | 5144 |

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|---|---|---|---|---|---|---|---|---|---|
| 3/18/1978 | 1978 | 3 | 18 | 291 | 31 | 50 | 40.5 | 8.5 | 5152.5 |
| 3/19/1978 | 1978 | 3 | 19 | 292 | 39 | 66 | 52.5 | 20.5 | 5173 |
| 3/20/1978 | 1978 | 3 | 20 | 293 | 35 | 61 | 48 | 16 | 5189 |
| 3/21/1978 | 1978 | 3 | 21 | 294 | 32 | 65 | 48.5 | 16.5 | 5205.5 |
| 3/22/1978 | 1978 | 3 | 22 | 295 | 37 | 60 | 48.5 | 16.5 | 5222 |
| 3/23/1978 | 1978 | 3 | 23 | 296 | 34 | 56 | 45 | 13 | 5235 |
| 3/24/1978 | 1978 | 3 | 24 | 297 | 33 | 59 | 46 | 14 | 5249 |
| 3/25/1978 | 1978 | 3 | 25 | 298 | 29 | 60 | 44.5 | 12.5 | 5261.5 |
| 3/26/1978 | 1978 | 3 | 26 | 299 | 36 | 60 | 48 | 16 | 5277.5 |
| 3/27/1978 | 1978 | 3 | 27 | 300 | 35 | 65 | 50 | 18 | 5295.5 |
| 3/28/1978 | 1978 | 3 | 28 | 301 | 34 | 69 | 51.5 | 19.5 | 5315 |
| 3/29/1978 | 1978 | 3 | 29 | 302 | 39 | 66 | 52.5 | 20.5 | 5335.5 |
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| 3/31/1978 | 1978 | 3 | 31 | 304 | 36 | 69 | 52.5 | 20.5 | 5374.5 |
| 4/1/1978 | 1978 | 4 | 1 | 305 | 28 | 65 | 46.5 | 14.5 | 5389 |
| 4/2/1978 | 1978 | 4 | 2 | 306 | 27 | 59 | 43 | 11 | 5400 |
| 4/3/1978 | 1978 | 4 | 3 | 307 | 26 | 58 | 42 | 10 | 5410 |
| 4/4/1978 | 1978 | 4 | 4 | 308 | 27 | 57 | 42 | 10 | 5420 |
| 4/5/1978 | 1978 | 4 | 5 | 309 | 29 | 58 | 43.5 | 11.5 | 5431.5 |
| 4/6/1978 | 1978 | 4 | 6 | 310 | 29 | 60 | 44.5 | 12.5 | 5444 |
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| 4/8/1978 | 1978 | 4 | 8 | 312 | 29 | 69 | 49 | 17 | 5477 |
| 4/9/1978 | 1978 | 4 | 9 | 313 | 33 | 70 | 51.5 | 19.5 | 5496.5 |
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| 4/11/1978 | 1978 | 4 | 11 | 315 | 29 | 57 | 43 | 11 | 5515.5 |
| 4/12/1978 | 1978 | 4 | 12 | 316 | 29 | 68 | 48.5 | 16.5 | 5532 |
| 4/13/1978 | 1978 | 4 | 13 | 317 | 37 | 69 | 53 | 21 | 5553 |
| 4/14/1978 | 1978 | 4 | 14 | 318 | 58 | 66 | 62 | 30 | 5583 |
| 4/15/1978 | 1978 | 4 | 15 | 319 | 41 | 64 | 52.5 | 20.5 | 5603.5 |
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| 4/17/1978 | 1978 | 4 | 17 | 321 | 47 | 65 | 56 | 24 | 5645 |
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| 4/20/1978 | 1978 | 4 | 20 | 324 | 30 | 66 | 48 | 16 | 5682.5 |
| 4/21/1978 | 1978 | 4 | 21 | 325 | 34 | 65 | 49.5 | 17.5 | 5700 |
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| 4/23/1978 | 1978 | 4 | 23 | 327 | 25 | 60 | 42.5 | 10.5 | 5729 |
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| 4/25/1978 | 1978 | 4 | 25 | 329 | 38 | 75 | 56.5 | 24.5 | 5771 |
| 4/26/1978 | 1978 | 4 | 26 | 330 | 44 | 74 | 59 | 27 | 5798 |
| 4/27/1978 | 1978 | 4 | 27 | 331 | 43 | 76 | 59.5 | 27.5 | 5825.5 |
| 4/28/1978 | 1978 | 4 | 28 | 332 | 41 | 74 | 57.5 | 25.5 | 5851 |
| 4/29/1978 | 1978 | 4 | 29 | 333 | 37 | 62 | 49.5 | 17.5 | 5868.5 |
| 4/30/1978 | 1978 | 4 | 30 | 334 | 36 | 65 | 50.5 | 18.5 | 5887 |
| 5/1/1978 | 1978 | 5 | 1 | 335 | 37 | 65 | 51 | 19 | 5906 |
| 5/2/1978 | 1978 | 5 | 2 | 336 | 38 | 67 | 52.5 | 20.5 | 5926.5 |
| 5/3/1978 | 1978 | 5 | 3 | 337 | 22 | 65 | 43.5 | 11.5 | 5938 |
| 5/4/1978 | 1978 | 5 | 4 | 338 | 38 | 62 | 50 | 18 | 5956 |
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| 5/6/1978 | 1978 | 5 | 6 | 340 | 33 | 60 | 46.5 | 14.5 | 5986 |
| 5/7/1978 | 1978 | 5 | 7 | 341 | 27 | 40 | 33.5 | 1.5 | 5987.5 |
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| 5/10/1978 | 1978 | 5 | 10 | 344 | 35 | 58 | 46.5 | 14.5 | 6019 |
| 5/11/1978 | 1978 | 5 | 11 | 345 | 35 | 59 | 47 | 15 | 6034 |
| 5/12/1978 | 1978 | 5 | 12 | 346 | 41 | 61 | 51 | 19 | 6053 |
| 5/13/1978 | 1978 | 5 | 13 | 347 | 41 | 69 | 55 | 23 | 6076 |
| 5/14/1978 | 1978 | 5 | 14 | 348 | 43 | 70 | 56.5 | 24.5 | 6100.5 |
| 5/15/1978 | 1978 | 5 | 15 | 349 | 46 | 72 | 59 | 27 | 6127.5 |
| 5/16/1978 | 1978 | 5 | 16 | 350 | 40 | 79 | 59.5 | 27.5 | 6155 |
| 5/17/1978 | 1978 | 5 | 17 | 351 | 41 | 80 | 60.5 | 28.5 | 6183.5 |
| 5/18/1978 | 1978 | 5 | 18 | 352 | 51 | 81 | 66 | 34 | 6217.5 |
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| 5/20/1978 | 1978 | 5 | 20 | 354 | 34 | 77 | 55.5 | 23.5 | 6270.5 |
| 5/21/1978 | 1978 | 5 | 21 | 355 | 33 | 69 | 51 | 19 | 6289.5 |
| 5/22/1978 | 1978 | 5 | 22 | 356 | 43 | 70 | 56.5 | 24.5 | 6314 |
| 5/23/1978 | 1978 | 5 | 23 | 357 | 42 | 73 | 57.5 | 25.5 | 6339.5 |
| 5/24/1978 | 1978 | 5 | 24 | 358 | 37 | 70 | 53.5 | 21.5 | 6361 |
| 5/25/1978 | 1978 | 5 | 25 | 359 | 42 | 70 | 56 | 24 | 6385 |
| 5/26/1978 | 1978 | 5 | 26 | 360 | 47 | 71 | 59 | 27 | 6412 |
| 5/27/1978 | 1978 | 5 | 27 | 361 | 43 | 75 | 59 | 27 | 6439 |
| 5/28/1978 | 1978 | 5 | 28 | 362 | 40 | 74 | 57 | 25 | 6464 |
| 5/29/1978 | 1978 | 5 | 29 | 363 | 42 | 73 | 57.5 | 25.5 | 6489.5 |
| 5/30/1978 | 1978 | 5 | 30 | 364 | 41 | 74 | 57.5 | 25.5 | 6515 |
| 5/31/1978 | 1978 | 5 | 31 | 365 | 42 | 75 | 58.5 | 26.5 | 6541.5 |
| 6/1/1978 | 1978 | 6 | 1 | 1 | 48 | 80 | 64 | 32 | 32 |
| 6/2/1978 | 1978 | 6 | 2 | 2 | 44 | 79 | 61.5 | 29.5 | 61.5 |
| 6/3/1978 | 1978 | 6 | 3 | 3 | 45 | 80 | 62.5 | 30.5 | 92 |
| 6/4/1978 | 1978 | 6 | 4 | 4 | 46 | 81 | 63.5 | 31.5 | 123.5 |
| 6/5/1978 | 1978 | 6 | 5 | 5 | 47 | 80 | 63.5 | 31.5 | 155 |
| 6/6/1978 | 1978 | 6 | 6 | 6 | 41 | 77 | 59 | 27 | 182 |
| 6/7/1978 | 1978 | 6 | 7 | 7 | 44 | 79 | 61.5 | 29.5 | 211.5 |
| 6/8/1978 | 1978 | 6 | 8 | 8 | 48 | 80 | 64 | 32 | 243.5 |
| 6/9/1978 | 1978 | 6 | 9 | 9 | 47 | 82 | 64.5 | 32.5 | 276 |
| 6/10/1978 | 1978 | 6 | 10 | 10 | 46 | 80 | 63 | 31 | 307 |
| 6/11/1978 | 1978 | 6 | 11 | 11 | 45 | 80 | 62.5 | 30.5 | 337.5 |
| 6/12/1978 | 1978 | 6 | 12 | 12 | 49 | 78 | 63.5 | 31.5 | 369 |
| 6/13/1978 | 1978 | 6 | 13 | 13 | 50 | 80 | 65 | 33 | 402 |
| 6/14/1978 | 1978 | 6 | 14 | 14 | 55 | 83 | 69 | 37 | 439 |
| 6/15/1978 | 1978 | 6 | 15 | 15 | 56 | 86 | 71 | 39 | 478 |
| 6/16/1978 | 1978 | 6 | 16 | 16 | 51 | 85 | 68 | 36 | 514 |
| 6/17/1978 | 1978 | 6 | 17 | 17 | 52 | 85 | 68.5 | 36.5 | 550.5 |
| 6/18/1978 | 1978 | 6 | 18 | 18 | 60 | 80 | 70 | 38 | 588.5 |

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| 6/19/1978 | 1978 | 6 | 19 | 19 | 58 | 87 | 72.5 | 40.5 | 629 |
| 6/20/1978 | 1978 | 6 | 20 | 20 | 54 | 85 | 69.5 | 37.5 | 666.5 |
| 6/21/1978 | 1978 | 6 | 21 | 21 | 53 | 87 | 70 | 38 | 704.5 |
| 6/22/1978 | 1978 | 6 | 22 | 22 | 56 | 86 | 71 | 39 | 743.5 |
| 6/23/1978 | 1978 | 6 | 23 | 23 | 59 | 87 | 73 | 41 | 784.5 |
| 6/24/1978 | 1978 | 6 | 24 | 24 | 58 | 90 | 74 | 42 | 826.5 |
| 6/25/1978 | 1978 | 6 | 25 | 25 | 59 | 90 | 74.5 | 42.5 | 869 |
| 6/26/1978 | 1978 | 6 | 26 | 26 | 68 | 89 | 78.5 | 46.5 | 915.5 |
| 6/27/1978 | 1978 | 6 | 27 | 27 | 55 | 86 | 70.5 | 38.5 | 954 |
| 6/28/1978 | 1978 | 6 | 28 | 28 | 54 | 84 | 69 | 37 | 991 |
| 6/29/1978 | 1978 | 6 | 29 | 29 | 53 | 77 | 65 | 33 | 1024 |
| 6/30/1978 | 1978 | 6 | 30 | 30 | 54 | 80 | 67 | 35 | 1059 |
| 7/1/1978 | 1978 | 7 | 1 | 31 | 52 | 83 | 67.5 | 35.5 | 1094.5 |
| 7/2/1978 | 1978 | 7 | 2 | 32 | 53 | 90 | 71.5 | 39.5 | 1134 |
| 7/3/1978 | 1978 | 7 | 3 | 33 | 54 | 89 | 71.5 | 39.5 | 1173.5 |
| 7/4/1978 | 1978 | 7 | 4 | 34 | 55 | 83 | 69 | 37 | 1210.5 |
| 7/5/1978 | 1978 | 7 | 5 | 35 | 54 | 80 | 67 | 35 | 1245.5 |
| 7/6/1978 | 1978 | 7 | 6 | 36 | 52 | 87 | 69.5 | 37.5 | 1283 |
| 7/7/1978 | 1978 | 7 | 7 | 37 | 52 | 84 | 68 | 36 | 1319 |
| 7/8/1978 | 1978 | 7 | 8 | 38 | 55 | 90 | 72.5 | 40.5 | 1359.5 |
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| 7/10/1978 | 1978 | 7 | 10 | 40 | 60 | 86 | 73 | 41 | 1439 |
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| 7/12/1978 | 1978 | 7 | 12 | 42 | 54 | 84 | 69 | 37 | 1513 |
| 7/13/1978 | 1978 | 7 | 13 | 43 | 57 | 85 | 71 | 39 | 1552 |
| 7/14/1978 | 1978 | 7 | 14 | 44 | 59 | 87 | 73 | 41 | 1593 |
| 7/15/1978 | 1978 | 7 | 15 | 45 | 54 | 88 | 71 | 39 | 1632 |
| 7/16/1978 | 1978 | 7 | 16 | 46 | 59 | 90 | 74.5 | 42.5 | 1674.5 |
| 7/17/1978 | 1978 | 7 | 17 | 47 | 64 | 90 | 77 | 45 | 1719.5 |
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| 7/20/1978 | 1978 | 7 | 20 | 50 | 56 | 88 | 72 | 40 | 1835 |
| 7/21/1978 | 1978 | 7 | 21 | 51 | 58 | 87 | 72.5 | 40.5 | 1875.5 |
| 7/22/1978 | 1978 | 7 | 22 | 52 | 56 | 89 | 72.5 | 40.5 | 1916 |
| 7/23/1978 | 1978 | 7 | 23 | 53 | 55 | 80 | 67.5 | 35.5 | 1951.5 |
| 7/24/1978 | 1978 | 7 | 24 | 54 | 54 | 81 | 67.5 | 35.5 | 1987 |
| 7/25/1978 | 1978 | 7 | 25 | 55 | 56 | 89 | 72.5 | 40.5 | 2027.5 |
| 7/26/1978 | 1978 | 7 | 26 | 56 | 57 | 88 | 72.5 | 40.5 | 2068 |
| 7/27/1978 | 1978 | 7 | 27 | 57 | 57 | 86 | 71.5 | 39.5 | 2107.5 |
| 7/28/1978 | 1978 | 7 | 28 | 58 | 60 | 89 | 74.5 | 42.5 | 2150 |
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| 7/30/1978 | 1978 | 7 | 30 | 60 | 59 | 85 | 72 | 40 | 2230.5 |
| 7/31/1978 | 1978 | 7 | 31 | 61 | 61 | 85 | 73 | 41 | 2271.5 |
| 8/1/1978 | 1978 | 8 | 1 | 62 | 56 | 88 | 72 | 40 | 2311.5 |
| 8/2/1978 | 1978 | 8 | 2 | 63 | 55 | 81 | 68 | 36 | 2347.5 |
| 8/3/1978 | 1978 | 8 | 3 | 64 | 56 | 81 | 68.5 | 36.5 | 2384 |
| 8/4/1978 | 1978 | 8 | 4 | 65 | 53 | 83 | 68 | 36 | 2420 |
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| 8/9/1978 | 1978 | 8 | 9 | 70 | 50 | 82 | 66 | 34 | 2585.5 |
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| 8/11/1978 | 1978 | 8 | 11 | 72 | 53 | 85 | 69 | 37 | 2659.5 |
| 8/12/1978 | 1978 | 8 | 12 | 73 | 52 | 79 | 65.5 | 33.5 | 2693 |
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| 8/15/1978 | 1978 | 8 | 15 | 76 | 49 | 79 | 64 | 32 | 2787.5 |
| 8/16/1978 | 1978 | 8 | 16 | 77 | 48 | 79 | 63.5 | 31.5 | 2819 |
| 8/17/1978 | 1978 | 8 | 17 | 78 | 55 | 79 | 67 | 35 | 2854 |
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| 8/19/1978 | 1978 | 8 | 19 | 80 | 54 | 80 | 67 | 35 | 2924.5 |
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| 8/24/1978 | 1978 | 8 | 24 | 85 | 52 | 79 | 65.5 | 33.5 | 3085 |
| 8/25/1978 | 1978 | 8 | 25 | 86 | 49 | 78 | 63.5 | 31.5 | 3116.5 |
| 8/26/1978 | 1978 | 8 | 26 | 87 | 54 | 80 | 67 | 35 | 3151.5 |
| 8/27/1978 | 1978 | 8 | 27 | 88 | 52 | 81 | 66.5 | 34.5 | 3186 |
| 8/28/1978 | 1978 | 8 | 28 | 89 | 49 | 82 | 65.5 | 33.5 | 3219.5 |
| 8/29/1978 | 1978 | 8 | 29 | 90 | 57 | 82 | 69.5 | 37.5 | 3257 |
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| 8/31/1978 | 1978 | 8 | 31 | 92 | 56 | 79 | 67.5 | 35.5 | 3322 |
| 9/1/1978 | 1978 | 9 | 1 | 93 | 51 | 76 | 63.5 | 31.5 | 3353.5 |
| 9/2/1978 | 1978 | 9 | 2 | 94 | 53 | 79 | 66 | 34 | 3387.5 |
| 9/3/1978 | 1978 | 9 | 3 | 95 | 48 | 78 | 63 | 31 | 3418.5 |
| 9/4/1978 | 1978 | 9 | 4 | 96 | 50 | 80 | 65 | 33 | 3451.5 |
| 9/5/1978 | 1978 | 9 | 5 | 97 | 55 | 80 | 67.5 | 35.5 | 3487 |
| 9/6/1978 | 1978 | 9 | 6 | 98 | 53 | 77 | 65 | 33 | 3520 |
| 9/7/1978 | 1978 | 9 | 7 | 99 | 50 | 75 | 62.5 | 30.5 | 3550.5 |
| 9/8/1978 | 1978 | 9 | 8 | 100 | 49 | 77 | 63 | 31 | 3581.5 |
| 9/9/1978 | 1978 | 9 | 9 | 101 | 48 | 78 | 63 | 31 | 3612.5 |
| 9/10/1978 | 1978 | 9 | 10 | 102 | 55 | 79 | 67 | 35 | 3647.5 |
| 9/11/1978 | 1978 | 9 | 11 | 103 | 54 | 79 | 66.5 | 34.5 | 3682 |
| 9/12/1978 | 1978 | 9 | 12 | 104 | 52 | 76 | 64 | 32 | 3714 |
| 9/13/1978 | 1978 | 9 | 13 | 105 | 49 | 72 | 60.5 | 28.5 | 3742.5 |
| 9/14/1978 | 1978 | 9 | 14 | 106 | 45 | 70 | 57.5 | 25.5 | 3768 |
| 9/15/1978 | 1978 | 9 | 15 | 107 | 48 | 71 | 59.5 | 27.5 | 3795.5 |
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| 9/17/1978 | 1978 | 9 | 17 | 109 | 43 | 72 | 57.5 | 25.5 | 3848 |
| 9/18/1978 | 1978 | 9 | 18 | 110 | 47 | 74 | 60.5 | 28.5 | 3876.5 |
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| 9/21/1978 | 1978 | 9 | 21 | 113 | 33 | 66 | 49.5 | 17.5 | 3939 |
| 9/22/1978 | 1978 | 9 | 22 | 114 | 39 | 68 | 53.5 | 21.5 | 3960.5 |
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| 9/25/1978 | 1978 | 9 | 25 | 117 | 47 | 61 | 54 | 22 | 4029 |
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| 10/7/1978 | 1978 | 10 | 7 | 129 | 43 | 74 | 58.5 | 26.5 | 4354 |
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| 10/16/1978 | 1978 | 10 | 16 | 138 | 38 | 72 | 55 | 23 | 4570 |
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| 10/18/1978 | 1978 | 10 | 18 | 140 | 44 | 69 | 56.5 | 24.5 | 4615.5 |
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| 11/2/1978 | 1978 | 11 | 2 | 155 | 40 | 58 | 49 | 17 | 4848.5 |
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| 11/10/1978 | 1978 | 11 | 10 | 163 | 34 | 60 | 47 | 15 | 4951.5 |
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| 11/13/1978 | 1978 | 11 | 13 | 166 | 36 | 55 | 45.5 | 13.5 | 4996.5 |
| 11/14/1978 | 1978 | 11 | 14 | 167 | 26 | 49 | 37.5 | 5.5 | 5002 |
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| 11/16/1978 | 1978 | 11 | 16 | 169 | 29 | 43 | 36 | 4 | 5011 |
| 11/17/1978 | 1978 | 11 | 17 | 170 | 28 | 40 | 34 | 2 | 5013 |
| 11/18/1978 | 1978 | 11 | 18 | 171 | 20 | 46 | 33 | 1 | 5014 |
| 11/19/1978 | 1978 | 11 | 19 | 172 | 23 | 48 | 35.5 | 3.5 | 5017.5 |
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| 11/26/1978 | 1978 | 11 | 26 | 179 | 26 | 43 | 34.5 | 2.5 | 5051.5 |
| 11/27/1978 | 1978 | 11 | 27 | 180 | 25 | 40 | 32.5 | 0.5 | 5052 |
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| 11/29/1978 | 1978 | 11 | 29 | 182 | 25 | 39 | 32 | 0 | 5052.5 |
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| 12/5/1978 | 1978 | 12 | 5 | 188 | 8 | 36 | 22 | -10 | 5048.5 |
| 12/6/1978 | 1978 | 12 | 6 | 189 | 7 | 29 | 18 | -14 | 5034.5 |
| 12/7/1978 | 1978 | 12 | 7 | 190 | -4 | 20 | 8 | -24 | 5010.5 |
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| 12/13/1978 | 1978 | 12 | 13 | 196 | 12 | 37 | 24.5 | -7.5 | 4915 |
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| 12/15/1978 | 1978 | 12 | 15 | 198 | 16 | 39 | 27.5 | -4.5 | 4904.5 |
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| 12/18/1978 | 1978 | 12 | 18 | 201 | 26 | 40 | 33 | 1 | 4900 |
| 12/19/1978 | 1978 | 12 | 19 | 202 | 30 | 39 | 34.5 | 2.5 | 4902.5 |
| 12/20/1978 | 1978 | 12 | 20 | 203 | 19 | 39 | 29 | -3 | 4899.5 |
| 12/21/1978 | 1978 | 12 | 21 | 204 | 16 | 36 | 26 | -6 | 4893.5 |

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| 12/22/1978 | 1978 | 12 | 22 | 205 | 18 | 38 | 28 | -4 | 4889.5 |
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| 12/25/1978 | 1978 | 12 | 25 | 208 | 14 | 30 | 22 | -10 | 4867 |
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| 12/27/1978 | 1978 | 12 | 27 | 210 | 19 | 29 | 24 | -8 | 4847.5 |
| 12/28/1978 | 1978 | 12 | 28 | 211 | 19 | 38 | 28.5 | -3.5 | 4844 |
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| 12/30/1978 | 1978 | 12 | 30 | 213 | -10 | 39 | 14.5 | -17.5 | 4824 |
| 12/31/1978 | 1978 | 12 | 31 | 214 | -12 | 38 | 13 | -19 | 4805 |
| 1/1/1979 | 1979 | 1 | 1 | 215 | -4 | 34 | 15 | -17 | 4788 |
| 1/2/1979 | 1979 | 1 | 2 | 216 | -5 | 32 | 13.5 | -18.5 | 4769.5 |
| 1/3/1979 | 1979 | 1 | 3 | 217 | -4 | 40 | 18 | -14 | 4755.5 |
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| 1/6/1979 | 1979 | 1 | 6 | 220 | 18 | 36 | 27 | -5 | 4742 |
| 1/7/1979 | 1979 | 1 | 7 | 221 | 20 | 35 | 27.5 | -4.5 | 4737.5 |
| 1/8/1979 | 1979 | 1 | 8 | 222 | 6 | 32 | 19 | -13 | 4724.5 |
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| 1/11/1979 | 1979 | 1 | 11 | 225 | 18 | 40 | 29 | -3 | 4703.5 |
| 1/12/1979 | 1979 | 1 | 12 | 226 | 18 | 43 | 30.5 | -1.5 | 4702 |
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| 1/14/1979 | 1979 | 1 | 14 | 228 | 10 | 30 | 20 | -12 | 4685 |
| 1/15/1979 | 1979 | 1 | 15 | 229 | 7 | 30 | 18.5 | -13.5 | 4671.5 |
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| 1/20/1979 | 1979 | 1 | 20 | 234 | 18 | 30 | 24 | -8 | 4650 |
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| 1/22/1979 | 1979 | 1 | 22 | 236 | 15 | 39 | 27 | -5 | 4636.5 |
| 1/23/1979 | 1979 | 1 | 23 | 237 | 3 | 30 | 16.5 | -15.5 | 4621 |
| 1/24/1979 | 1979 | 1 | 24 | 238 | 5 | 34 | 19.5 | -12.5 | 4608.5 |
| 1/25/1979 | 1979 | 1 | 25 | 239 | 5 | 30 | 17.5 | -14.5 | 4594 |
| 1/26/1979 | 1979 | 1 | 26 | 240 | 10 | 34 | 22 | -10 | 4584 |
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| 1/30/1979 | 1979 | 1 | 30 | 244 | -8 | 20 | 6 | -26 | 4510 |
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| 2/1/1979 | 1979 | 2 | 1 | 246 | 14 | 34 | 24 | -8 | 4482 |
| 2/2/1979 | 1979 | 2 | 2 | 247 | 19 | 30 | 24.5 | -7.5 | 4474.5 |
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| 2/4/1979 | 1979 | 2 | 4 | 249 | 17 | 29 | 23 | -9 | 4457 |
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| 2/7/1979 | 1979 | 2 | 7 | 252 | 12 | 30 | 21 | -11 | 4424.5 |
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| 2/17/1979 | 1979 | 2 | 17 | 262 | 15 | 39 | 27 | -5 | 4377 |
| 2/18/1979 | 1979 | 2 | 18 | 263 | 20 | 40 | 30 | -2 | 4375 |
| 2/19/1979 | 1979 | 2 | 19 | 264 | 30 | 56 | 43 | 11 | 4386 |
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| 2/21/1979 | 1979 | 2 | 21 | 266 | 28 | 50 | 39 | 7 | 4401 |
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| 2/27/1979 | 1979 | 2 | 27 | 272 | 12 | 30 | 21 | -11 | 4361.5 |
| 2/28/1979 | 1979 | 2 | 28 | 273 | 12 | 42 | 27 | -5 | 4356.5 |
| 3/1/1979 | 1979 | 3 | 1 | 274 | 15 | 42 | 28.5 | -3.5 | 4353 |
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| 3/7/1979 | 1979 | 3 | 7 | 280 | 26 | 57 | 41.5 | 9.5 | 4349.5 |
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| 3/9/1979 | 1979 | 3 | 9 | 282 | 28 | 56 | 42 | 10 | 4371.5 |
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| 3/14/1979 | 1979 | 3 | 14 | 287 | 34 | 54 | 44 | 12 | 4410.5 |
| 3/15/1979 | 1979 | 3 | 15 | 288 | 21 | 54 | 37.5 | 5.5 | 4416 |
| 3/16/1979 | 1979 | 3 | 16 | 289 | 38 | 57 | 47.5 | 15.5 | 4431.5 |
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| 3/18/1979 | 1979 | 3 | 18 | 291 | 24 | 40 | 32 | 0 | 4436.5 |
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| 3/20/1979 | 1979 | 3 | 20 | 293 | 33 | 51 | 42 | 10 | 4447 |
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| 3/31/1979 | 1979 | 3 | 31 | 304 | 26 | 50 | 38 | 6 | 4538 |
| 4/1/1979 | 1979 | 4 | 1 | 305 | 21 | 44 | 32.5 | 0.5 | 4538.5 |
| 4/2/1979 | 1979 | 4 | 2 | 306 | 20 | 42 | 31 | -1 | 4537.5 |
| 4/3/1979 | 1979 | 4 | 3 | 307 | 21 | 40 | 30.5 | -1.5 | 4536 |
| 4/4/1979 | 1979 | 4 | 4 | 308 | 19 | 41 | 30 | -2 | 4534 |
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| 4/7/1979 | 1979 | 4 | 7 | 311 | 27 | 50 | 38.5 | 6.5 | 4549 |
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| 4/9/1979 | 1979 | 4 | 9 | 313 | 33 | 60 | 46.5 | 14.5 | 4571.5 |
| 4/10/1979 | 1979 | 4 | 10 | 314 | 35 | 65 | 50 | 18 | 4589.5 |
| 4/11/1979 | 1979 | 4 | 11 | 315 | 32 | 62 | 47 | 15 | 4604.5 |
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| 4/17/1979 | 1979 | 4 | 17 | 321 | 33 | 60 | 46.5 | 14.5 | 4641 |
| 4/18/1979 | 1979 | 4 | 18 | 322 | 30 | 68 | 49 | 17 | 4658 |
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| 4/24/1979 | 1979 | 4 | 24 | 328 | 38 | 69 | 53.5 | 21.5 | 4794.5 |
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| 5/19/1979 | 1979 | 5 | 19 | 353 | 42 | 75 | 58.5 | 26.5 | 5308.5 |
| 5/20/1979 | 1979 | 5 | 20 | 354 | 48 | 76 | 62 | 30 | 5338.5 |
| 5/21/1979 | 1979 | 5 | 21 | 355 | 42 | 75 | 58.5 | 26.5 | 5365 |
| 5/22/1979 | 1979 | 5 | 22 | 356 | 33 | 66 | 49.5 | 17.5 | 5382.5 |
| 5/23/1979 | 1979 | 5 | 23 | 357 | 42 | 69 | 55.5 | 23.5 | 5406 |
| 5/24/1979 | 1979 | 5 | 24 | 358 | 42 | 75 | 58.5 | 26.5 | 5432.5 |
| 5/25/1979 | 1979 | 5 | 25 | 359 | 45 | 77 | 61 | 29 | 5461.5 |
| 5/26/1979 | 1979 | 5 | 26 | 360 | 46 | 78 | 62 | 30 | 5491.5 |
| 5/27/1979 | 1979 | 5 | 27 | 361 | 45 | 72 | 58.5 | 26.5 | 5518 |
| 5/28/1979 | 1979 | 5 | 28 | 362 | 46 | 72 | 59 | 27 | 5545 |
| 5/29/1979 | 1979 | 5 | 29 | 363 | 40 | 73 | 56.5 | 24.5 | 5569.5 |
| 5/30/1979 | 1979 | 5 | 30 | 364 | 47 | 74 | 60.5 | 28.5 | 5598 |
| 5/31/1979 | 1979 | 5 | 31 | 365 | 44 | 75 | 59.5 | 27.5 | 5625.5 |
| 6/1/1979 | 1979 | 6 | 1 | 1 | 42 | 72 | 57 | 25 | 25 |
| 6/2/1979 | 1979 | 6 | 2 | 2 | 43 | 69 | 56 | 24 | 49 |
| 6/3/1979 | 1979 | 6 | 3 | 3 | 41 | 69 | 55 | 23 | 72 |
| 6/4/1979 | 1979 | 6 | 4 | 4 | 47 | 70 | 58.5 | 26.5 | 98.5 |
| 6/5/1979 | 1979 | 6 | 5 | 5 | 46 | 76 | 61 | 29 | 127.5 |
| 6/6/1979 | 1979 | 6 | 6 | 6 | 52 | 77 | 64.5 | 32.5 | 160 |
| 6/7/1979 | 1979 | 6 | 7 | 7 | 49 | 75 | 62 | 30 | 190 |
| 6/8/1979 | 1979 | 6 | 8 | 8 | 42 | 65 | 53.5 | 21.5 | 211.5 |
| 6/9/1979 | 1979 | 6 | 9 | 9 | 41 | 67 | 54 | 22 | 233.5 |
| 6/10/1979 | 1979 | 6 | 10 | 10 | 39 | 64 | 51.5 | 19.5 | 253 |
| 6/11/1979 | 1979 | 6 | 11 | 11 | 41 | 79 | 60 | 28 | 281 |
| 6/12/1979 | 1979 | 6 | 12 | 12 | 49 | 84 | 66.5 | 34.5 | 315.5 |
| 6/13/1979 | 1979 | 6 | 13 | 13 | 51 | 86 | 68.5 | 36.5 | 352 |
| 6/14/1979 | 1979 | 6 | 14 | 14 | 55 | 86 | 70.5 | 38.5 | 390.5 |
| 6/15/1979 | 1979 | 6 | 15 | 15 | 56 | 84 | 70 | 38 | 428.5 |
| 6/16/1979 | 1979 | 6 | 16 | 16 | 58 | 82 | 70 | 38 | 466.5 |
| 6/17/1979 | 1979 | 6 | 17 | 17 | 49 | 79 | 64 | 32 | 498.5 |
| 6/18/1979 | 1979 | 6 | 18 | 18 | 50 | 79 | 64.5 | 32.5 | 531 |
| 6/19/1979 | 1979 | 6 | 19 | 19 | 41 | 76 | 58.5 | 26.5 | 557.5 |
| 6/20/1979 | 1979 | 6 | 20 | 20 | 45 | 81 | 63 | 31 | 588.5 |
| 6/21/1979 | 1979 | 6 | 21 | 21 | 51 | 85 | 68 | 36 | 624.5 |
| 6/22/1979 | 1979 | 6 | 22 | 22 | 57 | 87 | 72 | 40 | 664.5 |
| 6/23/1979 | 1979 | 6 | 23 | 23 | 53 | 85 | 69 | 37 | 701.5 |
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| 6/25/1979 | 1979 | 6 | 25 | 25 | 53 | 87 | 70 | 38 | 777 |

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| 6/26/1979 | 1979 | 6 | 26 | 26 | 58 | 90 | 74 | 42 | 819 |
| 6/27/1979 | 1979 | 6 | 27 | 27 | 59 | 92 | 75.5 | 43.5 | 862.5 |
| 6/28/1979 | 1979 | 6 | 28 | 28 | 57 | 91 | 74 | 42 | 904.5 |
| 6/29/1979 | 1979 | 6 | 29 | 29 | 57 | 91 | 74 | 42 | 946.5 |
| 6/30/1979 | 1979 | 6 | 30 | 30 | 55 | 87 | 71 | 39 | 985.5 |
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| 7/2/1979 | 1979 | 7 | 2 | 32 | 55 | 79 | 67 | 35 | 1056 |
| 7/3/1979 | 1979 | 7 | 3 | 33 | 55 | 89 | 72 | 40 | 1096 |
| 7/4/1979 | 1979 | 7 | 4 | 34 | 50 | 79 | 64.5 | 32.5 | 1128.5 |
| 7/5/1979 | 1979 | 7 | 5 | 35 | 51 | 81 | 66 | 34 | 1162.5 |
| 7/6/1979 | 1979 | 7 | 6 | 36 | 61 | 82 | 71.5 | 39.5 | 1202 |
| 7/7/1979 | 1979 | 7 | 7 | 37 | 56 | 94 | 75 | 43 | 1245 |
| 7/8/1979 | 1979 | 7 | 8 | 38 | 53 | 90 | 71.5 | 39.5 | 1284.5 |
| 7/9/1979 | 1979 | 7 | 9 | 39 | 54 | 92 | 73 | 41 | 1325.5 |
| 7/10/1979 | 1979 | 7 | 10 | 40 | 55 | 89 | 72 | 40 | 1365.5 |
| 7/11/1979 | 1979 | 7 | 11 | 41 | 55 | 90 | 72.5 | 40.5 | 1406 |
| 7/12/1979 | 1979 | 7 | 12 | 42 | 56 | 94 | 75 | 43 | 1449 |
| 7/13/1979 | 1979 | 7 | 13 | 43 | 60 | 95 | 77.5 | 45.5 | 1494.5 |
| 7/14/1979 | 1979 | 7 | 14 | 44 | 57 | 94 | 75.5 | 43.5 | 1538 |
| 7/15/1979 | 1979 | 7 | 15 | 45 | 59 | 95 | 77 | 45 | 1583 |
| 7/16/1979 | 1979 | 7 | 16 | 46 | 60 | 96 | 78 | 46 | 1629 |
| 7/17/1979 | 1979 | 7 | 17 | 47 | 61 | 92 | 76.5 | 44.5 | 1673.5 |
| 7/18/1979 | 1979 | 7 | 18 | 48 | 59 | 90 | 74.5 | 42.5 | 1716 |
| 7/19/1979 | 1979 | 7 | 19 | 49 | 56 | 77 | 66.5 | 34.5 | 1750.5 |
| 7/20/1979 | 1979 | 7 | 20 | 50 | 54 | 71 | 62.5 | 30.5 | 1781 |
| 7/21/1979 | 1979 | 7 | 21 | 51 | 50 | 74 | 62 | 30 | 1811 |
| 7/22/1979 | 1979 | 7 | 22 | 52 | 50 | 74 | 62 | 30 | 1841 |
| 7/23/1979 | 1979 | 7 | 23 | 53 | 57 | 76 | 66.5 | 34.5 | 1875.5 |
| 7/24/1979 | 1979 | 7 | 24 | 54 | 58 | 78 | 68 | 36 | 1911.5 |
| 7/25/1979 | 1979 | 7 | 25 | 55 | 55 | 85 | 70 | 38 | 1949.5 |
| 7/26/1979 | 1979 | 7 | 26 | 56 | 54 | 86 | 70 | 38 | 1987.5 |
| 7/27/1979 | 1979 | 7 | 27 | 57 | 57 | 87 | 72 | 40 | 2027.5 |
| 7/28/1979 | 1979 | 7 | 28 | 58 | 58 | 88 | 73 | 41 | 2068.5 |
| 7/29/1979 | 1979 | 7 | 29 | 59 | 60 | 89 | 74.5 | 42.5 | 2111 |
| 7/30/1979 | 1979 | 7 | 30 | 60 | 58 | 91 | 74.5 | 42.5 | 2153.5 |
| 7/31/1979 | 1979 | 7 | 31 | 61 | 56 | 83 | 69.5 | 37.5 | 2191 |
| 8/1/1979 | 1979 | 8 | 1 | 62 | 50 | 88 | 69 | 37 | 2228 |
| 8/2/1979 | 1979 | 8 | 2 | 63 | 55 | 89 | 72 | 40 | 2268 |
| 8/3/1979 | 1979 | 8 | 3 | 64 | 63 | 88 | 75.5 | 43.5 | 2311.5 |
| 8/4/1979 | 1979 | 8 | 4 | 65 | 57 | 88 | 72.5 | 40.5 | 2352 |
| 8/5/1979 | 1979 | 8 | 5 | 66 | 60 | 86 | 73 | 41 | 2393 |
| 8/6/1979 | 1979 | 8 | 6 | 67 | 56 | 84 | 70 | 38 | 2431 |
| 8/7/1979 | 1979 | 8 | 7 | 68 | 57 | 86 | 71.5 | 39.5 | 2470.5 |
| 8/8/1979 | 1979 | 8 | 8 | 69 | 54 | 78 | 66 | 34 | 2504.5 |
| 8/9/1979 | 1979 | 8 | 9 | 70 | 56 | 84 | 70 | 38 | 2542.5 |
| 8/10/1979 | 1979 | 8 | 10 | 71 | 58 | 84 | 71 | 39 | 2581.5 |
| 8/11/1979 | 1979 | 8 | 11 | 72 | 52 | 82 | 67 | 35 | 2616.5 |
| 8/12/1979 | 1979 | 8 | 12 | 73 | 51 | 75 | 63 | 31 | 2647.5 |
| 8/13/1979 | 1979 | 8 | 13 | 74 | 54 | 77 | 65.5 | 33.5 | 2681 |
| 8/14/1979 | 1979 | 8 | 14 | 75 | 54 | 72 | 63 | 31 | 2712 |
| 8/15/1979 | 1979 | 8 | 15 | 76 | 52 | 70 | 61 | 29 | 2741 |
| 8/16/1979 | 1979 | 8 | 16 | 77 | 45 | 70 | 57.5 | 25.5 | 2766.5 |
| 8/17/1979 | 1979 | 8 | 17 | 78 | 52 | 71 | 61.5 | 29.5 | 2796 |
| 8/18/1979 | 1979 | 8 | 18 | 79 | 47 | 70 | 58.5 | 26.5 | 2822.5 |
| 8/19/1979 | 1979 | 8 | 19 | 80 | 46 | 69 | 57.5 | 25.5 | 2848 |
| 8/20/1979 | 1979 | 8 | 20 | 81 | 44 | 69 | 56.5 | 24.5 | 2872.5 |
| 8/21/1979 | 1979 | 8 | 21 | 82 | 50 | 70 | 60 | 28 | 2900.5 |
| 8/22/1979 | 1979 | 8 | 22 | 83 | 49 | 70 | 59.5 | 27.5 | 2928 |
| 8/23/1979 | 1979 | 8 | 23 | 84 | 49 | 80 | 64.5 | 32.5 | 2960.5 |
| 8/24/1979 | 1979 | 8 | 24 | 85 | 51 | 81 | 66 | 34 | 2994.5 |
| 8/25/1979 | 1979 | 8 | 25 | 86 | 51 | 81 | 66 | 34 | 3028.5 |
| 8/26/1979 | 1979 | 8 | 26 | 87 | 53 | 82 | 67.5 | 35.5 | 3064 |
| 8/27/1979 | 1979 | 8 | 27 | 88 | 57 | 83 | 70 | 38 | 3102 |
| 8/28/1979 | 1979 | 8 | 28 | 89 | 50 | 82 | 66 | 34 | 3136 |
| 8/29/1979 | 1979 | 8 | 29 | 90 | 55 | 83 | 69 | 37 | 3173 |
| 8/30/1979 | 1979 | 8 | 30 | 91 | 56 | 83 | 69.5 | 37.5 | 3210.5 |
| 8/31/1979 | 1979 | 8 | 31 | 92 | 55 | 79 | 67 | 35 | 3245.5 |
| 9/1/1979 | 1979 | 9 | 1 | 93 | 55 | 83 | 69 | 37 | 3282.5 |
| 9/2/1979 | 1979 | 9 | 2 | 94 | 54 | 82 | 68 | 36 | 3318.5 |
| 9/3/1979 | 1979 | 9 | 3 | 95 | 53 | 81 | 67 | 35 | 3353.5 |
| 9/4/1979 | 1979 | 9 | 4 | 96 | 57 | 84 | 70.5 | 38.5 | 3392 |
| 9/5/1979 | 1979 | 9 | 5 | 97 | 56 | 83 | 69.5 | 37.5 | 3429.5 |
| 9/6/1979 | 1979 | 9 | 6 | 98 | 52 | 84 | 68 | 36 | 3465.5 |
| 9/7/1979 | 1979 | 9 | 7 | 99 | 56 | 85 | 70.5 | 38.5 | 3504 |
| 9/8/1979 | 1979 | 9 | 8 | 100 | 57 | 82 | 69.5 | 37.5 | 3541.5 |
| 9/9/1979 | 1979 | 9 | 9 | 101 | 55 | 81 | 68 | 36 | 3577.5 |
| 9/10/1979 | 1979 | 9 | 10 | 102 | 51 | 78 | 64.5 | 32.5 | 3610 |
| 9/11/1979 | 1979 | 9 | 11 | 103 | 57 | 77 | 67 | 35 | 3645 |
| 9/12/1979 | 1979 | 9 | 12 | 104 | 51 | 72 | 61.5 | 29.5 | 3674.5 |
| 9/13/1979 | 1979 | 9 | 13 | 105 | 50 | 76 | 63 | 31 | 3705.5 |
| 9/14/1979 | 1979 | 9 | 14 | 106 | 51 | 70 | 60.5 | 28.5 | 3734 |
| 9/15/1979 | 1979 | 9 | 15 | 107 | 50 | 69 | 59.5 | 27.5 | 3761.5 |
| 9/16/1979 | 1979 | 9 | 16 | 108 | 40 | 69 | 54.5 | 22.5 | 3784 |
| 9/17/1979 | 1979 | 9 | 17 | 109 | 45 | 67 | 56 | 24 | 3808 |
| 9/18/1979 | 1979 | 9 | 18 | 110 | 45 | 68 | 56.5 | 24.5 | 3832.5 |
| 9/19/1979 | 1979 | 9 | 19 | 111 | 41 | 71 | 56 | 24 | 3856.5 |
| 9/20/1979 | 1979 | 9 | 20 | 112 | 46 | 74 | 60 | 28 | 3884.5 |
| 9/21/1979 | 1979 | 9 | 21 | 113 | 48 | 72 | 60 | 28 | 3912.5 |
| 9/22/1979 | 1979 | 9 | 22 | 114 | 43 | 75 | 59 | 27 | 3939.5 |
| 9/23/1979 | 1979 | 9 | 23 | 115 | 49 | 76 | 62.5 | 30.5 | 3970 |
| 9/24/1979 | 1979 | 9 | 24 | 116 | 50 | 76 | 63 | 31 | 4001 |
| 9/25/1979 | 1979 | 9 | 25 | 117 | 51 | 79 | 65 | 33 | 4034 |
| 9/26/1979 | 1979 | 9 | 26 | 118 | 48 | 76 | 62 | 30 | 4064 |

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| 9/27/1979 | 1979 | 9 | 27 | 119 | 52 | 74 | 63 | 31 | 4095 |
| 9/28/1979 | 1979 | 9 | 28 | 120 | 49 | 75 | 62 | 30 | 4125 |
| 9/29/1979 | 1979 | 9 | 29 | 121 | 48 | 75 | 61.5 | 29.5 | 4154.5 |
| 9/30/1979 | 1979 | 9 | 30 | 122 | 50 | 75 | 62.5 | 30.5 | 4185 |
| 10/1/1979 | 1979 | 10 | 1 | 123 | 51 | 77 | 64 | 32 | 4217 |
| 10/2/1979 | 1979 | 10 | 2 | 124 | 49 | 75 | 62 | 30 | 4247 |
| 10/3/1979 | 1979 | 10 | 3 | 125 | 48 | 74 | 61 | 29 | 4276 |
| 10/4/1979 | 1979 | 10 | 4 | 126 | 43 | 76 | 59.5 | 27.5 | 4303.5 |
| 10/5/1979 | 1979 | 10 | 5 | 127 | 46 | 76 | 61 | 29 | 4332.5 |
| 10/6/1979 | 1979 | 10 | 6 | 128 | 44 | 78 | 61 | 29 | 4361.5 |
| 10/7/1979 | 1979 | 10 | 7 | 129 | 43 | 76 | 59.5 | 27.5 | 4389 |
| 10/8/1979 | 1979 | 10 | 8 | 130 | 42 | 74 | 58 | 26 | 4415 |
| 10/9/1979 | 1979 | 10 | 9 | 131 | 45 | 72 | 58.5 | 26.5 | 4441.5 |
| 10/10/1979 | 1979 | 10 | 10 | 132 | 40 | 75 | 57.5 | 25.5 | 4467 |
| 10/11/1979 | 1979 | 10 | 11 | 133 | 45 | 76 | 60.5 | 28.5 | 4495.5 |
| 10/12/1979 | 1979 | 10 | 12 | 134 | 46 | 75 | 60.5 | 28.5 | 4524 |
| 10/13/1979 | 1979 | 10 | 13 | 135 | 41 | 72 | 56.5 | 24.5 | 4548.5 |
| 10/14/1979 | 1979 | 10 | 14 | 136 | 44 | 70 | 57 | 25 | 4573.5 |
| 10/15/1979 | 1979 | 10 | 15 | 137 | 39 | 67 | 53 | 21 | 4594.5 |
| 10/16/1979 | 1979 | 10 | 16 | 138 | 38 | 70 | 54 | 22 | 4616.5 |
| 10/17/1979 | 1979 | 10 | 17 | 139 | 39 | 65 | 52 | 20 | 4636.5 |
| 10/18/1979 | 1979 | 10 | 18 | 140 | 47 | 66 | 56.5 | 24.5 | 4661 |
| 10/19/1979 | 1979 | 10 | 19 | 141 | 40 | 64 | 52 | 20 | 4681 |
| 10/20/1979 | 1979 | 10 | 20 | 142 | 39 | 60 | 49.5 | 17.5 | 4698.5 |
| 10/21/1979 | 1979 | 10 | 21 | 143 | 24 | 60 | 42 | 10 | 4708.5 |
| 10/22/1979 | 1979 | 10 | 22 | 144 | 30 | 61 | 45.5 | 13.5 | 4722 |
| 10/23/1979 | 1979 | 10 | 23 | 145 | 39 | 66 | 52.5 | 20.5 | 4742.5 |
| 10/24/1979 | 1979 | 10 | 24 | 146 | 40 | 69 | 54.5 | 22.5 | 4765 |
| 10/25/1979 | 1979 | 10 | 25 | 147 | 40 | 69 | 54.5 | 22.5 | 4787.5 |
| 10/26/1979 | 1979 | 10 | 26 | 148 | 39 | 68 | 53.5 | 21.5 | 4809 |
| 10/27/1979 | 1979 | 10 | 27 | 149 | 34 | 67 | 50.5 | 18.5 | 4827.5 |
| 10/28/1979 | 1979 | 10 | 28 | 150 | 40 | 61 | 50.5 | 18.5 | 4846 |
| 10/29/1979 | 1979 | 10 | 29 | 151 | 25 | 43 | 34 | 2 | 4848 |
| 10/30/1979 | 1979 | 10 | 30 | 152 | 17 | 41 | 29 | -3 | 4845 |
| 10/31/1979 | 1979 | 10 | 31 | 153 | 20 | 42.5 | 31.25 | -0.75 | 4844.25 |
| 11/1/1979 | 1979 | 11 | 1 | 154 | 26 | 44 | 35 | 3 | 4847.25 |
| 11/2/1979 | 1979 | 11 | 2 | 155 | 22 | 43 | 32.5 | 0.5 | 4847.75 |
| 11/3/1979 | 1979 | 11 | 3 | 156 | 21 | 43 | 32 | 0 | 4847.75 |
| 11/4/1979 | 1979 | 11 | 4 | 157 | 23 | 43 | 33 | 1 | 4848.75 |
| 11/5/1979 | 1979 | 11 | 5 | 158 | 20 | 43 | 31.5 | -0.5 | 4848.25 |
| 11/6/1979 | 1979 | 11 | 6 | 159 | 25 | 43 | 34 | 2 | 4850.25 |
| 11/7/1979 | 1979 | 11 | 7 | 160 | 25 | 43 | 34 | 2 | 4852.25 |
| 11/8/1979 | 1979 | 11 | 8 | 161 | 36 | 49 | 42.5 | 10.5 | 4862.75 |
| 11/9/1979 | 1979 | 11 | 9 | 162 | 25 | 44 | 34.5 | 2.5 | 4865.25 |
| 11/10/1979 | 1979 | 11 | 10 | 163 | 31 | 41 | 36 | 4 | 4869.25 |
| 11/11/1979 | 1979 | 11 | 11 | 164 | 29 | 41 | 35 | 3 | 4872.25 |
| 11/12/1979 | 1979 | 11 | 12 | 165 | 25 | 42 | 33.5 | 1.5 | 4873.75 |
| 11/13/1979 | 1979 | 11 | 13 | 166 | 20 | 43 | 31.5 | -0.5 | 4873.25 |
| 11/14/1979 | 1979 | 11 | 14 | 167 | 20 | 45 | 32.5 | 0.5 | 4873.75 |
| 11/15/1979 | 1979 | 11 | 15 | 168 | 23 | 43 | 33 | 1 | 4874.75 |
| 11/16/1979 | 1979 | 11 | 16 | 169 | 24 | 43 | 33.5 | 1.5 | 4876.25 |
| 11/17/1979 | 1979 | 11 | 17 | 170 | 23 | 43 | 33 | 1 | 4877.25 |
| 11/18/1979 | 1979 | 11 | 18 | 171 | 24 | 51 | 37.5 | 5.5 | 4882.75 |
| 11/19/1979 | 1979 | 11 | 19 | 172 | 23 | 49 | 36 | 4 | 4886.75 |
| 11/20/1979 | 1979 | 11 | 20 | 173 | 22 | 48 | 35 | 3 | 4889.75 |
| 11/21/1979 | 1979 | 11 | 21 | 174 | 20 | 47 | 33.5 | 1.5 | 4891.25 |
| 11/22/1979 | 1979 | 11 | 22 | 175 | 26 | 49 | 37.5 | 5.5 | 4896.75 |
| 11/23/1979 | 1979 | 11 | 23 | 176 | 18 | 42 | 30 | -2 | 4894.75 |
| 11/24/1979 | 1979 | 11 | 24 | 177 | 17 | 40 | 28.5 | -3.5 | 4891.25 |
| 11/25/1979 | 1979 | 11 | 25 | 178 | 15 | 40 | 27.5 | -4.5 | 4886.75 |
| 11/26/1979 | 1979 | 11 | 26 | 179 | 14 | 40 | 27 | -5 | 4881.75 |
| 11/27/1979 | 1979 | 11 | 27 | 180 | 9 | 40 | 24.5 | -7.5 | 4874.25 |
| 11/28/1979 | 1979 | 11 | 28 | 181 | 11 | 34 | 22.5 | -9.5 | 4864.75 |
| 11/29/1979 | 1979 | 11 | 29 | 182 | 10 | 34 | 22 | -10 | 4854.75 |
| 11/30/1979 | 1979 | 11 | 30 | 183 | 10 | 32 | 21 | -11 | 4843.75 |
| 12/1/1979 | 1979 | 12 | 1 | 184 | 9 | 43 | 26 | -6 | 4837.75 |
| 12/2/1979 | 1979 | 12 | 2 | 185 | 8 | 43 | 25.5 | -6.5 | 4831.25 |
| 12/3/1979 | 1979 | 12 | 3 | 186 | 12 | 43 | 27.5 | -4.5 | 4826.75 |
| 12/4/1979 | 1979 | 12 | 4 | 187 | 13 | 43 | 28 | -4 | 4822.75 |
| 12/5/1979 | 1979 | 12 | 5 | 188 | 10 | 43 | 26.5 | -5.5 | 4817.25 |
| 12/6/1979 | 1979 | 12 | 6 | 189 | 20 | 43 | 31.5 | -0.5 | 4816.75 |
| 12/7/1979 | 1979 | 12 | 7 | 190 | 23 | 43 | 33 | 1 | 4817.75 |
| 12/8/1979 | 1979 | 12 | 8 | 191 | 23 | 43 | 33 | 1 | 4818.75 |
| 12/9/1979 | 1979 | 12 | 9 | 192 | 15 | 43 | 29 | -3 | 4815.75 |
| 12/10/1979 | 1979 | 12 | 10 | 193 | 15 | 43 | 29 | -3 | 4812.75 |
| 12/11/1979 | 1979 | 12 | 11 | 194 | 12 | 43 | 27.5 | -4.5 | 4808.25 |
| 12/12/1979 | 1979 | 12 | 12 | 195 | 25 | 49 | 37 | 5 | 4813.25 |
| 12/13/1979 | 1979 | 12 | 13 | 196 | 23 | 50 | 36.5 | 4.5 | 4817.75 |
| 12/14/1979 | 1979 | 12 | 14 | 197 | 20 | 53 | 36.5 | 4.5 | 4822.25 |
| 12/15/1979 | 1979 | 12 | 15 | 198 | 27 | 53 | 40 | 8 | 4830.25 |
| 12/16/1979 | 1979 | 12 | 16 | 199 | 29 | 55 | 42 | 10 | 4840.25 |
| 12/17/1979 | 1979 | 12 | 17 | 200 | 20 | 55 | 37.5 | 5.5 | 4845.75 |
| 12/18/1979 | 1979 | 12 | 18 | 201 | 18 | 55 | 36.5 | 4.5 | 4850.25 |
| 12/19/1979 | 1979 | 12 | 19 | 202 | 18 | 55 | 36.5 | 4.5 | 4854.75 |
| 12/20/1979 | 1979 | 12 | 20 | 203 | 15 | 55 | 35 | 3 | 4857.75 |
| 12/21/1979 | 1979 | 12 | 21 | 204 | 16 | 45 | 30.5 | -1.5 | 4856.25 |
| 12/22/1979 | 1979 | 12 | 22 | 205 | 18 | 46 | 32 | 0 | 4856.25 |
| 12/23/1979 | 1979 | 12 | 23 | 206 | 18 | 49 | 33.5 | 1.5 | 4857.75 |
| 12/24/1979 | 1979 | 12 | 24 | 207 | 19 | 40 | 29.5 | -2.5 | 4855.25 |
| 12/25/1979 | 1979 | 12 | 25 | 208 | 19 | 40 | 29.5 | -2.5 | 4852.75 |
| 12/26/1979 | 1979 | 12 | 26 | 209 | 19 | 39 | 29 | -3 | 4849.75 |
| 12/27/1979 | 1979 | 12 | 27 | 210 | 18 | 39 | 28.5 | -3.5 | 4846.25 |
| 12/28/1979 | 1979 | 12 | 28 | 211 | 12 | 39 | 25.5 | -6.5 | 4839.75 |

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| 12/30/1979 | 1979 | 12 | 30 | 213 | 15 | 42 | 28.5 | -3.5 | 4831.25 |
| 12/31/1979 | 1979 | 12 | 31 | 214 | 8 | 36 | 22 | -10 | 4821.25 |
| 1/1/1980 | 1980 | 1 | 1 | 215 | 8 | 30 | 19 | -13 | 4808.25 |
| 1/2/1980 | 1980 | 1 | 2 | 216 | 7 | 30 | 18.5 | -13.5 | 4794.75 |
| 1/3/1980 | 1980 | 1 | 3 | 217 | 7 | 29 | 18 | -14 | 4780.75 |
| 1/4/1980 | 1980 | 1 | 4 | 218 | 11 | 28 | 19.5 | -12.5 | 4768.25 |
| 1/5/1980 | 1980 | 1 | 5 | 219 | 15 | 30 | 60.5 | 28.5 | 4796.75 |
| 1/6/1980 | 1980 | 1 | 6 | 220 | 14 | 29 | 60.5 | 28.5 | 4825.25 |
| 1/7/1980 | 1980 | 1 | 7 | 221 | 14 | 30 | 22 | -10 | 4815.25 |
| 1/8/1980 | 1980 | 1 | 8 | 222 | 25 | 39 | 32 | 0 | 4815.25 |
| 1/9/1980 | 1980 | 1 | 9 | 223 | 13 | 40 | 26.5 | -5.5 | 4809.75 |
| 1/10/1980 | 1980 | 1 | 10 | 224 | 13 | 40 | 26.5 | -5.5 | 4804.25 |
| 1/11/1980 | 1980 | 1 | 11 | 225 | 17 | 37 | 27 | -5 | 4799.25 |
| 1/12/1980 | 1980 | 1 | 12 | 226 | 10 | 38 | 24 | -8 | 4791.25 |
| 1/13/1980 | 1980 | 1 | 13 | 227 | 15 | 39 | 27 | -5 | 4786.25 |
| 1/14/1980 | 1980 | 1 | 14 | 228 | 18 | 39 | 28.5 | -3.5 | 4782.75 |
| 1/15/1980 | 1980 | 1 | 15 | 229 | 20 | 40 | 30 | -2 | 4780.75 |
| 1/16/1980 | 1980 | 1 | 16 | 230 | 20 | 40 | 30 | -2 | 4778.75 |
| 1/17/1980 | 1980 | 1 | 17 | 231 | 18 | 42 | 30 | -2 | 4776.75 |
| 1/18/1980 | 1980 | 1 | 18 | 232 | 19 | 42 | 30.5 | -1.5 | 4775.25 |
| 1/19/1980 | 1980 | 1 | 19 | 233 | 15 | 40 | 27.5 | -4.5 | 4770.75 |
| 1/20/1980 | 1980 | 1 | 20 | 234 | 18 | 43 | 30.5 | -1.5 | 4769.25 |
| 1/21/1980 | 1980 | 1 | 21 | 235 | 19 | 40 | 29.5 | -2.5 | 4766.75 |
| 1/22/1980 | 1980 | 1 | 22 | 236 | 15 | 39 | 27 | -5 | 4761.75 |
| 1/23/1980 | 1980 | 1 | 23 | 237 | 19 | 36 | 27.5 | -4.5 | 4757.25 |
| 1/24/1980 | 1980 | 1 | 24 | 238 | 16 | 37 | 26.5 | -5.5 | 4751.75 |
| 1/25/1980 | 1980 | 1 | 25 | 239 | 15 | 36 | 25.5 | -6.5 | 4745.25 |
| 1/26/1980 | 1980 | 1 | 26 | 240 | 19 | 40 | 29.5 | -2.5 | 4742.75 |
| 1/27/1980 | 1980 | 1 | 27 | 241 | 12 | 39 | 25.5 | -6.5 | 4736.25 |
| 1/28/1980 | 1980 | 1 | 28 | 242 | 19 | 41 | 30 | -2 | 4734.25 |
| 1/29/1980 | 1980 | 1 | 29 | 243 | 18 | 42 | 30 | -2 | 4732.25 |
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| 2/27/1980 | 1980 | 2 | 27 | 272 | 25 | 53 | 39 | 7 | 4686.25 |
| 2/28/1980 | 1980 | 2 | 28 | 273 | 27 | 60 | 43.5 | 11.5 | 4697.75 |
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| 4/16/1980 | 1980 | 4 | 16 | 321 | 25 | 58 | 41.5 | 9.5 | 4969.75 |
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| 5/10/1980 | 1980 | 5 | 10 | 345 | 47 | 70 | 58.5 | 26.5 | 5386.25 |
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| 5/14/1980 | 1980 | 5 | 14 | 349 | 32 | 65 | 48.5 | 16.5 | 5453.75 |
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| 5/21/1980 | 1980 | 5 | 21 | 356 | 46 | 79 | 62.5 | 30.5 | 5615.25 |
| 5/22/1980 | 1980 | 5 | 22 | 357 | 50 | 76 | 63 | 31 | 5646.25 |
| 5/23/1980 | 1980 | 5 | 23 | 358 | 40 | 77 | 58.5 | 26.5 | 5672.75 |
| 5/24/1980 | 1980 | 5 | 24 | 359 | 45 | 69 | 57 | 25 | 5697.75 |
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| 5/26/1980 | 1980 | 5 | 26 | 361 | 35 | 74 | 54.5 | 22.5 | 5735.75 |
| 5/27/1980 | 1980 | 5 | 27 | 362 | 40 | 75 | 57.5 | 25.5 | 5761.25 |
| 5/28/1980 | 1980 | 5 | 28 | 363 | 38 | 74 | 56 | 24 | 5785.25 |
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| 6/1/1980 | 1980 | 6 | 1 | 1 | 40 | 75 | 57.5 | 25.5 | 25.5 |
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| 6/3/1980 | 1980 | 6 | 3 | 3 | 39 | 79 | 59 | 27 | 76.5 |
| 6/4/1980 | 1980 | 6 | 4 | 4 | 43 | 80 | 61.5 | 29.5 | 106 |
| 6/5/1980 | 1980 | 6 | 5 | 5 | 44 | 81 | 62.5 | 30.5 | 136.5 |
| 6/6/1980 | 1980 | 6 | 6 | 6 | 45 | 82 | 63.5 | 31.5 | 168 |
| 6/7/1980 | 1980 | 6 | 7 | 7 | 52 | 81 | 66.5 | 34.5 | 202.5 |
| 6/8/1980 | 1980 | 6 | 8 | 8 | 48 | 85 | 66.5 | 34.5 | 237 |
| 6/9/1980 | 1980 | 6 | 9 | 9 | 49 | 84 | 66.5 | 34.5 | 271.5 |
| 6/10/1980 | 1980 | 6 | 10 | 10 | 51 | 85 | 68 | 36 | 307.5 |
| 6/11/1980 | 1980 | 6 | 11 | 11 | 50 | 84 | 67 | 35 | 342.5 |
| 6/12/1980 | 1980 | 6 | 12 | 12 | 49 | 86 | 67.5 | 35.5 | 378 |
| 6/13/1980 | 1980 | 6 | 13 | 13 | 48 | 87 | 67.5 | 35.5 | 413.5 |
| 6/14/1980 | 1980 | 6 | 14 | 14 | 50 | 85 | 67.5 | 35.5 | 449 |
| 6/15/1980 | 1980 | 6 | 15 | 15 | 48 | 85 | 66.5 | 34.5 | 483.5 |
| 6/16/1980 | 1980 | 6 | 16 | 16 | 47 | 86 | 66.5 | 34.5 | 518 |
| 6/17/1980 | 1980 | 6 | 17 | 17 | 52 | 90 | 71 | 39 | 557 |
| 6/18/1980 | 1980 | 6 | 18 | 18 | 58 | 88 | 73 | 41 | 598 |
| 6/19/1980 | 1980 | 6 | 19 | 19 | 56 | 87 | 71.5 | 39.5 | 637.5 |
| 6/20/1980 | 1980 | 6 | 20 | 20 | 57 | 85 | 71 | 39 | 676.5 |
| 6/21/1980 | 1980 | 6 | 21 | 21 | 54 | 84 | 69 | 37 | 713.5 |
| 6/22/1980 | 1980 | 6 | 22 | 22 | 53 | 83 | 68 | 36 | 749.5 |
| 6/23/1980 | 1980 | 6 | 23 | 23 | 53 | 82 | 67.5 | 35.5 | 785 |
| 6/24/1980 | 1980 | 6 | 24 | 24 | 52 | 87 | 69.5 | 37.5 | 822.5 |
| 6/25/1980 | 1980 | 6 | 25 | 25 | 55 | 88 | 71.5 | 39.5 | 862 |
| 6/26/1980 | 1980 | 6 | 26 | 26 | 56 | 89 | 72.5 | 40.5 | 902.5 |
| 6/27/1980 | 1980 | 6 | 27 | 27 | 59 | 87 | 73 | 41 | 943.5 |
| 6/28/1980 | 1980 | 6 | 28 | 28 | 60 | 90 | 75 | 43 | 986.5 |
| 6/29/1980 | 1980 | 6 | 29 | 29 | 62 | 89 | 75.5 | 43.5 | 1030 |
| 6/30/1980 | 1980 | 6 | 30 | 30 | 60 | 92 | 76 | 44 | 1074 |
| 7/1/1980 | 1980 | 7 | 1 | 31 | 57 | 90 | 73.5 | 41.5 | 1115.5 |

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| 7/7/1980 | 1980 | 7 | 7 | 37 | 60 | 87 | 73.5 | 41.5 | 1363.5 |
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| 7/12/1980 | 1980 | 7 | 12 | 42 | 57 | 89 | 73 | 41 | 1565.5 |
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| 7/24/1980 | 1980 | 7 | 24 | 54 | 53 | 83 | 68 | 36 | 2035.5 |
| 7/25/1980 | 1980 | 7 | 25 | 55 | 55 | 85 | 70 | 38 | 2073.5 |
| 7/26/1980 | 1980 | 7 | 26 | 56 | 56 | 90 | 73 | 41 | 2114.5 |
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| 8/29/1980 | 1980 | 8 | 29 | 90 | 54 | 79 | 66.5 | 34.5 | 3353.6 |
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| 3/11/1982 | 1982 | 3 | 11 | 283 | 29 | 51 | 40 | 8 | 4794 |
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| 3/27/1982 | 1982 | 3 | 27 | 299 | 28 | 58 | 43 | 11 | 4889.5 |
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| 6/7/1982 | 1982 | 6 | 7 | 7 | 48 | 80 | 64 | 32 | 203 |
| 6/8/1982 | 1982 | 6 | 8 | 8 | 50 | 79 | 64.5 | 32.5 | 235.5 |
| 6/9/1982 | 1982 | 6 | 9 | 9 | 46 | 82 | 64 | 32 | 267.5 |
| 6/10/1982 | 1982 | 6 | 10 | 10 | 45 | 81 | 63 | 31 | 298.5 |
| 6/11/1982 | 1982 | 6 | 11 | 11 | 50 | 80 | 65 | 33 | 331.5 |
| 6/12/1982 | 1982 | 6 | 12 | 12 | 51 | 83 | 67 | 35 | 366.5 |
| 6/13/1982 | 1982 | 6 | 13 | 13 | 52 | 82 | 67 | 35 | 401.5 |
| 6/14/1982 | 1982 | 6 | 14 | 14 | 48 | 83 | 65.5 | 33.5 | 435 |
| 6/15/1982 | 1982 | 6 | 15 | 15 | 47 | 79 | 63 | 31 | 466 |
| 6/16/1982 | 1982 | 6 | 16 | 16 | 48 | 80 | 64 | 32 | 498 |
| 6/17/1982 | 1982 | 6 | 17 | 17 | 52 | 83 | 67.5 | 35.5 | 533.5 |
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| 6/23/1982 | 1982 | 6 | 23 | 23 | 47 | 80 | 63.5 | 31.5 | 724.5 |
| 6/24/1982 | 1982 | 6 | 24 | 24 | 50 | 86 | 68 | 36 | 760.5 |
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| 4/19/1984 | 1984 | 4 | 19 | 324 | 45 | 69 | 57 | 25 | 4816.5 |
| 4/20/1984 | 1984 | 4 | 20 | 325 | 40 | 66 | 53 | 21 | 4837.5 |
| 4/21/1984 | 1984 | 4 | 21 | 326 | 25 | 61 | 43 | 11 | 4848.5 |
| 4/22/1984 | 1984 | 4 | 22 | 327 | 31 | 48 | 39.5 | 7.5 | 4856 |
| 4/23/1984 | 1984 | 4 | 23 | 328 | 25 | 54 | 39.5 | 7.5 | 4863.5 |
| 4/24/1984 | 1984 | 4 | 24 | 329 | 31 | 64 | 47.5 | 15.5 | 4879 |
| 4/25/1984 | 1984 | 4 | 25 | 330 | 30 | 66 | 48 | 16 | 4895 |
| 4/26/1984 | 1984 | 4 | 26 | 331 | 36 | 69 | 52.5 | 20.5 | 4915.5 |
| 4/27/1984 | 1984 | 4 | 27 | 332 | 37 | 67 | 52 | 20 | 4935.5 |
| 4/28/1984 | 1984 | 4 | 28 | 333 | 30 | 57 | 43.5 | 11.5 | 4947 |

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| 4/29/1984 | 1984 | 4 | 29 | 334 | 21 | 43 | 32 | 0 | 4947 |
| 4/30/1984 | 1984 | 4 | 30 | 335 | 27 | 50 | 38.5 | 6.5 | 4953.5 |
| 5/1/1984 | 1984 | 5 | 1 | 336 | 39 | 63 | 51 | 19 | 4972.5 |
| 5/2/1984 | 1984 | 5 | 2 | 337 | 38 | 64 | 51 | 19 | 4991.5 |
| 5/3/1984 | 1984 | 5 | 3 | 338 | 35 | 69 | 52 | 20 | 5011.5 |
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| 5/5/1984 | 1984 | 5 | 5 | 340 | 44 | 71 | 57.5 | 25.5 | 5057 |
| 5/6/1984 | 1984 | 5 | 6 | 341 | 48 | 69 | 58.5 | 26.5 | 5083.5 |
| 5/7/1984 | 1984 | 5 | 7 | 342 | 43 | 68 | 55.5 | 23.5 | 5107 |
| 5/8/1984 | 1984 | 5 | 8 | 343 | 35 | 67 | 51 | 19 | 5126 |
| 5/9/1984 | 1984 | 5 | 9 | 344 | 30 | 71 | 50.5 | 18.5 | 5144.5 |
| 5/10/1984 | 1984 | 5 | 10 | 345 | 39 | 72 | 55.5 | 23.5 | 5168 |
| 5/11/1984 | 1984 | 5 | 11 | 346 | 47 | 78 | 62.5 | 30.5 | 5198.5 |
| 5/12/1984 | 1984 | 5 | 12 | 347 | 53 | 80 | 66.5 | 34.5 | 5233 |
| 5/13/1984 | 1984 | 5 | 13 | 348 | 54 | 79 | 66.5 | 34.5 | 5267.5 |
| 5/14/1984 | 1984 | 5 | 14 | 349 | 49 | 80 | 64.5 | 32.5 | 5300 |
| 5/15/1984 | 1984 | 5 | 15 | 350 | 49 | 76 | 62.5 | 30.5 | 5330.5 |
| 5/16/1984 | 1984 | 5 | 16 | 351 | 41 | 66 | 53.5 | 21.5 | 5352 |
| 5/17/1984 | 1984 | 5 | 17 | 352 | 39 | 64 | 51.5 | 19.5 | 5371.5 |
| 5/18/1984 | 1984 | 5 | 18 | 353 | 44 | 70 | 57 | 25 | 5396.5 |
| 5/19/1984 | 1984 | 5 | 19 | 354 | 42 | 74 | 58 | 26 | 5422.5 |
| 5/20/1984 | 1984 | 5 | 20 | 355 | 44 | 74 | 59 | 27 | 5449.5 |
| 5/21/1984 | 1984 | 5 | 21 | 356 | 43 | 75 | 59 | 27 | 5476.5 |
| 5/22/1984 | 1984 | 5 | 22 | 357 | 46 | 80 | 63 | 31 | 5507.5 |
| 5/23/1984 | 1984 | 5 | 23 | 358 | 55 | 80 | 67.5 | 35.5 | 5543 |
| 5/24/1984 | 1984 | 5 | 24 | 359 | 54 | 85 | 69.5 | 37.5 | 5580.5 |
| 5/25/1984 | 1984 | 5 | 25 | 360 | 52 | 86 | 69 | 37 | 5617.5 |
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| 5/28/1984 | 1984 | 5 | 28 | 363 | 51 | 87 | 69 | 37 | 5725.5 |
| 5/29/1984 | 1984 | 5 | 29 | 364 | 52 | 84 | 68 | 36 | 5761.5 |
| 5/30/1984 | 1984 | 5 | 30 | 365 | 49 | 78 | 63.5 | 31.5 | 5793 |
| 5/31/1984 | 1984 | 5 | 31 | 366 | 47 | 80 | 63.5 | 31.5 | 5824.5 |
| 6/1/1984 | 1984 | 6 | 1 | 1 | 45 | 71 | 58 | 26 | 26 |
| 6/2/1984 | 1984 | 6 | 2 | 2 | 46 | 76 | 61 | 29 | 55 |
| 6/3/1984 | 1984 | 6 | 3 | 3 | 54 | 74 | 64 | 32 | 87 |
| 6/4/1984 | 1984 | 6 | 4 | 4 | 50 | 73 | 61.5 | 29.5 | 116.5 |
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| 6/6/1984 | 1984 | 6 | 6 | 6 | 44 | 73 | 58.5 | 26.5 | 173.5 |
| 6/7/1984 | 1984 | 6 | 7 | 7 | 48 | 74 | 61 | 29 | 202.5 |
| 6/8/1984 | 1984 | 6 | 8 | 8 | 44 | 75 | 59.5 | 27.5 | 230 |
| 6/9/1984 | 1984 | 6 | 9 | 9 | 39 | 74 | 56.5 | 24.5 | 254.5 |
| 6/10/1984 | 1984 | 6 | 10 | 10 | 50 | 82 | 66 | 34 | 288.5 |
| 6/11/1984 | 1984 | 6 | 11 | 11 | 49 | 81 | 65 | 33 | 321.5 |
| 6/12/1984 | 1984 | 6 | 12 | 12 | 51 | 80 | 65.5 | 33.5 | 355 |
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| 6/15/1984 | 1984 | 6 | 15 | 15 | 49 | 76 | 62.5 | 30.5 | 455.5 |
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| 6/18/1984 | 1984 | 6 | 18 | 18 | 53 | 82 | 67.5 | 35.5 | 551 |
| 6/19/1984 | 1984 | 6 | 19 | 19 | 52 | 83 | 67.5 | 35.5 | 586.5 |
| 6/20/1984 | 1984 | 6 | 20 | 20 | 47 | 79 | 63 | 31 | 617.5 |
| 6/21/1984 | 1984 | 6 | 21 | 21 | 50 | 80 | 65 | 33 | 650.5 |
| 6/22/1984 | 1984 | 6 | 22 | 22 | 56 | 82 | 69 | 37 | 687.5 |
| 6/23/1984 | 1984 | 6 | 23 | 23 | 55 | 81 | 68 | 36 | 723.5 |
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| 6/25/1984 | 1984 | 6 | 25 | 25 | 55 | 77 | 66 | 34 | 795 |
| 6/26/1984 | 1984 | 6 | 26 | 26 | 54 | 78 | 66 | 34 | 829 |
| 6/27/1984 | 1984 | 6 | 27 | 27 | 53 | 80 | 66.5 | 34.5 | 863.5 |
| 6/28/1984 | 1984 | 6 | 28 | 28 | 54 | 83 | 68.5 | 36.5 | 900 |
| 6/29/1984 | 1984 | 6 | 29 | 29 | 61 | 84 | 72.5 | 40.5 | 940.5 |
| 6/30/1984 | 1984 | 6 | 30 | 30 | 58 | 83 | 70.5 | 38.5 | 979 |
| 7/1/1984 | 1984 | 7 | 1 | 31 | 58 | 79 | 68.5 | 36.5 | 1015.5 |
| 7/2/1984 | 1984 | 7 | 2 | 32 | 55 | 86 | 70.5 | 38.5 | 1054 |
| 7/3/1984 | 1984 | 7 | 3 | 33 | 58 | 87 | 72.5 | 40.5 | 1094.5 |
| 7/4/1984 | 1984 | 7 | 4 | 34 | 56 | 88 | 72 | 40 | 1134.5 |
| 7/5/1984 | 1984 | 7 | 5 | 35 | 59 | 86 | 72.5 | 40.5 | 1175 |
| 7/6/1984 | 1984 | 7 | 6 | 36 | 58 | 85 | 71.5 | 39.5 | 1214.5 |
| 7/7/1984 | 1984 | 7 | 7 | 37 | 50 | 83 | 66.5 | 34.5 | 1249 |
| 7/8/1984 | 1984 | 7 | 8 | 38 | 64 | 84 | 74 | 42 | 1291 |
| 7/9/1984 | 1984 | 7 | 9 | 39 | 59 | 80 | 69.5 | 37.5 | 1328.5 |
| 7/10/1984 | 1984 | 7 | 10 | 40 | 57 | 81 | 69 | 37 | 1365.5 |
| 7/11/1984 | 1984 | 7 | 11 | 41 | 58 | 79 | 68.5 | 36.5 | 1402 |
| 7/12/1984 | 1984 | 7 | 12 | 42 | 55 | 75 | 65 | 33 | 1435 |
| 7/13/1984 | 1984 | 7 | 13 | 43 | 56 | 77 | 66.5 | 34.5 | 1469.5 |
| 7/14/1984 | 1984 | 7 | 14 | 44 | 57 | 82 | 69.5 | 37.5 | 1507 |
| 7/15/1984 | 1984 | 7 | 15 | 45 | 58 | 86 | 72 | 40 | 1547 |
| 7/16/1984 | 1984 | 7 | 16 | 46 | 61 | 83 | 72 | 40 | 1587 |
| 7/17/1984 | 1984 | 7 | 17 | 47 | 52 | 77 | 64.5 | 32.5 | 1619.5 |
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| 7/20/1984 | 1984 | 7 | 20 | 50 | 57 | 85 | 71 | 39 | 1730.5 |
| 7/21/1984 | 1984 | 7 | 21 | 51 | 54 | 87 | 70.5 | 38.5 | 1769 |
| 7/22/1984 | 1984 | 7 | 22 | 52 | 55 | 84 | 69.5 | 37.5 | 1806.5 |
| 7/23/1984 | 1984 | 7 | 23 | 53 | 59 | 80 | 69.5 | 37.5 | 1844 |
| 7/24/1984 | 1984 | 7 | 24 | 54 | 56 | 80 | 68 | 36 | 1880 |
| 7/25/1984 | 1984 | 7 | 25 | 55 | 57 | 77 | 67 | 35 | 1915 |
| 7/26/1984 | 1984 | 7 | 26 | 56 | 56 | 75 | 65.5 | 33.5 | 1948.5 |
| 7/27/1984 | 1984 | 7 | 27 | 57 | 55 | 78 | 66.5 | 34.5 | 1983 |
| 7/28/1984 | 1984 | 7 | 28 | 58 | 56 | 80 | 68 | 36 | 2019 |
| 7/29/1984 | 1984 | 7 | 29 | 59 | 59 | 78 | 68.5 | 36.5 | 2055.5 |
| 7/30/1984 | 1984 | 7 | 30 | 60 | 54 | 81 | 67.5 | 35.5 | 2091 |

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| 7/31/1984 | 1984 | 7 | 31 | 61 | 57 | 82 | 69.5 | 37.5 | 2128.5 |
| 8/1/1984 | 1984 | 8 | 1 | 62 | 59 | 84 | 71.5 | 39.5 | 2168 |
| 8/2/1984 | 1984 | 8 | 2 | 63 | 58 | 81 | 69.5 | 37.5 | 2205.5 |
| 8/3/1984 | 1984 | 8 | 3 | 64 | 56 | 83 | 69.5 | 37.5 | 2243 |
| 8/4/1984 | 1984 | 8 | 4 | 65 | 55 | 82 | 68.5 | 36.5 | 2279.5 |
| 8/5/1984 | 1984 | 8 | 5 | 66 | 54 | 79 | 66.5 | 34.5 | 2314 |
| 8/6/1984 | 1984 | 8 | 6 | 67 | 56 | 76 | 66 | 34 | 2348 |
| 8/7/1984 | 1984 | 8 | 7 | 68 | 54 | 82 | 68 | 36 | 2384 |
| 8/8/1984 | 1984 | 8 | 8 | 69 | 53 | 81 | 67 | 35 | 2419 |
| 8/9/1984 | 1984 | 8 | 9 | 70 | 50 | 79 | 64.5 | 32.5 | 2451.5 |
| 8/10/1984 | 1984 | 8 | 10 | 71 | 54 | 74 | 64 | 32 | 2483.5 |
| 8/11/1984 | 1984 | 8 | 11 | 72 | 51 | 76 | 63.5 | 31.5 | 2515 |
| 8/12/1984 | 1984 | 8 | 12 | 73 | 56 | 79 | 67.5 | 35.5 | 2550.5 |
| 8/13/1984 | 1984 | 8 | 13 | 74 | 55 | 78 | 66.5 | 34.5 | 2585 |
| 8/14/1984 | 1984 | 8 | 14 | 75 | 52 | 79 | 65.5 | 33.5 | 2618.5 |
| 8/15/1984 | 1984 | 8 | 15 | 76 | 56 | 78 | 67 | 35 | 2653.5 |
| 8/16/1984 | 1984 | 8 | 16 | 77 | 55 | 79 | 67 | 35 | 2688.5 |
| 8/17/1984 | 1984 | 8 | 17 | 78 | 53 | 78 | 65.5 | 33.5 | 2722 |
| 8/18/1984 | 1984 | 8 | 18 | 79 | 54 | 79 | 66.5 | 34.5 | 2756.5 |
| 8/19/1984 | 1984 | 8 | 19 | 80 | 57 | 78 | 67.5 | 35.5 | 2792 |
| 8/20/1984 | 1984 | 8 | 20 | 81 | 56 | 77 | 66.5 | 34.5 | 2826.5 |
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| 8/22/1984 | 1984 | 8 | 22 | 83 | 51 | 82 | 66.5 | 34.5 | 2897.5 |
| 8/23/1984 | 1984 | 8 | 23 | 84 | 55 | 72 | 63.5 | 31.5 | 2929 |
| 8/24/1984 | 1984 | 8 | 24 | 85 | 49 | 69 | 59 | 27 | 2956 |
| 8/25/1984 | 1984 | 8 | 25 | 86 | 52 | 79 | 65.5 | 33.5 | 2989.5 |
| 8/26/1984 | 1984 | 8 | 26 | 87 | 54 | 78 | 66 | 34 | 3023.5 |
| 8/27/1984 | 1984 | 8 | 27 | 88 | 52 | 79 | 65.5 | 33.5 | 3057 |
| 8/28/1984 | 1984 | 8 | 28 | 89 | 58 | 78 | 68 | 36 | 3093 |
| 8/29/1984 | 1984 | 8 | 29 | 90 | 57 | 82 | 69.5 | 37.5 | 3130.5 |
| 8/30/1984 | 1984 | 8 | 30 | 91 | 59 | 84 | 71.5 | 39.5 | 3170 |
| 8/31/1984 | 1984 | 8 | 31 | 92 | 58 | 81 | 69.5 | 37.5 | 3207.5 |
| 9/1/1984 | 1984 | 9 | 1 | 93 | 54 | 74 | 64 | 32 | 3239.5 |
| 9/2/1984 | 1984 | 9 | 2 | 94 | 49 | 78 | 63.5 | 31.5 | 3271 |
| 9/3/1984 | 1984 | 9 | 3 | 95 | 48 | 79 | 63.5 | 31.5 | 3302.5 |
| 9/4/1984 | 1984 | 9 | 4 | 96 | 47 | 72 | 59.5 | 27.5 | 3330 |
| 9/5/1984 | 1984 | 9 | 5 | 97 | 50 | 78 | 64 | 32 | 3362 |
| 9/6/1984 | 1984 | 9 | 6 | 98 | 48 | 78 | 63 | 31 | 3393 |
| 9/7/1984 | 1984 | 9 | 7 | 99 | 54 | 76 | 65 | 33 | 3426 |
| 9/8/1984 | 1984 | 9 | 8 | 100 | 47 | 79 | 63 | 31 | 3457 |
| 9/9/1984 | 1984 | 9 | 9 | 101 | 46 | 80 | 63 | 31 | 3488 |
| 9/10/1984 | 1984 | 9 | 10 | 102 | 55 | 84 | 69.5 | 37.5 | 3525.5 |
| 9/11/1984 | 1984 | 9 | 11 | 103 | 56 | 81 | 68.5 | 36.5 | 3562 |
| 9/12/1984 | 1984 | 9 | 12 | 104 | 50 | 76 | 63 | 31 | 3593 |
| 9/13/1984 | 1984 | 9 | 13 | 105 | 56 | 77 | 66.5 | 34.5 | 3627.5 |
| 9/14/1984 | 1984 | 9 | 14 | 106 | 55 | 80 | 67.5 | 35.5 | 3663 |
| 9/15/1984 | 1984 | 9 | 15 | 107 | 50 | 75 | 62.5 | 30.5 | 3693.5 |
| 9/16/1984 | 1984 | 9 | 16 | 108 | 52 | 70 | 61 | 29 | 3722.5 |
| 9/17/1984 | 1984 | 9 | 17 | 109 | 53 | 65 | 59 | 27 | 3749.5 |
| 9/18/1984 | 1984 | 9 | 18 | 110 | 48 | 72 | 60 | 28 | 3777.5 |
| 9/19/1984 | 1984 | 9 | 19 | 111 | 50 | 75 | 62.5 | 30.5 | 3808 |
| 9/20/1984 | 1984 | 9 | 20 | 112 | 52 | 76 | 64 | 32 | 3840 |
| 9/21/1984 | 1984 | 9 | 21 | 113 | 51 | 73 | 62 | 30 | 3870 |
| 9/22/1984 | 1984 | 9 | 22 | 114 | 49 | 68 | 58.5 | 26.5 | 3896.5 |
| 9/23/1984 | 1984 | 9 | 23 | 115 | 47 | 70 | 58.5 | 26.5 | 3923 |
| 9/24/1984 | 1984 | 9 | 24 | 116 | 52 | 72 | 62 | 30 | 3953 |
| 9/25/1984 | 1984 | 9 | 25 | 117 | 46 | 71 | 58.5 | 26.5 | 3979.5 |
| 9/26/1984 | 1984 | 9 | 26 | 118 | 41 | 58 | 49.5 | 17.5 | 3997 |
| 9/27/1984 | 1984 | 9 | 27 | 119 | 40 | 59 | 49.5 | 17.5 | 4014.5 |
| 9/28/1984 | 1984 | 9 | 28 | 120 | 41 | 63 | 52 | 20 | 4034.5 |
| 9/29/1984 | 1984 | 9 | 29 | 121 | 39 | 64 | 51.5 | 19.5 | 4054 |
| 9/30/1984 | 1984 | 9 | 30 | 122 | 36 | 67 | 51.5 | 19.5 | 4073.5 |
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| 10/3/1984 | 1984 | 10 | 3 | 125 | 39 | 63 | 51 | 19 | 4141.5 |
| 10/4/1984 | 1984 | 10 | 4 | 126 | 38 | 62 | 50 | 18 | 4159.5 |
| 10/5/1984 | 1984 | 10 | 5 | 127 | 38 | 60 | 49 | 17 | 4176.5 |
| 10/6/1984 | 1984 | 10 | 6 | 128 | 38 | 59 | 48.5 | 16.5 | 4193 |
| 10/7/1984 | 1984 | 10 | 7 | 129 | 32 | 58 | 45 | 13 | 4206 |
| 10/8/1984 | 1984 | 10 | 8 | 130 | 38 | 63 | 50.5 | 18.5 | 4224.5 |
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| 10/10/1984 | 1984 | 10 | 10 | 132 | 43 | 63 | 53 | 21 | 4264.5 |
| 10/11/1984 | 1984 | 10 | 11 | 133 | 42 | 64 | 53 | 21 | 4285.5 |
| 10/12/1984 | 1984 | 10 | 12 | 134 | 41 | 62 | 51.5 | 19.5 | 4305 |
| 10/13/1984 | 1984 | 10 | 13 | 135 | 32 | 55 | 43.5 | 11.5 | 4316.5 |
| 10/14/1984 | 1984 | 10 | 14 | 136 | 30 | 54 | 42 | 10 | 4326.5 |
| 10/15/1984 | 1984 | 10 | 15 | 137 | 30 | 50 | 40 | 8 | 4334.5 |
| 10/16/1984 | 1984 | 10 | 16 | 138 | 28 | 34 | 31 | -1 | 4333.5 |
| 10/17/1984 | 1984 | 10 | 17 | 139 | 28 | 57 | 42.5 | 10.5 | 4344 |
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| 10/20/1984 | 1984 | 10 | 20 | 142 | 28 | 48 | 38 | 6 | 4360.5 |
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| 10/22/1984 | 1984 | 10 | 22 | 144 | 28 | 42 | 35 | 3 | 4368 |
| 10/23/1984 | 1984 | 10 | 23 | 145 | 30 | 44 | 37 | 5 | 4373 |
| 10/24/1984 | 1984 | 10 | 24 | 146 | 29 | 37 | 33 | 1 | 4374 |
| 10/25/1984 | 1984 | 10 | 25 | 147 | 27 | 45 | 36 | 4 | 4378 |
| 10/26/1984 | 1984 | 10 | 26 | 148 | 27 | 51 | 39 | 7 | 4385 |
| 10/27/1984 | 1984 | 10 | 27 | 149 | 30 | 52 | 41 | 9 | 4394 |
| 10/28/1984 | 1984 | 10 | 28 | 150 | 31 | 53 | 42 | 10 | 4404 |
| 10/29/1984 | 1984 | 10 | 29 | 151 | 33 | 59 | 46 | 14 | 4418 |
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| 10/31/1984 | 1984 | 10 | 31 | 153 | 38 | 60 | 49 | 17 | 4451.5 |

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| 11/4/1984 | 1984 | 11 | 4 | 157 | 33 | 57 | 45 | 13 | 4503 |
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| 11/6/1984 | 1984 | 11 | 6 | 159 | 35 | 60 | 47.5 | 15.5 | 4532 |
| 11/7/1984 | 1984 | 11 | 7 | 160 | 36 | 61 | 48.5 | 16.5 | 4548.5 |
| 11/8/1984 | 1984 | 11 | 8 | 161 | 37 | 59 | 48 | 16 | 4564.5 |
| 11/9/1984 | 1984 | 11 | 9 | 162 | 31 | 55 | 43 | 11 | 4575.5 |
| 11/10/1984 | 1984 | 11 | 10 | 163 | 21 | 49 | 35 | 3 | 4578.5 |
| 11/11/1984 | 1984 | 11 | 11 | 164 | 29 | 56 | 42.5 | 10.5 | 4589 |
| 11/12/1984 | 1984 | 11 | 12 | 165 | 30 | 61 | 45.5 | 13.5 | 4602.5 |
| 11/13/1984 | 1984 | 11 | 13 | 166 | 33 | 59 | 46 | 14 | 4616.5 |
| 11/14/1984 | 1984 | 11 | 14 | 167 | 30 | 57 | 43.5 | 11.5 | 4628 |
| 11/15/1984 | 1984 | 11 | 15 | 168 | 29 | 55 | 42 | 10 | 4638 |
| 11/16/1984 | 1984 | 11 | 16 | 169 | 28 | 54 | 41 | 9 | 4647 |
| 11/17/1984 | 1984 | 11 | 17 | 170 | 32 | 51 | 41.5 | 9.5 | 4656.5 |
| 11/18/1984 | 1984 | 11 | 18 | 171 | 30 | 42 | 36 | 4 | 4660.5 |
| 11/19/1984 | 1984 | 11 | 19 | 172 | 24 | 44 | 34 | 2 | 4662.5 |
| 11/20/1984 | 1984 | 11 | 20 | 173 | 23 | 45 | 34 | 2 | 4664.5 |
| 11/21/1984 | 1984 | 11 | 21 | 174 | 20 | 52 | 36 | 4 | 4668.5 |
| 11/22/1984 | 1984 | 11 | 22 | 175 | 21 | 42 | 31.5 | -0.5 | 4668 |
| 11/23/1984 | 1984 | 11 | 23 | 176 | 27 | 48 | 37.5 | 5.5 | 4673.5 |
| 11/24/1984 | 1984 | 11 | 24 | 177 | 30 | 47 | 38.5 | 6.5 | 4680 |
| 11/25/1984 | 1984 | 11 | 25 | 178 | 26 | 39 | 32.5 | 0.5 | 4680.5 |
| 11/26/1984 | 1984 | 11 | 26 | 179 | 16 | 31 | 23.5 | -8.5 | 4672 |
| 11/27/1984 | 1984 | 11 | 27 | 180 | 8 | 30 | 19 | -13 | 4659 |
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| 11/29/1984 | 1984 | 11 | 29 | 182 | 12 | 40 | 26 | -6 | 4645.5 |
| 11/30/1984 | 1984 | 11 | 30 | 183 | 19 | 34 | 26.5 | -5.5 | 4640 |
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| 12/2/1984 | 1984 | 12 | 2 | 185 | 21 | 40 | 30.5 | -1.5 | 4636.5 |
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| 12/4/1984 | 1984 | 12 | 4 | 187 | 22 | 42 | 32 | 0 | 4637 |
| 12/5/1984 | 1984 | 12 | 5 | 188 | 21 | 40 | 30.5 | -1.5 | 4635.5 |
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| 12/7/1984 | 1984 | 12 | 7 | 190 | 22 | 51 | 36.5 | 4.5 | 4636.5 |
| 12/8/1984 | 1984 | 12 | 8 | 191 | 25 | 50 | 37.5 | 5.5 | 4642 |
| 12/9/1984 | 1984 | 12 | 9 | 192 | 26 | 40 | 33 | 1 | 4643 |
| 12/10/1984 | 1984 | 12 | 10 | 193 | 23 | 53 | 38 | 6 | 4649 |
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| 12/29/1984 | 1984 | 12 | 29 | 212 | 28 | 47 | 37.5 | 5.5 | 4618.5 |
| 12/30/1984 | 1984 | 12 | 30 | 213 | 21 | 39 | 30 | -2 | 4616.5 |
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| 1/17/1985 | 1985 | 1 | 17 | 231 | 20 | 47 | 33.5 | 1.5 | 4522 |
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| 3/9/1985 | 1985 | 3 | 9 | 282 | 30 | 58 | 44 | 12 | 4276.5 |
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| 5/21/1985 | 1985 | 5 | 21 | 355 | 41 | 65 | 53 | 21 | 5494 |
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| 6/9/1985 | 1985 | 6 | 9 | 9 | 56 | 86 | 71 | 39 | 287 |
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| 8/25/1985 | 1985 | 8 | 25 | 86 | 55 | 85 | 70 | 38 | 3142.5 |
| 8/26/1985 | 1985 | 8 | 26 | 87 | 57 | 87 | 72 | 40 | 3182.5 |
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| 7/29/1986 | 1986 | 7 | 29 | 59 | 55 | 89 | 72 | 40 | 2053.5 |
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| 10/29/1986 | 1986 | 10 | 29 | 151 | 36 | 64 | 50 | 18 | 4597 |
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| 12/12/1988 | 1988 | 12 | 12 | 195 | 11 | 53 | 32 | 0 | 5346 |
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| 12/22/1988 | 1988 | 12 | 22 | 205 | 14 | 44 | 29 | -3 | 5351 |
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| 3/31/1989 | 1989 | 3 | 31 | 304 | 23 | 74 | 48.5 | 16.5 | 5680 |
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| 4/8/1989 | 1989 | 4 | 8 | 312 | 30 | 82 | 56 | 24 | 5855 |
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| 4/20/1989 | 1989 | 4 | 20 | 324 | 35 | 86 | 60.5 | 28.5 | 6146.5 |
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| 4/23/1989 | 1989 | 4 | 23 | 327 | 35 | 79 | 57 | 25 | 6229 |
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| 4/25/1989 | 1989 | 4 | 25 | 329 | 35 | 76 | 55.5 | 23.5 | 6279.5 |
| 4/26/1989 | 1989 | 4 | 26 | 330 | 38 | 71 | 54.5 | 22.5 | 6302 |
| 4/27/1989 | 1989 | 4 | 27 | 331 | 33 | 71 | 52 | 20 | 6322 |
| 4/28/1989 | 1989 | 4 | 28 | 332 | 22 | 68 | 45 | 13 | 6335 |
| 4/29/1989 | 1989 | 4 | 29 | 333 | 26 | 70 | 48 | 16 | 6351 |
| 4/30/1989 | 1989 | 4 | 30 | 334 | 28 | 71 | 49.5 | 17.5 | 6368.5 |
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| 5/16/1989 | 1989 | 5 | 16 | 350 | 48 | 62 | 55 | 23 | 6760.5 |
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| 6/7/1989 | 1989 | 6 | 7 | 7 | 40 | 88 | 64 | 32 | 209 |
| 6/8/1989 | 1989 | 6 | 8 | 8 | 50 | 79 | 64.5 | 32.5 | 241.5 |
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| 6/16/1989 | 1989 | 6 | 16 | 16 | 58 | 92 | 75 | 43 | 511 |
| 6/17/1989 | 1989 | 6 | 17 | 17 | 58 | 95 | 76.5 | 44.5 | 555.5 |
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| 7/3/1989 | 1989 | 7 | 3 | 33 | 50 | 100 | 75 | 43 | 1187.5 |
| 7/4/1989 | 1989 | 7 | 4 | 34 | 51 | 101 | 76 | 44 | 1231.5 |
| 7/5/1989 | 1989 | 7 | 5 | 35 | 56 | 100 | 78 | 46 | 1277.5 |
| 7/6/1989 | 1989 | 7 | 6 | 36 | 60 | 97 | 78.5 | 46.5 | 1324 |
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| 7/8/1989 | 1989 | 7 | 8 | 38 | 60 | 94 | 77 | 45 | 1416 |
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| 7/10/1989 | 1989 | 7 | 10 | 40 | 56 | 87 | 71.5 | 39.5 | 1499 |
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| 7/12/1989 | 1989 | 7 | 12 | 42 | 54 | 87 | 70.5 | 38.5 | 1573.5 |
| 7/13/1989 | 1989 | 7 | 13 | 43 | 58 | 94 | 76 | 44 | 1617.5 |
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| 7/16/1989 | 1989 | 7 | 16 | 46 | 57 | 92 | 74.5 | 42.5 | 1747.5 |
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| 7/24/1989 | 1989 | 7 | 24 | 54 | 56 | 84 | 70 | 38 | 2075.5 |
| 7/25/1989 | 1989 | 7 | 25 | 55 | 57 | 80 | 68.5 | 36.5 | 2112 |
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| 7/27/1989 | 1989 | 7 | 27 | 57 | 56 | 81 | 68.5 | 36.5 | 2182 |
| 7/28/1989 | 1989 | 7 | 28 | 58 | 54 | 80 | 67 | 35 | 2217 |
| 7/29/1989 | 1989 | 7 | 29 | 59 | 52 | 83 | 67.5 | 35.5 | 2252.5 |
| 7/30/1989 | 1989 | 7 | 30 | 60 | 55 | 87 | 71 | 39 | 2291.5 |
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| 8/1/1989 | 1989 | 8 | 1 | 62 | 60 | 77 | 68.5 | 36.5 | 2369 |
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| 8/6/1989 | 1989 | 8 | 6 | 67 | 53 | 92 | 72.5 | 40.5 | 2560 |
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| 8/8/1989 | 1989 | 8 | 8 | 69 | 57 | 89 | 73 | 41 | 2641 |
| 8/9/1989 | 1989 | 8 | 9 | 70 | 57 | 86 | 71.5 | 39.5 | 2680.5 |
| 8/10/1989 | 1989 | 8 | 10 | 71 | 57 | 90 | 73.5 | 41.5 | 2722 |
| 8/11/1989 | 1989 | 8 | 11 | 72 | 56 | 91 | 73.5 | 41.5 | 2763.5 |
| 8/12/1989 | 1989 | 8 | 12 | 73 | 53 | 88 | 70.5 | 38.5 | 2802 |
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| 8/14/1989 | 1989 | 8 | 14 | 75 | 55 | 88 | 71.5 | 39.5 | 2880 |
| 8/15/1989 | 1989 | 8 | 15 | 76 | 58 | 88 | 73 | 41 | 2921 |
| 8/16/1989 | 1989 | 8 | 16 | 77 | 53 | 87 | 70 | 38 | 2959 |
| 8/17/1989 | 1989 | 8 | 17 | 78 | 55 | 89 | 72 | 40 | 2999 |
| 8/18/1989 | 1989 | 8 | 18 | 79 | 51 | 87 | 69 | 37 | 3036 |
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| 8/20/1989 | 1989 | 8 | 20 | 81 | 49 | 87 | 68 | 36 | 3110 |
| 8/21/1989 | 1989 | 8 | 21 | 82 | 50 | 84 | 67 | 35 | 3145 |
| 8/22/1989 | 1989 | 8 | 22 | 83 | 48 | 84 | 66 | 34 | 3179 |
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| 8/24/1989 | 1989 | 8 | 24 | 85 | 45 | 86 | 65.5 | 33.5 | 3246.5 |
| 8/25/1989 | 1989 | 8 | 25 | 86 | 43 | 87 | 65 | 33 | 3279.5 |
| 8/26/1989 | 1989 | 8 | 26 | 87 | 42 | 86 | 64 | 32 | 3311.5 |
| 8/27/1989 | 1989 | 8 | 27 | 88 | 44 | 82 | 63 | 31 | 3342.5 |
| 8/28/1989 | 1989 | 8 | 28 | 89 | 52 | 84 | 68 | 36 | 3378.5 |
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| 8/30/1989 | 1989 | 8 | 30 | 91 | 52 | 86 | 69 | 37 | 3450 |
| 8/31/1989 | 1989 | 8 | 31 | 92 | 56 | 83 | 69.5 | 37.5 | 3487.5 |
| 9/1/1989 | 1989 | 9 | 1 | 93 | 45 | 88 | 66.5 | 34.5 | 3522 |
| 9/2/1989 | 1989 | 9 | 2 | 94 | 46 | 89 | 67.5 | 35.5 | 3557.5 |

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| 9/4/1989 | 1989 | 9 | 4 | 96 | 54 | 81 | 67.5 | 35.5 | 3628.5 |
| 9/5/1989 | 1989 | 9 | 5 | 97 | 52 | 74 | 63 | 31 | 3659.5 |
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| 9/9/1989 | 1989 | 9 | 9 | 101 | 41 | 86 | 63.5 | 31.5 | 3798 |
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| 9/22/1989 | 1989 | 9 | 22 | 114 | 48 | 71 | 59.5 | 27.5 | 4167.5 |
| 9/23/1989 | 1989 | 9 | 23 | 115 | 48 | 79 | 63.5 | 31.5 | 4199 |
| 9/24/1989 | 1989 | 9 | 24 | 116 | 42 | 83 | 62.5 | 30.5 | 4229.5 |
| 9/25/1989 | 1989 | 9 | 25 | 117 | 39 | 82 | 60.5 | 28.5 | 4258 |
| 9/26/1989 | 1989 | 9 | 26 | 118 | 43 | 83 | 63 | 31 | 4289 |
| 9/27/1989 | 1989 | 9 | 27 | 119 | 44 | 82 | 63 | 31 | 4320 |
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| 9/29/1989 | 1989 | 9 | 29 | 121 | 38 | 84 | 61 | 29 | 4379.5 |
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| 12/10/1989 | 1989 | 12 | 10 | 193 | 12 | 54 | 33 | 1 | 5259.5 |
| 12/11/1989 | 1989 | 12 | 11 | 194 | -5 | 32 | 13.5 | -18.5 | 5241 |
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| 2/11/1990 | 1990 | 2 | 11 | 256 | 20 | 63 | 41.5 | 9.5 | 5044.5 |
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| 3/17/1990 | 1990 | 3 | 17 | 290 | 18 | 63 | 40.5 | 8.5 | 5234.5 |
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| 5/24/1990 | 1990 | 5 | 24 | 358 | 49 | 85 | 67 | 35 | 6646 |
| 5/25/1990 | 1990 | 5 | 25 | 359 | 40 | 84 | 62 | 30 | 6676 |
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| 6/2/1990 | 1990 | 6 | 2 | 2 | 42 | 85 | 63.5 | 31.5 | 60.5 |
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| 8/31/1990 | 1990 | 8 | 31 | 92 | 53 | 92 | 72.5 | 40.5 | 3502 |
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| 1/23/1991 | 1991 | 1 | 23 | 237 | 11 | 39 | 25 | -7 | 5063.5 |
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| 5/20/1991 | 1991 | 5 | 20 | 354 | 40 | 74 | 57 | 25 | 6395 |
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| 5/26/1991 | 1991 | 5 | 26 | 360 | 40 | 87 | 63.5 | 31.5 | 6560 |
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| 6/7/1991 | 1991 | 6 | 7 | 7 | 39 | 88 | 63.5 | 31.5 | 187.5 |
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| 6/15/1991 | 1991 | 6 | 15 | 15 | 41 | 83 | 62 | 30 | 420.5 |

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| 6/23/1991 | 1991 | 6 | 23 | 23 | 48 | 92 | 70 | 38 | 709 |
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| 7/27/1991 | 1991 | 7 | 27 | 57 | 49 | 89 | 69 | 37 | 2031.5 |
| 7/28/1991 | 1991 | 7 | 28 | 58 | 56 | 89 | 72.5 | 40.5 | 2072 |
| 7/29/1991 | 1991 | 7 | 29 | 59 | 52 | 89 | 70.5 | 38.5 | 2110.5 |
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| 8/10/1991 | 1991 | 8 | 10 | 71 | 56 | 83 | 69.5 | 37.5 | 2567 |
| 8/11/1991 | 1991 | 8 | 11 | 72 | 56 | 77 | 66.5 | 34.5 | 2601.5 |
| 8/12/1991 | 1991 | 8 | 12 | 73 | 55 | 86 | 70.5 | 38.5 | 2640 |
| 8/13/1991 | 1991 | 8 | 13 | 74 | 56 | 90 | 73 | 41 | 2681 |
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| 8/15/1991 | 1991 | 8 | 15 | 76 | 57 | 86 | 71.5 | 39.5 | 2761 |
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| 8/22/1991 | 1991 | 8 | 22 | 83 | 54 | 94 | 74 | 42 | 3037.5 |
| 8/23/1991 | 1991 | 8 | 23 | 84 | 55 | 90 | 72.5 | 40.5 | 3078 |
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| 10/7/2021 | 2021 | 10 | 7 | 129 | 38 | 64 | 51 | 19 | 3900 |
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| 10/15/2021 | 2021 | 10 | 15 | 137 | 20 | 49 | 34.5 | 2.5 | 3968 |
| 10/16/2021 | 2021 | 10 | 16 | 138 | 26 | 63 | 44.5 | 12.5 | 3980.5 |
| 10/17/2021 | 2021 | 10 | 17 | 139 | 35 | 62 | 48.5 | 16.5 | 3997 |
| 10/18/2021 | 2021 | 10 | 18 | 140 | 33 | 60 | 46.5 | 14.5 | 4011.5 |
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| 1/21/2022 | 2022 | 1 | 21 | 235 | 15 | 41 | 28 | -4 | 4374 |
| 1/22/2022 | 2022 | 1 | 22 | 236 | 19 | 37 | 28 | -4 | 4370 |
| 1/23/2022 | 2022 | 1 | 23 | 237 | 16 | 42 | 29 | -3 | 4367 |
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| 1/25/2022 | 2022 | 1 | 25 | 239 | 20 | 41 | 30.5 | -1.5 | 4364.5 |
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| 1/30/2022 | 2022 | 1 | 30 | 244 | 21 | 38 | 29.5 | -2.5 | 4326.5 |
| 1/31/2022 | 2022 | 1 | 31 | 245 | 17 | 46 | 31.5 | -0.5 | 4326 |
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| 2/7/2022 | 2022 | 2 | 7 | 252 | 8 | 39 | 23.5 | -8.5 | 4239.5 |
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| 2/9/2022 | 2022 | 2 | 9 | 254 | 15 | 47 | 31 | -1 | 4234.5 |
| 2/10/2022 | 2022 | 2 | 10 | 255 | 15 | 49 | 32 | 0 | 4234.5 |
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| 2/12/2022 | 2022 | 2 | 12 | 257 | 19 | 44 | 31.5 | -0.5 | 4238 |
| 2/13/2022 | 2022 | 2 | 13 | 258 | 17 | 50 | 33.5 | 1.5 | 4239.5 |
| 2/14/2022 | 2022 | 2 | 14 | 259 | 20 | 51 | 35.5 | 3.5 | 4243 |
| 2/15/2022 | 2022 | 2 | 15 | 260 | 26 | 50 | 38 | 6 | 4249 |
| 2/16/2022 | 2022 | 2 | 16 | 261 | 21 | 41 | 31 | -1 | 4248 |
| 2/17/2022 | 2022 | 2 | 17 | 262 | 10 | 27 | 18.5 | -13.5 | 4234.5 |
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| 2/19/2022 | 2022 | 2 | 19 | 264 | 10 | 48 | 29 | -3 | 4224.5 |

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|---|---|---|---|---|---|---|---|---|---|
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| 2/24/2022 | 2022 | 2 | 24 | 269 | 6 | 26 | 16 | -16 | 4208 |
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| 2/27/2022 | 2022 | 2 | 27 | 272 | 5 | 45 | 25 | -7 | 4180 |
| 2/28/2022 | 2022 | 2 | 28 | 273 | 21 | 53 | 37 | 5 | 4185 |
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| 3/2/2022 | 2022 | 3 | 2 | 275 | 23 | 59 | 41 | 9 | 4200 |
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| 3/18/2022 | 2022 | 3 | 18 | 291 | 16 | 49 | 32.5 | 0.5 | 4179.5 |
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| 6/1/2022 | 2022 | 6 | 1 | 1 | 36 | 74 | 55 | 23 | 23 |
| 6/2/2022 | 2022 | 6 | 2 | 2 | 39 | 76 | 57.5 | 25.5 | 48.5 |
| 6/3/2022 | 2022 | 6 | 3 | 3 | 41 | 76 | 58.5 | 26.5 | 75 |
| 6/4/2022 | 2022 | 6 | 4 | 4 | 43 | 74 | 58.5 | 26.5 | 101.5 |
| 6/5/2022 | 2022 | 6 | 5 | 5 | 50 | 76 | 63 | 31 | 132.5 |
| 6/6/2022 | 2022 | 6 | 6 | 6 | 50 | 80 | 65 | 33 | 165.5 |
| 6/7/2022 | 2022 | 6 | 7 | 7 | 53 | 81 | 67 | 35 | 200.5 |
| 6/8/2022 | 2022 | 6 | 8 | 8 | 50 | 84 | 67 | 35 | 235.5 |
| 6/9/2022 | 2022 | 6 | 9 | 9 | 56 | 83 | 69.5 | 37.5 | 273 |
| 6/10/2022 | 2022 | 6 | 10 | 10 | 51 | 87 | 69 | 37 | 310 |
| 6/11/2022 | 2022 | 6 | 11 | 11 | 54 | 86 | 70 | 38 | 348 |
| 6/12/2022 | 2022 | 6 | 12 | 12 | 54 | 82 | 68 | 36 | 384 |
| 6/13/2022 | 2022 | 6 | 13 | 13 | 53 | 80 | 66.5 | 34.5 | 418.5 |
| 6/14/2022 | 2022 | 6 | 14 | 14 | 54 | 77 | 65.5 | 33.5 | 452 |
| 6/15/2022 | 2022 | 6 | 15 | 15 | 47 | 82 | 64.5 | 32.5 | 484.5 |
| 6/16/2022 | 2022 | 6 | 16 | 16 | 47 | 86 | 66.5 | 34.5 | 519 |
| 6/17/2022 | 2022 | 6 | 17 | 17 | 53 | 82 | 67.5 | 35.5 | 554.5 |
| 6/18/2022 | 2022 | 6 | 18 | 18 | 48 | 74 | 61 | 29 | 583.5 |
| 6/19/2022 | 2022 | 6 | 19 | 19 | 47 | 68 | 57.5 | 25.5 | 609 |
| 6/20/2022 | 2022 | 6 | 20 | 20 | 46 | 72 | 59 | 27 | 636 |
| 6/21/2022 | 2022 | 6 | 21 | 21 | 49 | 74 | 61.5 | 29.5 | 665.5 |
| 6/22/2022 | 2022 | 6 | 22 | 22 | 50 | 66 | 58 | 26 | 691.5 |
| 6/23/2022 | 2022 | 6 | 23 | 23 | 47 | 75 | 61 | 29 | 720.5 |
| 6/24/2022 | 2022 | 6 | 24 | 24 | 52 | 74 | 63 | 31 | 751.5 |
| 6/25/2022 | 2022 | 6 | 25 | 25 | 51 | 69 | 60 | 28 | 779.5 |
| 6/26/2022 | 2022 | 6 | 26 | 26 | 49 | 65 | 57 | 25 | 804.5 |
| 6/27/2022 | 2022 | 6 | 27 | 27 | 45 | 63 | 54 | 22 | 826.5 |
| 6/28/2022 | 2022 | 6 | 28 | 28 | 44 | 74 | 59 | 27 | 853.5 |
| 6/29/2022 | 2022 | 6 | 29 | 29 | 50 | 77 | 63.5 | 31.5 | 885 |
| 6/30/2022 | 2022 | 6 | 30 | 30 | 51 | 74 | 62.5 | 30.5 | 915.5 |
| 7/1/2022 | 2022 | 7 | 1 | 31 | 51 | 73 | 62 | 30 | 945.5 |
| 7/2/2022 | 2022 | 7 | 2 | 32 | 48 | 73 | 60.5 | 28.5 | 974 |
| 7/3/2022 | 2022 | 7 | 3 | 33 | 51 | 73 | 62 | 30 | 1004 |
| 7/4/2022 | 2022 | 7 | 4 | 34 | 50 | 74 | 62 | 30 | 1034 |
| 7/5/2022 | 2022 | 7 | 5 | 35 | 49 | 73 | 61 | 29 | 1063 |
| 7/6/2022 | 2022 | 7 | 6 | 36 | 48 | 76 | 62 | 30 | 1093 |
| 7/7/2022 | 2022 | 7 | 7 | 37 | 47 | 78 | 62.5 | 30.5 | 1123.5 |
| 7/8/2022 | 2022 | 7 | 8 | 38 | 48 | 83 | 65.5 | 33.5 | 1157 |
| 7/9/2022 | 2022 | 7 | 9 | 39 | 51 | 80 | 65.5 | 33.5 | 1190.5 |
| 7/10/2022 | 2022 | 7 | 10 | 40 | 50 | 81 | 65.5 | 33.5 | 1224 |
| 7/11/2022 | 2022 | 7 | 11 | 41 | 51 | 80 | 65.5 | 33.5 | 1257.5 |
| 7/12/2022 | 2022 | 7 | 12 | 42 | 56 | 77 | 66.5 | 34.5 | 1292 |
| 7/13/2022 | 2022 | 7 | 13 | 43 | 54 | 78 | 66 | 34 | 1326 |
| 7/14/2022 | 2022 | 7 | 14 | 44 | 51 | 80 | 65.5 | 33.5 | 1359.5 |
| 7/15/2022 | 2022 | 7 | 15 | 45 | 52 | 81 | 66.5 | 34.5 | 1394 |
| 7/16/2022 | 2022 | 7 | 16 | 46 | 52 | 83 | 67.5 | 35.5 | 1429.5 |
| 7/17/2022 | 2022 | 7 | 17 | 47 | 53 | 84 | 68.5 | 36.5 | 1466 |
| 7/18/2022 | 2022 | 7 | 18 | 48 | 52 | 83 | 67.5 | 35.5 | 1501.5 |
| 7/19/2022 | 2022 | 7 | 19 | 49 | 51 | 84 | 67.5 | 35.5 | 1537 |
| 7/20/2022 | 2022 | 7 | 20 | 50 | 57 | 84 | 70.5 | 38.5 | 1575.5 |
| 7/21/2022 | 2022 | 7 | 21 | 51 | 54 | 87 | 70.5 | 38.5 | 1614 |
| 7/22/2022 | 2022 | 7 | 22 | 52 | 55 | 85 | 70 | 38 | 1652 |
| 7/23/2022 | 2022 | 7 | 23 | 53 | 53 | 84 | 68.5 | 36.5 | 1688.5 |
| 7/24/2022 | 2022 | 7 | 24 | 54 | 53 | 81 | 67 | 35 | 1723.5 |
| 7/25/2022 | 2022 | 7 | 25 | 55 | 51 | 77 | 64 | 32 | 1755.5 |
| 7/26/2022 | 2022 | 7 | 26 | 56 | 51 | 74 | 62.5 | 30.5 | 1786 |
| 7/27/2022 | 2022 | 7 | 27 | 57 | 49 | 77 | 63 | 31 | 1817 |
| 7/28/2022 | 2022 | 7 | 28 | 58 | 48 | 72 | 60 | 28 | 1845 |
| 7/29/2022 | 2022 | 7 | 29 | 59 | 50 | 72 | 61 | 29 | 1874 |
| 7/30/2022 | 2022 | 7 | 30 | 60 | 50 | 71 | 60.5 | 28.5 | 1902.5 |
| 7/31/2022 | 2022 | 7 | 31 | 61 | 48 | 73 | 60.5 | 28.5 | 1931 |
| 8/1/2022 | 2022 | 8 | 1 | 62 | 55 | 78 | 66.5 | 34.5 | 1965.5 |
| 8/2/2022 | 2022 | 8 | 2 | 63 | 53 | 80 | 66.5 | 34.5 | 2000 |
| 8/3/2022 | 2022 | 8 | 3 | 64 | 52 | 81 | 66.5 | 34.5 | 2034.5 |
| 8/4/2022 | 2022 | 8 | 4 | 65 | 54 | 77 | 65.5 | 33.5 | 2068 |
| 8/5/2022 | 2022 | 8 | 5 | 66 | 53 | 79 | 66 | 34 | 2102 |
| 8/6/2022 | 2022 | 8 | 6 | 67 | 53 | 79 | 66 | 34 | 2136 |
| 8/7/2022 | 2022 | 8 | 7 | 68 | 54 | 72 | 63 | 31 | 2167 |
| 8/8/2022 | 2022 | 8 | 8 | 69 | 54 | 72 | 63 | 31 | 2198 |
| 8/9/2022 | 2022 | 8 | 9 | 70 | 50 | 78 | 64 | 32 | 2230 |
| 8/10/2022 | 2022 | 8 | 10 | 71 | 50 | 77 | 63.5 | 31.5 | 2261.5 |
| 8/11/2022 | 2022 | 8 | 11 | 72 | 50 | 71 | 60.5 | 28.5 | 2290 |
| 8/12/2022 | 2022 | 8 | 12 | 73 | 48 | 76 | 62 | 30 | 2320 |
| 8/13/2022 | 2022 | 8 | 13 | 74 | 49 | 76 | 62.5 | 30.5 | 2350.5 |
| 8/14/2022 | 2022 | 8 | 14 | 75 | 48 | 74 | 61 | 29 | 2379.5 |
| 8/15/2022 | 2022 | 8 | 15 | 76 | 49 | 75 | 62 | 30 | 2409.5 |
| 8/16/2022 | 2022 | 8 | 16 | 77 | 47 | 74 | 60.5 | 28.5 | 2438 |
| 8/17/2022 | 2022 | 8 | 17 | 78 | 49 | 73 | 61 | 29 | 2467 |
| 8/18/2022 | 2022 | 8 | 18 | 79 | 50 | 69 | 59.5 | 27.5 | 2494.5 |
| 8/19/2022 | 2022 | 8 | 19 | 80 | 51 | 62 | 56.5 | 24.5 | 2519 |
| 8/20/2022 | 2022 | 8 | 20 | 81 | 48 | 56 | 52 | 20 | 2539 |
| 8/21/2022 | 2022 | 8 | 21 | 82 | 44 | 69 | 56.5 | 24.5 | 2563.5 |
| 8/22/2022 | 2022 | 8 | 22 | 83 | 48 | 73 | 60.5 | 28.5 | 2592 |
| 8/23/2022 | 2022 | 8 | 23 | 84 | 47 | 70 | 58.5 | 26.5 | 2618.5 |
| 8/24/2022 | 2022 | 8 | 24 | 85 | 49 | 70 | 59.5 | 27.5 | 2646 |

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|---|---|---|---|---|---|---|---|---|---|
| 8/25/2022 | 2022 | 8 | 25 | 86 | 51 | 69 | 60 | 28 | 2674 |
| 8/26/2022 | 2022 | 8 | 26 | 87 | 50 | 70 | 60 | 28 | 2702 |
| 8/27/2022 | 2022 | 8 | 27 | 88 | 50 | 70 | 60 | 28 | 2730 |
| 8/28/2022 | 2022 | 8 | 28 | 89 | 47 | 73 | 60 | 28 | 2758 |
| 8/29/2022 | 2022 | 8 | 29 | 90 | 46 | 76 | 61 | 29 | 2787 |
| 8/30/2022 | 2022 | 8 | 30 | 91 | 54 | 75 | 64.5 | 32.5 | 2819.5 |
| 8/31/2022 | 2022 | 8 | 31 | 92 | 51 | 75 | 63 | 31 | 2850.5 |
| 9/1/2022 | 2022 | 9 | 1 | 93 | 51 | 76 | 63.5 | 31.5 | 2882 |
| 9/2/2022 | 2022 | 9 | 2 | 94 | 51 | 81 | 66 | 34 | 2916 |
| 9/3/2022 | 2022 | 9 | 3 | 95 | 48 | 75 | 61.5 | 29.5 | 2945.5 |
| 9/4/2022 | 2022 | 9 | 4 | 96 | 49 | 74 | 61.5 | 29.5 | 2975 |
| 9/5/2022 | 2022 | 9 | 5 | 97 | 48 | 82 | 65 | 33 | 3008 |
| 9/6/2022 | 2022 | 9 | 6 | 98 | 50 | 80 | 65 | 33 | 3041 |
| 9/7/2022 | 2022 | 9 | 7 | 99 | 49 | 80 | 64.5 | 32.5 | 3073.5 |
| 9/8/2022 | 2022 | 9 | 8 | 100 | 54 | 79 | 66.5 | 34.5 | 3108 |
| 9/9/2022 | 2022 | 9 | 9 | 101 | 50 | 76 | 63 | 31 | 3139 |
| 9/10/2022 | 2022 | 9 | 10 | 102 | 48 | 73 | 60.5 | 28.5 | 3167.5 |
| 9/11/2022 | 2022 | 9 | 11 | 103 | 44 | 71 | 57.5 | 25.5 | 3193 |
| 9/12/2022 | 2022 | 9 | 12 | 104 | 44 | 70 | 57 | 25 | 3218 |
| 9/13/2022 | 2022 | 9 | 13 | 105 | 46 | 65 | 55.5 | 23.5 | 3241.5 |
| 9/14/2022 | 2022 | 9 | 14 | 106 | 44 | 64 | 54 | 22 | 3263.5 |
| 9/15/2022 | 2022 | 9 | 15 | 107 | 42 | 66 | 54 | 22 | 3285.5 |
| 9/16/2022 | 2022 | 9 | 16 | 108 | 43 | 70 | 56.5 | 24.5 | 3310 |
| 9/17/2022 | 2022 | 9 | 17 | 109 | 42 | 72 | 57 | 25 | 3335 |
| 9/18/2022 | 2022 | 9 | 18 | 110 | 43 | 72 | 57.5 | 25.5 | 3360.5 |
| 9/19/2022 | 2022 | 9 | 19 | 111 | 47 | 72 | 59.5 | 27.5 | 3388 |
| 9/20/2022 | 2022 | 9 | 20 | 112 | 51 | 73 | 62 | 30 | 3418 |
| 9/21/2022 | 2022 | 9 | 21 | 113 | 49 | 67 | 58 | 26 | 3444 |
| 9/22/2022 | 2022 | 9 | 22 | 114 | 48 | 71 | 59.5 | 27.5 | 3471.5 |
| 9/23/2022 | 2022 | 9 | 23 | 115 | 45 | 67 | 56 | 24 | 3495.5 |
| 9/24/2022 | 2022 | 9 | 24 | 116 | 38 | 68 | 53 | 21 | 3516.5 |
| 9/25/2022 | 2022 | 9 | 25 | 117 | 37 | 69 | 53 | 21 | 3537.5 |
| 9/26/2022 | 2022 | 9 | 26 | 118 | 44 | 69 | 56.5 | 24.5 | 3562 |
| 9/27/2022 | 2022 | 9 | 27 | 119 | 42 | 71 | 56.5 | 24.5 | 3586.5 |
| 9/28/2022 | 2022 | 9 | 28 | 120 | 43 | 68 | 55.5 | 23.5 | 3610 |
| 9/29/2022 | 2022 | 9 | 29 | 121 | 41 | 68 | 54.5 | 22.5 | 3632.5 |
| 9/30/2022 | 2022 | 9 | 30 | 122 | 41 | 69 | 55 | 23 | 3655.5 |
| 10/1/2022 | 2022 | 10 | 1 | 123 | 40 | 71 | 55.5 | 23.5 | 3679 |
| 10/2/2022 | 2022 | 10 | 2 | 124 | 44 | 63 | 53.5 | 21.5 | 3700.5 |
| 10/3/2022 | 2022 | 10 | 3 | 125 | 41 | 57 | 49 | 17 | 3717.5 |
| 10/4/2022 | 2022 | 10 | 4 | 126 | 40 | 52 | 46 | 14 | 3731.5 |
| 10/5/2022 | 2022 | 10 | 5 | 127 | 40 | 57 | 48.5 | 16.5 | 3748 |
| 10/6/2022 | 2022 | 10 | 6 | 128 | 42 | 51 | 46.5 | 14.5 | 3762.5 |
| 10/7/2022 | 2022 | 10 | 7 | 129 | 40 | 53 | 46.5 | 14.5 | 3777 |
| 10/8/2022 | 2022 | 10 | 8 | 130 | 40 | 48 | 44 | 12 | 3789 |
| 10/9/2022 | 2022 | 10 | 9 | 131 | 36 | 55 | 45.5 | 13.5 | 3802.5 |
| 10/10/2022 | 2022 | 10 | 10 | 132 | 35 | 58 | 46.5 | 14.5 | 3817 |
| 10/11/2022 | 2022 | 10 | 11 | 133 | 36 | 60 | 48 | 16 | 3833 |
| 10/12/2022 | 2022 | 10 | 12 | 134 | 35 | 64 | 49.5 | 17.5 | 3850.5 |
| 10/13/2022 | 2022 | 10 | 13 | 135 | 32 | 66 | 49 | 17 | 3867.5 |
| 10/14/2022 | 2022 | 10 | 14 | 136 | 33 | 65 | 49 | 17 | 3884.5 |
| 10/15/2022 | 2022 | 10 | 15 | 137 | 36 | 65 | 50.5 | 18.5 | 3903 |
| 10/16/2022 | 2022 | 10 | 16 | 138 | 36 | 44 | 40 | 8 | 3911 |
| 10/17/2022 | 2022 | 10 | 17 | 139 | 31 | 41 | 36 | 4 | 3915 |
| 10/18/2022 | 2022 | 10 | 18 | 140 | 31 | 55 | 43 | 11 | 3926 |
| 10/19/2022 | 2022 | 10 | 19 | 141 | 31 | 61 | 46 | 14 | 3940 |
| 10/20/2022 | 2022 | 10 | 20 | 142 | 29 | 63 | 46 | 14 | 3954 |
| 10/21/2022 | 2022 | 10 | 21 | 143 | 35 | 59 | 47 | 15 | 3969 |
| 10/22/2022 | 2022 | 10 | 22 | 144 | 43 | 58 | 50.5 | 18.5 | 3987.5 |
| 10/23/2022 | 2022 | 10 | 23 | 145 | 23 | 46 | 34.5 | 2.5 | 3990 |
| 10/24/2022 | 2022 | 10 | 24 | 146 | 21 | 33 | 27 | -5 | 3985 |
| 10/25/2022 | 2022 | 10 | 25 | 147 | 20 | 51 | 35.5 | 3.5 | 3988.5 |
| 10/26/2022 | 2022 | 10 | 26 | 148 | 28 | 50 | 39 | 7 | 3995.5 |
| 10/27/2022 | 2022 | 10 | 27 | 149 | 22 | 35 | 28.5 | -3.5 | 3992 |
| 10/28/2022 | 2022 | 10 | 28 | 150 | 20 | 51 | 35.5 | 3.5 | 3995.5 |
| 10/29/2022 | 2022 | 10 | 29 | 151 | 26 | 54 | 40 | 8 | 4003.5 |
| 10/30/2022 | 2022 | 10 | 30 | 152 | 26 | 51 | 38.5 | 6.5 | 4010 |
| 10/31/2022 | 2022 | 10 | 31 | 153 | 24 | 54 | 39 | 7 | 4017 |
| 11/1/2022 | 2022 | 11 | 1 | 154 | 28 | 54 | 41 | 9 | 4026 |
| 11/2/2022 | 2022 | 11 | 2 | 155 | 32 | 53 | 42.5 | 10.5 | 4036.5 |
| 11/3/2022 | 2022 | 11 | 3 | 156 | 19 | 39 | 29 | -3 | 4033.5 |
| 11/4/2022 | 2022 | 11 | 4 | 157 | 20 | 29 | 24.5 | -7.5 | 4026 |
| 11/5/2022 | 2022 | 11 | 5 | 158 | 18 | 45 | 31.5 | -0.5 | 4025.5 |
| 11/6/2022 | 2022 | 11 | 6 | 159 | 30 | 53 | 41.5 | 9.5 | 4035 |
| 11/7/2022 | 2022 | 11 | 7 | 160 | 30 | 57 | 43.5 | 11.5 | 4046.5 |
| 11/8/2022 | 2022 | 11 | 8 | 161 | 37 | 58 | 47.5 | 15.5 | 4062 |
| 11/9/2022 | 2022 | 11 | 9 | 162 | 26 | 54 | 40 | 8 | 4070 |
| 11/10/2022 | 2022 | 11 | 10 | 163 | 16 | 37 | 26.5 | -5.5 | 4064.5 |
| 11/11/2022 | 2022 | 11 | 11 | 164 | 14 | 36 | 25 | -7 | 4057.5 |
| 11/12/2022 | 2022 | 11 | 12 | 165 | 17 | 47 | 32 | 0 | 4057.5 |
| 11/13/2022 | 2022 | 11 | 13 | 166 | 23 | 49 | 36 | 4 | 4061.5 |
| 11/14/2022 | 2022 | 11 | 14 | 167 | 18 | 36 | 27 | -5 | 4056.5 |
| 11/15/2022 | 2022 | 11 | 15 | 168 | 11 | 37 | 24 | -8 | 4048.5 |
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| 11/17/2022 | 2022 | 11 | 17 | 170 | 15 | 44 | 29.5 | -2.5 | 4034 |
| 11/18/2022 | 2022 | 11 | 18 | 171 | 20 | 40 | 30 | -2 | 4032 |
| 11/19/2022 | 2022 | 11 | 19 | 172 | 16 | 40 | 28 | -4 | 4028 |
| 11/20/2022 | 2022 | 11 | 20 | 173 | 15 | 43 | 29 | -3 | 4025 |
| 11/21/2022 | 2022 | 11 | 21 | 174 | 14 | 50 | 32 | 0 | 4025 |
| 11/22/2022 | 2022 | 11 | 22 | 175 | 20 | 48 | 34 | 2 | 4027 |
| 11/23/2022 | 2022 | 11 | 23 | 176 | 21 | 44 | 32.5 | 0.5 | 4027.5 |
| 11/24/2022 | 2022 | 11 | 24 | 177 | 17 | 35 | 26 | -6 | 4021.5 |
| 11/25/2022 | 2022 | 11 | 25 | 178 | 15 | 42 | 28.5 | -3.5 | 4018 |

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|---|---|---|---|---|---|---|---|---|---|
| 11/26/2022 | 2022 | 11 | 26 | 179 | 21 | 46 | 33.5 | 1.5 | 4019.5 |
| 11/27/2022 | 2022 | 11 | 27 | 180 | 22 | 41 | 31.5 | -0.5 | 4019 |
| 11/28/2022 | 2022 | 11 | 28 | 181 | 25 | 39 | 32 | 0 | 4019 |
| 11/29/2022 | 2022 | 11 | 29 | 182 | 25 | 37 | 31 | -1 | 4018 |
| 11/30/2022 | 2022 | 11 | 30 | 183 | 18 | 48 | 33 | 1 | 4019 |
| 12/1/2022 | 2022 | 12 | 1 | 184 | 27 | 50 | 38.5 | 6.5 | 4025.5 |
| 12/2/2022 | 2022 | 12 | 2 | 185 | 29 | 41 | 35 | 3 | 4028.5 |
| 12/3/2022 | 2022 | 12 | 3 | 186 | 31 | 47 | 39 | 7 | 4035.5 |
| 12/4/2022 | 2022 | 12 | 4 | 187 | 36 | 43 | 39.5 | 7.5 | 4043 |
| 12/5/2022 | 2022 | 12 | 5 | 188 | 34 | 42 | 38 | 6 | 4049 |
| 12/6/2022 | 2022 | 12 | 6 | 189 | 29 | 38 | 33.5 | 1.5 | 4050.5 |
| 12/7/2022 | 2022 | 12 | 7 | 190 | 28 | 40 | 34 | 2 | 4052.5 |
| 12/8/2022 | 2022 | 12 | 8 | 191 | 19 | 39 | 29 | -3 | 4049.5 |
| 12/9/2022 | 2022 | 12 | 9 | 192 | 23 | 43 | 33 | 1 | 4050.5 |
| 12/10/2022 | 2022 | 12 | 10 | 193 | 19 | 47 | 33 | 1 | 4051.5 |
| 12/11/2022 | 2022 | 12 | 11 | 194 | 26 | 49 | 37.5 | 5.5 | 4057 |
| 12/12/2022 | 2022 | 12 | 12 | 195 | 15 | 34 | 24.5 | -7.5 | 4049.5 |
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| 12/15/2022 | 2022 | 12 | 15 | 198 | 9 | 29 | 19 | -13 | 4006.5 |
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| 12/17/2022 | 2022 | 12 | 17 | 200 | 1 | 37 | 19 | -13 | 3972 |
| 12/18/2022 | 2022 | 12 | 18 | 201 | 14 | 36 | 25 | -7 | 3965 |
| 12/19/2022 | 2022 | 12 | 19 | 202 | 13 | 36 | 24.5 | -7.5 | 3957.5 |
| 12/20/2022 | 2022 | 12 | 20 | 203 | 13 | 42 | 27.5 | -4.5 | 3953 |
| 12/21/2022 | 2022 | 12 | 21 | 204 | 18 | 41 | 29.5 | -2.5 | 3950.5 |
| 12/22/2022 | 2022 | 12 | 22 | 205 | 24 | 44 | 34 | 2 | 3952.5 |
| 12/23/2022 | 2022 | 12 | 23 | 206 | 23 | 43 | 33 | 1 | 3953.5 |
| 12/24/2022 | 2022 | 12 | 24 | 207 | 21 | 40 | 30.5 | -1.5 | 3952 |
| 12/25/2022 | 2022 | 12 | 25 | 208 | 20 | 47 | 33.5 | 1.5 | 3953.5 |
| 12/26/2022 | 2022 | 12 | 26 | 209 | 25 | 50 | 37.5 | 5.5 | 3959 |
| 12/27/2022 | 2022 | 12 | 27 | 210 | 33 | 48 | 40.5 | 8.5 | 3967.5 |
| 12/28/2022 | 2022 | 12 | 28 | 211 | 22 | 37 | 29.5 | -2.5 | 3965 |
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| 12/30/2022 | 2022 | 12 | 30 | 213 | 26 | 31 | 28.5 | -3.5 | 3954.5 |
| 12/31/2022 | 2022 | 12 | 31 | 214 | 30 | 34 | 32 | 0 | 3954.5 |
| 1/1/2023 | 2023 | 1 | 1 | 215 | 23 | 40 | 31.5 | -0.5 | 3954 |
| 1/2/2023 | 2023 | 1 | 2 | 216 | 20 | 26 | 23 | -9 | 3945 |
| 1/3/2023 | 2023 | 1 | 3 | 217 | 19 | 25 | 22 | -10 | 3935 |
| 1/4/2023 | 2023 | 1 | 4 | 218 | 15 | 29 | 22 | -10 | 3925 |
| 1/5/2023 | 2023 | 1 | 5 | 219 | 18 | 39 | 28.5 | -3.5 | 3921.5 |
| 1/6/2023 | 2023 | 1 | 6 | 220 | 12 | 33 | 22.5 | -9.5 | 3912 |
| 1/7/2023 | 2023 | 1 | 7 | 221 | 8 | 43 | 25.5 | -6.5 | 3905.5 |
| 1/8/2023 | 2023 | 1 | 8 | 222 | 20 | 44 | 32 | 0 | 3905.5 |
| 1/9/2023 | 2023 | 1 | 9 | 223 | 20 | 47 | 33.5 | 1.5 | 3907 |
| 1/10/2023 | 2023 | 1 | 10 | 224 | 31 | 44 | 37.5 | 5.5 | 3912.5 |
| 1/11/2023 | 2023 | 1 | 11 | 225 | 12 | 34 | 23 | -9 | 3903.5 |
| 1/12/2023 | 2023 | 1 | 12 | 226 | 9 | 44 | 26.5 | -5.5 | 3898 |
| 1/13/2023 | 2023 | 1 | 13 | 227 | 17 | 53 | 35 | 3 | 3901 |
| 1/14/2023 | 2023 | 1 | 14 | 228 | 27 | 47 | 37 | 5 | 3906 |
| 1/15/2023 | 2023 | 1 | 15 | 229 | 23 | 31 | 27 | -5 | 3901 |
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| 1/17/2023 | 2023 | 1 | 17 | 231 | 18 | 29 | 23.5 | -8.5 | 3887.5 |
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| 1/23/2023 | 2023 | 1 | 23 | 237 | 11 | 30 | 20.5 | -11.5 | 3812 |
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| 1/28/2023 | 2023 | 1 | 28 | 242 | 15 | 36 | 25.5 | -6.5 | 3743.5 |
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| 1/30/2023 | 2023 | 1 | 30 | 244 | 13 | 38 | 25.5 | -6.5 | 3736.5 |
| 1/31/2023 | 2023 | 1 | 31 | 245 | 9 | 37 | 23 | -9 | 3727.5 |
| 2/1/2023 | 2023 | 2 | 1 | 246 | 5 | 38 | 21.5 | -10.5 | 3717 |
| 2/2/2023 | 2023 | 2 | 2 | 247 | 7 | 38 | 22.5 | -9.5 | 3707.5 |
| 2/3/2023 | 2023 | 2 | 3 | 248 | 11 | 46 | 28.5 | -3.5 | 3704 |
| 2/4/2023 | 2023 | 2 | 4 | 249 | 21 | 49 | 35 | 3 | 3707 |
| 2/5/2023 | 2023 | 2 | 5 | 250 | 23 | 51 | 37 | 5 | 3712 |
| 2/6/2023 | 2023 | 2 | 6 | 251 | 11 | 33 | 22 | -10 | 3702 |
| 2/7/2023 | 2023 | 2 | 7 | 252 | 9 | 31 | 20 | -12 | 3690 |
| 2/8/2023 | 2023 | 2 | 8 | 253 | 8 | 38 | 23 | -9 | 3681 |
| 2/9/2023 | 2023 | 2 | 9 | 254 | 2 | 27 | 14.5 | -17.5 | 3663.5 |
| 2/10/2023 | 2023 | 2 | 10 | 255 | -1 | 45 | 22 | -10 | 3653.5 |
| 2/11/2023 | 2023 | 2 | 11 | 256 | 16 | 48 | 32 | 0 | 3653.5 |
| 2/12/2023 | 2023 | 2 | 12 | 257 | 20 | 50 | 35 | 3 | 3656.5 |
| 2/13/2023 | 2023 | 2 | 13 | 258 | 20 | 45 | 32.5 | 0.5 | 3657 |
| 2/14/2023 | 2023 | 2 | 14 | 259 | 17 | 24 | 20.5 | -11.5 | 3645.5 |
| 2/15/2023 | 2023 | 2 | 15 | 260 | 4 | 17 | 10.5 | -21.5 | 3624 |
| 2/16/2023 | 2023 | 2 | 16 | 261 | -4 | 22 | 9 | -23 | 3601 |
| 2/17/2023 | 2023 | 2 | 17 | 262 | -5 | 40 | 17.5 | -14.5 | 3586.5 |
| 2/18/2023 | 2023 | 2 | 18 | 263 | 22 | 43 | 32.5 | 0.5 | 3587 |
| 2/19/2023 | 2023 | 2 | 19 | 264 | 27 | 41 | 34 | 2 | 3589 |
| 2/20/2023 | 2023 | 2 | 20 | 265 | 25 | 45 | 35 | 3 | 3592 |
| 2/21/2023 | 2023 | 2 | 21 | 266 | 25 | 45 | 35 | 3 | 3595 |
| 2/22/2023 | 2023 | 2 | 22 | 267 | 14 | 30 | 22 | -10 | 3585 |
| 2/23/2023 | 2023 | 2 | 23 | 268 | 12 | 28 | 20 | -12 | 3573 |
| 2/24/2023 | 2023 | 2 | 24 | 269 | 18 | 40 | 29 | -3 | 3570 |
| 2/25/2023 | 2023 | 2 | 25 | 270 | 27 | 50 | 38.5 | 6.5 | 3576.5 |
| 2/26/2023 | 2023 | 2 | 26 | 271 | 17 | 36 | 26.5 | -5.5 | 3571 |

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|---|---|---|---|---|---|---|---|---|---|
| 2/27/2023 | 2023 | 2 | 27 | 272 | 13 | 36 | 24.5 | -7.5 | 3563.5 |
| 2/28/2023 | 2023 | 2 | 28 | 273 | 20 | 38 | 29 | -3 | 3560.5 |
| 3/1/2023 | 2023 | 3 | 1 | 274 | 16 | 33 | 24.5 | -7.5 | 3553 |
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| 3/3/2023 | 2023 | 3 | 3 | 276 | 16 | 40 | 28 | -4 | 3541 |
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| 3/5/2023 | 2023 | 3 | 5 | 278 | 28 | 46 | 37 | 5 | 3543.5 |
| 3/6/2023 | 2023 | 3 | 6 | 279 | 31 | 51 | 41 | 9 | 3552.5 |
| 3/7/2023 | 2023 | 3 | 7 | 280 | 33 | 49 | 41 | 9 | 3561.5 |
| 3/8/2023 | 2023 | 3 | 8 | 281 | 32 | 53 | 42.5 | 10.5 | 3572 |
| 3/9/2023 | 2023 | 3 | 9 | 282 | 20 | 47 | 33.5 | 1.5 | 3573.5 |
| 3/10/2023 | 2023 | 3 | 10 | 283 | 30 | 51 | 40.5 | 8.5 | 3582 |
| 3/11/2023 | 2023 | 3 | 11 | 284 | 33 | 46 | 39.5 | 7.5 | 3589.5 |
| 3/12/2023 | 2023 | 3 | 12 | 285 | 29 | 46 | 37.5 | 5.5 | 3595 |
| 3/13/2023 | 2023 | 3 | 13 | 286 | 23 | 46 | 34.5 | 2.5 | 3597.5 |
| 3/14/2023 | 2023 | 3 | 14 | 287 | 22 | 50 | 36 | 4 | 3601.5 |
| 3/15/2023 | 2023 | 3 | 15 | 288 | 32 | 40 | 36 | 4 | 3605.5 |
| 3/16/2023 | 2023 | 3 | 16 | 289 | 26 | 37 | 31.5 | -0.5 | 3605 |
| 3/17/2023 | 2023 | 3 | 17 | 290 | 15 | 36 | 25.5 | -6.5 | 3598.5 |
| 3/18/2023 | 2023 | 3 | 18 | 291 | 13 | 37 | 25 | -7 | 3591.5 |
| 3/19/2023 | 2023 | 3 | 19 | 292 | 15 | 40 | 27.5 | -4.5 | 3587 |
| 3/20/2023 | 2023 | 3 | 20 | 293 | 27 | 32 | 29.5 | -2.5 | 3584.5 |
| 3/21/2023 | 2023 | 3 | 21 | 294 | 28 | 36 | 32 | 0 | 3584.5 |
| 3/22/2023 | 2023 | 3 | 22 | 295 | 27 | 41 | 34 | 2 | 3586.5 |
| 3/23/2023 | 2023 | 3 | 23 | 296 | 20 | 39 | 29.5 | -2.5 | 3584 |
| 3/24/2023 | 2023 | 3 | 24 | 297 | 19 | 34 | 26.5 | -5.5 | 3578.5 |
| 3/25/2023 | 2023 | 3 | 25 | 298 | 11 | 35 | 23 | -9 | 3569.5 |
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| 3/28/2023 | 2023 | 3 | 28 | 301 | 8 | 51 | 29.5 | -2.5 | 3551 |
| 3/29/2023 | 2023 | 3 | 29 | 302 | 27 | 57 | 42 | 10 | 3561 |
| 3/30/2023 | 2023 | 3 | 30 | 303 | 21 | 49 | 35 | 3 | 3564 |
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| 4/1/2023 | 2023 | 4 | 1 | 305 | 17 | 55 | 36 | 4 | 3565 |
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| 4/3/2023 | 2023 | 4 | 3 | 307 | 33 | 54 | 43.5 | 11.5 | 3584.5 |
| 4/4/2023 | 2023 | 4 | 4 | 308 | 12 | 33 | 22.5 | -9.5 | 3575 |
| 4/5/2023 | 2023 | 4 | 5 | 309 | 4 | 35 | 19.5 | -12.5 | 3562.5 |
| 4/6/2023 | 2023 | 4 | 6 | 310 | 9 | 51 | 30 | -2 | 3560.5 |
| 4/7/2023 | 2023 | 4 | 7 | 311 | 27 | 55 | 41 | 9 | 3569.5 |
| 4/8/2023 | 2023 | 4 | 8 | 312 | 29 | 56 | 42.5 | 10.5 | 3580 |
| 4/9/2023 | 2023 | 4 | 9 | 313 | 27 | 59 | 43 | 11 | 3591 |
| 4/10/2023 | 2023 | 4 | 10 | 314 | 28 | 64 | 46 | 14 | 3605 |
| 4/11/2023 | 2023 | 4 | 11 | 315 | 38 | 68 | 53 | 21 | 3626 |
| 4/12/2023 | 2023 | 4 | 12 | 316 | 36 | 66 | 51 | 19 | 3645 |
| 4/13/2023 | 2023 | 4 | 13 | 317 | 35 | 56 | 45.5 | 13.5 | 3658.5 |
| 4/14/2023 | 2023 | 4 | 14 | 318 | 32 | 48 | 40 | 8 | 3666.5 |
| 4/15/2023 | 2023 | 4 | 15 | 319 | 26 | 51 | 38.5 | 6.5 | 3673 |
| 4/16/2023 | 2023 | 4 | 16 | 320 | 25 | 60 | 42.5 | 10.5 | 3683.5 |
| 4/17/2023 | 2023 | 4 | 17 | 321 | 33 | 62 | 47.5 | 15.5 | 3699 |
| 4/18/2023 | 2023 | 4 | 18 | 322 | 33 | 57 | 45 | 13 | 3712 |
| 4/19/2023 | 2023 | 4 | 19 | 323 | 27 | 55 | 41 | 9 | 3721 |
| 4/20/2023 | 2023 | 4 | 20 | 324 | 20 | 48 | 34 | 2 | 3723 |
| 4/21/2023 | 2023 | 4 | 21 | 325 | 21 | 55 | 38 | 6 | 3729 |
| 4/22/2023 | 2023 | 4 | 22 | 326 | 30 | 55 | 42.5 | 10.5 | 3739.5 |
| 4/23/2023 | 2023 | 4 | 23 | 327 | 27 | 57 | 42 | 10 | 3749.5 |
| 4/24/2023 | 2023 | 4 | 24 | 328 | 32 | 58 | 45 | 13 | 3762.5 |
| 4/25/2023 | 2023 | 4 | 25 | 329 | 26 | 55 | 40.5 | 8.5 | 3771 |
| 4/26/2023 | 2023 | 4 | 26 | 330 | 27 | 54 | 40.5 | 8.5 | 3779.5 |
| 4/27/2023 | 2023 | 4 | 27 | 331 | 29 | 63 | 46 | 14 | 3793.5 |
| 4/28/2023 | 2023 | 4 | 28 | 332 | 32 | 55 | 43.5 | 11.5 | 3805 |
| 4/29/2023 | 2023 | 4 | 29 | 333 | 30 | 66 | 48 | 16 | 3821 |
| 4/30/2023 | 2023 | 4 | 30 | 334 | 37 | 72 | 54.5 | 22.5 | 3843.5 |
| 5/1/2023 | 2023 | 5 | 1 | 335 | 37 | 72 | 54.5 | 22.5 | 3866 |
| 5/2/2023 | 2023 | 5 | 2 | 336 | 37 | 63 | 50 | 18 | 3884 |
| 5/3/2023 | 2023 | 5 | 3 | 337 | 36 | 66 | 51 | 19 | 3903 |
| 5/4/2023 | 2023 | 5 | 4 | 338 | 34 | 61 | 47.5 | 15.5 | 3918.5 |
| 5/5/2023 | 2023 | 5 | 5 | 339 | 28 | 57 | 42.5 | 10.5 | 3929 |
| 5/6/2023 | 2023 | 5 | 6 | 340 | 33 | 61 | 47 | 15 | 3944 |
| 5/7/2023 | 2023 | 5 | 7 | 341 | 38 | 62 | 50 | 18 | 3962 |
| 5/8/2023 | 2023 | 5 | 8 | 342 | 36 | 68 | 52 | 20 | 3982 |
| 5/9/2023 | 2023 | 5 | 9 | 343 | 32 | 68 | 50 | 18 | 4000 |
| 5/10/2023 | 2023 | 5 | 10 | 344 | 33 | 61 | 47 | 15 | 4015 |
| 5/11/2023 | 2023 | 5 | 11 | 345 | 32 | 61 | 46.5 | 14.5 | 4029.5 |
| 5/12/2023 | 2023 | 5 | 12 | 346 | 33 | 66 | 49.5 | 17.5 | 4047 |
| 5/13/2023 | 2023 | 5 | 13 | 347 | 41 | 65 | 53 | 21 | 4068 |
| 5/14/2023 | 2023 | 5 | 14 | 348 | 38 | 63 | 50.5 | 18.5 | 4086.5 |
| 5/15/2023 | 2023 | 5 | 15 | 349 | 41 | 61 | 51 | 19 | 4105.5 |
| 5/16/2023 | 2023 | 5 | 16 | 350 | 38 | 66 | 52 | 20 | 4125.5 |
| 5/17/2023 | 2023 | 5 | 17 | 351 | 42 | 64 | 53 | 21 | 4146.5 |
| 5/18/2023 | 2023 | 5 | 18 | 352 | 41 | 60 | 50.5 | 18.5 | 4165 |
| 5/19/2023 | 2023 | 5 | 19 | 353 | 40 | 58 | 49 | 17 | 4182 |
| 5/20/2023 | 2023 | 5 | 20 | 354 | 37 | 63 | 50 | 18 | 4200 |
| 5/21/2023 | 2023 | 5 | 21 | 355 | 38 | 63 | 50.5 | 18.5 | 4218.5 |
| 5/22/2023 | 2023 | 5 | 22 | 356 | 38 | 66 | 52 | 20 | 4238.5 |
| 5/23/2023 | 2023 | 5 | 23 | 357 | 39 | 70 | 54.5 | 22.5 | 4261 |
| 5/24/2023 | 2023 | 5 | 24 | 358 | 40 | 71 | 55.5 | 23.5 | 4284.5 |
| 5/25/2023 | 2023 | 5 | 25 | 359 | 39 | 72 | 55.5 | 23.5 | 4308 |
| 5/26/2023 | 2023 | 5 | 26 | 360 | 38 | 72 | 55 | 23 | 4331 |
| 5/27/2023 | 2023 | 5 | 27 | 361 | 36 | 68 | 52 | 20 | 4351 |
| 5/28/2023 | 2023 | 5 | 28 | 362 | 35 | 69 | 52 | 20 | 4371 |
| 5/29/2023 | 2023 | 5 | 29 | 363 | 39 | 71 | 55 | 23 | 4394 |
| 5/30/2023 | 2023 | 5 | 30 | 364 | 40 | 73 | 56.5 | 24.5 | 4418.5 |

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|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 2023 | 5 | 31 | 365 | 39 | 71 | 55 | 23 | 4441.5 |
| 6/1/2023 | 2023 | 6 | 1 | 1 | 36 | 64 | 50 | 18 | 18 |
| 6/2/2023 | 2023 | 6 | 2 | 2 | 41 | 63 | 52 | 20 | 38 |
| 6/3/2023 | 2023 | 6 | 3 | 3 | 38 | 67 | 52.5 | 20.5 | 58.5 |
| 6/4/2023 | 2023 | 6 | 4 | 4 | 38 | 70 | 54 | 22 | 80.5 |
| 6/5/2023 | 2023 | 6 | 5 | 5 | 40 | 70 | 55 | 23 | 103.5 |
| 6/6/2023 | 2023 | 6 | 6 | 6 | 43 | 70 | 56.5 | 24.5 | 128 |
| 6/7/2023 | 2023 | 6 | 7 | 7 | 46 | 68 | 57 | 25 | 153 |
| 6/8/2023 | 2023 | 6 | 8 | 8 | 39 | 69 | 54 | 22 | 175 |
| 6/9/2023 | 2023 | 6 | 9 | 9 | 41 | 68 | 54.5 | 22.5 | 197.5 |
| 6/10/2023 | 2023 | 6 | 10 | 10 | 40 | 72 | 56 | 24 | 221.5 |
| 6/11/2023 | 2023 | 6 | 11 | 11 | 39 | 72 | 55.5 | 23.5 | 245 |
| 6/12/2023 | 2023 | 6 | 12 | 12 | 35 | 64 | 49.5 | 17.5 | 262.5 |
| 6/13/2023 | 2023 | 6 | 13 | 13 | 34 | 64 | 49 | 17 | 279.5 |
| 6/14/2023 | 2023 | 6 | 14 | 14 | 38 | 72 | 55 | 23 | 302.5 |
| 6/15/2023 | 2023 | 6 | 15 | 15 | 39 | 71 | 55 | 23 | 325.5 |
| 6/16/2023 | 2023 | 6 | 16 | 16 | 36 | 72 | 54 | 22 | 347.5 |
| 6/17/2023 | 2023 | 6 | 17 | 17 | 37 | 70 | 53.5 | 21.5 | 369 |
| 6/18/2023 | 2023 | 6 | 18 | 18 | 42 | 76 | 59 | 27 | 396 |
| 6/19/2023 | 2023 | 6 | 19 | 19 | 53 | 76 | 64.5 | 32.5 | 428.5 |
| 6/20/2023 | 2023 | 6 | 20 | 20 | 42 | 75 | 58.5 | 26.5 | 455 |
| 6/21/2023 | 2023 | 6 | 21 | 21 | 39 | 78 | 58.5 | 26.5 | 481.5 |
| 6/22/2023 | 2023 | 6 | 22 | 22 | 42 | 78 | 60 | 28 | 509.5 |
| 6/23/2023 | 2023 | 6 | 23 | 23 | 41 | 76 | 58.5 | 26.5 | 536 |
| 6/24/2023 | 2023 | 6 | 24 | 24 | 35 | 76 | 55.5 | 23.5 | 559.5 |
| 6/25/2023 | 2023 | 6 | 25 | 25 | 47 | 81 | 64 | 32 | 591.5 |
| 6/26/2023 | 2023 | 6 | 26 | 26 | 51 | 83 | 67 | 35 | 626.5 |
| 6/27/2023 | 2023 | 6 | 27 | 27 | 55 | 81 | 68 | 36 | 662.5 |
| 6/28/2023 | 2023 | 6 | 28 | 28 | 53 | 82 | 67.5 | 35.5 | 698 |
| 6/29/2023 | 2023 | 6 | 29 | 29 | 49 | 78 | 63.5 | 31.5 | 729.5 |
| 6/30/2023 | 2023 | 6 | 30 | 30 | 42 | 77 | 59.5 | 27.5 | 757 |
| 7/1/2023 | 2023 | 7 | 1 | 31 | 43 | 79 | 61 | 29 | 786 |
| 7/2/2023 | 2023 | 7 | 2 | 32 | 46 | 82 | 64 | 32 | 818 |
| 7/3/2023 | 2023 | 7 | 3 | 33 | 47 | 83 | 65 | 33 | 851 |
| 7/4/2023 | 2023 | 7 | 4 | 34 | 51 | 83 | 67 | 35 | 886 |
| 7/5/2023 | 2023 | 7 | 5 | 35 | 50 | 82 | 66 | 34 | 920 |
| 7/6/2023 | 2023 | 7 | 6 | 36 | 48 | 84 | 66 | 34 | 954 |
| 7/7/2023 | 2023 | 7 | 7 | 37 | 49 | 83 | 66 | 34 | 988 |
| 7/8/2023 | 2023 | 7 | 8 | 38 | 50 | 82 | 66 | 34 | 1022 |
| 7/9/2023 | 2023 | 7 | 9 | 39 | 53 | 83 | 68 | 36 | 1058 |
| 7/10/2023 | 2023 | 7 | 10 | 40 | 55 | 83 | 69 | 37 | 1095 |
| 7/11/2023 | 2023 | 7 | 11 | 41 | 59 | 85 | 72 | 40 | 1135 |
| 7/12/2023 | 2023 | 7 | 12 | 42 | 59 | 83 | 71 | 39 | 1174 |
| 7/13/2023 | 2023 | 7 | 13 | 43 | 59 | 85 | 72 | 40 | 1214 |
| 7/14/2023 | 2023 | 7 | 14 | 44 | 55 | 88 | 71.5 | 39.5 | 1253.5 |
| 7/15/2023 | 2023 | 7 | 15 | 45 | 50 | 88 | 69 | 37 | 1290.5 |
| 7/16/2023 | 2023 | 7 | 16 | 46 | 49 | 88 | 68.5 | 36.5 | 1327 |
| 7/17/2023 | 2023 | 7 | 17 | 47 | 53 | 92 | 72.5 | 40.5 | 1367.5 |
| 7/18/2023 | 2023 | 7 | 18 | 48 | 59 | 87 | 73 | 41 | 1408.5 |
| 7/19/2023 | 2023 | 7 | 19 | 49 | 60 | 87 | 73.5 | 41.5 | 1450 |
| 7/20/2023 | 2023 | 7 | 20 | 50 | 57 | 90 | 73.5 | 41.5 | 1491.5 |
| 7/21/2023 | 2023 | 7 | 21 | 51 | 54 | 87 | 70.5 | 38.5 | 1530 |
| 7/22/2023 | 2023 | 7 | 22 | 52 | 53 | 86 | 69.5 | 37.5 | 1567.5 |
| 7/23/2023 | 2023 | 7 | 23 | 53 | 57 | 85 | 71 | 39 | 1606.5 |
| 7/24/2023 | 2023 | 7 | 24 | 54 | 56 | 87 | 71.5 | 39.5 | 1646 |
| 7/25/2023 | 2023 | 7 | 25 | 55 | 55 | 87 | 71 | 39 | 1685 |
| 7/26/2023 | 2023 | 7 | 26 | 56 | 53 | 86 | 69.5 | 37.5 | 1722.5 |
| 7/27/2023 | 2023 | 7 | 27 | 57 | 54 | 85 | 69.5 | 37.5 | 1760 |
| 7/28/2023 | 2023 | 7 | 28 | 58 | 51 | 84 | 67.5 | 35.5 | 1795.5 |
| 7/29/2023 | 2023 | 7 | 29 | 59 | 54 | 85 | 69.5 | 37.5 | 1833 |
| 7/30/2023 | 2023 | 7 | 30 | 60 | 53 | 80 | 66.5 | 34.5 | 1867.5 |
| 7/31/2023 | 2023 | 7 | 31 | 61 | 49 | 78 | 63.5 | 31.5 | 1899 |
| 8/1/2023 | 2023 | 8 | 1 | 62 | 51 | 76 | 63.5 | 31.5 | 1930.5 |
| 8/2/2023 | 2023 | 8 | 2 | 63 | 50 | 80 | 65 | 33 | 1963.5 |
| 8/3/2023 | 2023 | 8 | 3 | 64 | 50 | 79 | 64.5 | 32.5 | 1996 |
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| 8/5/2023 | 2023 | 8 | 5 | 66 | 50 | 83 | 66.5 | 34.5 | 2065 |
| 8/6/2023 | 2023 | 8 | 6 | 67 | 49 | 84 | 66.5 | 34.5 | 2099.5 |
| 8/7/2023 | 2023 | 8 | 7 | 68 | 53 | 79 | 66 | 34 | 2133.5 |
| 8/8/2023 | 2023 | 8 | 8 | 69 | 51 | 74 | 62.5 | 30.5 | 2164 |
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| 8/10/2023 | 2023 | 8 | 10 | 71 | 53 | 74 | 63.5 | 31.5 | 2225.5 |
| 8/11/2023 | 2023 | 8 | 11 | 72 | 48 | 74 | 61 | 29 | 2254.5 |
| 8/12/2023 | 2023 | 8 | 12 | 73 | 49 | 68 | 58.5 | 26.5 | 2281 |
| 8/13/2023 | 2023 | 8 | 13 | 74 | 47 | 72 | 59.5 | 27.5 | 2308.5 |
| 8/14/2023 | 2023 | 8 | 14 | 75 | 52 | 73 | 62.5 | 30.5 | 2339 |
| 8/15/2023 | 2023 | 8 | 15 | 76 | 48 | 75 | 61.5 | 29.5 | 2368.5 |
| 8/16/2023 | 2023 | 8 | 16 | 77 | 49 | 77 | 63 | 31 | 2399.5 |
| 8/17/2023 | 2023 | 8 | 17 | 78 | 49 | 78 | 63.5 | 31.5 | 2431 |
| 8/18/2023 | 2023 | 8 | 18 | 79 | 49 | 80 | 64.5 | 32.5 | 2463.5 |
| 8/19/2023 | 2023 | 8 | 19 | 80 | 49 | 79 | 64 | 32 | 2495.5 |
| 8/20/2023 | 2023 | 8 | 20 | 81 | 58 | 79 | 68.5 | 36.5 | 2532 |
| 8/21/2023 | 2023 | 8 | 21 | 82 | 55 | 78 | 66.5 | 34.5 | 2566.5 |
| 8/22/2023 | 2023 | 8 | 22 | 83 | 52 | 76 | 64 | 32 | 2598.5 |
| 8/23/2023 | 2023 | 8 | 23 | 84 | 50 | 68 | 59 | 27 | 2625.5 |
| 8/24/2023 | 2023 | 8 | 24 | 85 | 50 | 67 | 58.5 | 26.5 | 2652 |
| 8/25/2023 | 2023 | 8 | 25 | 86 | 48 | 76 | 62 | 30 | 2682 |
| 8/26/2023 | 2023 | 8 | 26 | 87 | 51 | 74 | 62.5 | 30.5 | 2712.5 |
| 8/27/2023 | 2023 | 8 | 27 | 88 | 50 | 74 | 62 | 30 | 2742.5 |
| 8/28/2023 | 2023 | 8 | 28 | 89 | 48 | 80 | 64 | 32 | 2774.5 |
| 8/29/2023 | 2023 | 8 | 29 | 90 | 49 | 81 | 65 | 33 | 2807.5 |
| 8/30/2023 | 2023 | 8 | 30 | 91 | 51 | 81 | 66 | 34 | 2841.5 |
| 8/31/2023 | 2023 | 8 | 31 | 92 | 47 | 84 | 65.5 | 33.5 | 2875 |

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| 9/1/2023 | 2023 | 9 | 1 | 93 | 48 | 78 | 63 | 31 | 2906 |
| 9/2/2023 | 2023 | 9 | 2 | 94 | 49 | 76 | 62.5 | 30.5 | 2936.5 |
| 9/3/2023 | 2023 | 9 | 3 | 95 | 48 | 76 | 62 | 30 | 2966.5 |
| 9/4/2023 | 2023 | 9 | 4 | 96 | 48 | 72 | 60 | 28 | 2994.5 |
| 9/5/2023 | 2023 | 9 | 5 | 97 | 42 | 76 | 59 | 27 | 3021.5 |
| 9/6/2023 | 2023 | 9 | 6 | 98 | 43 | 81 | 62 | 30 | 3051.5 |
| 9/7/2023 | 2023 | 9 | 7 | 99 | 46 | 80 | 63 | 31 | 3082.5 |
| 9/8/2023 | 2023 | 9 | 8 | 100 | 48 | 81 | 64.5 | 32.5 | 3115 |
| 9/9/2023 | 2023 | 9 | 9 | 101 | 47 | 79 | 63 | 31 | 3146 |
| 9/10/2023 | 2023 | 9 | 10 | 102 | 50 | 80 | 65 | 33 | 3179 |
| 9/11/2023 | 2023 | 9 | 11 | 103 | 47 | 72 | 59.5 | 27.5 | 3206.5 |
| 9/12/2023 | 2023 | 9 | 12 | 104 | 49 | 66 | 57.5 | 25.5 | 3232 |
| 9/13/2023 | 2023 | 9 | 13 | 105 | 42 | 63 | 52.5 | 20.5 | 3252.5 |
| 9/14/2023 | 2023 | 9 | 14 | 106 | 42 | 64 | 53 | 21 | 3273.5 |
| 9/15/2023 | 2023 | 9 | 15 | 107 | 38 | 66 | 52 | 20 | 3293.5 |
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| 9/17/2023 | 2023 | 9 | 17 | 109 | 44 | 67 | 55.5 | 23.5 | 3338.5 |
| 9/18/2023 | 2023 | 9 | 18 | 110 | 40 | 68 | 54 | 22 | 3360.5 |
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| 9/21/2023 | 2023 | 9 | 21 | 113 | 44 | 69 | 56.5 | 24.5 | 3423 |
| 9/22/2023 | 2023 | 9 | 22 | 114 | 44 | 69 | 56.5 | 24.5 | 3447.5 |
| 9/23/2023 | 2023 | 9 | 23 | 115 | 41 | 63 | 52 | 20 | 3467.5 |
| 9/24/2023 | 2023 | 9 | 24 | 116 | 37 | 65 | 51 | 19 | 3486.5 |
| 9/25/2023 | 2023 | 9 | 25 | 117 | 36 | 72 | 54 | 22 | 3508.5 |
| 9/26/2023 | 2023 | 9 | 26 | 118 | 38 | 73 | 55.5 | 23.5 | 3532 |
| 9/27/2023 | 2023 | 9 | 27 | 119 | 40 | 73 | 56.5 | 24.5 | 3556.5 |
| 9/28/2023 | 2023 | 9 | 28 | 120 | 41 | 72 | 56.5 | 24.5 | 3581 |
| 9/29/2023 | 2023 | 9 | 29 | 121 | 41 | 72 | 56.5 | 24.5 | 3605.5 |
| 9/30/2023 | 2023 | 9 | 30 | 122 | 47 | 73 | 60 | 28 | 3633.5 |
| 10/1/2023 | 2023 | 10 | 1 | 123 | 51 | 68 | 59.5 | 27.5 | 3661 |
| 10/2/2023 | 2023 | 10 | 2 | 124 | 40 | 64 | 52 | 20 | 3681 |
| 10/3/2023 | 2023 | 10 | 3 | 125 | 30 | 59 | 44.5 | 12.5 | 3693.5 |
| 10/4/2023 | 2023 | 10 | 4 | 126 | 30 | 61 | 45.5 | 13.5 | 3707 |
| 10/5/2023 | 2023 | 10 | 5 | 127 | 30 | 68 | 49 | 17 | 3724 |
| 10/6/2023 | 2023 | 10 | 6 | 128 | 35 | 71 | 53 | 21 | 3745 |
| 10/7/2023 | 2023 | 10 | 7 | 129 | 40 | 69 | 54.5 | 22.5 | 3767.5 |
| 10/8/2023 | 2023 | 10 | 8 | 130 | 40 | 66 | 53 | 21 | 3788.5 |
| 10/9/2023 | 2023 | 10 | 9 | 131 | 40 | 67 | 53.5 | 21.5 | 3810 |
| 10/10/2023 | 2023 | 10 | 10 | 132 | 38 | 65 | 51.5 | 19.5 | 3829.5 |
| 10/11/2023 | 2023 | 10 | 11 | 133 | 41 | 65 | 53 | 21 | 3850.5 |
| 10/12/2023 | 2023 | 10 | 12 | 134 | 26 | 53 | 39.5 | 7.5 | 3858 |
| 10/13/2023 | 2023 | 10 | 13 | 135 | 22 | 57 | 39.5 | 7.5 | 3865.5 |
| 10/14/2023 | 2023 | 10 | 14 | 136 | 33 | 63 | 48 | 16 | 3881.5 |
| 10/15/2023 | 2023 | 10 | 15 | 137 | 32 | 70 | 51 | 19 | 3900.5 |
| 10/16/2023 | 2023 | 10 | 16 | 138 | 36 | 71 | 53.5 | 21.5 | 3922 |
| 10/17/2023 | 2023 | 10 | 17 | 139 | 39 | 70 | 54.5 | 22.5 | 3944.5 |
| 10/18/2023 | 2023 | 10 | 18 | 140 | 38 | 71 | 54.5 | 22.5 | 3967 |
| 10/19/2023 | 2023 | 10 | 19 | 141 | 38 | 72 | 55 | 23 | 3990 |
| 10/20/2023 | 2023 | 10 | 20 | 142 | 37 | 72 | 54.5 | 22.5 | 4012.5 |
| 10/21/2023 | 2023 | 10 | 21 | 143 | 39 | 71 | 55 | 23 | 4035.5 |
| 10/22/2023 | 2023 | 10 | 22 | 144 | 38 | 68 | 53 | 21 | 4056.5 |
| 10/23/2023 | 2023 | 10 | 23 | 145 | 37 | 66 | 51.5 | 19.5 | 4076 |
| 10/24/2023 | 2023 | 10 | 24 | 146 | 37 | 57 | 47 | 15 | 4091 |
| 10/25/2023 | 2023 | 10 | 25 | 147 | 35 | 58 | 46.5 | 14.5 | 4105.5 |
| 10/26/2023 | 2023 | 10 | 26 | 148 | 35 | 55 | 45 | 13 | 4118.5 |
| 10/27/2023 | 2023 | 10 | 27 | 149 | 32 | 60 | 46 | 14 | 4132.5 |
| 10/28/2023 | 2023 | 10 | 28 | 150 | 38 | 56 | 47 | 15 | 4147.5 |
| 10/29/2023 | 2023 | 10 | 29 | 151 | 20 | 50 | 35 | 3 | 4150.5 |
| 10/30/2023 | 2023 | 10 | 30 | 152 | 12 | 45 | 28.5 | -3.5 | 4147 |
| 10/31/2023 | 2023 | 10 | 31 | 153 | 16 | 52 | 34 | 2 | 4149 |
| 11/1/2023 | 2023 | 11 | 1 | 154 | 22 | 57 | 39.5 | 7.5 | 4156.5 |
| 11/2/2023 | 2023 | 11 | 2 | 155 | 27 | 61 | 44 | 12 | 4168.5 |
| 11/3/2023 | 2023 | 11 | 3 | 156 | 32 | 64 | 48 | 16 | 4184.5 |
| 11/4/2023 | 2023 | 11 | 4 | 157 | 31 | 65 | 48 | 16 | 4200.5 |
| 11/5/2023 | 2023 | 11 | 5 | 158 | 34 | 62 | 48 | 16 | 4216.5 |
| 11/6/2023 | 2023 | 11 | 6 | 159 | 41 | 63 | 52 | 20 | 4236.5 |
| 11/7/2023 | 2023 | 11 | 7 | 160 | 39 | 61 | 50 | 18 | 4254.5 |
| 11/8/2023 | 2023 | 11 | 8 | 161 | 24 | 50 | 37 | 5 | 4259.5 |
| 11/9/2023 | 2023 | 11 | 9 | 162 | 22 | 47 | 34.5 | 2.5 | 4262 |
| 11/10/2023 | 2023 | 11 | 10 | 163 | 24 | 40 | 32 | 0 | 4262 |
| 11/11/2023 | 2023 | 11 | 11 | 164 | 21 | 45 | 33 | 1 | 4263 |
| 11/12/2023 | 2023 | 11 | 12 | 165 | 20 | 56 | 38 | 6 | 4269 |
| 11/13/2023 | 2023 | 11 | 13 | 166 | 31 | 54 | 42.5 | 10.5 | 4279.5 |
| 11/14/2023 | 2023 | 11 | 14 | 167 | 26 | 56 | 41 | 9 | 4288.5 |
| 11/15/2023 | 2023 | 11 | 15 | 168 | 28 | 60 | 44 | 12 | 4300.5 |
| 11/16/2023 | 2023 | 11 | 16 | 169 | 38 | 55 | 46.5 | 14.5 | 4315 |
| 11/17/2023 | 2023 | 11 | 17 | 170 | 33 | 53 | 43 | 11 | 4326 |
| 11/18/2023 | 2023 | 11 | 18 | 171 | 30 | 40 | 35 | 3 | 4329 |
| 11/19/2023 | 2023 | 11 | 19 | 172 | 28 | 36 | 32 | 0 | 4329 |
| 11/20/2023 | 2023 | 11 | 20 | 173 | 23 | 36 | 29.5 | -2.5 | 4326.5 |
| 11/21/2023 | 2023 | 11 | 21 | 174 | 20 | 42 | 31 | -1 | 4325.5 |
| 11/22/2023 | 2023 | 11 | 22 | 175 | 19 | 51 | 35 | 3 | 4328.5 |
| 11/23/2023 | 2023 | 11 | 23 | 176 | 24 | 46 | 35 | 3 | 4331.5 |
| 11/24/2023 | 2023 | 11 | 24 | 177 | 23 | 40 | 31.5 | -0.5 | 4331 |
| 11/25/2023 | 2023 | 11 | 25 | 178 | 15 | 31 | 23 | -9 | 4322 |
| 11/26/2023 | 2023 | 11 | 26 | 179 | 8 | 37 | 22.5 | -9.5 | 4312.5 |
| 11/27/2023 | 2023 | 11 | 27 | 180 | 10 | 38 | 24 | -8 | 4304.5 |
| 11/28/2023 | 2023 | 11 | 28 | 181 | 12 | 44 | 28 | -4 | 4300.5 |
| 11/29/2023 | 2023 | 11 | 29 | 182 | 26 | 45 | 35.5 | 3.5 | 4304 |
| 11/30/2023 | 2023 | 11 | 30 | 183 | 25 | 31 | 28 | -4 | 4300 |
| 12/1/2023 | 2023 | 12 | 1 | 184 | 21 | 28 | 24.5 | -7.5 | 4292.5 |
| 12/2/2023 | 2023 | 12 | 2 | 185 | 17 | 29 | 23 | -9 | 4283.5 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12/3/2023 | 2023 | 12 | 3 | 186 | 21 | 37 | 29 | -3 | 4280.5 |
| 12/4/2023 | 2023 | 12 | 4 | 187 | 21 | 44 | 32.5 | 0.5 | 4281 |
| 12/5/2023 | 2023 | 12 | 5 | 188 | 20 | 51 | 35.5 | 3.5 | 4284.5 |
| 12/6/2023 | 2023 | 12 | 6 | 189 | 23 | 52 | 37.5 | 5.5 | 4290 |
| 12/7/2023 | 2023 | 12 | 7 | 190 | 30 | 46 | 38 | 6 | 4296 |
| 12/8/2023 | 2023 | 12 | 8 | 191 | 13 | 37 | 25 | -7 | 4289 |
| 12/9/2023 | 2023 | 12 | 9 | 192 | 7 | 28 | 17.5 | -14.5 | 4274.5 |
| 12/10/2023 | 2023 | 12 | 10 | 193 | 6 | 46 | 26 | -6 | 4268.5 |
| 12/11/2023 | 2023 | 12 | 11 | 194 | 22 | 51 | 36.5 | 4.5 | 4273 |
| 12/12/2023 | 2023 | 12 | 12 | 195 | 28 | 48 | 38 | 6 | 4279 |
| 12/13/2023 | 2023 | 12 | 13 | 196 | 29 | 39 | 34 | 2 | 4281 |
| 12/14/2023 | 2023 | 12 | 14 | 197 | 18 | 35 | 26.5 | -5.5 | 4275.5 |
| 12/15/2023 | 2023 | 12 | 15 | 198 | 16 | 40 | 28 | -4 | 4271.5 |
| 12/16/2023 | 2023 | 12 | 16 | 199 | 15 | 52 | 33.5 | 1.5 | 4273 |
| 12/17/2023 | 2023 | 12 | 17 | 200 | 24 | 53 | 38.5 | 6.5 | 4279.5 |
| 12/18/2023 | 2023 | 12 | 18 | 201 | 25 | 51 | 38 | 6 | 4285.5 |
| 12/19/2023 | 2023 | 12 | 19 | 202 | 29 | 50 | 39.5 | 7.5 | 4293 |
| 12/20/2023 | 2023 | 12 | 20 | 203 | 28 | 41 | 34.5 | 2.5 | 4295.5 |
| 12/21/2023 | 2023 | 12 | 21 | 204 | 24 | 44 | 34 | 2 | 4297.5 |
| 12/22/2023 | 2023 | 12 | 22 | 205 | 27 | 43 | 35 | 3 | 4300.5 |
| 12/23/2023 | 2023 | 12 | 23 | 206 | 26 | 33 | 29.5 | -2.5 | 4298 |
| 12/24/2023 | 2023 | 12 | 24 | 207 | 11 | 32 | 21.5 | -10.5 | 4287.5 |
| 12/25/2023 | 2023 | 12 | 25 | 208 | 2 | 28 | 15 | -17 | 4270.5 |
| 12/26/2023 | 2023 | 12 | 26 | 209 | 6 | 31 | 18.5 | -13.5 | 4257 |
| 12/27/2023 | 2023 | 12 | 27 | 210 | 11 | 38 | 24.5 | -7.5 | 4249.5 |
| 12/28/2023 | 2023 | 12 | 28 | 211 | 13 | 38 | 25.5 | -6.5 | 4243 |
| 12/29/2023 | 2023 | 12 | 29 | 212 | 14 | 46 | 30 | -2 | 4241 |
| 12/30/2023 | 2023 | 12 | 30 | 213 | 19 | 47 | 33 | 1 | 4242 |
| 12/31/2023 | 2023 | 12 | 31 | 214 | 18 | 38 | 28 | -4 | 4238 |
| 1/1/2024 | 2024 | 1 | 1 | 215 | 16 | 41 | 28.5 | -3.5 | 4234.5 |
| 1/2/2024 | 2024 | 1 | 2 | 216 | 15 | 40 | 27.5 | -4.5 | 4230 |
| 1/3/2024 | 2024 | 1 | 3 | 217 | 17 | 41 | 29 | -3 | 4227 |
| 1/4/2024 | 2024 | 1 | 4 | 218 | 21 | 28 | 24.5 | -7.5 | 4219.5 |
| 1/5/2024 | 2024 | 1 | 5 | 219 | 11 | 27 | 19 | -13 | 4206.5 |
| 1/6/2024 | 2024 | 1 | 6 | 220 | 8 | 26 | 17 | -15 | 4191.5 |
| 1/7/2024 | 2024 | 1 | 7 | 221 | 14 | 21 | 17.5 | -14.5 | 4177 |
| 1/8/2024 | 2024 | 1 | 8 | 222 | 4 | 18 | 11 | -21 | 4156 |
| 1/9/2024 | 2024 | 1 | 9 | 223 | 4 | 29 | 16.5 | -15.5 | 4140.5 |
| 1/10/2024 | 2024 | 1 | 10 | 224 | 14 | 31 | 22.5 | -9.5 | 4131 |
| 1/11/2024 | 2024 | 1 | 11 | 225 | 5 | 21 | 13 | -19 | 4112 |
| 1/12/2024 | 2024 | 1 | 12 | 226 | 5 | 24 | 14.5 | -17.5 | 4094.5 |
| 1/13/2024 | 2024 | 1 | 13 | 227 | 17 | 34 | 25.5 | -6.5 | 4088 |
| 1/14/2024 | 2024 | 1 | 14 | 228 | 24 | 38 | 31 | -1 | 4087 |
| 1/15/2024 | 2024 | 1 | 15 | 229 | 22 | 36 | 29 | -3 | 4084 |
| 1/16/2024 | 2024 | 1 | 16 | 230 | 18 | 41 | 29.5 | -2.5 | 4081.5 |
| 1/17/2024 | 2024 | 1 | 17 | 231 | 21 | 39 | 30 | -2 | 4079.5 |
| 1/18/2024 | 2024 | 1 | 18 | 232 | 22 | 44 | 33 | 1 | 4080.5 |
| 1/19/2024 | 2024 | 1 | 19 | 233 | 20 | 48 | 34 | 2 | 4082.5 |
| 1/20/2024 | 2024 | 1 | 20 | 234 | 27 | 47 | 37 | 5 | 4087.5 |
| 1/21/2024 | 2024 | 1 | 21 | 235 | 29 | 35 | 32 | 0 | 4087.5 |
| 1/22/2024 | 2024 | 1 | 22 | 236 | 20 | 35 | 27.5 | -4.5 | 4083 |
| 1/23/2024 | 2024 | 1 | 23 | 237 | 20 | 36 | 28 | -4 | 4079 |
| 1/24/2024 | 2024 | 1 | 24 | 238 | 26 | 38 | 32 | 0 | 4079 |
| 1/25/2024 | 2024 | 1 | 25 | 239 | 25 | 32 | 28.5 | -3.5 | 4075.5 |
| 1/26/2024 | 2024 | 1 | 26 | 240 | 14 | 32 | 23 | -9 | 4066.5 |
| 1/27/2024 | 2024 | 1 | 27 | 241 | 12 | 40 | 26 | -6 | 4060.5 |
| 1/28/2024 | 2024 | 1 | 28 | 242 | 12 | 49 | 30.5 | -1.5 | 4059 |
| 1/29/2024 | 2024 | 1 | 29 | 243 | 20 | 52 | 36 | 4 | 4063 |
| 1/30/2024 | 2024 | 1 | 30 | 244 | 22 | 51 | 36.5 | 4.5 | 4067.5 |
| 1/31/2024 | 2024 | 1 | 31 | 245 | 24 | 50 | 37 | 5 | 4072.5 |
| 2/1/2024 | 2024 | 2 | 1 | 246 | 29 | 48 | 38.5 | 6.5 | 4079 |
| 2/2/2024 | 2024 | 2 | 2 | 247 | 22 | 36 | 29 | -3 | 4076 |
| 2/3/2024 | 2024 | 2 | 3 | 248 | 17 | 29 | 23 | -9 | 4067 |
| 2/4/2024 | 2024 | 2 | 4 | 249 | 13 | 38 | 25.5 | -6.5 | 4060.5 |
| 2/5/2024 | 2024 | 2 | 5 | 250 | 16 | 51 | 33.5 | 1.5 | 4062 |
| 2/6/2024 | 2024 | 2 | 6 | 251 | 31 | 48 | 39.5 | 7.5 | 4069.5 |
| 2/7/2024 | 2024 | 2 | 7 | 252 | 22 | 31 | 26.5 | -5.5 | 4064 |
| 2/8/2024 | 2024 | 2 | 8 | 253 | 16 | 36 | 26 | -6 | 4058 |
| 2/9/2024 | 2024 | 2 | 9 | 254 | 15 | 32 | 23.5 | -8.5 | 4049.5 |
| 2/10/2024 | 2024 | 2 | 10 | 255 | 13 | 29 | 21 | -11 | 4038.5 |
| 2/11/2024 | 2024 | 2 | 11 | 256 | 8 | 35 | 21.5 | -10.5 | 4028 |
| 2/12/2024 | 2024 | 2 | 12 | 257 | 9 | 42 | 25.5 | -6.5 | 4021.5 |
| 2/13/2024 | 2024 | 2 | 13 | 258 | 13 | 47 | 30 | -2 | 4019.5 |
| 2/14/2024 | 2024 | 2 | 14 | 259 | 19 | 41 | 30 | -2 | 4017.5 |
| 2/15/2024 | 2024 | 2 | 15 | 260 | 20 | 46 | 33 | 1 | 4018.5 |
| 2/16/2024 | 2024 | 2 | 16 | 261 | 19 | 43 | 31 | -1 | 4017.5 |
| 2/17/2024 | 2024 | 2 | 17 | 262 | 20 | 44 | 32 | 0 | 4017.5 |
| 2/18/2024 | 2024 | 2 | 18 | 263 | 22 | 47 | 34.5 | 2.5 | 4020 |
| 2/19/2024 | 2024 | 2 | 19 | 264 | 24 | 51 | 37.5 | 5.5 | 4025.5 |
| 2/20/2024 | 2024 | 2 | 20 | 265 | 30 | 54 | 42 | 10 | 4035.5 |
| 2/21/2024 | 2024 | 2 | 21 | 266 | 30 | 48 | 39 | 7 | 4042.5 |
| 2/22/2024 | 2024 | 2 | 22 | 267 | 19 | 44 | 31.5 | -0.5 | 4042 |
| 2/23/2024 | 2024 | 2 | 23 | 268 | 14 | 44 | 29 | -3 | 4039 |
| 2/24/2024 | 2024 | 2 | 24 | 269 | 20 | 51 | 35.5 | 3.5 | 4042.5 |
| 2/25/2024 | 2024 | 2 | 25 | 270 | 28 | 53 | 40.5 | 8.5 | 4051 |
| 2/26/2024 | 2024 | 2 | 26 | 271 | 32 | 47 | 39.5 | 7.5 | 4058.5 |
| 2/27/2024 | 2024 | 2 | 27 | 272 | 23 | 43 | 33 | 1 | 4059.5 |
| 2/28/2024 | 2024 | 2 | 28 | 273 | 12 | 48 | 30 | -2 | 4057.5 |
| 2/29/2024 | 2024 | 2 | 29 | 274 | 22 | 47 | 34.5 | 2.5 | 4060 |
| 3/1/2024 | 2024 | 3 | 1 | 275 | 27 | 49 | 38 | 6 | 4066 |
| 3/2/2024 | 2024 | 3 | 2 | 276 | 30 | 49 | 39.5 | 7.5 | 4073.5 |
| 3/3/2024 | 2024 | 3 | 3 | 277 | 29 | 47 | 38 | 6 | 4079.5 |
| 3/4/2024 | 2024 | 3 | 4 | 278 | 28 | 44 | 36 | 4 | 4083.5 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3/5/2024 | 2024 | 3 | 5 | 279 | 25 | 49 | 37 | 5 | 4088.5 |
| 3/6/2024 | 2024 | 3 | 6 | 280 | 26 | 44 | 35 | 3 | 4091.5 |
| 3/7/2024 | 2024 | 3 | 7 | 281 | 24 | 38 | 31 | -1 | 4090.5 |
| 3/8/2024 | 2024 | 3 | 8 | 282 | 18 | 37 | 27.5 | -4.5 | 4086 |
| 3/9/2024 | 2024 | 3 | 9 | 283 | 14 | 42 | 28 | -4 | 4082 |
| 3/10/2024 | 2024 | 3 | 10 | 284 | 15 | 50 | 32.5 | 0.5 | 4082.5 |
| 3/11/2024 | 2024 | 3 | 11 | 285 | 23 | 50 | 36.5 | 4.5 | 4087 |
| 3/12/2024 | 2024 | 3 | 12 | 286 | 31 | 50 | 40.5 | 8.5 | 4095.5 |
| 3/13/2024 | 2024 | 3 | 13 | 287 | 25 | 33 | 29 | -3 | 4092.5 |
| 3/14/2024 | 2024 | 3 | 14 | 288 | 22 | 39 | 30.5 | -1.5 | 4091 |
| 3/15/2024 | 2024 | 3 | 15 | 289 | 26 | 33 | 29.5 | -2.5 | 4088.5 |
| 3/16/2024 | 2024 | 3 | 16 | 290 | 19 | 41 | 30 | -2 | 4086.5 |
| 3/17/2024 | 2024 | 3 | 17 | 291 | 14 | 38 | 26 | -6 | 4080.5 |
| 3/18/2024 | 2024 | 3 | 18 | 292 | 27 | 41 | 34 | 2 | 4082.5 |
| 3/19/2024 | 2024 | 3 | 19 | 293 | 23 | 45 | 34 | 2 | 4084.5 |
| 3/20/2024 | 2024 | 3 | 20 | 294 | 20 | 49 | 34.5 | 2.5 | 4087 |
| 3/21/2024 | 2024 | 3 | 21 | 295 | 26 | 53 | 39.5 | 7.5 | 4094.5 |
| 3/22/2024 | 2024 | 3 | 22 | 296 | 27 | 54 | 40.5 | 8.5 | 4103 |
| 3/23/2024 | 2024 | 3 | 23 | 297 | 28 | 50 | 39 | 7 | 4110 |
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| 3/25/2024 | 2024 | 3 | 25 | 299 | 20 | 32 | 26 | -6 | 4100.5 |
| 3/26/2024 | 2024 | 3 | 26 | 300 | 20 | 36 | 28 | -4 | 4096.5 |
| 3/27/2024 | 2024 | 3 | 27 | 301 | 16 | 40 | 28 | -4 | 4092.5 |
| 3/28/2024 | 2024 | 3 | 28 | 302 | 20 | 53 | 36.5 | 4.5 | 4097 |
| 3/29/2024 | 2024 | 3 | 29 | 303 | 32 | 52 | 42 | 10 | 4107 |
| 3/30/2024 | 2024 | 3 | 30 | 304 | 32 | 57 | 44.5 | 12.5 | 4119.5 |
| 3/31/2024 | 2024 | 3 | 31 | 305 | 25 | 48 | 36.5 | 4.5 | 4124 |
| 4/1/2024 | 2024 | 4 | 1 | 306 | 23 | 38 | 30.5 | -1.5 | 4122.5 |
| 4/2/2024 | 2024 | 4 | 2 | 307 | 20 | 46 | 33 | 1 | 4123.5 |
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| 4/5/2024 | 2024 | 4 | 5 | 310 | 21 | 55 | 38 | 6 | 4151.5 |
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| 4/7/2024 | 2024 | 4 | 7 | 312 | 19 | 44 | 31.5 | -0.5 | 4143.5 |
| 4/8/2024 | 2024 | 4 | 8 | 313 | 25 | 46 | 35.5 | 3.5 | 4147 |
| 4/9/2024 | 2024 | 4 | 9 | 314 | 26 | 49 | 37.5 | 5.5 | 4152.5 |
| 4/10/2024 | 2024 | 4 | 10 | 315 | 27 | 54 | 40.5 | 8.5 | 4161 |
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| 4/12/2024 | 2024 | 4 | 12 | 317 | 31 | 65 | 48 | 16 | 4188.5 |
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| 4/15/2024 | 2024 | 4 | 15 | 320 | 30 | 46 | 38 | 6 | 4222 |
| 4/16/2024 | 2024 | 4 | 16 | 321 | 29 | 57 | 43 | 11 | 4233 |
| 4/17/2024 | 2024 | 4 | 17 | 322 | 30 | 63 | 46.5 | 14.5 | 4247.5 |
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| 4/21/2024 | 2024 | 4 | 21 | 326 | 33 | 65 | 49 | 17 | 4316 |
| 4/22/2024 | 2024 | 4 | 22 | 327 | 35 | 66 | 50.5 | 18.5 | 4334.5 |
| 4/23/2024 | 2024 | 4 | 23 | 328 | 36 | 68 | 52 | 20 | 4354.5 |
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| 4/26/2024 | 2024 | 4 | 26 | 331 | 28 | 54 | 41 | 9 | 4392 |
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| 4/28/2024 | 2024 | 4 | 28 | 333 | 28 | 48 | 38 | 6 | 4398 |
| 4/29/2024 | 2024 | 4 | 29 | 334 | 28 | 58 | 43 | 11 | 4409 |
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| 5/1/2024 | 2024 | 5 | 1 | 336 | 34 | 63 | 48.5 | 16.5 | 4440.5 |
| 5/2/2024 | 2024 | 5 | 2 | 337 | 30 | 61 | 45.5 | 13.5 | 4454 |
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| 5/5/2024 | 2024 | 5 | 5 | 340 | 36 | 62 | 49 | 17 | 4504.5 |
| 5/6/2024 | 2024 | 5 | 6 | 341 | 36 | 62 | 49 | 17 | 4521.5 |
| 5/7/2024 | 2024 | 5 | 7 | 342 | 36 | 62 | 49 | 17 | 4538.5 |
| 5/8/2024 | 2024 | 5 | 8 | 343 | 36 | 41 | 38.5 | 6.5 | 4545 |
| 5/9/2024 | 2024 | 5 | 9 | 344 | 28 | 55 | 41.5 | 9.5 | 4554.5 |
| 5/10/2024 | 2024 | 5 | 10 | 345 | 30 | 57 | 43.5 | 11.5 | 4566 |
| 5/11/2024 | 2024 | 5 | 11 | 346 | 29 | 62 | 45.5 | 13.5 | 4579.5 |
| 5/12/2024 | 2024 | 5 | 12 | 347 | 34 | 58 | 46 | 14 | 4593.5 |
| 5/13/2024 | 2024 | 5 | 13 | 348 | 31 | 60 | 45.5 | 13.5 | 4607 |
| 5/14/2024 | 2024 | 5 | 14 | 349 | 36 | 66 | 51 | 19 | 4626 |
| 5/15/2024 | 2024 | 5 | 15 | 350 | 39 | 65 | 52 | 20 | 4646 |
| 5/16/2024 | 2024 | 5 | 16 | 351 | 38 | 62 | 50 | 18 | 4664 |
| 5/17/2024 | 2024 | 5 | 17 | 352 | 38 | 56 | 47 | 15 | 4679 |
| 5/18/2024 | 2024 | 5 | 18 | 353 | 38 | 68 | 53 | 21 | 4700 |
| 5/19/2024 | 2024 | 5 | 19 | 354 | 38 | 69 | 53.5 | 21.5 | 4721.5 |
| 5/20/2024 | 2024 | 5 | 20 | 355 | 41 | 67 | 54 | 22 | 4743.5 |
| 5/21/2024 | 2024 | 5 | 21 | 356 | 41 | 65 | 53 | 21 | 4764.5 |
| 5/22/2024 | 2024 | 5 | 22 | 357 | 33 | 63 | 48 | 16 | 4780.5 |
| 5/23/2024 | 2024 | 5 | 23 | 358 | 30 | 65 | 47.5 | 15.5 | 4796 |
| 5/24/2024 | 2024 | 5 | 24 | 359 | 39 | 67 | 53 | 21 | 4817 |
| 5/25/2024 | 2024 | 5 | 25 | 360 | 36 | 67 | 51.5 | 19.5 | 4836.5 |
| 5/26/2024 | 2024 | 5 | 26 | 361 | 36 | 63 | 49.5 | 17.5 | 4854 |
| 5/27/2024 | 2024 | 5 | 27 | 362 | 37 | 67 | 52 | 20 | 4874 |
| 5/28/2024 | 2024 | 5 | 28 | 363 | 37 | 72 | 54.5 | 22.5 | 4896.5 |
| 5/29/2024 | 2024 | 5 | 29 | 364 | 42 | 74 | 58 | 26 | 4922.5 |
| 5/30/2024 | 2024 | 5 | 30 | 365 | 42 | 74 | 58 | 26 | 4948.5 |
| 5/31/2024 | 2024 | 5 | 31 | 366 | 42 | 74 | 58 | 26 | 4974.5 |
| 6/1/2024 | 2024 | 6 | 1 | 1 | 51 | 74 | 62.5 | 30.5 | 30.5 |
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| 6/9/2024 | 2024 | 6 | 9 | 9 | 53 | 80 | 66.5 | 34.5 | 279 |
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| 6/16/2024 | 2024 | 6 | 16 | 16 | 43 | 78 | 60.5 | 28.5 | 488 |
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| 6/18/2024 | 2024 | 6 | 18 | 18 | 47 | 79 | 63 | 31 | 553 |
| 6/19/2024 | 2024 | 6 | 19 | 19 | 45 | 74 | 59.5 | 27.5 | 580.5 |
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| 6/27/2024 | 2024 | 6 | 27 | 27 | 54 | 80 | 67 | 35 | 830.5 |
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| 6/29/2024 | 2024 | 6 | 29 | 29 | 49 | 74 | 61.5 | 29.5 | 891.5 |
| 6/30/2024 | 2024 | 6 | 30 | 30 | 52 | 75 | 63.5 | 31.5 | 923 |
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| 7/17/2024 | 2024 | 7 | 17 | 47 | 52 | 82 | 67 | 35 | 1466.5 |
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| 7/22/2024 | 2024 | 7 | 22 | 52 | 48 | 70 | 59 | 27 | 1622.5 |
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| 8/14/2024 | 2024 | 8 | 14 | 75 | 51 | 67 | 59 | 27 | 2374 |
| 8/15/2024 | 2024 | 8 | 15 | 76 | 47 | 74 | 60.5 | 28.5 | 2402.5 |
| 8/16/2024 | 2024 | 8 | 16 | 77 | 47 | 78 | 62.5 | 30.5 | 2433 |
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| 9/4/2024 | 2024 | 9 | 4 | 96 | 43 | 74 | 58.5 | 26.5 | 2984.5 |
| 9/5/2024 | 2024 | 9 | 5 | 97 | 47 | 78 | 62.5 | 30.5 | 3015 |
| 9/6/2024 | 2024 | 9 | 6 | 98 | 46 | 78 | 62 | 30 | 3045 |

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| 9/8/2024 | 2024 | 9 | 8 | 100 | 45 | 72 | 58.5 | 26.5 | 3099 |
| 9/9/2024 | 2024 | 9 | 9 | 101 | 47 | 74 | 60.5 | 28.5 | 3127.5 |
| 9/10/2024 | 2024 | 9 | 10 | 102 | 48 | 75 | 61.5 | 29.5 | 3157 |
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| 9/24/2024 | 2024 | 9 | 24 | 116 | 36 | 65 | 50.5 | 18.5 | 3480.5 |
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| 11/20/2024 | 2024 | 11 | 20 | 173 | 15 | 35 | 25 | -7 | 4251.5 |
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| 11/24/2024 | 2024 | 11 | 24 | 177 | 29 | 55 | 42 | 10 | 4277 |
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| 11/26/2024 | 2024 | 11 | 26 | 179 | 26 | 47 | 36.5 | 4.5 | 4291.5 |
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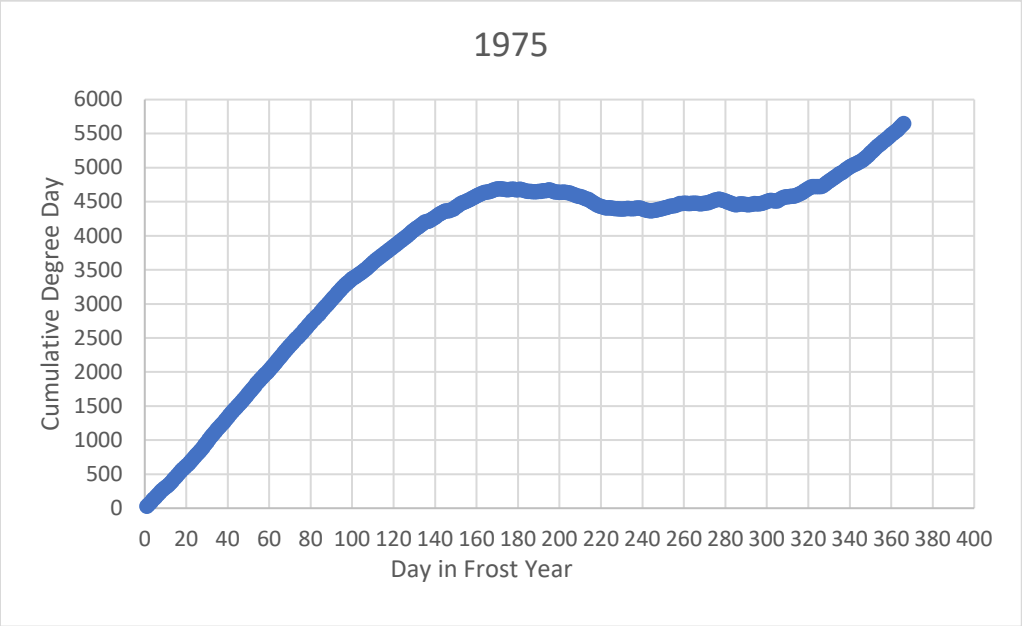
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| 1/26/2025 | 2025 | 1 | 26 | 240 | 8 | 42 | 25 | -7 | 4138 |
| 1/27/2025 | 2025 | 1 | 27 | 241 | 8 | 42 | 25 | -7 | 4131 |
| 1/28/2025 | 2025 | 1 | 28 | 242 | 15 | 43 | 29 | -3 | 4128 |
| 1/29/2025 | 2025 | 1 | 29 | 243 | 14 | 41 | 27.5 | -4.5 | 4123.5 |
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| 2/13/2025 | 2025 | 2 | 13 | 258 | 18 | 33 | 25.5 | -6.5 | 4205 |
| 2/14/2025 | 2025 | 2 | 14 | 259 | 13 | 42 | 27.5 | -4.5 | 4200.5 |
| 2/15/2025 | 2025 | 2 | 15 | 260 | 13 | 34 | 23.5 | -8.5 | 4192 |
| 2/16/2025 | 2025 | 2 | 16 | 261 | 21 | 31 | 26 | -6 | 4186 |
| 2/17/2025 | 2025 | 2 | 17 | 262 | 13 | 45 | 29 | -3 | 4183 |
| 2/18/2025 | 2025 | 2 | 18 | 263 | 13 | 47 | 30 | -2 | 4181 |
| 2/19/2025 | 2025 | 2 | 19 | 264 | 19 | 40 | 29.5 | -2.5 | 4178.5 |
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| 2/21/2025 | 2025 | 2 | 21 | 266 | 22 | 47 | 34.5 | 2.5 | 4179.5 |
| 2/22/2025 | 2025 | 2 | 22 | 267 | 18 | 42 | 30 | -2 | 4177.5 |
| 2/23/2025 | 2025 | 2 | 23 | 268 | 16 | 46 | 31 | -1 | 4176.5 |
| 2/24/2025 | 2025 | 2 | 24 | 269 | 23 | 53 | 38 | 6 | 4182.5 |
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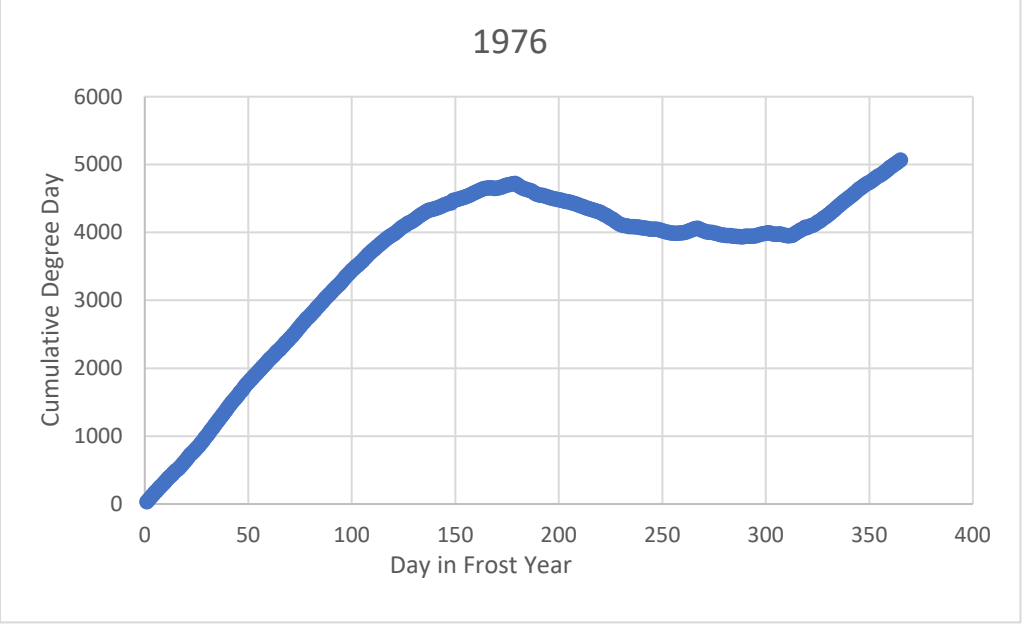
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| 3/19/2025 | 2025 | 3 | 19 | 292 | 16 | 40 | 28 | -4 | 4205 |
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| 3/22/2025 | 2025 | 3 | 22 | 295 | 25 | 50 | 37.5 | 5.5 | 4200.5 |
| 3/23/2025 | 2025 | 3 | 23 | 296 | 29 | 52 | 40.5 | 8.5 | 4209 |
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| 3/29/2025 | 2025 | 3 | 29 | 302 | 34 | 58 | 46 | 14 | 4293.5 |
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| 4/5/2025 | 2025 | 4 | 5 | 309 | 20 | 37 | 28.5 | -3.5 | 4302 |
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| 5/25/2025 | 2025 | 5 | 25 | 359 | 42 | 70 | 56 | 24 | 4979.5 |
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| 6/3/2025 | 2025 | 6 | 3 | 3 | 44 | 69 | 56.5 | 24.5 | 80.5 |
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| 6/10/2025 | 2025 | 6 | 10 | 10 | 46 | 74 | 60 | 28 | 259 |
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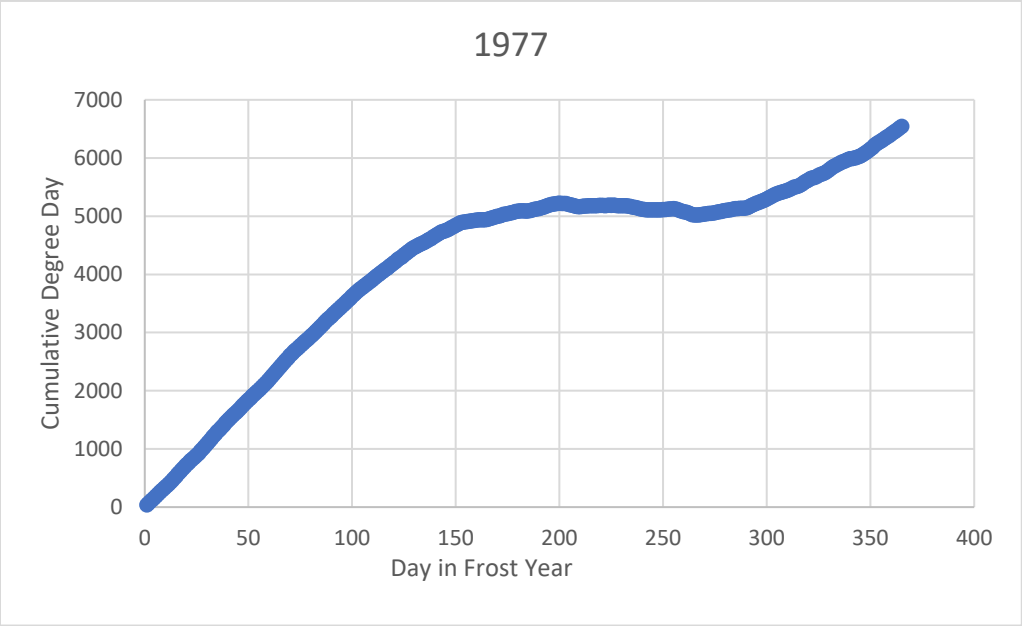
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| 6/27/2025 | 2025 | 6 | 27 | 27 | 49 | 79 | 64 | 32 | 811 |
| 6/28/2025 | 2025 | 6 | 28 | 28 | 48 | 81 | 64.5 | 32.5 | 843.5 |
| 6/29/2025 | 2025 | 6 | 29 | 29 | 47 | 84 | 65.5 | 33.5 | 877 |
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| 7/8/2025 | 2025 | 7 | 8 | 38 | 56 | 87 | 71.5 | 39.5 | 1169.5 |
| 7/9/2025 | 2025 | 7 | 9 | 39 | 51 | 86 | 68.5 | 36.5 | 1206 |
| 7/10/2025 | 2025 | 7 | 10 | 40 | 59 | 88 | 73.5 | 41.5 | 1247.5 |
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| 7/13/2025 | 2025 | 7 | 13 | 43 | 51 | 86 | 68.5 | 36.5 | 1357.5 |
| 7/14/2025 | 2025 | 7 | 14 | 44 | 53 | 82 | 67.5 | 35.5 | 1393 |
| 7/15/2025 | 2025 | 7 | 15 | 45 | 51 | 81 | 66 | 34 | 1427 |
| 7/16/2025 | 2025 | 7 | 16 | 46 | 53 | 79 | 66 | 34 | 1461 |
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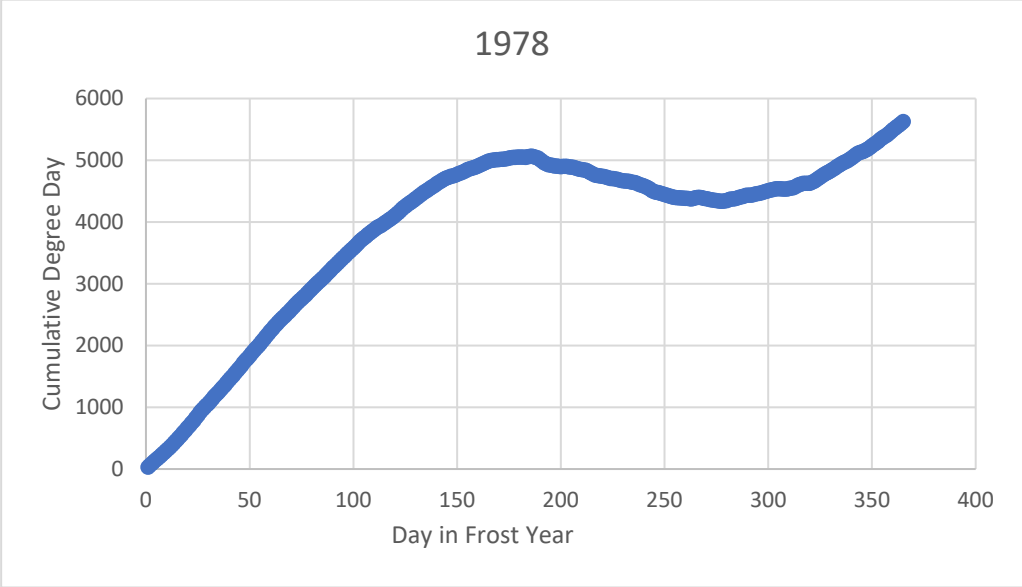
# ATTACHMENT D2
# FROST INDEX CALCULATIONS

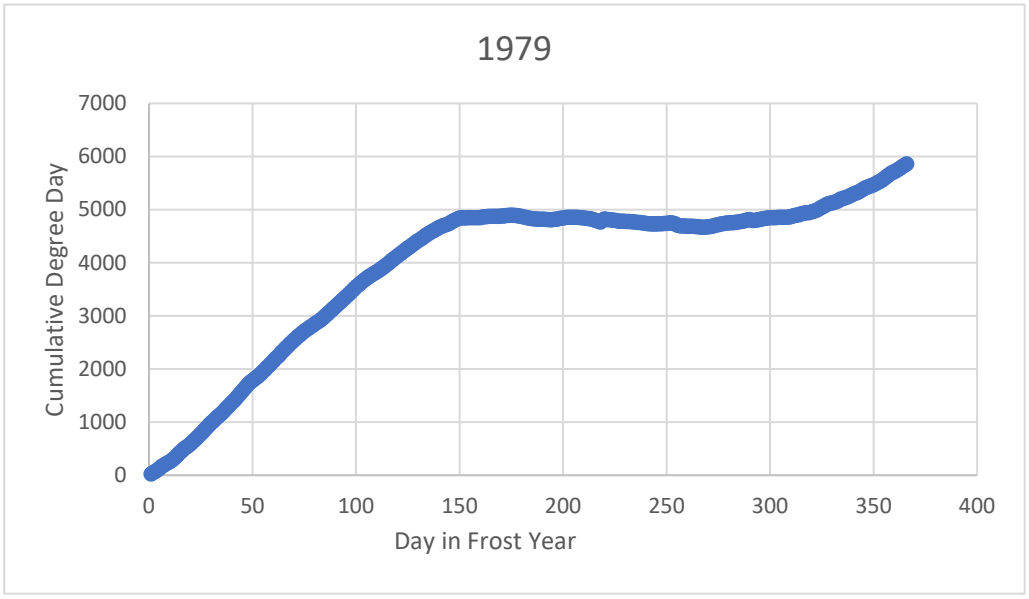
# ATTACHMENT D2.1
# CUMULATIVE DEGREE DAY PLOTS

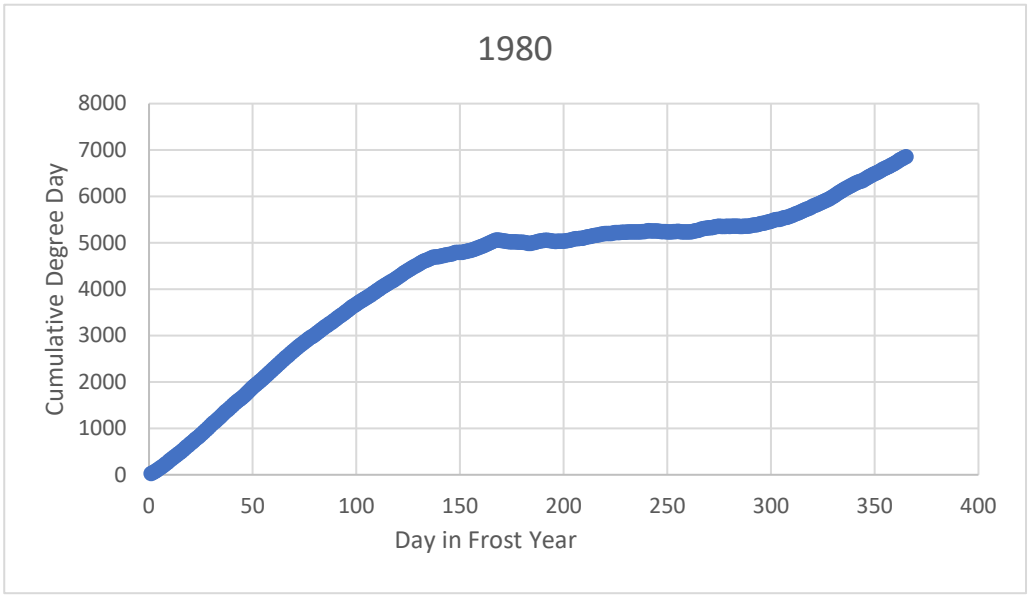

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Cumulative Degree Day
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400
Day in Frost Year

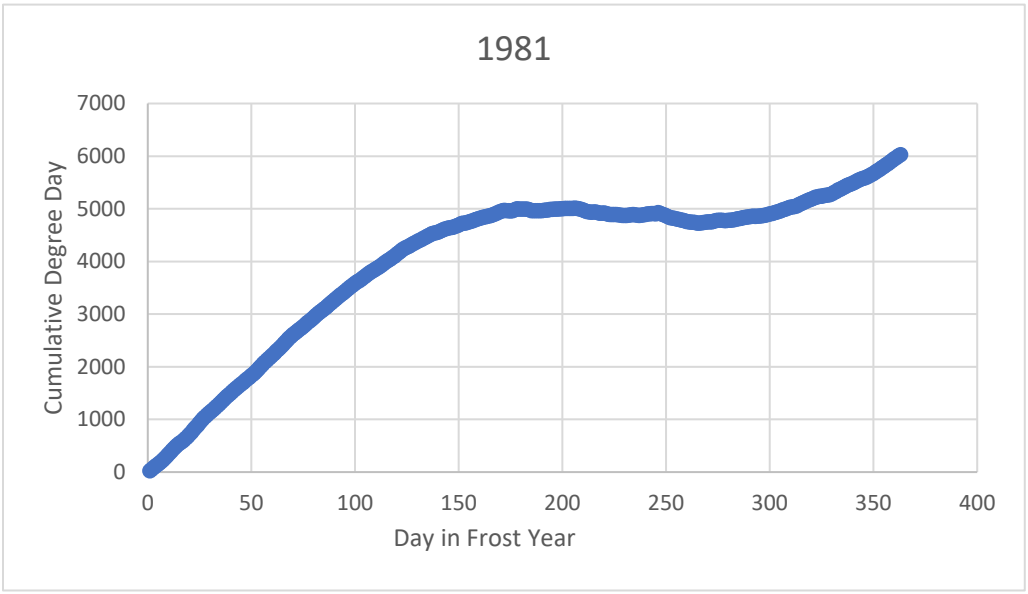

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Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0 50 100 150 200 250 300 350 400
Day in Frost Year

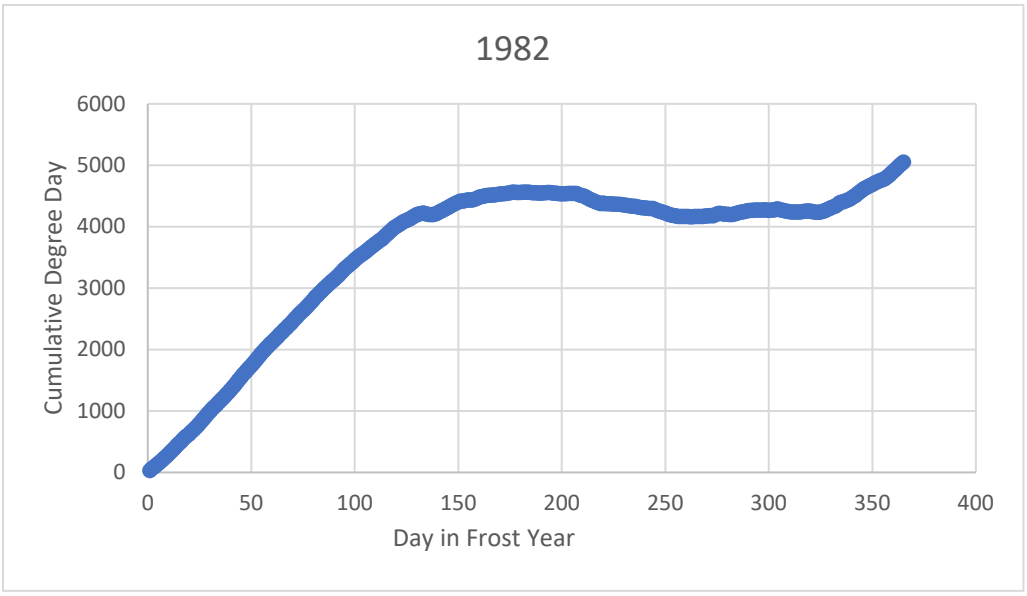

1977
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

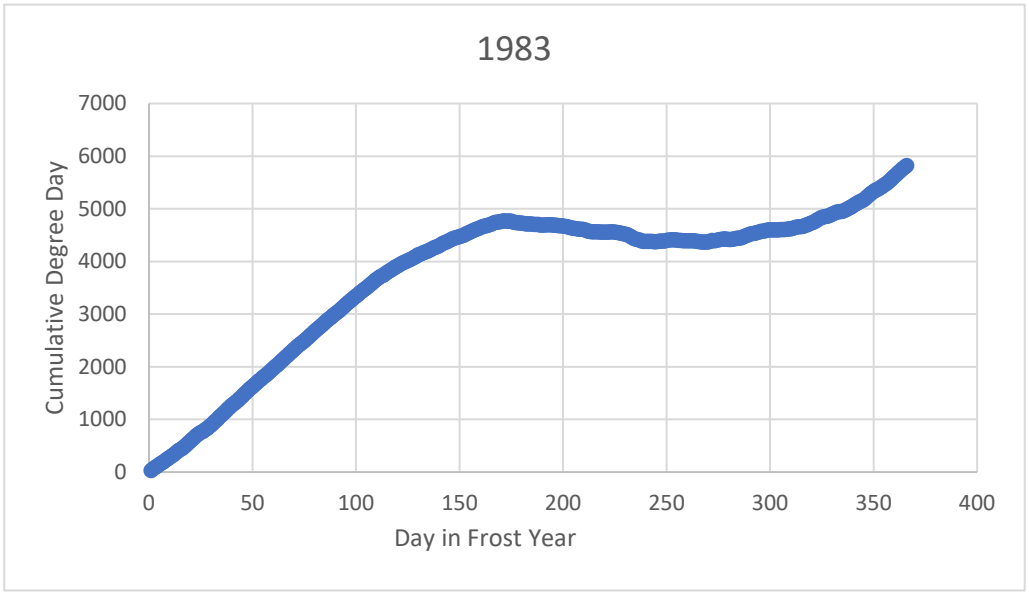

1978
Cumulative Degree Day
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4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

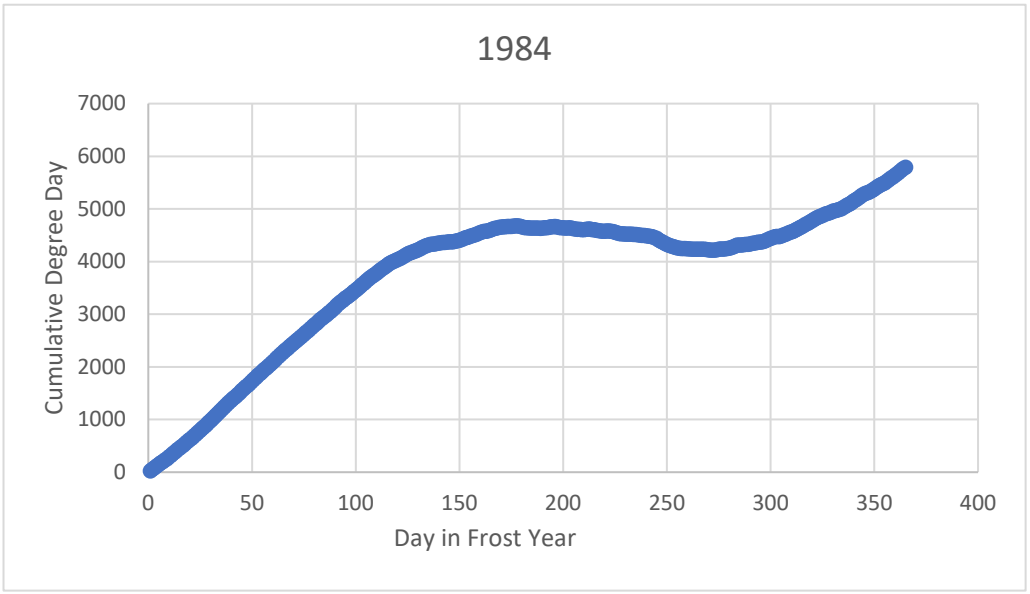

1979
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

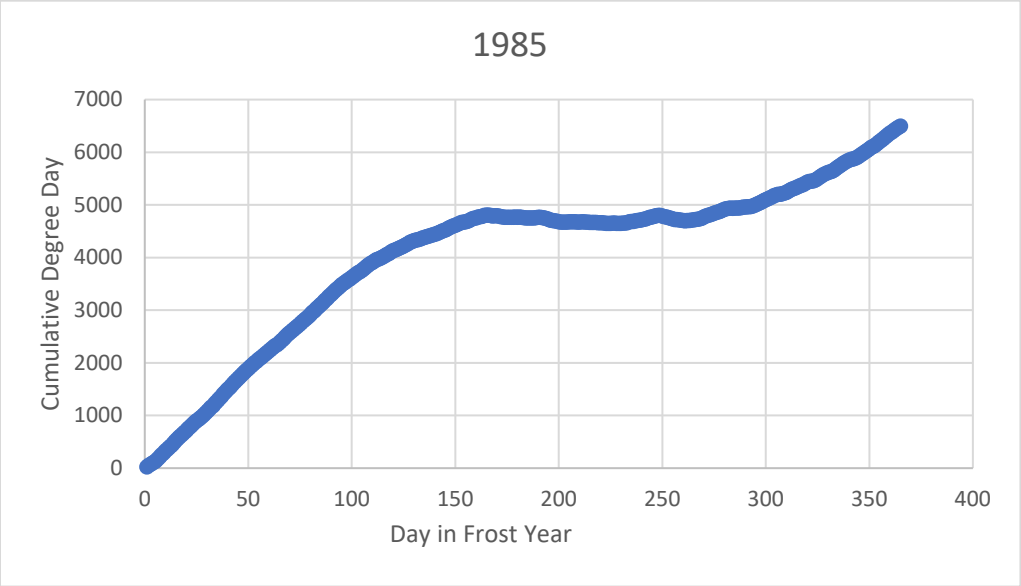

1980
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

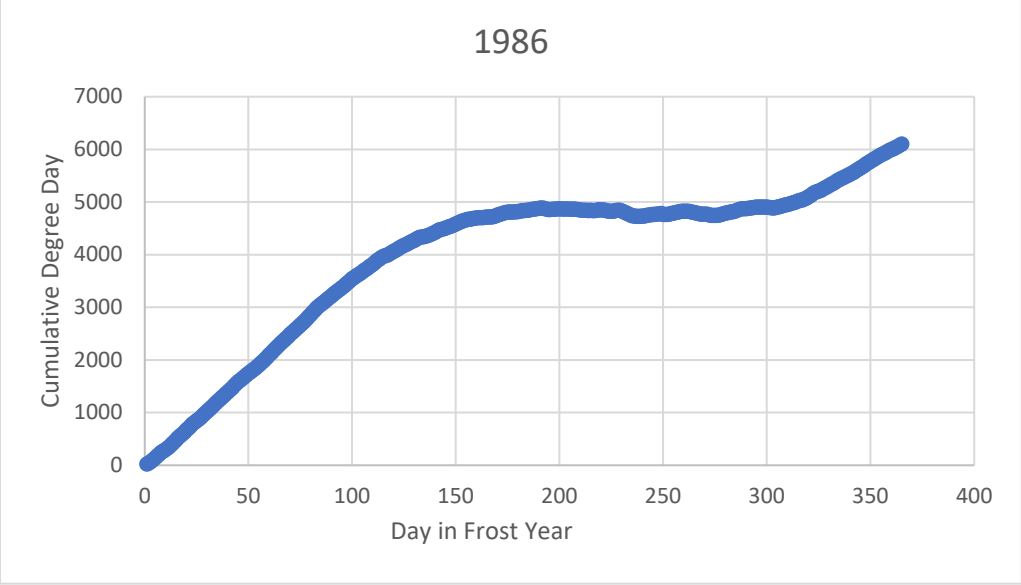

1981
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

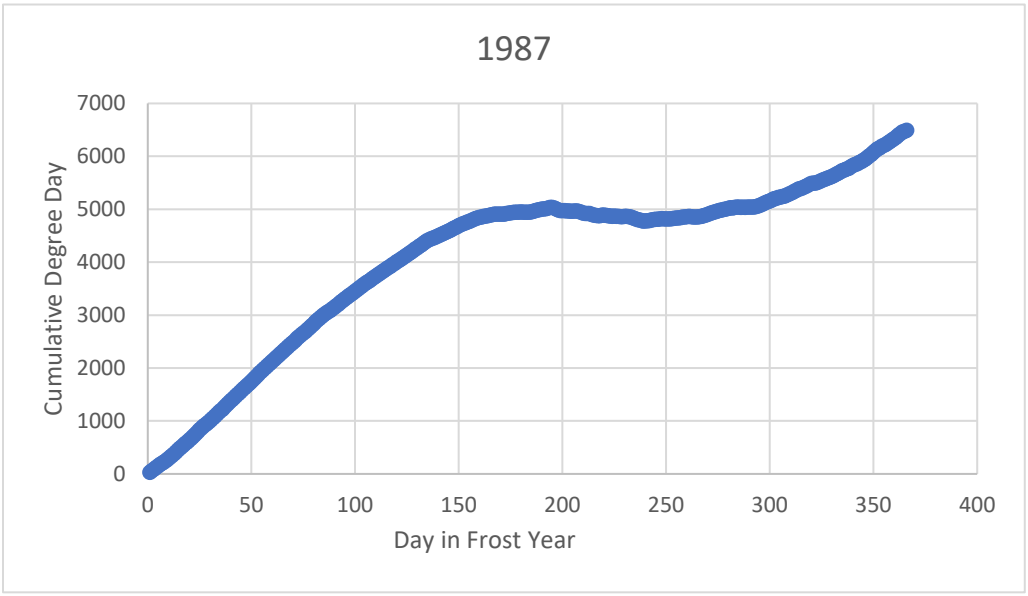

1982
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

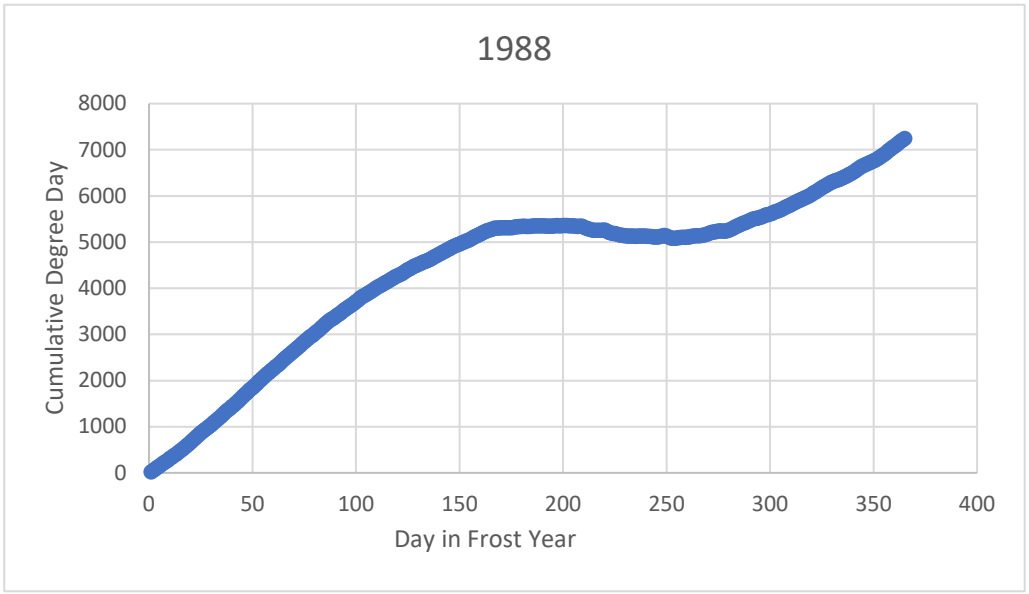

1983
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

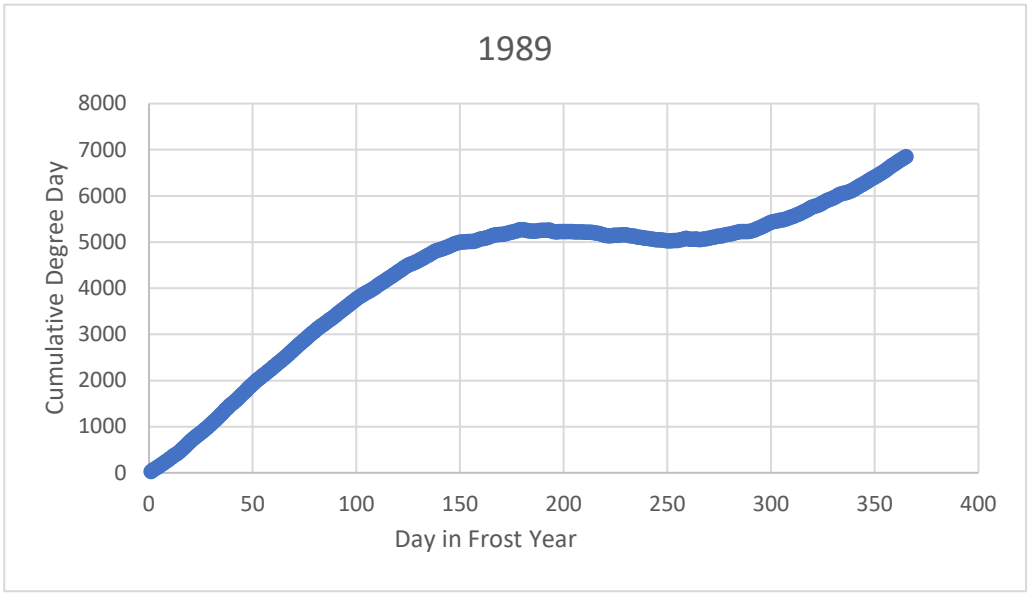

1984
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

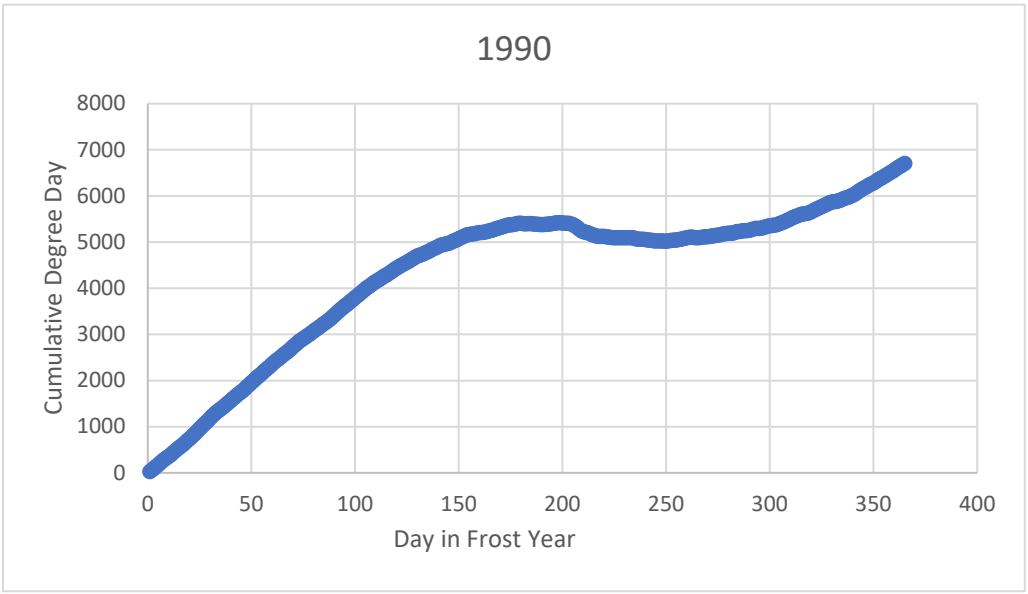

1985
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

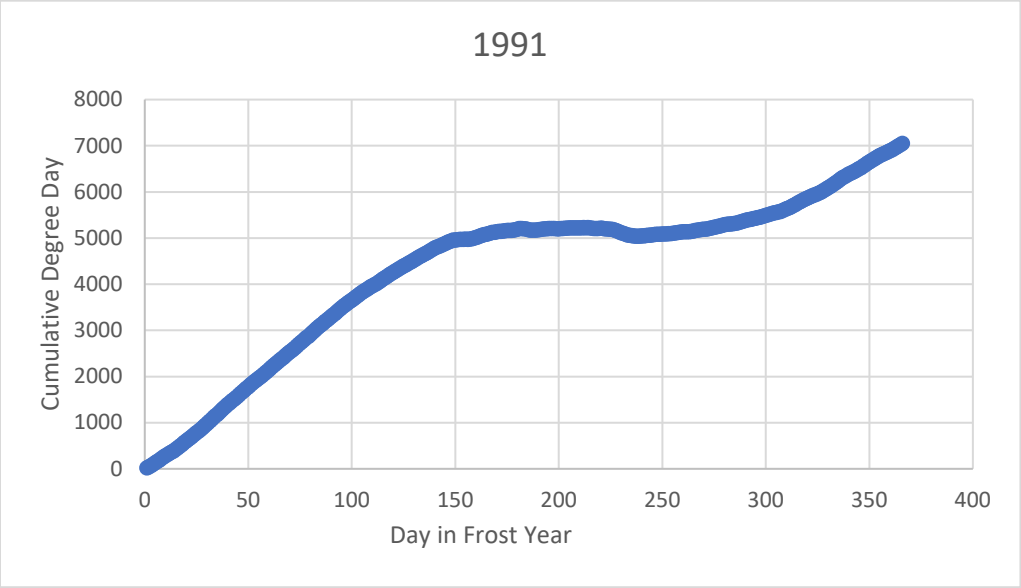

1986
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

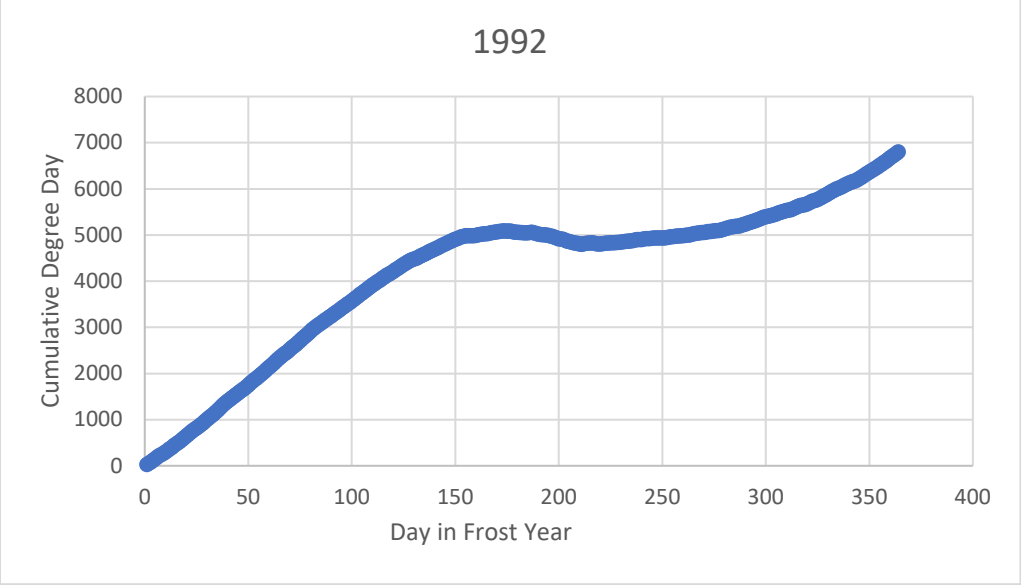

1987
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

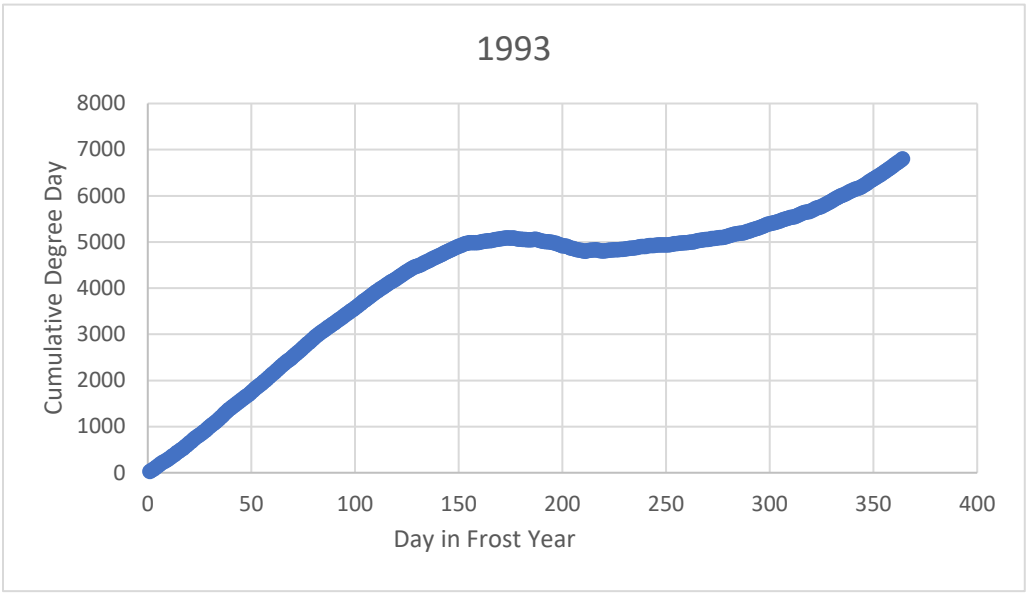

1988
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

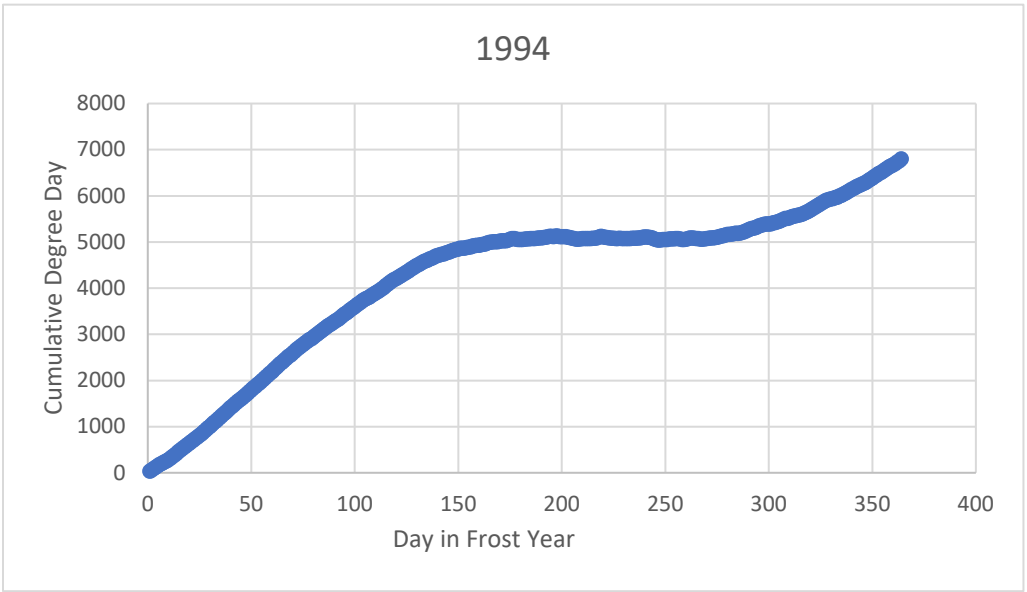

1989
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

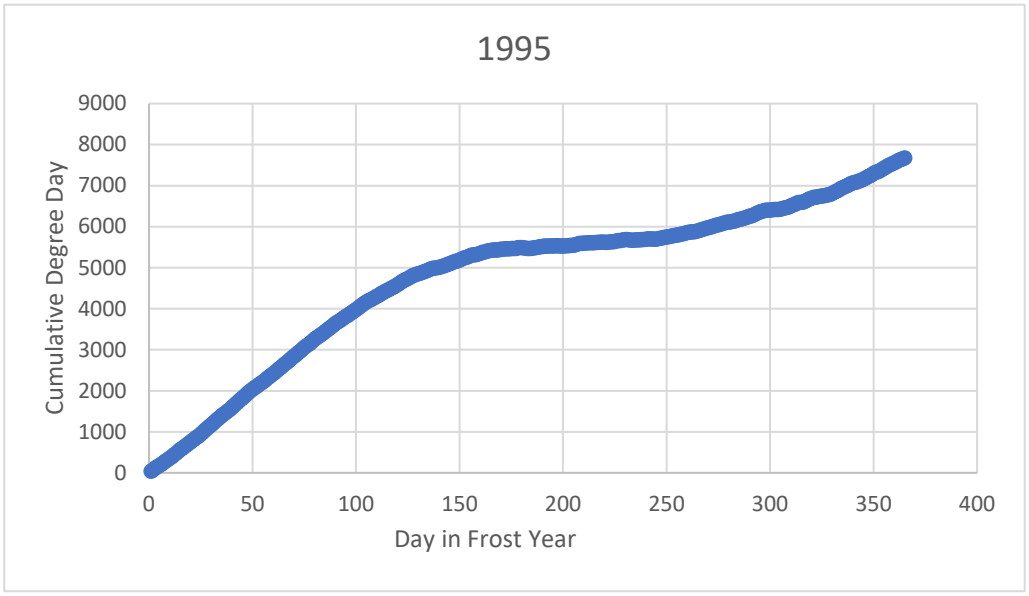

1990
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

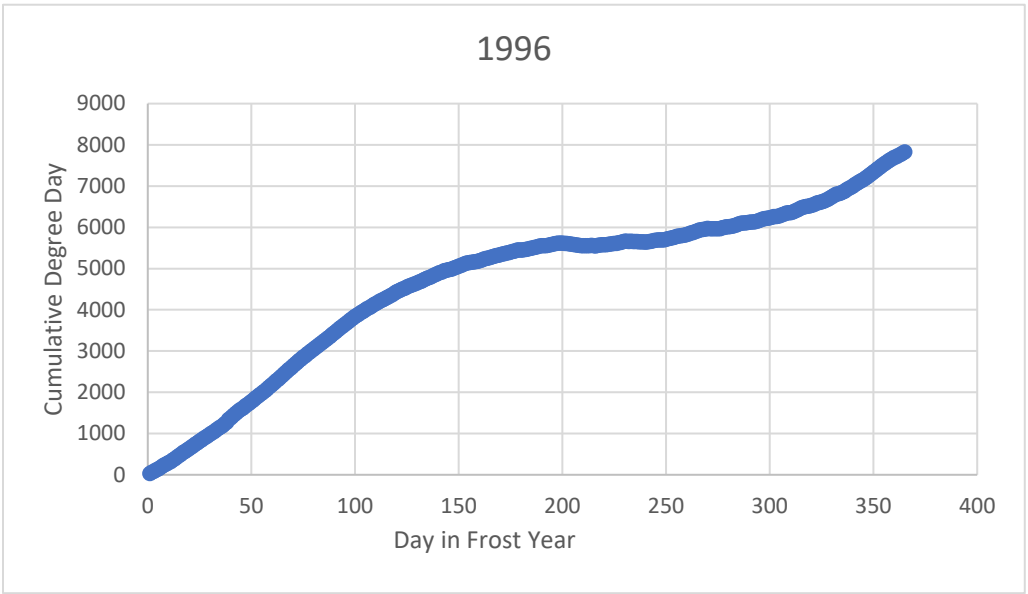

1991
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

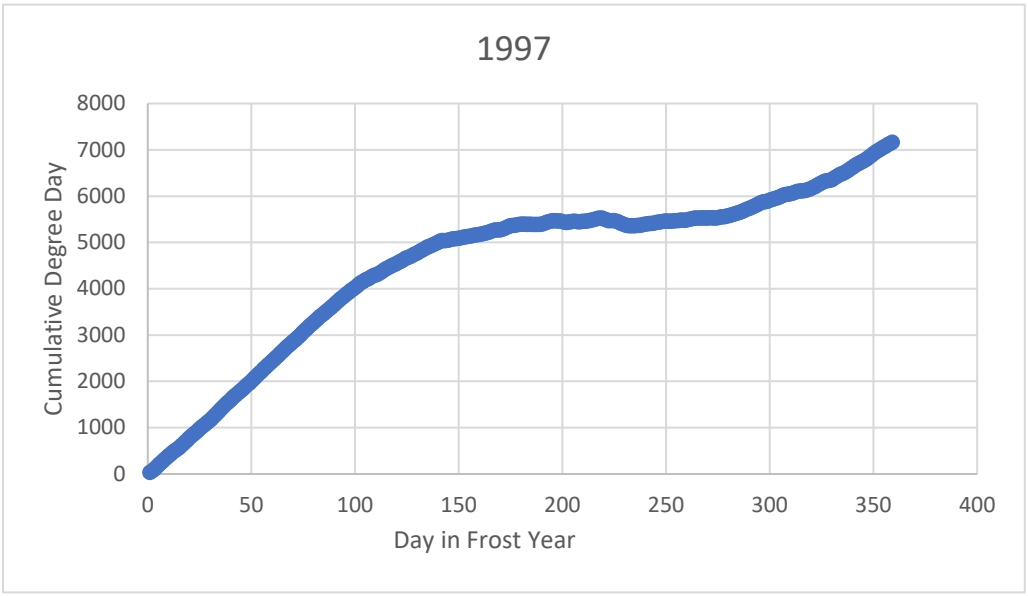

1992
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

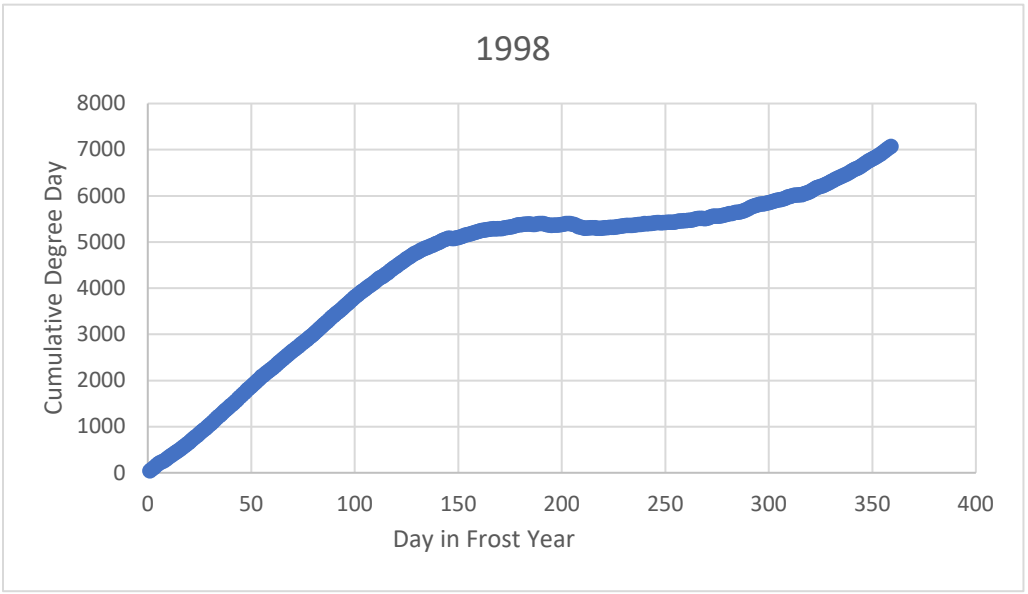

1993
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

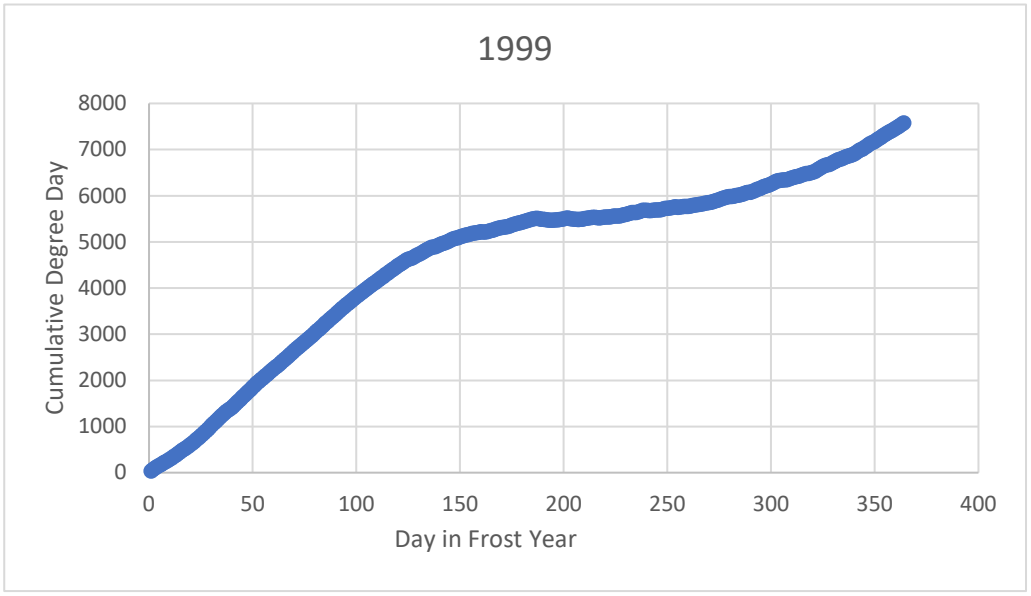

1994
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

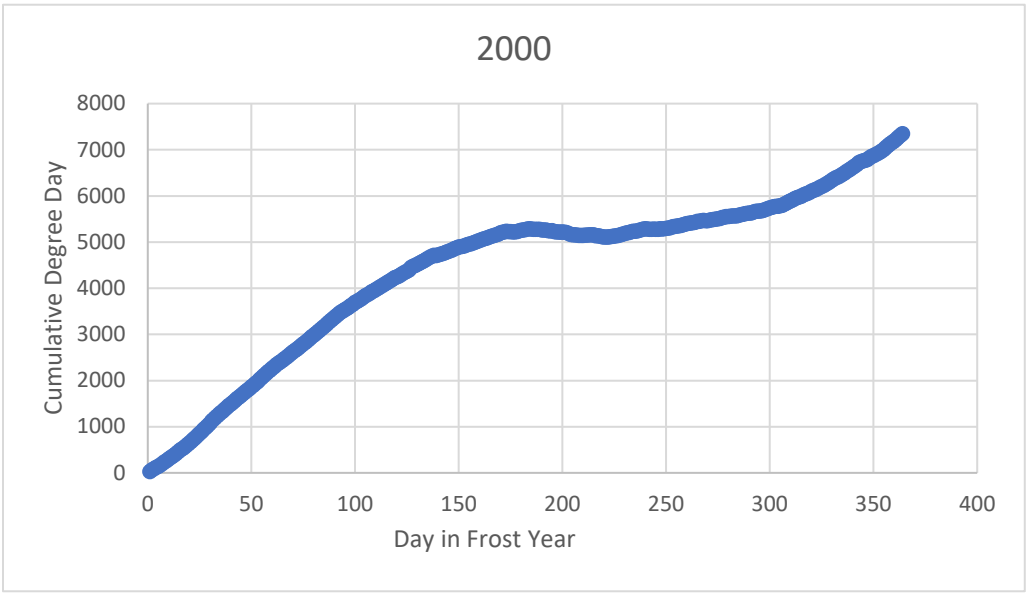

1995
Cumulative Degree Day
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

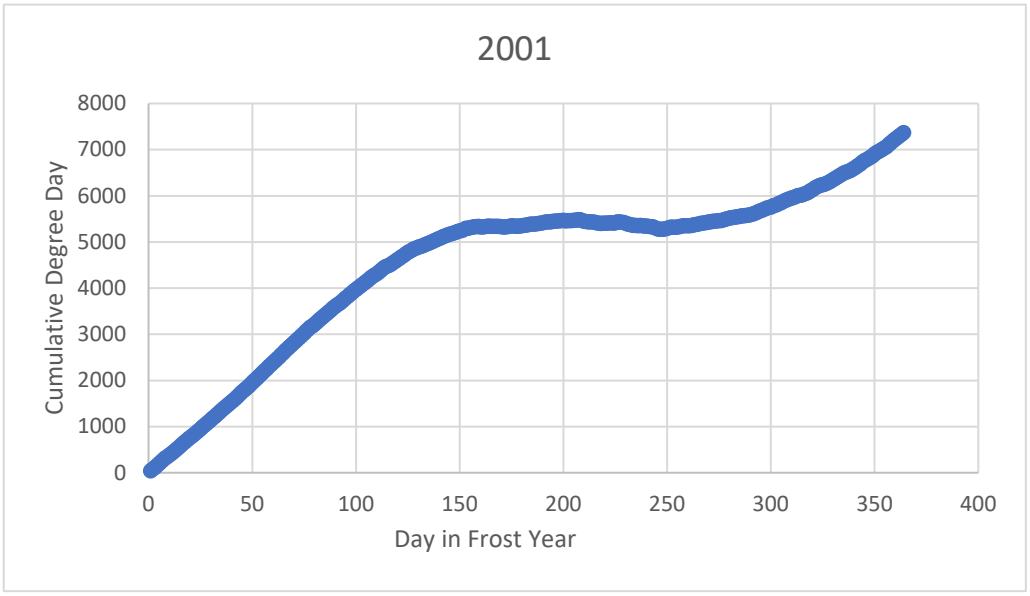

1996
Cumulative Degree Day
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

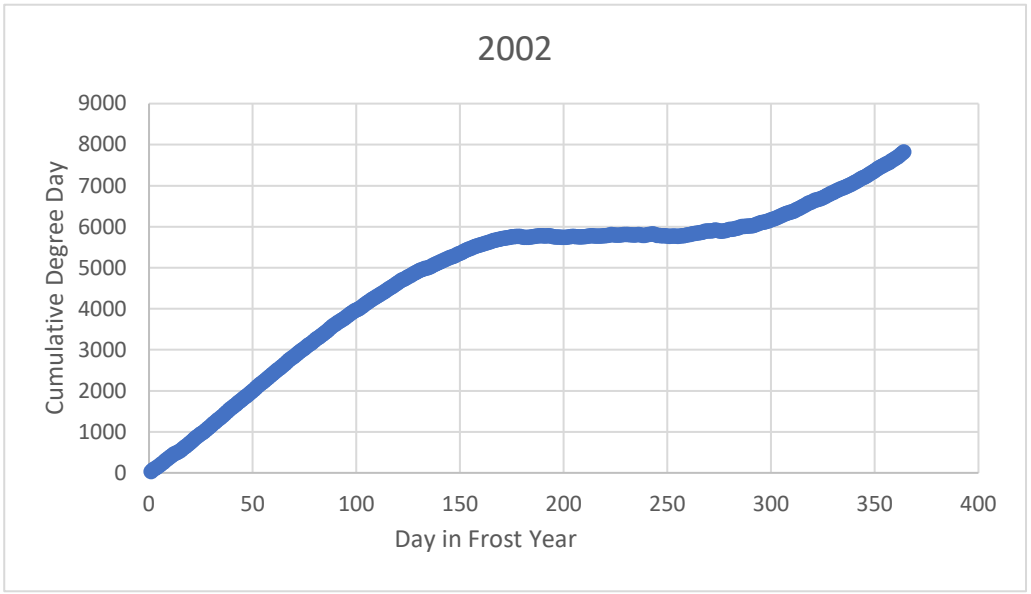

1997
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

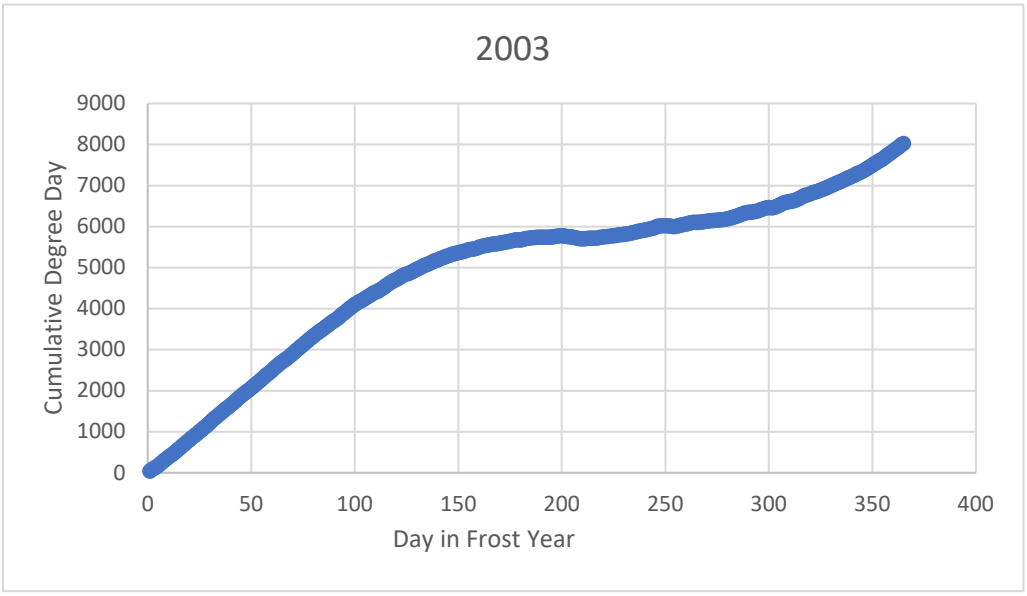

1998
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
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150
200
250
300
350
400
Day in Frost Year

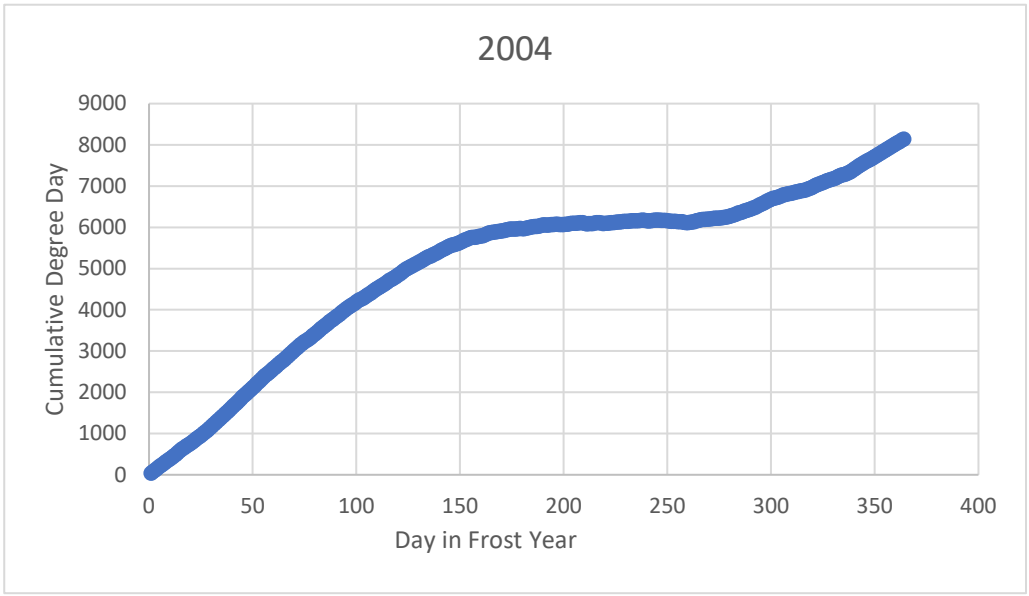

1999
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
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100
150
200
250
300
350
400
Day in Frost Year

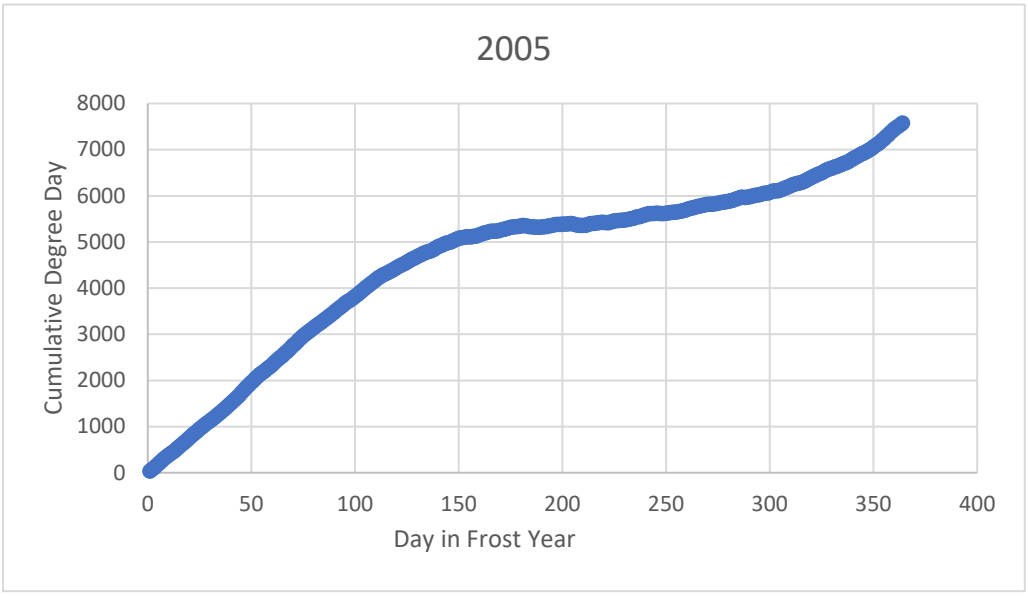

2000
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

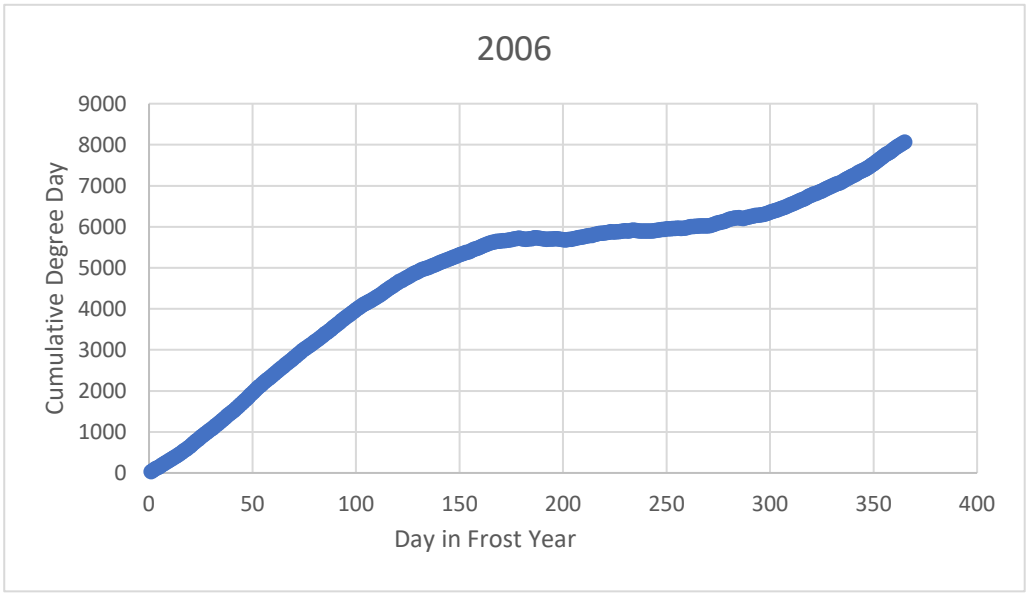

2001
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

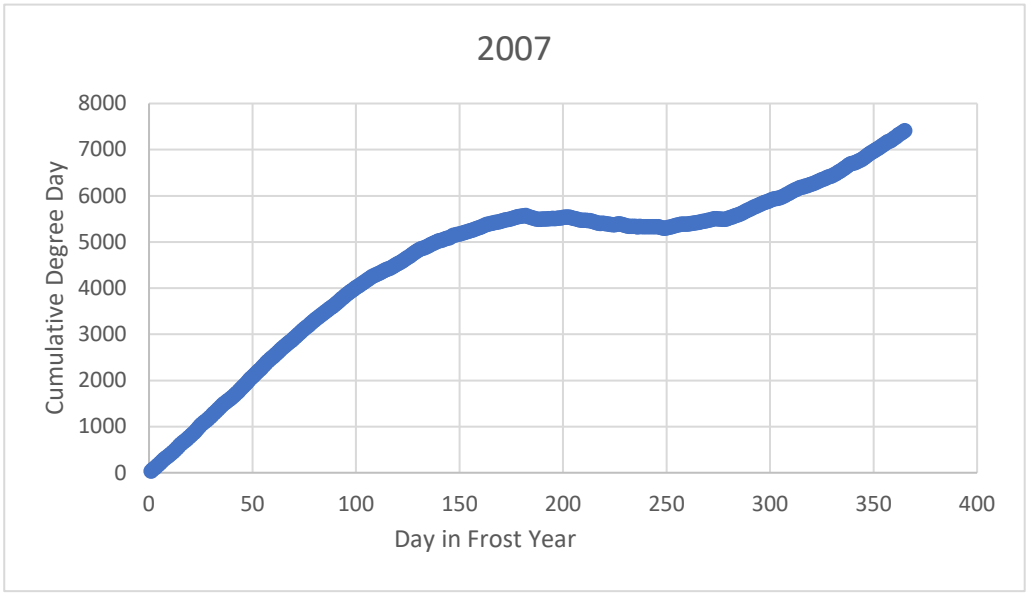

2002
Cumulative Degree Day
9000
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7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

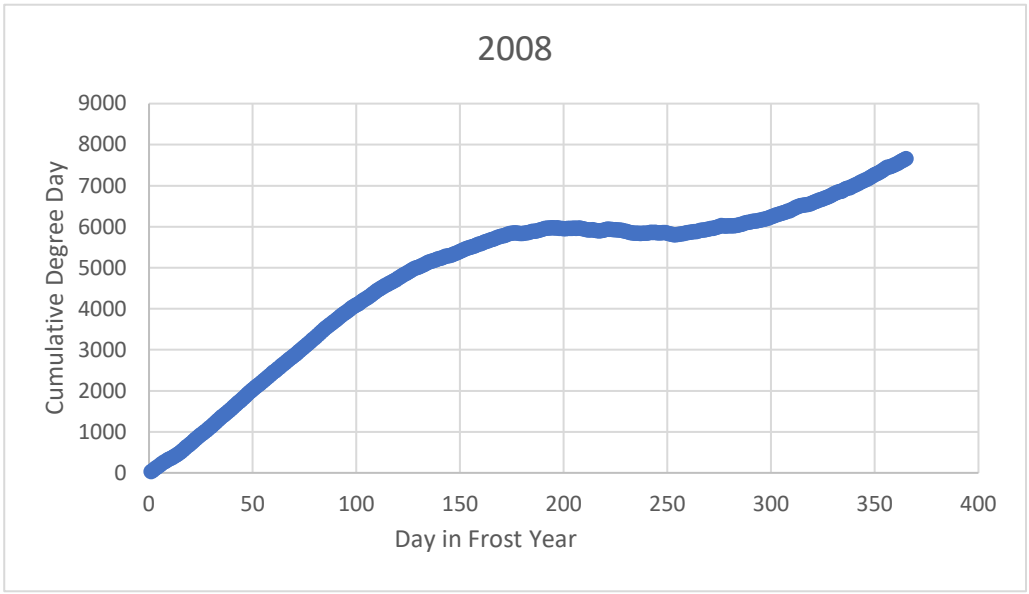

2003
Cumulative Degree Day
9000
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7000
6000
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4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

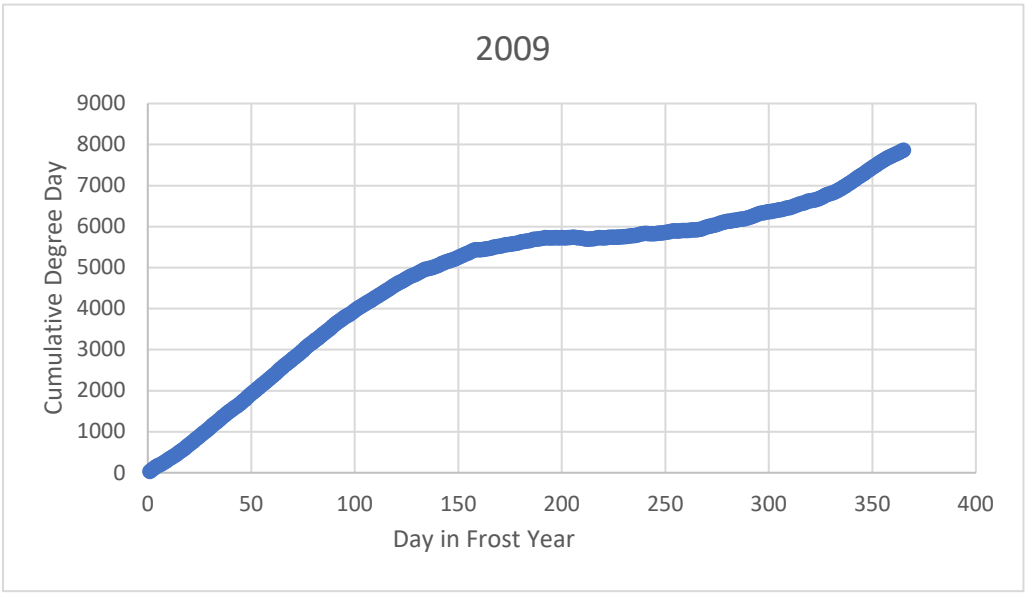

2004
Cumulative Degree Day
9000
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7000
6000
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4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

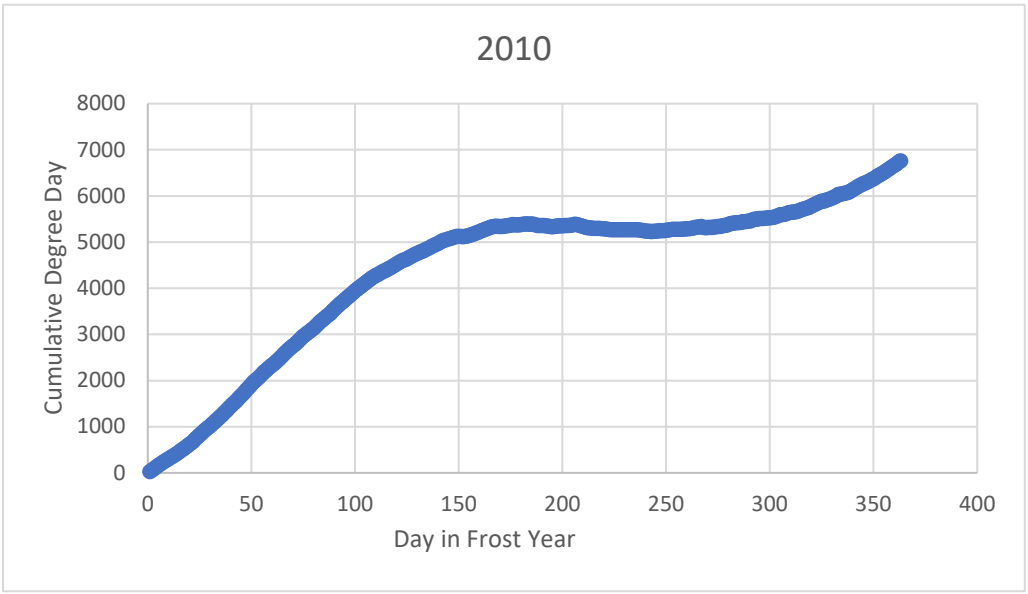

2005
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

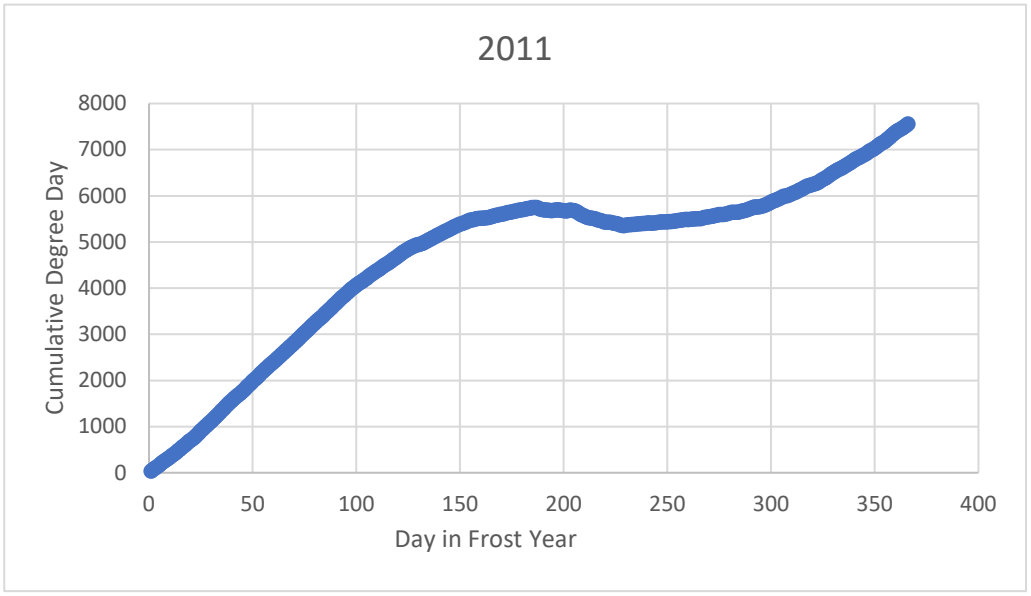

2006
Cumulative Degree Day
9000
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7000
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4000
3000
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0
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150
200
250
300
350
400
Day in Frost Year

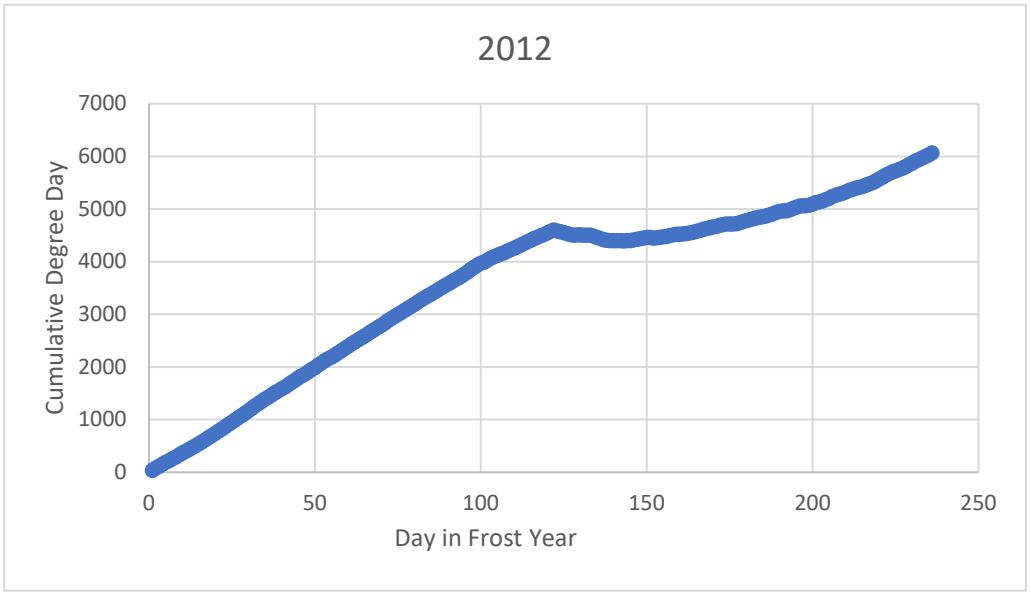

2007
Cumulative Degree Day
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7000
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4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

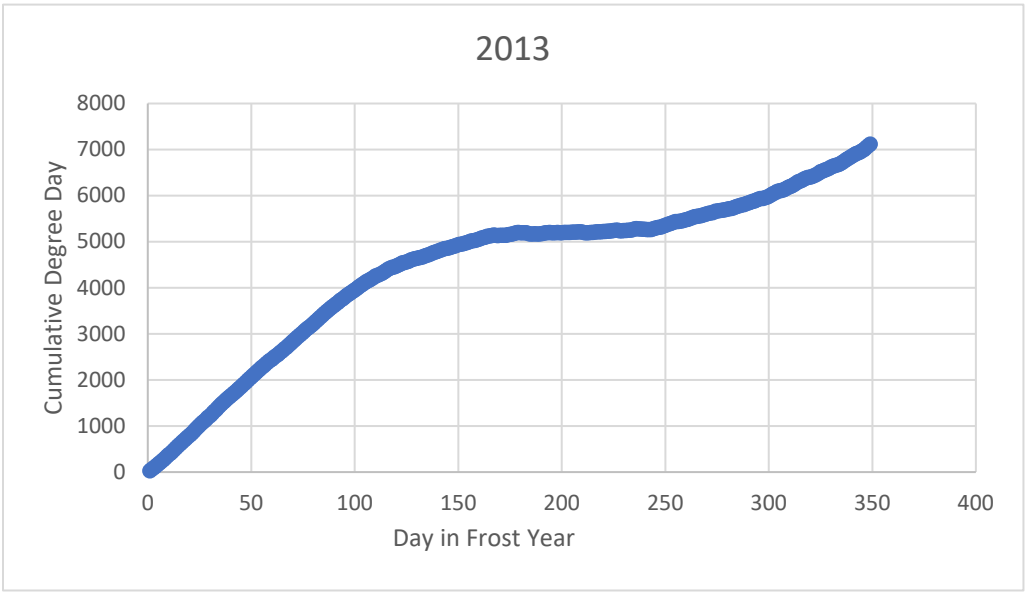

2008
Cumulative Degree Day
9000
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7000
6000
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4000
3000
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1000
0
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50
100
150
200
250
300
350
400
Day in Frost Year

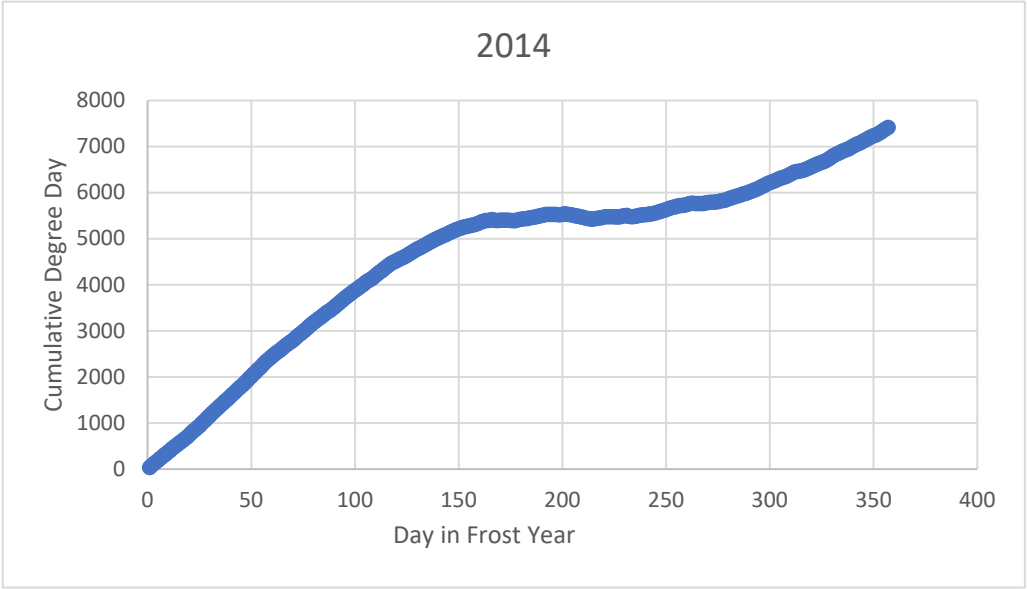

2009
Cumulative Degree Day
9000
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7000
6000
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4000
3000
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0
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50
100
150
200
250
300
350
400
Day in Frost Year

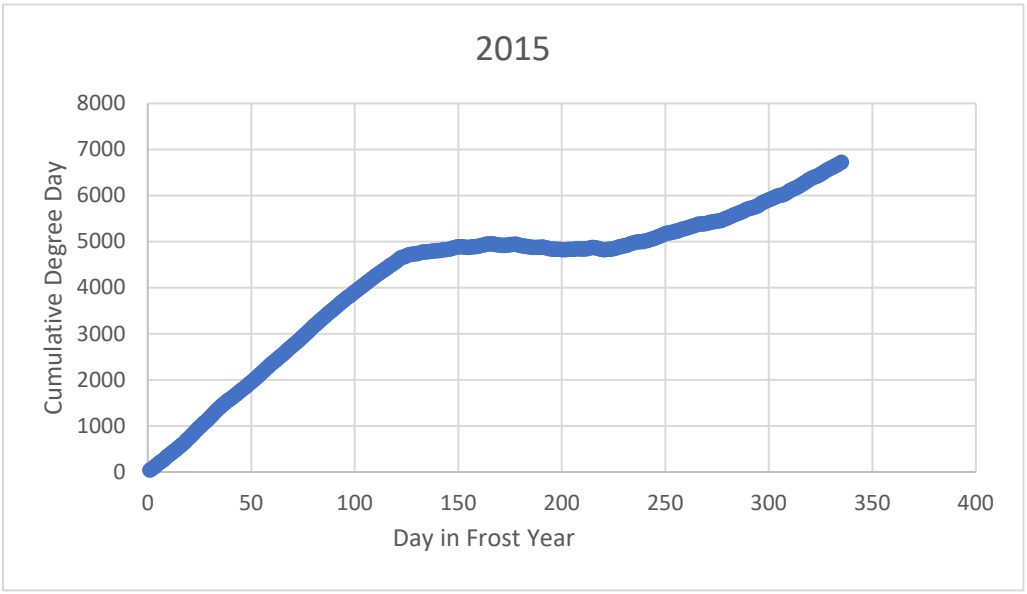

2010
Cumulative Degree Day
8000
7000
6000
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4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

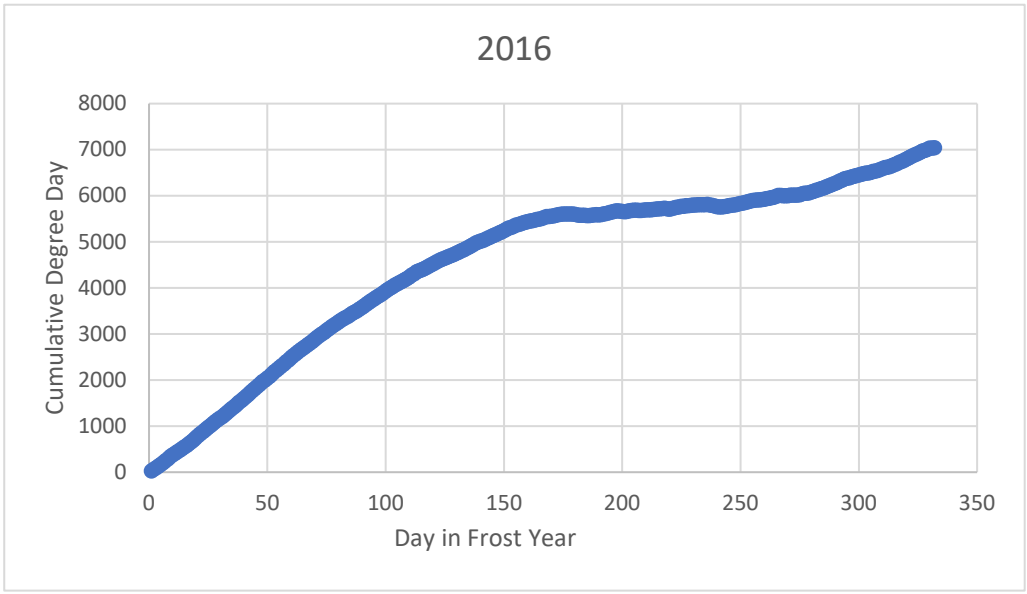

2011
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

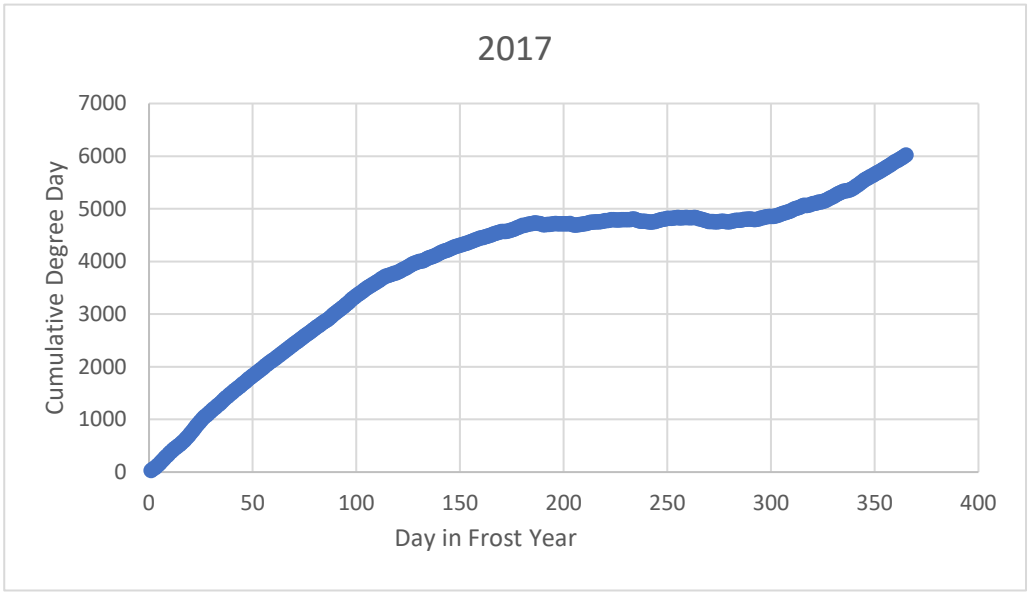

2012
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
Day in Frost Year

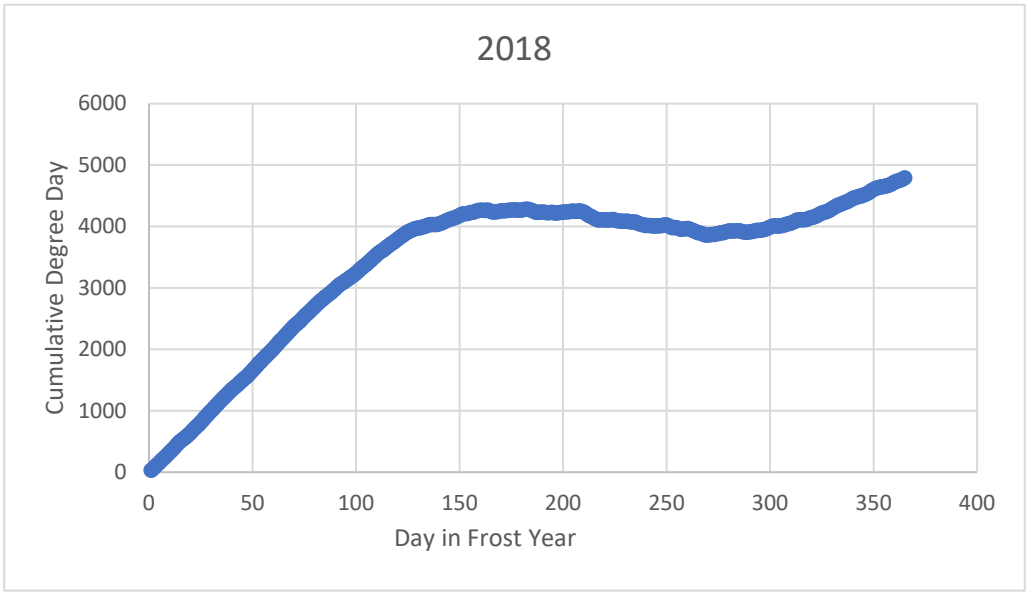

2013
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

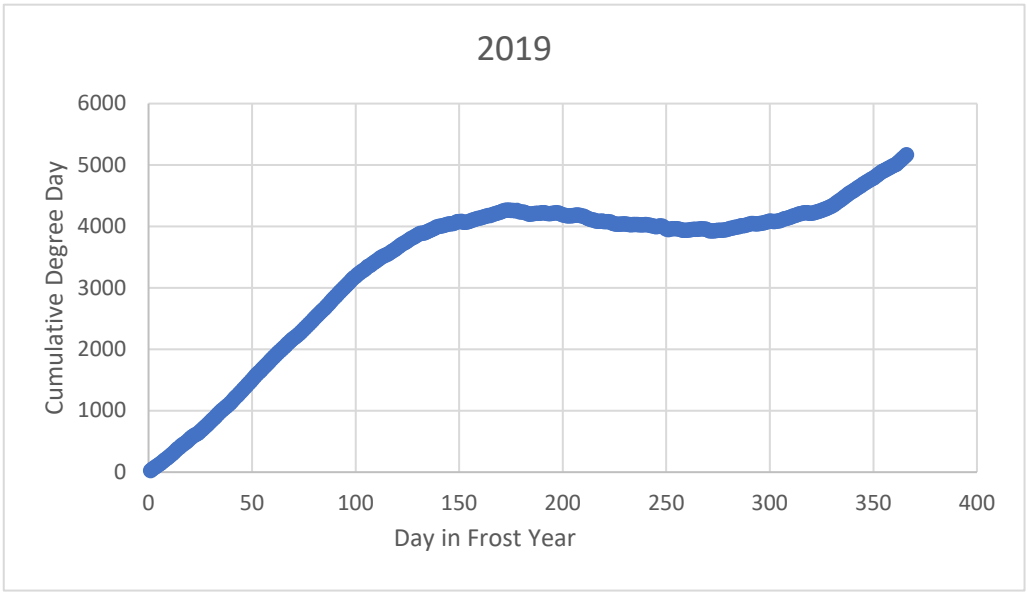

2014
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

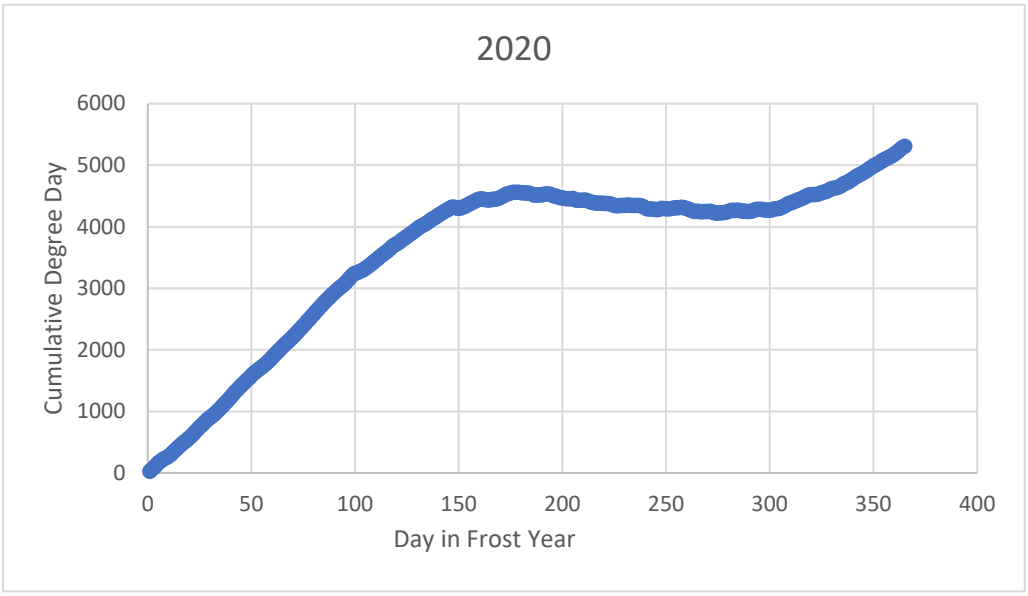

2015
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

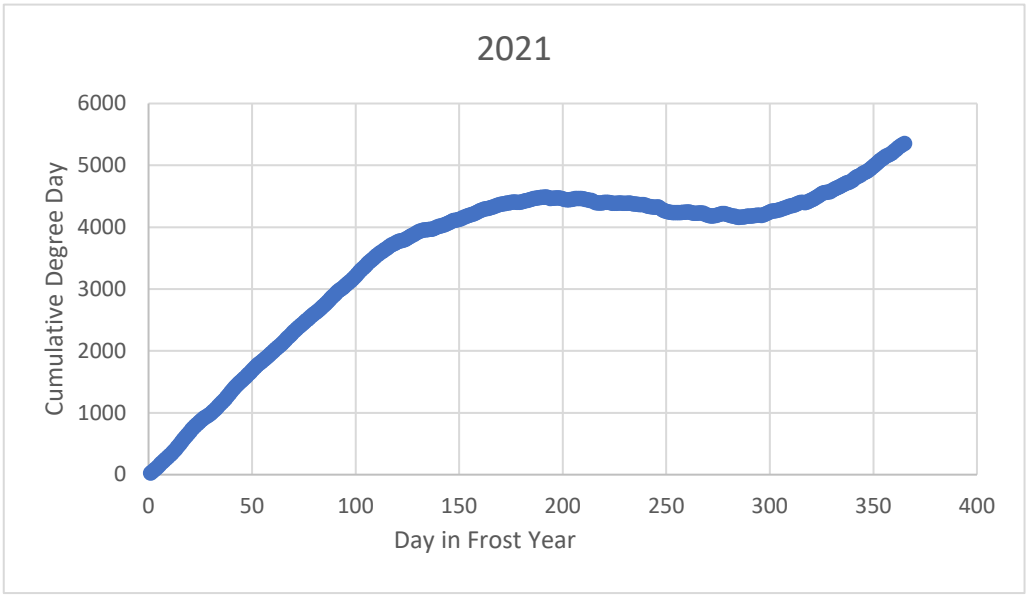

2016
Cumulative Degree Day
8000
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
Day in Frost Year

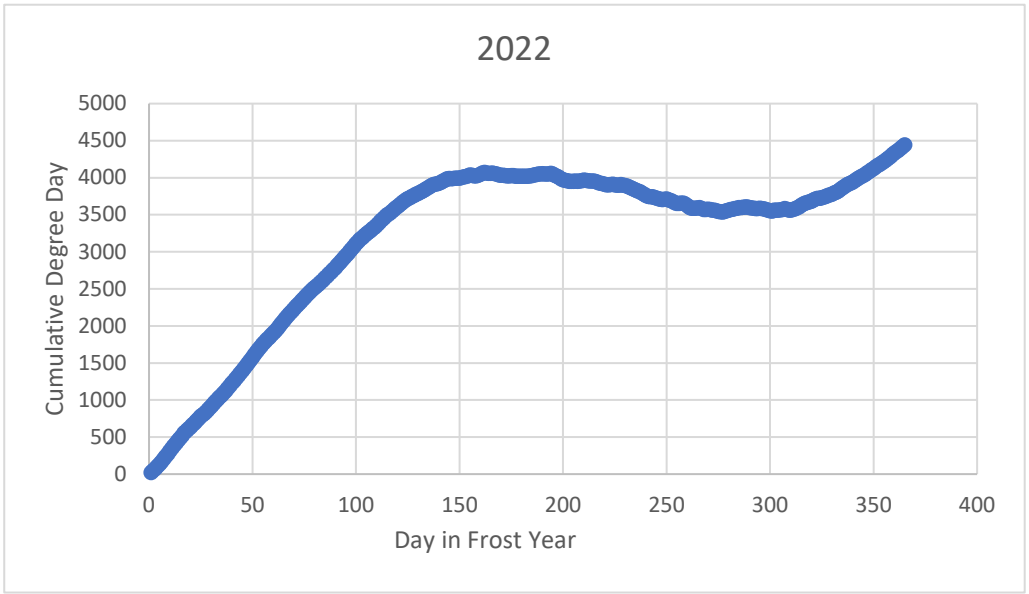

2017
Cumulative Degree Day
7000
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

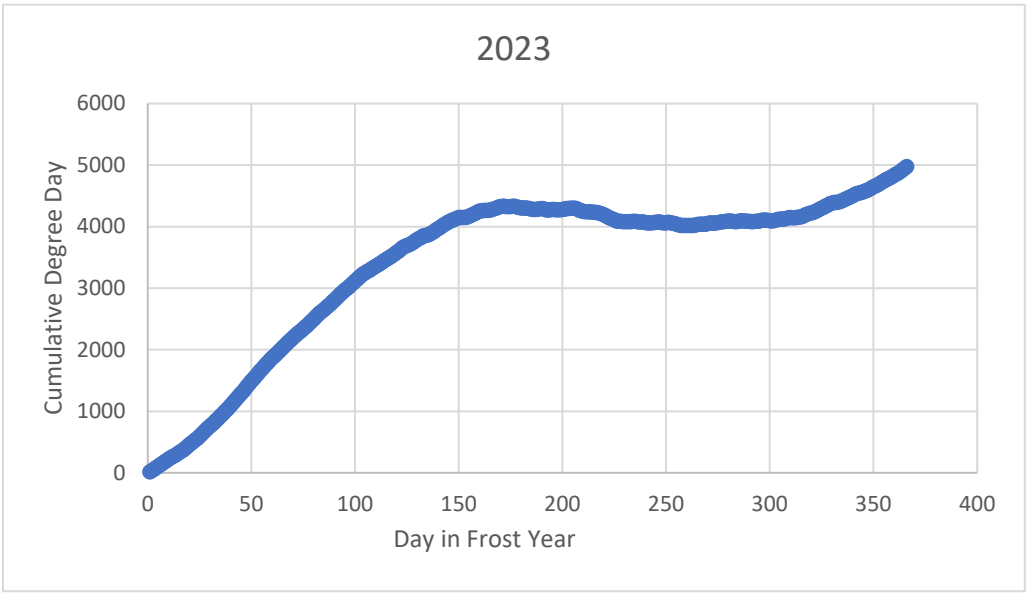

2018
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

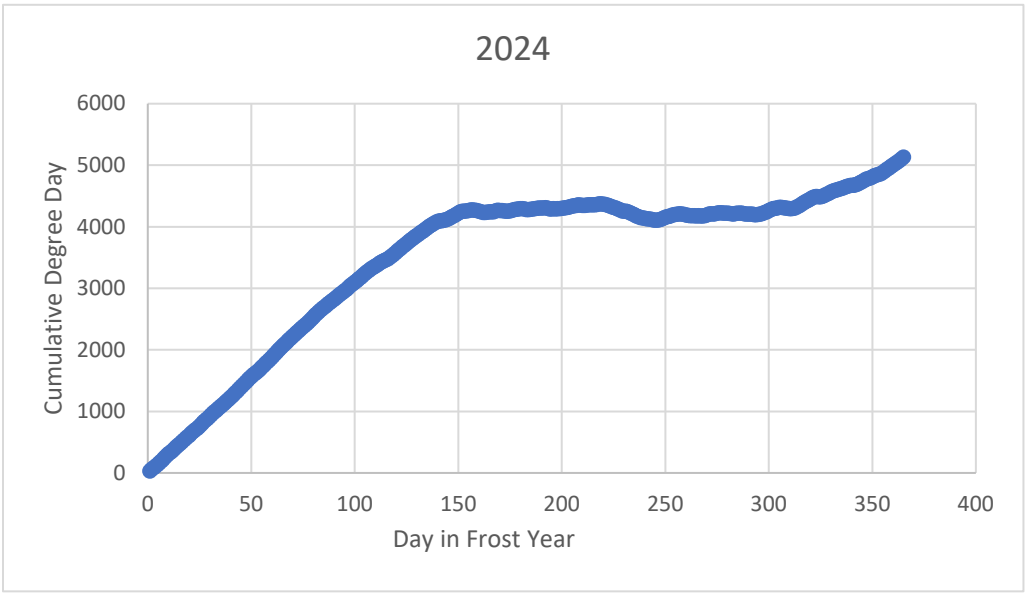

2019
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year

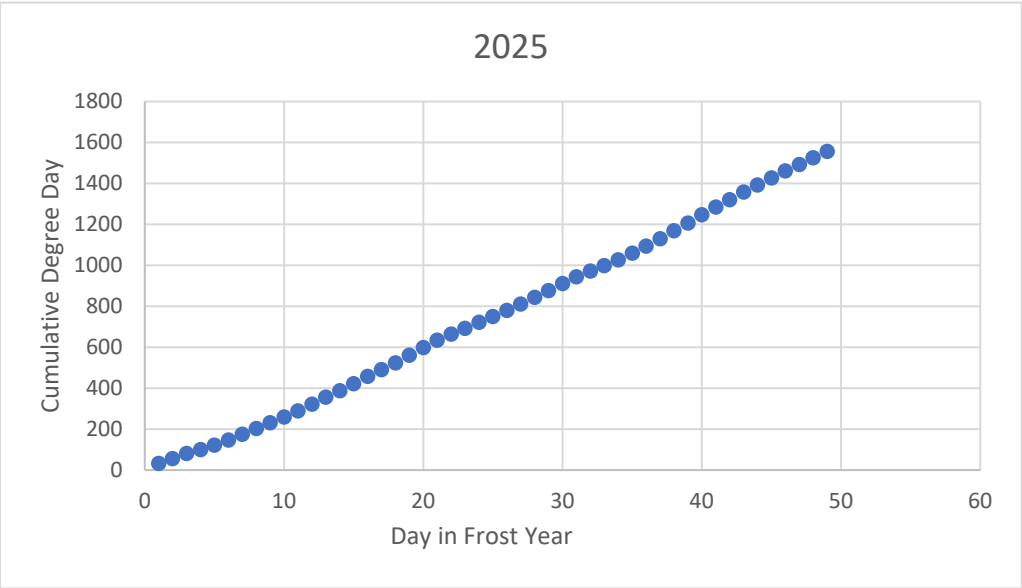

2020
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year


2021
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year


2022
Cumulative Degree Day
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
250
300
350
400
Day in Frost Year


2023
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year


2024
Cumulative Degree Day
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
350
400
Day in Frost Year


2025
Cumulative Degree Day
1800
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
50
60
Day in Frost Year

# ATTACHMENT D2.2
# FROST INDEX DETERMINATION

| Results of Graphical analysis of Freeze Cumulative Degree Day Plots | | | | | | |
|---|---|---|---|---|---|---|
| | Beginning of Freeze | | End of Freeze | | | |
| Year | Days | Deg-Day | Days | Deg-Day | **Deg-Day** | **Days** |
| 1975 | 164 | 4682 | 243 | 4368 | 314 | 79 |
| 1976 | 179 | 4723 | 289 | 3937 | 786 | 110 |
| 1977 | 204 | 5209 | 270 | 5037 | 172 | 66 |
| 1978 | 186 | 5066 | 276 | 4342 | 724 | 90 |
| 1979 | 173 | 4889 | 265 | 4679 | 210 | 92 |
| 1980 | 170 | 5051 | 187 | 5023 | 28 | 17 |
| 1981 | 198 | 4996 | 268 | 4740 | 256 | 70 |
| 1982 | 186 | 4551 | 265 | 4165 | 386 | 79 |
| 1983 | 177 | 4737 | 279 | 4425 | 312 | 102 |
| 1984 | 182 | 4645 | 273 | 4216 | 429 | 91 |
| 1985 | 170 | 4739 | 228 | 4651 | 88 | 58 |
| 1986 | 203 | 4869 | 268 | 4773 | 96 | 65 |
| 1987 | 198 | 4987 | 241 | 4784 | 203 | 43 |
| 1988 | 185 | 5344 | 252 | 5091 | 253 | 67 |
| 1989 | 181 | 5262 | 251 | 5025 | 237 | 70 |
| 1990 | 183 | 5398 | 249 | 5020 | 378 | 66 |
| 1991 | 185 | 5185 | 238 | 5042 | 143 | 53 |
| 1992 | 177 | 5081 | 217 | 4828 | 253 | 40 |
| 1993 | 178 | 5071 | 215 | 4825 | 246 | 37 |
| 1994 | 200 | 5116 | 253 | 5070 | 46 | 53 |
| 1995 | 174 | 5459 | 225 | 5450 | 9 | 51 |
| 1996 | 201 | 5613 | 219 | 5576 | 37 | 18 |
| 1997 | 219 | 5524 | 238 | 5372 | 152 | 19 |
| 1998 | 190 | 5401 | 218 | 5293 | 108 | 28 |
| 1999 | 185 | 5495 | 203 | 5486 | 9 | 18 |
| 2000 | 187 | 5278 | 223 | 5114 | 164 | 36 |
| 2001 | 205 | 5469 | 249 | 5282 | 187 | 44 |
| 2002 | 185 | 5756 | 201 | 5741 | 15 | 16 |
| 2003 | 201 | 5772 | 215 | 5720 | 52 | 14 |
| 2004 | 246 | 6177 | 263 | 6139 | 38 | 17 |
| 2005 | 242 | 5316 | 262 | 5230 | 86 | 20 |
| 2006 | 186 | 5733 | 204 | 5696 | 37 | 18 |
| 2007 | 185 | 5527 | 252 | 5325 | 202 | 67 |
| 2008 | 203 | 5959 | 253 | 5799 | 160 | 50 |
| 2009 | 203 | 5729 | 214 | 5698 | 31 | 11 |
| 2010 | 186 | 5387 | 246 | 5241 | 146 | 60 |
| 2011 | 187 | 5744 | 231 | 5369 | 375 | 44 |
| 2012 | 124 | 4567 | 144 | 4398 | 169 | 20 |
| 2013 | 186 | 5168 | 204 | 5108 | 60 | 18 |
| 2014 | 202 | 5532 | 215 | 5429 | 103 | 13 |
| 2015 | 181 | 4910 | 223 | 4836 | 74 | 42 |
| 2016 | 180 | 5600 | 191 | 5592 | 8 | 11 |
| 2017 | 263 | 4836 | 279 | 4751 | 85 | 16 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2018 | 184 | 4273 | 273 | 3872 | 401 | 89 |
| 2019 | 178 | 4258 | 273 | 3928 | 330 | 95 |
| 2020 | 182 | 4549 | 279 | 4238 | 311 | 97 |
| 2021 | 196 | 4470 | 286 | 4163 | 307 | 90 |
| 2022 | 166 | 4062 | 277 | 3538 | 524 | 111 |
| 2023 | 175 | 4329 | 262 | 4017 | 312 | 87 |
| 2024 | 222 | 4342 | 246 | 4106 | 236 | 24 |

| These were calculate in accordance with step 1 of the Smith and Rager procedure | | | | | | |
|---|---|---|---|---|---|---|
| Freeze index | | | | | | |
| | | | | Avg. Temp (F) | F | |
| Year | Avg. Temp | (n) | % values | w/ 95% data | Degree-Day (F-day) | Duration (Days) |
| 1975 | 47.43 | 366 | 100% | 47.43 | 314 | 79 |
| 1976 | 45.88 | 365 | 100% | 45.88 | 786 | 110 |
| 1977 | 49.92 | 365 | 100% | 49.92 | 172 | 66 |
| 1978 | 47.41 | 365 | 100% | 47.41 | 724 | 90 |
| 1979 | 48.02 | 366 | 100% | 48.02 | 210 | 92 |
| 1980 | 50.78 | 365 | 100% | 50.78 | 28 | 17 |
| 1981 | 55.05 | 363 | 99% | 55.05 | 256 | 70 |
| 1982 | 39.16 | 365 | 100% | 39.16 | 386 | 79 |
| 1983 | 47.91 | 366 | 100% | 47.91 | 312 | 102 |
| 1984 | 47.87 | 365 | 100% | 47.87 | 429 | 91 |
| 1985 | 49.79 | 365 | 100% | 49.79 | 88 | 58 |
| 1986 | 48.72 | 365 | 100% | 48.72 | 96 | 65 |
| 1987 | 49.74 | 366 | 100% | 49.74 | 203 | 43 |
| 1988 | 51.84 | 365 | 100% | 51.84 | 253 | 67 |
| 1989 | 50.77 | 365 | 100% | 50.77 | 237 | 70 |
| 1990 | 50.36 | 365 | 100% | 50.36 | 378 | 66 |
| 1991 | 51.27 | 366 | 100% | 51.27 | 143 | 53 |
| 1992 | 50.73 | 365 | 100% | 50.73 | 253 | 40 |
| 1993 | 50.68 | 364 | 100% | 50.68 | 246 | 37 |
| 1994 | 53.03 | 365 | 100% | 53.03 | 46 | 53 |
| 1995 | 53.47 | 366 | 100% | 53.47 | 9 | 51 |
| 1996 | 52.15 | 365 | 100% | 52.15 | 37 | 18 |
| 1997 | 51.71 | 359 | 98% | 51.71 | 152 | 19 |
| 1998 | 52.82 | 364 | 100% | 52.82 | 108 | 28 |
| 1999 | 52.20 | 364 | 100% | 52.20 | 9 | 18 |
| 2000 | 52.24 | 364 | 100% | 52.24 | 164 | 36 |
| 2001 | 53.50 | 364 | 100% | 53.50 | 187 | 44 |
| 2002 | 54.00 | 365 | 100% | 54.00 | 15 | 16 |
| 2003 | 54.39 | 365 | 100% | 54.39 | 52 | 14 |
| 2004 | 52.82 | 364 | 100% | 52.82 | 38 | 17 |
| 2005 | 54.10 | 365 | 100% | 54.10 | 86 | 20 |
| 2006 | 52.30 | 365 | 100% | 52.30 | 37 | 18 |
| 2007 | 53.02 | 366 | 100% | 53.02 | 202 | 67 |
| 2008 | 53.54 | 365 | 100% | 53.54 | 160 | 50 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2009 | 50.68 | 365 | 100% | 50.68 | 31 | 11 |
| 2010 | 53.50 | 363 | 99% | 53.50 | 146 | 60 |
| 2011 | 52.64 | 366 | 100% | 52.64 | 375 | 44 |
| 2012 | 57.71 | 236 | 65% | 57.71 | 169 | 20 |
| 2013 | 52.40 | 349 | 96% | 52.40 | 60 | 18 |
| 2014 | 52.79 | 357 | 98% | 52.79 | 103 | 13 |
| 2015 | 52.07 | 335 | 92% | 52.07 | 74 | 42 |
| 2016 | 53.21 | 332 | 91% | 53.21 | 8 | 11 |
| 2017 | 48.50 | 365 | 100% | 48.50 | 85 | 16 |
| 2018 | 45.13 | 365 | 100% | 45.13 | 401 | 89 |
| 2019 | 46.12 | 366 | 100% | 46.12 | 330 | 95 |
| 2020 | 46.55 | 365 | 100% | 46.55 | 311 | 97 |
| 2021 | 46.66 | 365 | 100% | 46.66 | 307 | 90 |
| 2022 | 44.17 | 365 | 100% | 44.17 | 524 | 111 |
| 2023 | 45.59 | 366 | 100% | 45.59 | 312 | 87 |
| 2024 | 46.07 | 365 | 100% | 46.07 | 236 | 24 |

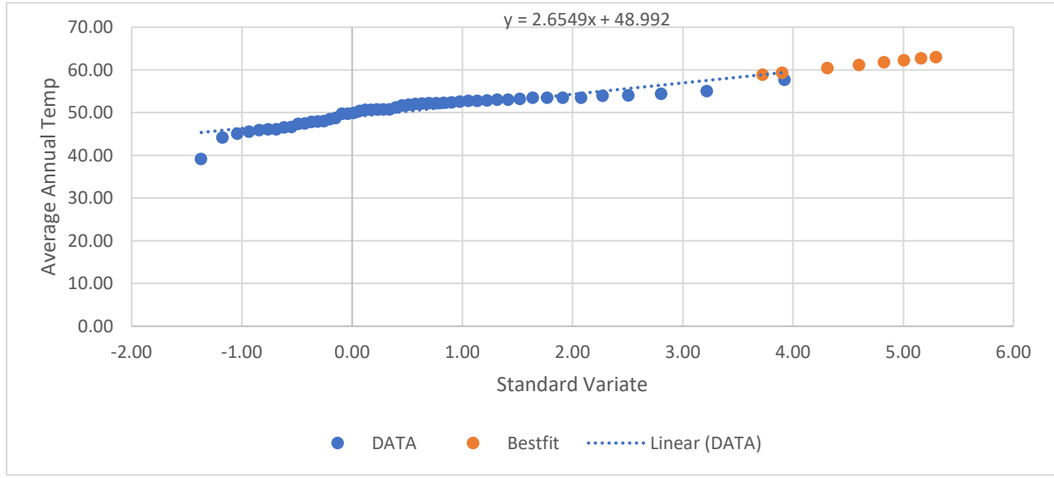
# ATTACHMENT D3
# DETERMINATION OF PARAMETERS AT A 200-YEAR RECURRENCE INTERVAL

# ATTACHMENT D3.1
# MEAN ANNUAL TEMPERATURE AT 200-YEAR RECURRENCE INTERVAL

Project No. 111360
Project Name: Mt. Taylor Uranium Mine
Calculated By: JB

n= number of observations
n= 50

| Mean Annual Temperature Distribution | | | | | |
|---|---|---|---|---|---|
| Year | Average Temperature | Rank | Recurrence interval | Probability | Standard Variate |
| 2012 | 57.71 | 1 | 51.0 | 0.02 | 3.92 |
| 1981 | 55.05 | 2 | 25.5 | 0.04 | 3.22 |
| 2003 | 54.39 | 3 | 17.0 | 0.06 | 2.80 |
| 2005 | 54.10 | 4 | 12.8 | 0.09 | 2.50 |
| 2002 | 54.00 | 5 | 10.2 | 0.11 | 2.27 |
| 2008 | 53.54 | 6 | 8.5 | 0.13 | 2.08 |
| 2010 | 53.50 | 7 | 7.3 | 0.16 | 1.91 |
| 2001 | 53.50 | 8 | 6.4 | 0.19 | 1.77 |
| 1995 | 53.47 | 9 | 5.7 | 0.21 | 1.64 |
| 2016 | 53.21 | 10 | 5.1 | 0.24 | 1.52 |
| 1994 | 53.03 | 11 | 4.6 | 0.28 | 1.41 |
| 2007 | 53.02 | 12 | 4.3 | 0.31 | 1.32 |
| 1998 | 52.82 | 13 | 3.9 | 0.34 | 1.22 |
| 2004 | 52.82 | 14 | 3.6 | 0.38 | 1.14 |
| 2014 | 52.79 | 15 | 3.4 | 0.42 | 1.05 |
| 2011 | 52.64 | 16 | 3.2 | 0.46 | 0.98 |
| 2013 | 52.40 | 17 | 3.0 | 0.50 | 0.90 |
| 2006 | 52.30 | 18 | 2.8 | 0.55 | 0.83 |
| 2000 | 52.24 | 19 | 2.7 | 0.59 | 0.76 |
| 1999 | 52.20 | 20 | 2.6 | 0.65 | 0.70 |
| 1996 | 52.15 | 21 | 2.4 | 0.70 | 0.63 |
| 2015 | 52.07 | 22 | 2.3 | 0.76 | 0.57 |
| 1988 | 51.84 | 23 | 2.2 | 0.82 | 0.51 |
| 1997 | 51.71 | 24 | 2.1 | 0.89 | 0.45 |
| 1991 | 51.27 | 25 | 2.0 | 0.96 | 0.39 |
| 1980 | 50.78 | 26 | 2.0 | 1.04 | 0.34 |
| 1989 | 50.77 | 27 | 1.9 | 1.13 | 0.28 |
| 1992 | 50.73 | 28 | 1.8 | 1.22 | 0.23 |
| 2009 | 50.68 | 29 | 1.8 | 1.32 | 0.17 |
| 1993 | 50.68 | 30 | 1.7 | 1.43 | 0.12 |
| 1990 | 50.36 | 31 | 1.6 | 1.55 | 0.07 |
| 1977 | 49.92 | 32 | 1.6 | 1.68 | 0.01 |
| 1985 | 49.79 | 33 | 1.5 | 1.83 | -0.04 |
| 1987 | 49.74 | 34 | 1.5 | 2.00 | -0.09 |
| 1986 | 48.72 | 35 | 1.5 | 2.19 | -0.15 |
| 2017 | 48.50 | 36 | 1.4 | 2.40 | -0.20 |
| 1979 | 48.02 | 37 | 1.4 | 2.64 | -0.26 |
| 1983 | 47.91 | 38 | 1.3 | 2.92 | -0.31 |
| 1984 | 47.87 | 39 | 1.3 | 3.25 | -0.37 |
| 1975 | 47.43 | 40 | 1.3 | 3.64 | -0.43 |
| 1978 | 47.41 | 41 | 1.2 | 4.10 | -0.49 |
| 2021 | 46.66 | 42 | 1.2 | 4.67 | -0.55 |



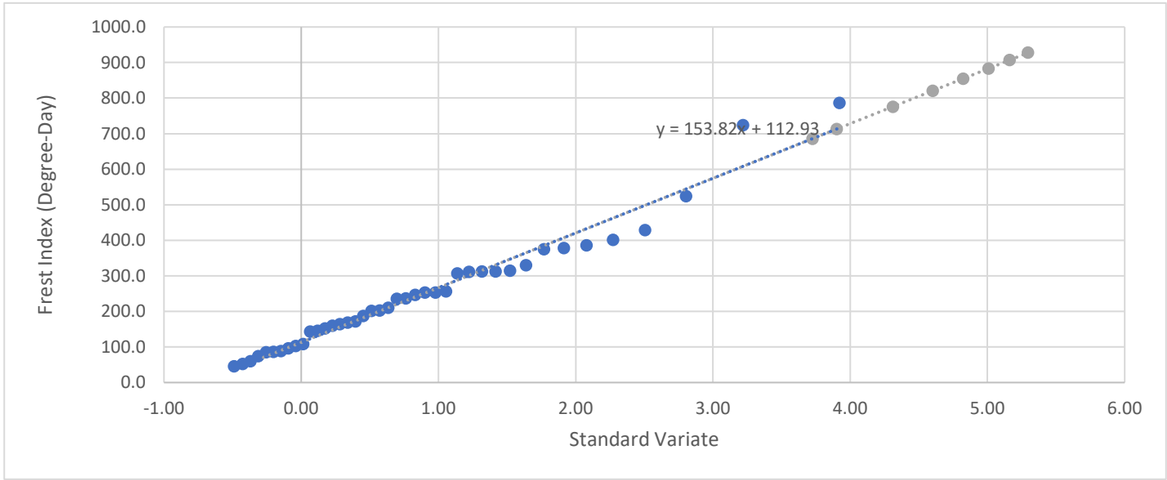

| Best Fit | | | |
|---|---|---|---|
| Y | 2.6549 | x+ | 48.992 |
| Recurrence interval | Standard Variate | Average Temperature | |
| 42 | 3.73 | 58.9 | |
| 50 | 3.90 | 59.4 | |
| 75 | 4.31 | 60.4 | |
| 100 | 4.60 | 61.2 | |
| 125 | 4.82 | 61.8 | |
| 150 | 5.01 | 62.3 | |
| 175 | 5.16 | 62.7 | |
| 200 | 5.30 | 63.1 | |

# ATTACHMENT D3.2
# FROST INDEX AT 200-YEAR RECURRENCE INTERVAL

Project No. 111360
Project Name: Mt. Taylor Uranium Mine
Calculated By: JB

n= number of observations
n= 50

| Frost Index Distribution | | | | | |
|---|---|---|---|---|---|
| Year | Frost index | Rank | Recurrence interval | Probability | Standard Variate |
| 1976 | 786 | 1 | 51.00 | 0.02 | 3.92 |
| 1978 | 724 | 2 | 25.50 | 0.04 | 3.22 |
| 2022 | 524 | 3 | 17.00 | 0.06 | 2.80 |
| 1984 | 429 | 4 | 12.75 | 0.09 | 2.50 |
| 2018 | 401 | 5 | 10.20 | 0.11 | 2.27 |
| 1982 | 386 | 6 | 8.50 | 0.13 | 2.08 |
| 1990 | 378 | 7 | 7.29 | 0.16 | 1.91 |
| 2011 | 375 | 8 | 6.38 | 0.19 | 1.77 |
| 2019 | 330 | 9 | 5.67 | 0.21 | 1.64 |
| 1975 | 314 | 10 | 5.10 | 0.24 | 1.52 |
| 1983 | 312 | 11 | 4.64 | 0.28 | 1.41 |
| 2023 | 312 | 12 | 4.25 | 0.31 | 1.32 |
| 2020 | 311 | 13 | 3.92 | 0.34 | 1.22 |
| 2021 | 307 | 14 | 3.64 | 0.38 | 1.14 |
| 1981 | 256 | 15 | 3.40 | 0.42 | 1.05 |
| 1988 | 253 | 16 | 3.19 | 0.46 | 0.98 |
| 1992 | 253 | 17 | 3.00 | 0.50 | 0.90 |
| 1993 | 246 | 18 | 2.83 | 0.55 | 0.83 |
| 1989 | 237 | 19 | 2.68 | 0.59 | 0.76 |
| 2024 | 236 | 20 | 2.55 | 0.65 | 0.70 |
| 1979 | 210 | 21 | 2.43 | 0.70 | 0.63 |
| 1987 | 203 | 22 | 2.32 | 0.76 | 0.57 |
| 2007 | 202 | 23 | 2.22 | 0.82 | 0.51 |
| 2001 | 187 | 24 | 2.13 | 0.89 | 0.45 |
| 1977 | 172 | 25 | 2.04 | 0.96 | 0.39 |
| 2012 | 169 | 26 | 1.96 | 1.04 | 0.34 |
| 2000 | 164 | 27 | 1.89 | 1.13 | 0.28 |
| 2008 | 160 | 28 | 1.82 | 1.22 | 0.23 |
| 1997 | 152 | 29 | 1.76 | 1.32 | 0.17 |
| 2010 | 146 | 30 | 1.70 | 1.43 | 0.12 |
| 1991 | 143 | 31 | 1.65 | 1.55 | 0.07 |
| 1998 | 108 | 32 | 1.59 | 1.68 | 0.01 |
| 2014 | 103 | 33 | 1.55 | 1.83 | -0.04 |
| 1986 | 96 | 34 | 1.50 | 2.00 | -0.09 |
| 1985 | 88 | 35 | 1.46 | 2.19 | -0.15 |
| 2005 | 86 | 36 | 1.42 | 2.40 | -0.20 |
| 2017 | 85 | 37 | 1.38 | 2.64 | -0.26 |
| 2015 | 74 | 38 | 1.34 | 2.92 | -0.31 |
| 2013 | 60 | 39 | 1.31 | 3.25 | -0.37 |
| 2003 | 52 | 40 | 1.28 | 3.64 | -0.43 |
| 1994 | 46 | 41 | 1.24 | 4.10 | -0.49 |



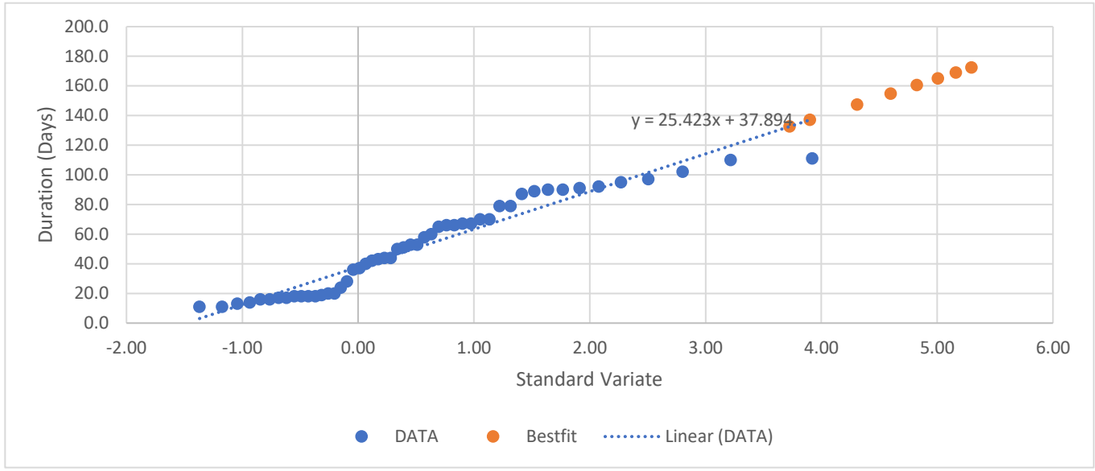

| Best Fit | | | |
|---|---|---|---|
| Y | 153.82 | x+ | 112.93 |
| Recurrence interval | Standard Variate | Frost Index | |
| 42 | 3.73 | 686.0 | |
| 50 | 3.90 | 713.1 | |
| 75 | 4.31 | 776.0 | |
| 100 | 4.60 | 820.5 | |
| 125 | 4.82 | 855.0 | |
| 150 | 5.01 | 883.2 | |
| 175 | 5.16 | 906.9 | |
| 200 | 5.30 | 927.5 | |

# ATTACHMENT D3.3
# DURATION OF FREEZE SEASON AT 200-YEAR RECURRENCE INTERVAL

Project No. 111360
Project Name: Mt. Taylor Uranium Mines
Calculated By: JB

n= number of observations
n= 50

| Duration of Freeze Distribution | | | | | |
|---|---|---|---|---|---|
| Year | Duration | Rank | Recurrence interval | Probability | Standard Variate |
| | | | | | |
| 2022 | 111.0 | 1 | 51.00 | 0.02 | 3.92 |
| 1976 | 110.0 | 2 | 25.50 | 0.04 | 3.22 |
| 1983 | 102.0 | 3 | 17.00 | 0.06 | 2.80 |
| 2020 | 97.0 | 4 | 12.75 | 0.09 | 2.50 |
| 2019 | 95.0 | 5 | 10.20 | 0.11 | 2.27 |
| 1979 | 92.0 | 6 | 8.50 | 0.13 | 2.08 |
| 1984 | 91.0 | 7 | 7.29 | 0.16 | 1.91 |
| 1978 | 90.0 | 8 | 6.38 | 0.19 | 1.77 |
| 2021 | 90.0 | 9 | 5.67 | 0.21 | 1.64 |
| 2018 | 89.0 | 10 | 5.10 | 0.24 | 1.52 |
| 2023 | 87.0 | 11 | 4.64 | 0.28 | 1.41 |
| 1975 | 79.0 | 12 | 4.25 | 0.31 | 1.32 |
| 1982 | 79.0 | 13 | 3.92 | 0.34 | 1.22 |
| 1981 | 70.0 | 14 | 3.64 | 0.38 | 1.14 |
| 1989 | 70.0 | 15 | 3.40 | 0.42 | 1.05 |
| 1988 | 67.0 | 16 | 3.19 | 0.46 | 0.98 |
| 2007 | 67.0 | 17 | 3.00 | 0.50 | 0.90 |
| 1977 | 66.0 | 18 | 2.83 | 0.55 | 0.83 |
| 1990 | 66.0 | 19 | 2.68 | 0.59 | 0.76 |
| 1986 | 65.0 | 20 | 2.55 | 0.65 | 0.70 |
| 2010 | 60.0 | 21 | 2.43 | 0.70 | 0.63 |
| 1985 | 58.0 | 22 | 2.32 | 0.76 | 0.57 |
| 1991 | 53.0 | 23 | 2.22 | 0.82 | 0.51 |
| 1994 | 53.0 | 24 | 2.13 | 0.89 | 0.45 |
| 1995 | 51.0 | 25 | 2.04 | 0.96 | 0.39 |
| 2008 | 50.0 | 26 | 1.96 | 1.04 | 0.34 |
| 2001 | 44.0 | 27 | 1.89 | 1.13 | 0.28 |
| 2011 | 44.0 | 28 | 1.82 | 1.22 | 0.23 |
| 1987 | 43.0 | 29 | 1.76 | 1.32 | 0.17 |
| 2015 | 42.0 | 30 | 1.70 | 1.43 | 0.12 |
| 1992 | 40.0 | 31 | 1.65 | 1.55 | 0.07 |
| 1993 | 37.0 | 32 | 1.59 | 1.68 | 0.01 |
| 2000 | 36.0 | 33 | 1.55 | 1.83 | -0.04 |
| 1998 | 28.0 | 34 | 1.50 | 2.00 | -0.09 |
| 2024 | 24.0 | 35 | 1.46 | 2.19 | -0.15 |
| 2005 | 20.0 | 36 | 1.42 | 2.40 | -0.20 |
| 2012 | 20.0 | 37 | 1.38 | 2.64 | -0.26 |
| 1997 | 19.0 | 38 | 1.34 | 2.92 | -0.31 |
| 1996 | 18.0 | 39 | 1.31 | 3.25 | -0.37 |
| 1999 | 18.0 | 40 | 1.28 | 3.64 | -0.43 |
| 2006 | 18.0 | 41 | 1.24 | 4.10 | -0.49 |
| 2013 | 18 | 42 | 1.21 | 4.67 | -0.55 |




| Best Fit | | | |
|---|---|---|---|
| Y | 25.423 | x+ | 37.894 |
| Recurrence interval | Standard Variate | durations | |
| 42 | 3.73 | 132.6 | |
| 50 | 3.90 | 137.1 | |
| 75 | 4.31 | 147.5 | |
| 100 | 4.60 | 154.8 | |
| 125 | 4.82 | 160.5 | |
| 150 | 5.01 | 165.2 | |
| 175 | 5.16 | 169.1 | |
| 200 | 5.30 | 172.5 | |

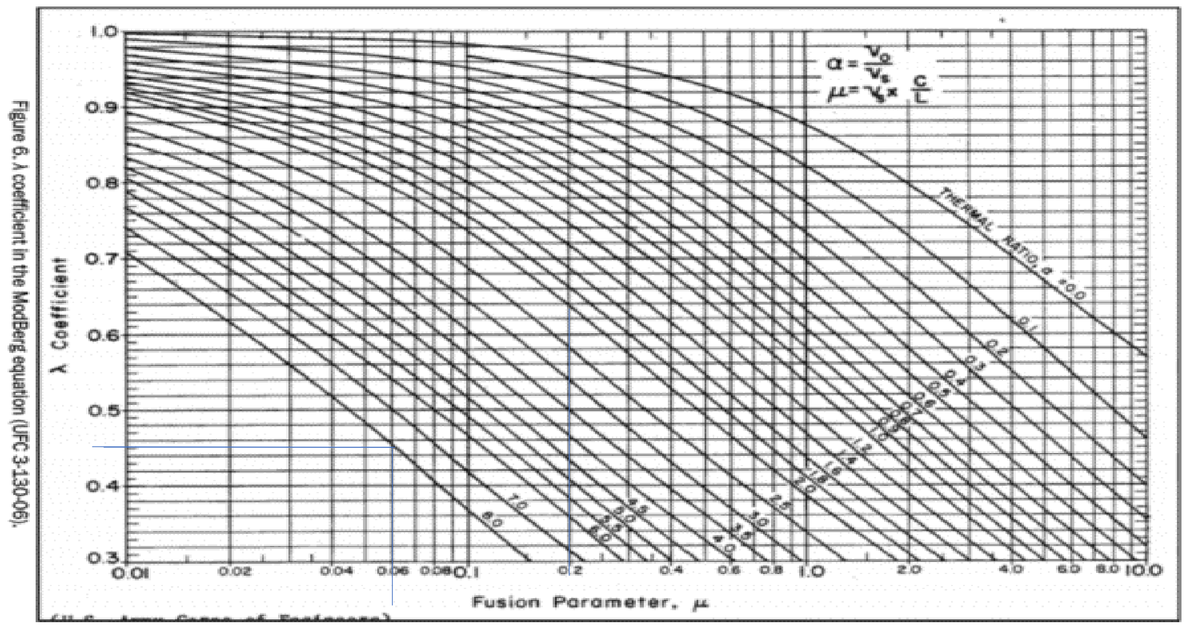
# ATTACHMENT D4
# FROST DEPTH DETERMINATION

| Layer | Optimum Dry Density (PCF) | Water content (%) | dry density | | Thermal Conductivity Kf (BTU/ Ft hr F) | Thermal Conductivity Ku (BTU/ Ft hr F) | Average Thermal Conductivity (1/2*( Ku+Kf)) | Volumetric Heat Capacity (Cavg) | Latent heat of fusion | Depth (Inches) |
|---|---|---|---|---|---|---|---|---|---|---|
| Mulch | 115 | 10 | 97.75 | 85% proctor | 0.83 | 0.87 | 0.85 | 23.9 | 1407.60 | 12 |
| Pediment | 110.7 | 11 | 94.10 | 85% proctor | 0.80 | 0.82 | 0.81 | 23.8 | 1490.46 | 33 |

| n-factor | 0.7 |
|---|---|

| | Avg temp | F | Duration | Vs | Vo | Thermal ratio | Fusion parameter | | | | | eqn 52 | eqn 53 | Lambda parameter | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | K | Ci | L | Thickness ft | Ci average | Li average | | Ri | Ri/2 | Sum Ri-1 | Ati |
| Mulch Layer | 63.1 | 927.5 | 173 | 3.8 | 31.1 | 8.25 | 0.06 | 0.85 | 23.9 | 1407.6 | 1.00 | 23.9 | 1407.6 | 0.45 | 1.18 | 0.59 | 0.00 | 243.16 |
| Pediment | 63.1 | 927.5 | 173 | 3.8 | 31.1 | 8.25 | 0.06 | 0.81 | 23.8 | 1490.5 | 2.75 | 23.8 | 1468.4 | 0.45 | 3.39 | 1.70 | 1.18 | 3460.37 |
| Mean | | 927.5 | | | | | | 0.8 | 23.9 | 1449.0 | 1.9 | 23.9 | 1438.0 | 0.45 | | | | |
| | 649.27 | | | | | | | | | Total FT | 3.75 | | | | | | | 3703.53 |
| | | | | | | | | | | total inches | 45 | | | | | | | |

**Frost Depth (feet)** **2.27**
**Frost Depth (inches)** **27.28**



# APPENDIX E
# Technical Memorandum – Radon Cover Design and Analysis

# *Draft Technical Memorandum*

| | | | |
|---|---|---|---|
| To: | Rio Grande Resources, Ltd. | From: | Jason Andrews, P.E.<br>Jay Blythe, E.I.T. |
| Company: | Rio Grande Resources, Ltd. | Date: | October 9, 2025 |
| EA No.: | 111360 | | |
| Re: | Mt. Taylor Uranium Mine – Radon Cover Design and Analyses | | |

## 1.0 INTRODUCTION

This technical memorandum presents the results of modeling of emanation of radon-226 from the top surface of the proposed cover over the expanded disposal cell. These results comprise radon attenuation modeling based on the proposed cover design, and cover materials.

The cover system design consists of a three-layer cover system over contaminated soils, with a total thickness of approximately 57 inches (4.75 feet) as shown on Figure E-1. The final cover system will consist of the following layers from top to bottom.

- 12 inches of rock mulch cover for erosion protection.
- 33 inches of onsite pediment soils for bio intrusion and frost protection.
- 12 inches of clay layer to minimize infiltration and emanation of radon gas

For the radon emanation modeling, the rock mulch layer was not included.

The radon emanation modeling shows that the planned cover system reduces the rate of radon emanation to values below the Nuclear Regulatory Commission (NRC) limit of 20 picocuries per square meter per second ($pCi/m^2$-sec) averaged over the entire expanded disposal cell.

## 2.0 DESCRIPTION OF MODEL AND INPUT VALUES

Radon emanation calculations for the cover system were made based on the RADON model (NRC, 1989), a one-dimensional model that calculates radon flux from decay of a radium-226 source. As part of the NRC Radon Barrier Workshop (June 25-26, 2018), the NRC indicates that the RADON modeling code (RAECOM) is available at the Wise Uranium Project website http://www.wise-uranium.org/ctc.html. The Wise Uranium Project Uranium Mill Tailings Cover Calculator was used to model the proposed cover system. The key input parameters to the model include the radium-226 activity concentration, the coefficient of diffusion of radon through the cover materials, and the density and moisture content values for the cover materials that affect the diffusion of radon. The input parameters and values used in the model are outlined below.

### 2.1 *Radium Activity Concentrations*

Radium-226 activity values used in the model were taken from Radiological Characterization Reports by AVM Environmental Services, In. (AVM) for the Windblown Area, Ore Pad Area and Mine Compound (AVM 2023), for the Treatment Ponds (AVM 2024), and the North Controlled Area (AVM 2025). The radium-226 activity values used in the model are summarized below below. Attachment E-1 includes pages extracted from the AVM reports used to calculate representative radium activities for the model.

**Windblown Area (WA):** The representative radium-226 activity value for contaminated soils within the WA north of the mine site was estimated from a static gamma radiation survey performed by AVM (2023) on May 17 and May 31, 2023. Attachment E-1.1 includes Table 2 from the AVM report illustrating the results of the survey, and Figure 1 from the AVM report illustrating the location of the WA. From a total of 12 survey locations using data for the "Bare 2x2 Nal Detector", a mean activity value of 9.8 pCi/g Ra-226 is estimated.

**Ore Pad Area (OPA):** The representative radium-226 activity value for contaminated soils within the OPA was estimated from a static gamma radiation survey performed by AVM (2023) on May 31, 2023. Attachment E-1.1 includes Table 2 from the AVM report illustrating the results of the survey, and Figure 1 from the AVM report illustrating the location of the OPA. From a total of 5 survey locations using data for the "Bare 2x2 Nal Detector", a mean activity value of 431.6 pCi/g Ra-226 is estimated.

**Mine Compound Area (MCA):** The representative radium-226 activity value for contaminated soils within the MCA was estimated from a static gamma radiation survey performed by AVM (2023) from May 18 through May 31, 2023. Attachment E-1.1 includes Table 2 from the AVM report illustrating the results of the survey, and Figure 1 from the AVM report illustrating the location of the MCA. From a total of 20 survey locations using data for the "Bare 2x2 Nal Detector", a mean activity value of 13.1 pCi/g Ra-226 is estimated.

**Pond Area (PA):** The representative radium-226 activity value for contaminated soils within the PA was estimated from a static gamma radiation survey performed by AVM (2024) from October 18, 2023. Attachment E-1.2 includes Table 1 from the AVM report illustrating the results of the survey, and Figure 1 from the AVM report illustrating the location of the PA. From a total of 40

survey locations using data for the "Bare 2x2 Nal Detector", a mean activity value of 4.8 pCi/g Ra-226 is estimated.

**North Controlled Area (NCA):** The representative radium-226 activity value for contaminated soils within the NCA was estimated from a static gamma radiation survey performed by AVM (2025) from September 19 through December 12, 2024. Attachment E-1.3 includes Table 2 from the AVM report illustrating the results of the survey, and Figure 1 from the AVM report illustrating the location of the NCA. From a total of 47 survey locations using data for the "Bare 2x2 Nal Detector", a mean activity value of 47.1 pCi/g Ra-226 is estimated.

Ra-226 activity concentration is a required model input. For the purposes of modeling radiation emanation, the arithmetic mean radium-226 concentration value from all four distinct source areas (WA, OPA, MCA, PA and NCA) of 101 pCi/g was used. For this to be a reasonable assumption in the assessment of radon flux from the cover, it is recommended that the materials from the OPA be placed at the base of the disposal cell as the OPA materials have the highest mean activity of radon (431.6 pCi/g).

## 2.2 *Radon Emanation Coefficient*

Radon emanation coefficient is a required model input. For all cover materials, a radon emanation coefficient of 0.35 was used. This is the conservative, default value used in the model.

## 2.3 *Density and Porosity*

Attachment E-2 includes laboratory testing data for the cover layer materials. While material density of the cover layers is not a direct model input, material placement and performance density affects the porosity and long-term moisture model input values. The general textures of the contaminated materials to be consolidated into the expanded disposal cell consist of some variable percentages of silt, clay and sand. As such, a density of 100 lb/cf (1.60 g/cc) was assumed for contaminated materials below the cover. For the 12-inch layer of radon barrier clay on top of the waste, a value of 99 lb/cf (1.59 g/cc) was used which is equivalent to 90 percent of the standard Proctor dry density of the clay sample from EA-BSB04 collected from Borrow Area A-B in January 2025. For the pediment frost protection soil layer above the radon barrier, a value of 94 lb/cf (1.51 g/cc) was used which is equivalent to 85 percent of the mean standard Proctor dry density of samples EA-BSB04 (sand), EA-BSC12 (sandy clay), and EA-BSC09 (silty clay) collected from Borrow Area A-B in January 2025. The same density of 94 lb/cf (1.51 g/cc) was used for the upper rock mulch layer as the soil matrix of the rock mulch layer is anticipated to be the same as, or similar to, the pediment soil layer.

Porosity is a required model input. Porosity values for the waste material, the pediment soil layer, and the rock mulch layer are not very sensitive to calculation of radon flux in the model, and the values can range +/- 20 percent individually with only a +/-10 percent change in radon flux. In contrast, radon flux calculated by the model is sensitive to porosity of the radon barrier. A similar range of +/- 20 percent change in radon barrier porosity can change the calculated radon flux value to zero (with a lower porosity value), or can double the calculated radon flux (with a higher porosity value) A typical porosity value for the mixed sand, silt and clay of 0.35 was assumed for

the waste materials. The porosity of the radon barrier clay layer was estimated from the compaction test report for sample EA-BSC09 (silty clay). From the compaction test report, a void ratio of 0.62 can be determined, and an associated porosity of 0.38 is calculated. For the pediment layer and upper rock mulch layer, a porosity of 0.35 is assumed.

### 2.4 *Long-Term Moisture Content*

Long-term moisture content of the cover layers is a required model input. The long-term moisture contents for the frost protection layer and rock mulch layer were assumed to be 6% based on the NRC guidance (1989). While the long-term moisture contents of both the waste materials and the radon barrier are sensitive to calculation of radon flux, the long term moisture content of the radon barrier is particularly sensitive to calculation of radon flux. The long-term, 15-bar, moisture content of the radon barrier clay layer was determined to be 15.1 percent from EA-BSC09 (silty clay) collected from Borrow Area A-B in January 2025 (Attachment E-2). This value represents a sample of the material remolded to 90 percent of the standard Proctor density. The long term, 15-bar, moisture content for the contaminated material below the radon barrier was also assumed to be 15.1 percent since the materials are below the depth of influence from evapotranspiration.

### 2.5 *Radon Diffusion Coefficient*

The radon diffusion coefficient was calculated within the model (based on an empirical relationship with degree of saturation). The values that were used are provided in the results provided in Attachment E2. The lower the diffusion coefficient value, the lower the resulting rate of radon emanation.

## 3.0 RESULTS

The input values and results from the modeling are summarized in Table E-1. The model output is provided in Attachment E-3.

The radon emanation model results presented in Table E-1 above show that the cover system reduces the rate of radon-222 emanation to 11 $pCi/m^2/sec$ at the top of the radon barrier which is in compliance with the NRC allowable emanation of less than 20 $pCi/m^2/sec$.

## REFERENCES

Nuclear Regulatory Commission (NRC). (1989). *Calculation of Radon Flux Attenuation by Earthen Uranium Mill Tailings Covers, Regulatory Guide 3.64*.

Nuclear Regulatory Commission (NRC). (2018). *Proceedings of the Radon Barriers Workshop*. Dated July 25-26. NRC Headquarters, Rockville, MD.

AVM Environmental Services, Inc. (AVM). (2023) *Surface and Subsurface Soil Radiologic Characterization, Windblown Area, Ore Pad Area and Mine Compound, Mount Taylor Mine Site, San Mateo, NM.* Prepared for Rio Grande Resource Corporation. August 14, 2023.

AVM Environmental Services, Inc. (AVM). (2024) *Treatment Pond Radiologic Characterization, Mount Taylor Mine Site, San Mateo, NM.* Prepared for Rio Grande Resource Corporation. May 22, 2024.

AVM Environmental Services, Inc. (AVM). (2025) *North Controlled Area Soil Radiologic Characterization, Mount Taylor Mine Site, San Mateo, NM.* Prepared for Rio Grande Resource Corporation. June 5, 2025.

## Enclosures

### LIST OF TABLES

Table E-1 Soil Inputs and Calculated Radon Flux

### LIST OF FIGURES

Figure E-1 Final Reclamation Cover System

### LIST OF ATTACHMENTS

Attachment E-1 Radium Activity Concentration References
Attachment E-1.1 AVM 2023 – Windblown Area, Ore Pad Area, Mine Compound
Attachment E-1.2 AVM 2024 – Treatment Pond
Attachment E-1.3 AVM 2025 – North Controlled Area
Attachment E-2 EA Laboratory Material Testing Results
Attachment E-3 Radon Model Output

**Table E-1 – Soil Inputs and Calculated Radon Flux**

| Layer No[1] | Layer Description[1] | Thickness[1] (cm) | Thickness[1] (in) | Porosity (%) | Dry Density (g/cm^3) | Initial Water Content (%) | Radium-226 Activity (pCi/gm) | Emanation Coefficient[2] | 15-Bar Moisture Content (%) | Radon Flux[3] pCi/m^2/s |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Rock Mulch[4] | 30.5 | 12 | 0.35[5] | 1.51[5] 94 (pcf) | 15.8[5] | 0 | 0.35 | 6[6] | 11.09 |
| 3 | Pediment Layer (Frost Protection and Biointrusion) | 83.8 | 33 | 0.35[5] | 1.51[5] 94 (pcf) | 15.8[5] | 0 | 0.35 | 6[6] | 11.61 |
| 2 | Clay Layer (Radon Barrier) | 30.5 | 12 | 0.38[7] | 1.59[7] 99 (pcf) | 16.1[7] | 0 | 0.35 | 15.1[7] | 19.49 |
| 1 | Contaminated Materials[8] | 500.0 | 197 | 0.35 | 1.51 100 (pcf) | 15.8 | 115 | 0.35 | 15.1 | 27.35 |

Notes:
1 - See Figure E1.
2 – Required model assumption for all materials.
3 – Calculated Ra-226 flux through layer.
4 – The soil matrix of the rock mulch layer is similar to, or the same as, the pediment layer and thus governs the properties of the rock mulch layer.
5 – Mean values from compaction test reports for samples EA-BSC09 (silty clay), EA-BSC12 (sandy clay), and EA-BSB04 (sand) from Borrow Areas A-B (Attachment E-2). Porosity values are assumed for mixed sand, silt, and clay.
6 - Long term moisture content NRC (1989).
7 – Input values for clay radon barrier from compaction test report for sample EA-BSC09 (Attachment E-2) assuming a density of 90% of maximum standard Proctor density. The long-term 15-bar moisture content from the soil water characteristic curve (SWCC) for sample EA-BSC09 (Attachment E-2)
8 – The contaminated materials below the cover are assumed to be 5 meters (16. 4 feet) thick. Soil properties of the waste materials are assumed to be characteristic of a mixed sand, silt and clay with the same/similar values for porosity, dry density, and initial water content as the rock mulch and pediment layers. The long-term 15-bar moisture content of the waste materials is assumed to be the same/similar value as the clay radon barrier as the waste materials are below the influence of evapotranspiration.

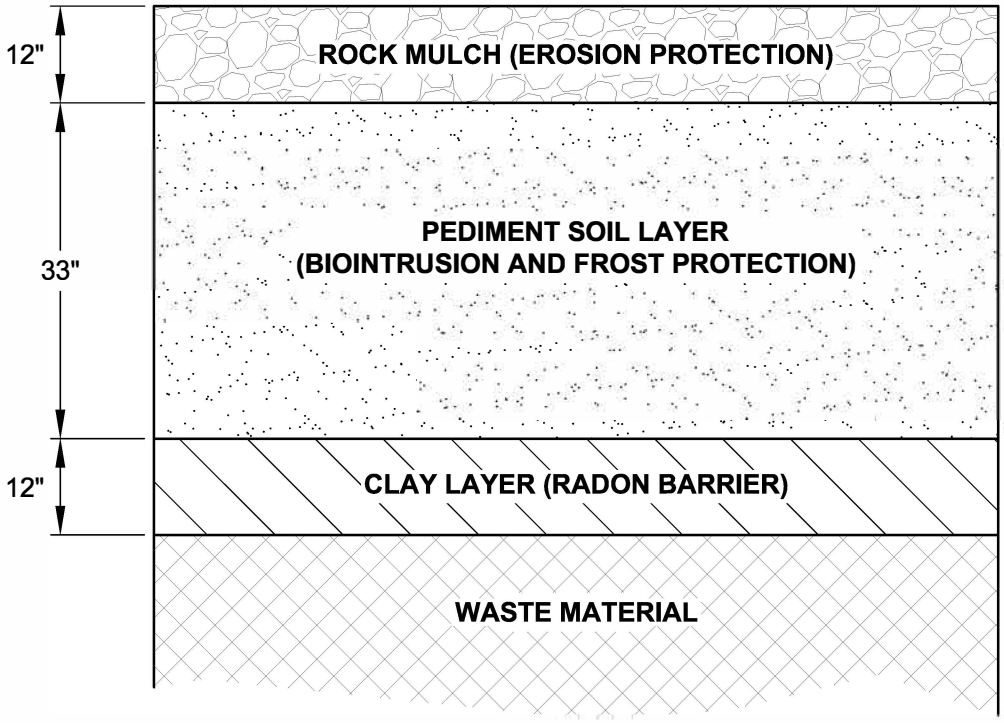
# TABLE

**Table E-1 – Soil Inputs and Calculated Radon Flux**

| Layer No[1] | Layer Description[1] | Thickness[1] (cm) | Thickness[1] (in) | Porosity (%) | Dry Density (g/cm^3) | Initial Water Content (%) | Radium-226 Activity (pCi/gm) | Emanation Coefficient[2] | 15-Bar Moisture Content (%) | Radon Flux[3] pCi/m^2/s |
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| 4 | Rock Mulch[4] | 30.5 | 12 | 0.35[5] | 1.51[5] 94 (pcf) | 15.8[5] | 0 | 0.35 | 6[6] | 11.09 |
| 3 | Pediment Layer (Frost Protection and Biointrusion) | 83.8 | 33 | 0.35[5] | 1.51[5] 94 (pcf) | 15.8[5] | 0 | 0.35 | 6[6] | 11.61 |
| 2 | Clay Layer (Radon Barrier) | 30.5 | 12 | 0.38[7] | 1.59[7] 99 (pcf) | 16.1[7] | 0 | 0.35 | 15.1[7] | 19.49 |
| 1 | Contaminated Materials[8] | 500.0 | 197 | 0.35 | 1.51 100 (pcf) | 15.8 | 115 | 0.35 | 15.1 | 27.35 |

Notes:
1 - See Figure E1.
2 – Required model assumption for all materials.
3 – Calculated Ra-226 flux through layer.
4 – The soil matrix of the rock mulch layer is similar to, or the same as, the pediment layer and thus governs the properties of the rock mulch layer.
5 – Mean values from compaction test reports for samples EA-BSC09 (silty clay), EA-BSC12 (sandy clay), and EA-BSB04 (sand) from Borrow Areas A-B (Attachment E-2). Porosity values are assumed for mixed sand, silt, and clay.
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7 – Input values for clay radon barrier from compaction test report for sample EA-BSC09 (Attachment E-2) assuming a density of 90% of maximum standard Proctor density. The long-term 15-bar moisture content from the soil water characteristic curve (SWCC) for sample EA-BSC09 (Attachment E-2)
8 – The contaminated materials below the cover are assumed to be 5 meters (16. 4 feet) thick. Soil properties of the waste materials are assumed to be characteristic of a mixed sand, silt and clay with the same/similar values for porosity, dry density, and initial water content as the rock mulch and pediment layers. The long-term 15-bar moisture content of the waste materials is assumed to be the same/similar value as the clay radon barrier as the waste materials are below the influence of evapotranspiration.

**FIGURE**




NOT TO SCALE

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Project No. 111360

October 2025

Engineering Analytics, Inc.

**FIGURE E-1**
**FINAL RECLAMATION COVER SYSTEM**
**MT. TAYLOR MINE**

# ATTACHMENT E-1
# RADIUM ACTIVITY CONCENTRATION REFERENCES

# ATTACHMENT E-1.1
# AVM 2023 – WINDBLOWN AREA, ORE PAD AREA, MINE COMPOUND

# Surface and Subsurface Soil Radiologic Characterization

## Windblown Area, Ore Pad Area and Mine Compound

## Mount Taylor Mine Site

## San Mateo, NM


**Prepared by:**

**AVM Environmental Services, Inc.**

**1717 Del Norte Blvd.**

**Grants, NM 87020**

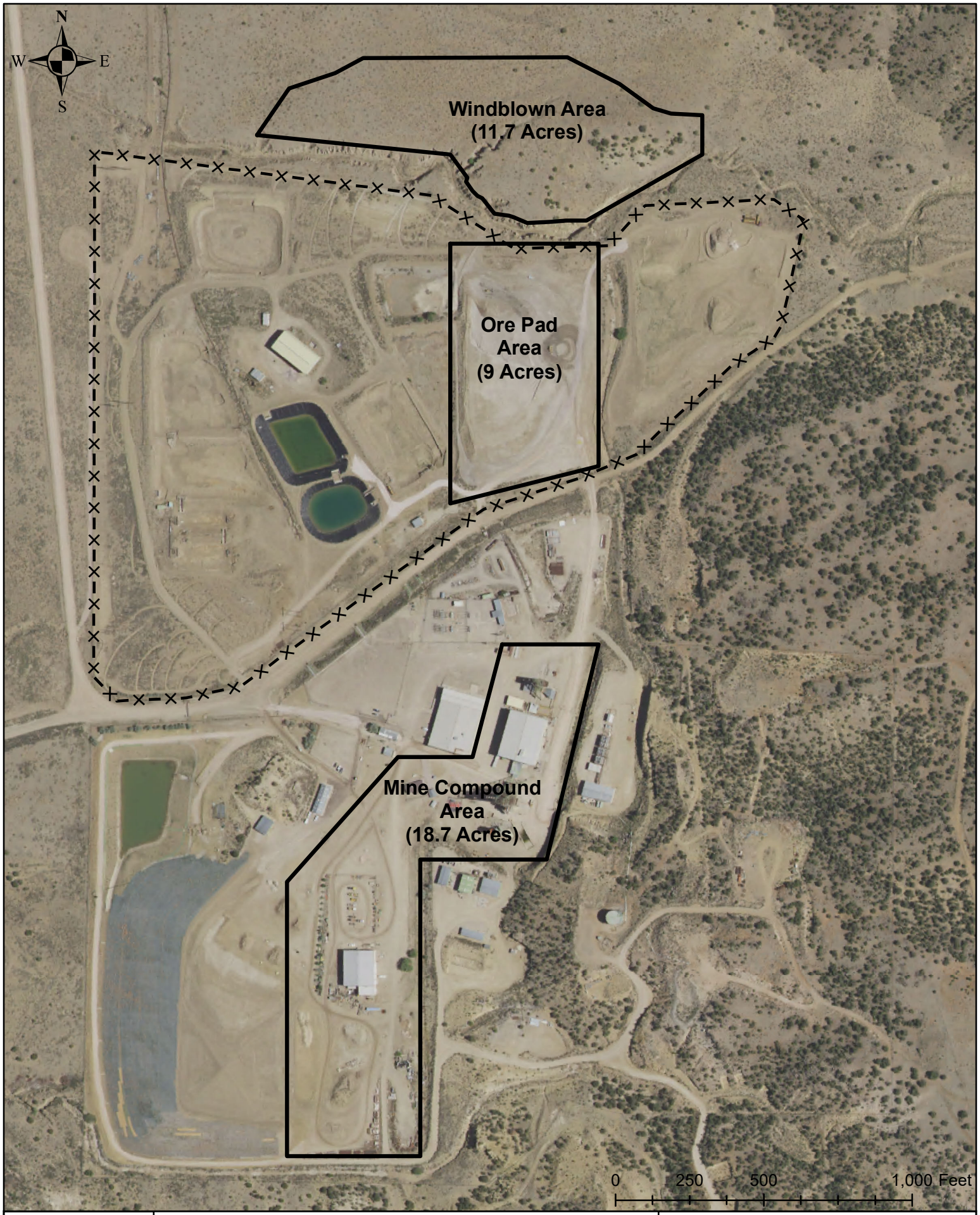

**Prepared for:**

**Rio Grande Resource Corporation**

**PO Box 1150**

**Grants, NM 87020**

**August 14, 2023**




AVM Environmental Services, Inc.

Figure 1
Mt. Taylor Mine Site
Soil Radiologic Characterization Areas

**Legend**

North Controlled Fence

Soil Radiologic Characterization Area

## Table 2
## Static Gamma Radiation Survey at Soil Sampling/Test Pit Locations

| Survey Date | Survey Point ID/Description | Survey Point Coordinate NAD83 StatePlane NM West, Feet | | Static Gamma Radiation Survey | | | | Gamma Exposure Rate µR/hr |
|---|---|---|---|---|---|---|---|---|
| | | | | Bare 2x2 NaI Detector | | Collimated (0.5" Pb) 2x2 NaI Detector | | |
| | | Northing | Easting | CPM | Estimated Ra-226 pCi/g | CPM | Estimated Ra-226 pCi/g | |
| 05/17/23 | WBSB-01 | 1,581,413 | 2,782,866 | 26,897 | 6.1 | 6,297 | 1.7 | 33 |
| 05/17/23 | WBSB-02 | 1,581,390 | 2,782,444 | 26,749 | 6.1 | 6,350 | 1.7 | 33 |
| 05/17/23 | WBSB-03 | 1,581,356 | 2,783,329 | 24,529 | 4.9 | 6,073 | 1.3 | 31 |
| 05/17/23 | WBSB-04 | 1,581,339 | 2,782,706 | 30,064 | 7.7 | 6,069 | 1.3 | 37 |
| 05/17/23 | WBSB-05 | 1,581,329 | 2,783,062 | 31,828 | 8.6 | 6,945 | 2.7 | 41 |
| 05/17/23 | WBSB-06 | 1,581,271 | 2,782,942 | 35,410 | 10.4 | 7,288 | 3.3 | 47 |
| 05/17/23 | WBSB-07 | 1,581,187 | 2,783,253 | 37,965 | 11.7 | 8,183 | 4.7 | 47 |
| 05/17/23 | WBSB-08 | 1,581,164 | 2,782,988 | 55,849 | 20.6 | 11,042 | 9.3 | 70 |
| 05/31/23 | WBSB-09 | 1,581,254 | 2,782,870 | 36,491 | 10.9 | 6,599 | 2.1 | 44 |
| 05/31/23 | WBSB-10 | 1,581,263 | 2,783,140 | 34,898 | 10.1 | 7,286 | 3.2 | 48 |
| 05/31/23 | WBSB-11 | 1,581,277 | 2,783,335 | 29,002 | 7.2 | 6,602 | 2.2 | 34 |
| 05/31/23 | WBSB-12 | 1,581,228 | 2,782,908 | 40,341 | 12.9 | 7,153 | 3.0 | 55 |
| 05/31/23 | OPSB-01 | 1,580,834 | 2,782,884 | 2,328,550 | 1157 | 716,621 | 1138 | 2,100 |
| 05/31/23 | OPSB-02 | 1,580,812 | 2,783,138 | 505,097 | 245 | 160,357 | 248 | 650 |
| 05/31/23 | OPSB-03 | 1,580,599 | 2,783,013 | 700,063 | 343 | 247,434 | 387 | 900 |
| 05/31/23 | OPSB-04 | 1,580,328 | 2,782,874 | 408,698 | 197 | 133,199 | 205 | 450 |
| 05/31/23 | OPSB-05 | 1,580,386 | 2,783,136 | 446,083 | 216 | 156,044 | 241 | 450 |
| 05/30/23 | MCSB-01 | 1,579,585 | 2,783,019 | 35,807 | 10.6 | 10,538 | 8.5 | 41 |
| 05/30/23 | MCSB-02 | 1,579,573 | 2,783,167 | 34,096 | 9.7 | 9,678 | 7.1 | 39 |
| 05/30/23 | MCSB-03 | 1,579,343 | 2,782,883 | 34,019 | 9.7 | 9,832 | 7.3 | 39 |
| 05/30/23 | MCSB-04 | 1,579,317 | 2,783,098 | 34,656 | 10.0 | 10,811 | 8.9 | 40 |
| 05/24/23 | MCSB-05 | 1,579,183 | 2,782,702 | 52,231 | 18.8 | 14,892 | 15 | 65 |
| 05/24/23 | MCSB-06 | 1,579,162 | 2,783,064 | 31,976 | 8.7 | 8,548 | 5.3 | 37 |
| 05/24/23 | MCSB-07 | 1,579,040 | 2,783,010 | 52,974 | 19.2 | 18,511 | 21 | 65 |
| 05/23/23 | MCSB-08 | 1,578,849 | 2,782,249 | 107,010 | 46.2 | 39,626 | 55.0 | 125 |
| 05/23/23 | MCSB-09 | 1,578,850 | 2,782,582 | 28,188 | 6.8 | 8,193 | 4.7 | 33 |
| 05/23/23 | MCSB-10 | 1,578,758 | 2,782,444 | 39,814 | 12.6 | 12,984 | 12 | 43 |
| 05/22/23 | MCSB-11 | 1,578,611 | 2,782,258 | 53,106 | 19.2 | 18,055 | 20 | 60 |
| 05/22/23 | MCSB-12 | 1,578,521 | 2,782,569 | 29,299 | 7.3 | 9,090 | 6.1 | 33 |
| 05/22/23 | MCSB-13 | 1,578,301 | 2,782,557 | 21,952 | 3.7 | 6,254 | 1.6 | 25 |
| 05/23/23 | MCSB-14 | 1,578,278 | 2,782,258 | 21,642 | 3.5 | 6,366 | 1.8 | 25 |
| 05/18/23 | MCSB-15 | 1,578,214 | 2,782,398 | 48,059 | 16.7 | 15,633 | 17 | 51 |
| 05/18/23 | MCSB-16 | 1,578,084 | 2,782,313 | 30,445 | 7.9 | 11,069 | 9.3 | 33 |
| 05/18/23 | MCSB-17 | 1,578,085 | 2,782,599 | 18,059 | 1.7 | 5,891 | 1.0 | 19 |
| 05/18/23 | MCSB-18 | 1,578,071 | 2,782,424 | 17,170 | 1.3 | 5,046 | <0.6 | 19 |
| 05/31/23 | MCSB-19 | 1,578,837 | 2,782,317 | 69,850 | 27.6 | 24,522 | 31 | 80 |
| 05/31/23 | MCSB-20 | 1,578,650 | 2,782,298 | 55,167 | 20.3 | 18,497 | 21 | 65 |

WB
Sum = 117.2
Mean = 9.8
n = 12
SD = 4.2

OPA
Sum = 2158
Mean = 431.6
n = 5
SD = 409.4

MCA
Sum = 261.5
Mean = 13.1
n = 20
SD = 10.5

# ATTACHMENT E-1.2
# AVM 2024 – TREATMENT POND

# Treatment Pond Radiologic Characterization

**Mt. Taylor Mine Site**
**San Mateo, NM**

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**June 4, 2024**

## Table of Contents

1.0 Introduction and Background ..... 1
2.0 Previous Radiologic Characterization ..... 1
3.0 Objective of the Radiologic Characterization ..... 2
4.0 Field Investigation ..... 2
4.1 Surface Gamma Radiation Scan and Static Survey ..... 2
4.2 Soil Sampling and Ex-Situ Gamma Radiation Soil Screening ..... 4
4.3 Treatment Pond 1 Area Characterization Summary ..... 6
4.4 Treatment Pond 4, 5, 6 and 7 Area Characterization Summary ..... 6
4.5 Treatment Pond 8 Area Characterization Summary ..... 7
4.6 Borrow Area A Soil Piles ..... 8
5.0 Soil Sampling and Analysis ..... 8
6.0 Quality Assurance and Quality Control Measures ..... 8

## Tables

Table 1 Typical Gamma Scan Data Exported from Scan System Data Logger
Table 2 Static Surface Gamma Radiation Survey at Soil Sampling/Test Pit Locations
Table 3 Treatment Pond Characterization Area Soil Sample Field Ex-Situ Gamma Screening and Vendor Laboratory Results Summary
Table 4 Treatment Pond Surface and Subsurface Soil Ra-226 Level Summary

## Figures

Figure 1 Treatment Pond Characterization Areas and Concrete Structure locations
Figure 2 Treatment Pond Characterization Area Data Point Locations and Gamma Survey Data
Figure 3 Treatment Pond Characterization Area Estimated Depth of Contamination above the 6.8 pCi/g Ra-226 Investigation Level

## Appendices

Appendix A Surface and Subsurface Contamination Field Investigation Documentation (Soil Sample Log Forms, Field Soil Sample Ex-Situ Gamma Radiation Screening Forms)
Appendix B Concrete Structure Radiologic Investigation
Appendix C Radiologic Instrument Calibration and Operational Function Check and Collimated Detector Correlation Documentation
Appendix D Soil Sample COC and Laboratory Analytical Results Report

## 1.0 Introduction and Background

This report provides the results of the Treatment Pond Radiologic Characterization (TPRC) that was conducted at the Mt. Taylor Mine (Site) in Cibola County, near San Mateo, New Mexico. This TPRC was performed to check the status and estimate radiologic contamination exceeding the Site Radiation Cleanup Criteria (RCC) of 6.8 pCi/g Radium (Ra)-226 within six treatment ponds at the Site: Treatment Ponds 1, 4, 5, 6, 7 and 8. Any synthetic liners and previously identified radiologically impacted soils were removed from the treatment ponds during material removal efforts conducted in 2019, prior to this characterization. Additionally, various treatment pond concrete structures (hydraulic control structures) were left in place either intact or partially demolished, with concrete rumble remaining nearby most structures. The majority of the demolished concrete pieces were placed in piles south of the TPRC area. The TPRC area includes treatment pond dikes, bottoms, and concrete structures, as shown in the Figure 1. The methods and procedures used were consistent with the June 2020 Work Plan for Post-Mining Radiological Surveys of Permit Area and Impacted Lands (2020 Work Plan) and the applicable survey methods described in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM, EPA 2000a). The RCC specified in the March 2016 *Joint Guidance for the Cleanup and Reclamation of Existing Uranium Mining Operations in New Mexico* (EMNRD, 2016) (2016 Guidance) by the Energy, Minerals & Natural Resources Department (EMNRD) and the New Mexico Environment Department (NMED) was used for the investigation level (IL). The Ra-226 cleanup criteria of 5.0 pCi/g above the background level in land averaged over 100 square meters in surface soil (top six inches) specified in the Joint Guidance is taken from the UMTRCA (40 CFR 192) regulation, which is based on an unrestricted land use exposure scenario. A 6.8 pCi/g Ra-226 IL (5.0 pCi/g plus 1.8 pCi/g background level) has been established for the Site.

The Site was an underground uranium mine located in Cibola County, near San Mateo, New Mexico. The mine was developed by Gulf Mineral Resources Company (Gulf) in the 1970s and ore production occurred from 1979 to 1982. Following transfer of the Site to Chevron Resources Company in 1985, the ore production resumed and continued until 1990. Rio Grande Resources (RGR) acquired the Site in 1991. In 1999 the Site entered standby status under Mine Permit C1002RE with EMNRD. On December 29, 2017, the permit changed to an active status, and on December 3, 2019, RGR notified MMD of intentions to begin the Site closeout/closure process. The following sections describe the strategy, methods and procedures that were used and the results of the TPRC conducted at the Site.

## 2.0 Previous Radiologic Characterizations

Surface gamma radiation surveys were performed periodically within operationally controlled areas of the Site to monitor changes in radiological conditions during a period of remedial excavations in the Mine Water Treatment Unit (MWTU) ponds, construction of the disposal cell and placement of contaminated mine materials, and gradual removal of ore from the ore stockpile. The most recent gamma survey prior to this characterization, conducted March 2020, showed elevated gamma radiation levels in certain operational areas within the Controlled Area boundaries, including areas within the treatment ponds. The gamma

survey results are summarized in the June 2020 Work Plan, and indicate surface soils in portions of treatment Ponds 4 through 8, and the entire Pond 1 area exceed the 6.8 pCi/g Ra-226 IL.

## 3.0 Objective of the Radiological Characterization

The Site is a former uranium mine, therefore the surface and subsurface soil is expected to be impacted by radionuclides associated with the uranium decay series, with Ra-226 being the primary Constituent of Concern (COC). The objective of this characterization is to evaluate Ra-226 contamination exceeding the Site IL of 6.8 pCi/g Ra-226 in surface and subsurface soils to facilitate volume estimates of radiologic impacted material within the TPRC area.

## 4.0 Field Investigation

Field investigations for this characterization were conducted consistent with the June 2020 Work Plan and were performed during the period of November 2, 2023 through April 29, 2024. The specified TPRC areas are shown in Figure 1. The field investigations included both static 0.5-inch thick lead collimated and uncollimated (bare) 2x2 sodium iodide (NaI) detector gamma radiologic survey measurements and Differential Global Positioning System (DGPS) based bare detector gamma scan surveys, along with ex-situ soil screening, soil sampling, and offsite vendor laboratory confirmatory sample analysis. Geo-located gamma scans were conducted to provide Ra-226 concentration level estimates in surface soil and to assist in determining data point (static gamma, soil sampling) locations to assess surface and subsurface radiologic contamination relative to the IL. Ex-situ gamma radiation soil screening was performed on soil samples collected during this TPRC to provide real-time information to estimate surface and subsurface contamination depths. Offsite vender laboratory soil sample analysis was performed to confirm contamination relative to the IL levels estimated by the field ex-situ gamma radiation soil screening.

### 4.1 Surface Gamma Radiation Scan and Static Survey

The instrument configuration for direct gamma radiation level measurements during this characterization consisted of lead collimated and bare 2x2 NaI scintillation detectors (Eberline SPA-3) for detection of gamma radiation, coupled to a scaler/rate meter (Ludlum 2221 or Ludlum 2241). This instrument configuration is used widely for this type of survey and is recommended by the MARSSIM. The scaler/rate meters were interfaced with a sub-meter accurate DGPS with surveying software and a data logger/controller for electronically recording the gamma radiation levels to the corresponding geo-location coordinates. The coordinate system used for this work was the State Plane Coordinate System (NAD83, New Mexico West, US Feet) system. Direct gamma radiation surveys using a NaI scintillation detector provide radiation levels in counts per unit time, generally obtained as counts per minute (cpm).

During this characterization, systematic gamma radiation scan surveys using bare 2x2 NaI detectors were performed at the Site to determine the level of Ra-226 in surface soil within the characterization areas.

Although bare detectors do not avoid lateral gamma radiation shine, bare detectors have a large field of view and provide a large scan coverage area for an efficient and conservative lateral extent of contamination assessment. To better characterize the surface soil and to assist in the selection of data point locations, the surface gamma scan survey was performed at a higher density, 30-feet transect spacing compared to the March 2020 scan density of about 60-ft transect spacing. Thirty feet spaced geo-projected transects for Treatment Ponds 4, 5, 6, 7 and 8 were digitally created using a mapping software and loaded on the field data logger/controller. A gamma scan survey was not conducted at Treatment Pond 1 since the March 2020 gamma scan showed uniformly elevated measurements over the entire area making the additional surface gamma scan with a bare detector unnecessary in selecting data point locations. Data point locations were selected in Treatment Pond 1 by selecting locations that would adequately characterize the elements of the treatment pond as well as the areal extent of the area, as shown in Figure 2. Additionally, three of the data point locations in Treatment Pond 1 were biasedly located in material removal excavations performed prior to this characterization. Based on a conservative field of view (FOV) of at least six feet diameter for a bare 2x2 NaI detector for Ra-226 gamma radiations, scanning transects spacing of 30 feet would provide at least a 20% scan coverage. The gamma scan survey was performed by scanning along these transects with a bare 2x2 NaI detector at 12 inches above the ground surface at a scan rate of about three feet per second, with a data collection time interval of two seconds.

The geo-located gamma scan data includes the gamma scan point ID, date and time, location coordinates, and bare detector gamma cpm. The scan data was exported from the data logger and the bare detector cpm were converted to equivalent Ra-226 estimate using the Site-specific correlation (Ra-226 pCi/g = 0.0005 x CPM)-7.3228 $R^2$ = 0.97) (2020 Work Plan). The scan data was mapped using mapping software, arranged in color coded ranges and then reviewed to identify areas that exceeded the IL. The color-coded range was structured to include the 6.8 pCi/g Ra-226 IL as shown in Figure 2. The characterization gamma scan survey included approximately 3,810 gamma scan data points within the TP characterization area. The gamma scan data was exported from the scan system data logger into an Excel file. The detector cpm was converted into equivalent estimated surface soil Ra-226 concentration in pCi/g using the Site-specific correlation for bare detectors as discussed in Section 4.5 of the 2020 Work Plan. A typical gamma scan data export table from the scan system data logger is shown in Table 1. Gamma scan survey data for this characterization are provided in an electronic file.

Thirty seven data point locations were selected within the Treatment Ponds 4, 5, 6, 7 and 8 characterization area based on surface gamma scan survey results and twelve data point locations were selected in the Treatment Pond 1 characterization area as described above, totaling in forty nine data point locations. One-minute static gamma radiation surveys were performed prior to collecting a soil sample at each data point location using a collimated 2x2 NaI detector. The survey data were recorded on Static Gamma Radiation Survey Forms, which are included in Appendix A. A Site-specific correlation for a 2x2 NaI 0.5-inch thick lead collimated detector was previously performed during the August 2023 Soil Radiologic Characterization. This correlation regression yielded an equation of Ra-226 = (cpm x 0.0016) – 8.41 with an acceptable $R^2$ value of 0.83. The collimated detector measurements were converted to soil Ra-226

concentrations using this correlation equation. The static gamma survey results are summarized in Table 2.

Treatment pond concrete structures located within the TPRC areas were surveyed by collecting a one minute collimated detector static gamma count on the intact structure walls. The static gamma survey was conducted with the collimated detector housing at contact with the concrete surface, which located the detector at 1.75 inches from the concrete surface. The results of the concrete surveys are included in Appendix B. In order to convert the collimated detector static survey results in cpm to the Ra-226 IL in pCi/g, the 2x2 NaI collimated detector was calibrated for the same survey geometry at the Department of Energy (DOE) Grants concrete calibration Pad. The calibration is included in Appendix C. The calibration indicates a level of 7,200 cpm for the 0.5 inch thick lead collimated detector at contact would be equivalent to the 6.8 pCi/g Ra-226 IL in concrete.

### 4.2 Soil Sampling and Ex-Situ Gamma Radiation Soil Screening

Soil sampling and on-Site ex-situ gamma radiation soil screening were performed from November 2, 2023, through April 29, 2024. These methods were used to estimate surface and subsurface soil Ra-226 contamination exceeding the IL at data point locations within the TPRC areas. The ex-situ gamma radiation soil screening was conducted to provide a real-time estimate of Ra-226 concentrations in soil samples. This method is more reliable than in-situ direct gamma radiation level measurements and allows for more certain real-time Ra-226 concentration assessments. The on-Site ex-situ soil screening method consists of selectively measuring the 609 KeV region gamma radiations of Bi-214, a decay product of Ra-226. A single channel analyzer (Ludlum L2221) integrated with a Ludlum 44-20 3x3 NaI scintillation detector was used to measure the 609 keV energy peak region of Bi-214. The soil sample was placed around the plastic lined detector in a heavily lead shielded counting chamber. The heavily shielded counting chamber lowers the system background counts, thus improving the system's minimum detectable concentration (MDC). A reference soil with the Ra-226 concentration of 6.6 pCi/g, comparable to the 6.8 pCi/g IL, was prepared and was used for soil screening during this characterization. The 6.6 pCi/g reference soil provides a conservative estimate of Ra-226 concentration in samples below the IL.

A total of 49 data point locations were selected for this TPRC, shown in Figure 2. Thirty seven data point locations were selected within the Treatment Pond 4, 5, 6, 7 and 8 characterization areas. The surface gamma scan indicated that no significant gamma shine was observed within these characterization areas. As a result, surface (0 to 6 inches) soil samples were not collected at the data points within this characterization area. The surface soil Ra-226 level was determined using the 0.5 inch thick collimated detector static gamma survey at these 37 data point locations. A one minute collimated detector static gamma survey provides a significantly higher certainty for a data point survey and the collimator mitigates any low level lateral gamma radiation shine from any nearby hot spots. A one minute collimated static gamma survey and both surface and subsurface soil samples were collected at the remaining twelve data point locations, which are all located within the Treatment Pond 1 characterization area.

Soil samples were collected from each of the 49 data point locations. The number and depth of the samples at each data point location varied depending upon location and soil screening results. At the 37 data points from the Treatment Pond 4, 5, 6, 7 and 8 characterization areas, a subsurface (6-12 inch) soil sample was collected, and ex-situ soil gamma screened. At five data point locations in this characterization area, TP-5B, TP-11, TP-15B, TP-16B and TP-21, a subsurface soil sample at a depth of 1-2 feet was collected and ex-situ soil screened since the 6-12 inch subsurface sample soil screening result was above the IL. At location TP-5B, an additional subsurface soil sample at a depth of 2-3 feet was collected since the 1-2 feet subsurface sample screening result was 6.0 pCi/g, near the IL. No additional subsurface soil samples were necessary at these locations. At each of the remaining 12 data points located in the Treatment Pond 1 characterization area, a surface and a subsurface (6 – 12") soil sample was collected, and ex-situ soil screened. At three data points located on the pond dike crests, TP-39, TP-41 and TP-46, the surface soil sample ex-situ soil screening results were above the IL. The 6-12 inch subsurface soil sample ex-situ soil screening results were above the IL in only one data point location, TP-36. The 1-2 feet subsurface soil sample ex-situ soil screening results at TP-36 was below the IL. No additional subsurface soils samples were necessary at these locations.

A backhoe was used to excavate a trench at each selected data point location for subsurface soil sample collection. The trenches were excavated in approximately 6 to 12 inches depth intervals. At each interval, a subsurface soil sample was collected from the base of the excavation for ex-situ soil screening. Stainless steel sampling trowels were used to collect all of the soil samples. The excavation continued until on-Site ex-situ soil screening indicated Ra-226 concentrations below the 6.8 pCi/g IL. The soil sample logs and the field soil screening forms are included in Appendix A. The soil ex-situ gamma screening data is summarized in Table 3, which includes Ra-226 concentrations of the samples relative to the 6.8 pCi/g IL.

Although the primary objective of the ex-situ gamma radiation soil screening was to determine the Ra-226 concentrations above or below the 6.8 pCi/g IL, Ra-226 concentrations were estimated in all soil samples collected and screened. A calibration/correlation of the ex-situ soil screening system was performed using a 6.6 pCi/g, a 25 pCi/g and a 50 pCi/g reference soil. This correlation is included in Appendix C. The estimated Ra-226 concentration of the subsurface soil samples determined using this correlation are included in Tables 3 and 4.

A total of nine, including one field quality assurance/quality check (QA/QC) duplicate, soil samples that were ex-situ soil screened on-Site were sent to an offsite vendor laboratory, Energy Laboratories, in Casper, WY. These soil samples were analyzed for Ra-226 using EPA Method 901.1 (modified for soil matrix) for the confirmation of the on-Site ex-situ soil screening results. The laboratory results report is included in Appendix D and are summarized in Table 3. As shown in the table, the estimated Ra-226 levels determined by the on-Site ex-situ soil screening are comparable with the laboratory Ra-226 results, specifically in regard to determining the Ra-226 levels above or below the IL.

### 4.3 Treatment Pond 1 Area Characterization Summary

In addition to subsurface soil samples, surface soil samples were collected at data points from within the Treatment Pond 1 characterization area to confirm the static gamma survey with a collimated detector, which indicated that the surface soil may not be elevated, as indicated by the 2020 bare detector surface soil gamma scan. As outlined in Tables 3 and 4, the soil screening results show that the surface and subsurface (6-12") soil Ra-226 levels are below the 6.8 pCi/g IL in all six samples located on the pond bottom in Treatment Pond 1. The surface and subsurface (6-12 inch) soil sample at location TP-35, which was collected from the base of a previously excavated area from the north dike, and the surface and subsurface (6-12 inch) soil sample at location TP-45, which was collected from the east dike crest, show Ra-226 levels below the 6.8 pCi/g IL. The ex-situ soil screening results show that samples collected from the crests of the dikes at four data point locations (TP-36, TP-39, TP-41 and TP- 46) the Ra-226 levels exceed the IL. Similar to TP-35, data point TP-41 was located at the base of a previous excavation. The subsurface soil (6-12 inch) Ra-226 levels are below the IL at all data point locations except for one location, TP-36. The screening results show the Ra-226 level at TP-36 in the 6-12 inch subsurface soil sample at 10.4 pCi/g, which is above the IL, and the 1-2 feet subsurface soil sample showed the Ra-226 level below the IL at 2.3 pCi/g. As shown in Figure 3, surface soil in the Treatment Pond 1 dikes exceeded the IL in some areas, but the subsurface soil is generally below the IL.

A one minute collimated detector static gamma survey was conducted on the concrete structure within the Treatment Pond 1 characterization area. The concrete structure was designated CS-10 and is located on the western dike inside slope. The gamma survey shows radiation cpm levels ranging from 9,408 to 25,471 cpm, above the 6.8 pCi/g Ra-226 IL equivalent of 7,200 cpm at all 7 survey points selected withing the concrete structure. Portions of the elevated gamma cpm levels may be due to apparent waste rock material near and surrounding the concrete structure, and from concrete surface staining from the historic retention of mine wastewater and sediments. A gamma radiation level of 90,000 cpm was observed in the bottom of the concrete sump, likely due to the remaining layer of mine waste sediments and soil. Further direct radiation surveys of the concrete structure in place may not be effective. Removal of the concrete structures and radiation surveys of the underlying soil and sampling and surveying of the concrete may provide a better understanding of the Ra-226 levels within the concrete structure.

### 4.4 Treatment Pond 4, 5, 6 and 7 Area Characterization Summary

Because lateral gamma radiation shine was not a significant concern at these ponds, the surface soil (0-6 inch) Ra-226 levels were determined by a collimated detector one minute gamma static survey. As shown in Table 2, Table 4, and Figure 2, the surface static gamma survey results show the surface soil (0-6 inch) Ra-226 level in Treatment Pond 4, 5, 6 and 7 pond bottoms are below the IL, except for areas that are down gradient of the concrete structures and at a few isolated areas of elevated gamma radiation levels, likely remnants from previous removal efforts. The elevated surface static gamma levels near the concrete structures appear to be due to contaminated sediment in the concrete structure sumps and from apparent

mine waste material around the structures. The soil along the north dike crest of Treatment Pond 4 appears to be generally below the IL. The surface soil along the east and west dike crests are generally above the IL. The subsurface soil along the east and west dike crests are generally below the IL, except for the 6-12 inch subsurface sample at TP-11. Ex-situ soil screening results from the 6-12 inch subsurface sample at TP-11 of 64.4 pCi/g is likely due to apparent mine waste rock visible in the area. The Ra-226 levels in the subsequent 1–2 feet subsurface soil sample at TP-11 is below the IL. The surface soil on the south dike crest of Treatment Pond 4 appears to be below the IL, except near the concrete structure. The soil on the west dike outside slopes and crests of Treatment Pond 5, 6 and 7 are generally below the IL, except near the concrete structures. The surface soil on the east dike crest of Treatment Pond 5 is above the IL at various isolated locations, shown in Figures 2 and 3.

One minute collimated detector static gamma surveys conducted at nine concrete structures, shown in Figure 1, located on the dike inside slopes and/or crests at Treatment Pond 4, 5, 6, and 7 show gamma radiation levels ranging from 5,500 cpm to 45,600 cpm. As stated previously, the IL equivalent cpm for the concrete survey is 7,200 cpm. Portions of the elevated gamma cpm levels may be due to apparent waste rock material near and surrounding the concrete structure, and from concrete surface staining from the historic retention of mine wastewater and sediments. Mine waste sediments were also observed inside all the concrete structure sumps, which showed elevated gamma survey readings of up to 31,000 cpm. The concrete structure static gamma survey forms are included in Appendix B. In general, the majority of the concrete comprising the structures are likely to be below the IL, but it will be difficult to assess by gamma radiation surveys as concrete surface staining from the retention of mine waste water and sediments and apparent waste rock material near and surrounding the concrete structure are still present. Further direct radiation surveys of the concrete structure in place may not be effective.

Removal of the concrete structures and radiation surveys of the underlying soil and sampling and surveying of the concrete may provide a better understanding of the Ra-226 levels within the concrete structure. Several random pieces of the demolished concrete structures were surveyed for gamma radiation. The demolished concrete structure pieces are piled in fairly low gamma shine area south of Treatment Pond 7. The results, included in Appendix B, show all pieces surveyed were below the 7200 cpm IL, which supports the assumption that the sediments and apparent waste rock material near and surrounding the concrete structures may be impacting the direct gamma survey of the in-place concrete structures.

### 4.5 Treatment Pond 8 Area Characterization Summary

As shown in Table 2, Table 4, Figure 2 and 3, the surface static gamma survey results show the surface soil (0-6 inch) Ra-226 level in the bottom of Treatment Pond 8 is below the IL, except in a small isolated area at data point TP-6, which is estimated by ex-situ soil screening at 9 pCi/g. The 6–12 inch subsurface soil sample at TP-6 showed Ra-226 level at 3.1 pCi/g, well below the IL. Surface soil Ra-226 levels in portions of the south and west dike slopes and crests are above the IL. Ra-226 in the subsurface soil at these locations are below the IL. Elevated surface gamma scans with a bare detector along the east dike crest and outside

slope appear to be mostly due to lateral gamma radiation shine from adjacent areas outside of the Treatment Pond 8 characterization area.

### 4.6 Borrow Area A Soil Piles

Two soil piles located in the East Borrow area were sampled to estimate Ra-226 levels relative to the IL. Soil in these piles apparently came from the mine water treatment ponds. Pile 1 contained shrub/wood debris and treatment pond waste residue. Pile 2 contained fine treatment pond waste residue along with pieces of synthetic liner. Gamma exposure rates were measured at several locations on each pile. Exposure rates on pile 1 ranged from 100 to 200 uR/hr, and ranged from 100 to 300 uR/hr on Pile 2. A five-point composite soil sample was collected from both the surface and from within Pile 1. A soil sample was not collected from Pile 2 because the gamma exposure rate measurements indicated Ra-226 levels significantly above the IL and the fine pond waste residue on the surface of the pile posed airborne radiation safety concerns and the spread of contamination in the area due to windy conditions. As shown in Table 3, ex-situ soil gamma screening of the samples from Pile 1 indicates Ra-226 levels significantly above the IL.

## 5.0 Soil Sampling and Analysis

Soil samples from the Treatment Pond areas collected for on-Site ex-situ gamma radiation soil screening were collected consistent with the 2020 Work Plan. Field QA/QC duplicate samples were split at a frequency of 10% of the total number of soil samples collected. A total of 67 surface and subsurface soil samples were collected during this characterization. Field sampling equipment used for soil sampling included: stainless steel scoops, bowls, and spoons that were decontaminated between sample locations. The soil sampling equipment decontamination was conducted by brushing off loose visible soil and wiped with clean towels. Excavator buckets were cleaned by removing any loose, visible soil. Any soils excavated from the test pits were returned to the test pit excavations from which the soil came. Personal protection equipment (PPE), such as gloves, were brushed off and scanned for residual contamination and were disposed of.

Surface and subsurface soil samples were analyzed by on-Site ex-situ gamma radiation soil screening (AVM SOP-4) to estimate Ra-226 concentrations. A completed Chain-of-Custody (COC) along with confirmatory soil samples were placed in labeled Ziploc bags, and packaged in a cooler with a sealed lid and shipped to Energy Laboratories, Inc for Ra-226 analysis. The soil samples were analyzed for Ra-226 with a reporting limit of 0.5 pCi/g, using EPA Method 901.1 (modified for soil matrix). The completed COCs are included with the analytical results reports in Appendix D.

## 6. 0 Quality Assurance and Quality Control Measures

QA/QC measures were implemented during this characterization to ensure that decisions were made based on data of acceptable quality. All radiologic survey instruments have been calibrated at least annually. Additionally, operational functions checks were performed on all radiologic instruments daily prior to use.

The calibration and function check documents are included in Appendix C. During this characterization, no instruments were found to be out of calibration or inoperable as indicated by the operational function checks. The instrument background measurements for bare 2x2 NaI detectors during daily operational function checks were less than 10,000 cpm as shown in Appendix C. The bare detector field of view (FOV) at 12 inches above the ground surface is conservatively assumed at an area of six feet diameter. The 2x2 NaI detector response factor is determined to be 0.0005 pCi/g/cpm from the linear regression for the Site-specific correlation included in Appendix C. Based on the above detector parameters, the Ra-226 minimum detectable concentrations (MDCs) for a scan survey at a scan speed of three feet per second, calculated using MARSSIM guidance, were less than 1.0 pCi/g, which is significantly below 50% of the 6.8 pCi/g IL. The instrument background measurements for the 0.5 inch thick lead collimated 2x2 NaI detectors during daily operational function checks were less than 3,200 cpm, as shown in Appendix C. The bare detector field of view (FOV) at 12 inches above the ground surface is conservatively assumed at an area of 1.5 feet diameter. The collimated 2x2 NaI detector response factor is determined to be 625 cpm/pCi/g from the linear regression for the Site-specific correlation included in Appendix C. Based on the above collimated detector parameters, the Ra-226 minimum detectable concentrations (MDCs) for a one minute static survey, calculated using MARSSIM guidance, was less than 0.5 pCi/g, which is significantly below 50% of the 6.8 pCi/g IL. The ex-situ soil gamma radiation screening system was calibrated prior to mobilization in the field and daily operational function checks were performed prior to use. The calibration and function check documentation are included in Appendix C. Based on the highest system background (blank) measurements from daily operational function checks and efficiency (pCi/g/cpm), the highest Ra-226 MDC for the screening system calculated was less than 1.0 pCi/g, significantly less than the 6.8 pCi/g IL. The MDCs during the supplemental characterization met the QA objective.

The QA/QC measures also included nine field QA/QC duplicate soil samples out of the 67 soil samples collected sent to the off-site vendor laboratory for analysis to confirm contamination relative to the IL levels estimated by the field ex-situ gamma radiation soil screening. The QA/QC duplicate vendor laboratory results are included in Table 3. All QA/QC sample results confirm Ra-226 concentration levels relative to the IL level determined by the field ex-situ gamma radiation soil screening. The Ra-226 concentration in QA/QC duplicate samples estimated by on-sit ex-situ gamma radiation soil screening are comparable to the off-site vendor laboratory analytical results.

# Tables

Table 1
Typical Gamma Scan Data Exported from the Scan System Data Logger

| ID | Time | Northing[1] (feet) | Easting[1] (feet) | MSL Elevation (feet) | CPM 2x2 Bare NaI Detector | Ra-226 pCi/g[2] | Zone_ID |
|---|---|---|---|---|---|---|---|
| 1 | 10/18/2023 8:12 | 1579902.54 | 2781775.10 | 7300 | 24761 | 5.06 | Treatment_Ponds |
| 2 | 10/18/2023 8:12 | 1579903.88 | 2781775.74 | 7300 | 23724 | 4.54 | Treatment_Ponds |
| 3 | 10/18/2023 8:12 | 1579904.17 | 2781778.02 | 7300 | 25456 | 5.41 | Treatment_Ponds |
| 4 | 10/18/2023 8:12 | 1579903.99 | 2781781.66 | 7300 | 25463 | 5.41 | Treatment_Ponds |
| 5 | 10/18/2023 8:12 | 1579904.34 | 2781785.64 | 7300 | 24786 | 5.07 | Treatment_Ponds |
| 6 | 10/18/2023 8:12 | 1579904.46 | 2781790.40 | 7300 | 23246 | 4.30 | Treatment_Ponds |
| 7 | 10/18/2023 8:12 | 1579903.97 | 2781795.09 | 7301 | 23822 | 4.59 | Treatment_Ponds |
| 8 | 10/18/2023 8:12 | 1579903.49 | 2781800.02 | 7300 | 25694 | 5.53 | Treatment_Ponds |
| 9 | 10/18/2023 8:12 | 1579904.14 | 2781805.18 | 7301 | 31410 | 8.39 | Treatment_Ponds |
| 10 | 10/18/2023 8:12 | 1579904.09 | 2781810.07 | 7301 | 28672 | 7.02 | Treatment_Ponds |
| 11 | 10/18/2023 8:12 | 1579904.27 | 2781814.71 | 7301 | 25935 | 5.65 | Treatment_Ponds |
| 12 | 10/18/2023 8:12 | 1579904.36 | 2781819.65 | 7301 | 26984 | 6.17 | Treatment_Ponds |
| 13 | 10/18/2023 8:12 | 1579904.09 | 2781821.94 | 7301 | 26902 | 6.13 | Treatment_Ponds |
| 14 | 10/18/2023 8:12 | 1579903.77 | 2781822.84 | 7301 | 28593 | 6.98 | Treatment_Ponds |
| 15 | 10/18/2023 8:12 | 1579903.22 | 2781827.06 | 7301 | 28036 | 6.70 | Treatment_Ponds |
| 16 | 10/18/2023 8:12 | 1579902.15 | 2781831.73 | 7302 | 27870 | 6.62 | Treatment_Ponds |
| 17 | 10/18/2023 8:12 | 1579902.11 | 2781836.90 | 7302 | 26062 | 5.71 | Treatment_Ponds |
| 18 | 10/18/2023 8:13 | 1579902.06 | 2781842.31 | 7302 | 27827 | 6.59 | Treatment_Ponds |
| 19 | 10/18/2023 8:13 | 1579903.05 | 2781848.05 | 7302 | 27534 | 6.45 | Treatment_Ponds |
| 20 | 10/18/2023 8:13 | 1579902.68 | 2781853.78 | 7302 | 25994 | 5.68 | Treatment_Ponds |
| 21 | 10/18/2023 8:13 | 1579903.18 | 2781859.71 | 7302 | 26539 | 5.95 | Treatment_Ponds |
| 22 | 10/18/2023 8:13 | 1579903.39 | 2781865.09 | 7302 | 28415 | 6.89 | Treatment_Ponds |
| 23 | 10/18/2023 8:13 | 1579903.06 | 2781874.06 | 7302 | 26264 | 5.81 | Treatment_Ponds |
| 24 | 10/18/2023 8:13 | 1579902.23 | 2781879.73 | 7303 | 23133 | 4.25 | Treatment_Ponds |
| 25 | 10/18/2023 8:13 | 1579903.30 | 2781885.83 | 7303 | 24734 | 5.05 | Treatment_Ponds |
| 26 | 10/18/2023 8:13 | 1579903.75 | 2781891.77 | 7303 | 22704 | 4.03 | Treatment_Ponds |
| 27 | 10/18/2023 8:13 | 1579903.75 | 2781897.38 | 7303 | 22324 | 3.84 | Treatment_Ponds |
| 28 | 10/18/2023 8:13 | 1579902.96 | 2781902.73 | 7303 | 20758 | 3.06 | Treatment_Ponds |
| 29 | 10/18/2023 8:13 | 1579899.92 | 2781907.85 | 7303 | 19594 | 2.48 | Treatment_Ponds |
| 30 | 10/18/2023 8:13 | 1579899.78 | 2781914.18 | 7304 | 20910 | 3.14 | Treatment_Ponds |
| 31 | 10/18/2023 8:13 | 1579900.82 | 2781919.94 | 7304 | 20171 | 2.77 | Treatment_Ponds |
| 32 | 10/18/2023 8:13 | 1579901.72 | 2781925.63 | 7304 | 22063 | 3.71 | Treatment_Ponds |
| 33 | 10/18/2023 8:13 | 1579901.53 | 2781931.45 | 7304 | 20831 | 3.10 | Treatment_Ponds |
| 34 | 10/18/2023 8:13 | 1579901.71 | 2781937.44 | 7305 | 22406 | 3.88 | Treatment_Ponds |
| 35 | 10/18/2023 8:13 | 1579904.08 | 2781942.73 | 7305 | 22237 | 3.80 | Treatment_Ponds |
| 36 | 10/18/2023 8:13 | 1579903.40 | 2781948.33 | 7305 | 21049 | 3.20 | Treatment_Ponds |
| 37 | 10/18/2023 8:13 | 1579903.70 | 2781954.27 | 7305 | 20684 | 3.02 | Treatment_Ponds |
| 38 | 10/18/2023 8:13 | 1579904.71 | 2781959.77 | 7306 | 19715 | 2.54 | Treatment_Ponds |
| 39 | 10/18/2023 8:13 | 1579904.25 | 2781965.50 | 7306 | 19402 | 2.38 | Treatment_Ponds |
| 40 | 10/18/2023 8:13 | 1579903.80 | 2781971.03 | 7306 | 19788 | 2.57 | Treatment_Ponds |

(1) projection: StatePlane NAD 1983 NM West - Feet

(2) Ra-226 pCi/g determined from surface soil gamma radiation scan using 2x2 NaI detector and Site-specific gamma radiation level (cpm) correlation

Table 2
Static Gamma Radiation Survey at Data Point/Soil Sample Locations

| Data Point ID | Treatment Pond ID | Survey Date | Data Point Coordinate NAD83 StatePlane NM West, Feet | | Static Gamma Radiation Survey Collimated (0.5" PB) 2x2 Detector | |
|---|---|---|---|---|---|---|
| | | | Northing | Easting | Static Gamma CPM | Surface Soil Static Gamma Estimated Ra-226 pCi/g |
| TP-1 | 8 | 11/13/2023 | 1581160 | 2782050 | 8154 | 4.6 |
| TP-2 | 8 | 11/13/2023 | 1581049 | 2782082 | 6452 | 1.9 |
| TP-3 | 8 | 11/13/2023 | 1581054 | 2782194 | 8391 | 5.0 |
| TP-4 | 8 | 11/13/2023 | 1581056 | 2781878 | 6148 | 1.4 |
| TP-5 | 8 | 11/13/2023 | 1581009 | 2781973 | 6414 | 1.9 |
| TP-5B | 8 | 11/13/2023 | 1580938 | 2781891 | 12872 | 12.2 |
| TP-6 | 8 | 11/13/2023 | 1580922 | 2782111 | 10909 | 9.0 |
| TP-7 | 8 | 11/13/2023 | 1580883 | 2782046 | 25660 | 32.6 |
| TP-8 | 4 | 11/13/2023 | 1580701 | 2781885 | 6271 | 1.6 |
| TP-9 | 4 | 11/13/2023 | 1580657 | 2781727 | 11168 | 9.5 |
| TP-10 | 4 | 11/13/2023 | 1580626 | 2781847 | 7220 | 3.1 |
| TP-11 | 4 | 11/13/2023 | 1580610 | 2781955 | 47231 | 67.2 |
| TP-12 | 4 | 11/13/2023 | 1580536 | 2781864 | 9564 | 6.9 |
| TP-13 | 4 | 11/13/2023 | 1580469 | 2782022 | 29197 | 38.3 |
| TP-14 | 4 | 11/13/2023 | 1580448 | 2781724 | 14340 | 14.5 |
| TP-15 | 4 | 11/13/2023 | 1580405 | 2781891 | 7949 | 4.3 |
| TP-15B | 4 | 11/13/2023 | 1580374 | 2781812 | 37940 | 52.3 |
| TP-16 | 4/5 | 11/2/2023 | 1580347 | 2781902 | 6253 | 1.6 |
| TP-16B | 5 | 11/2/2023 | 1580328 | 2781811 | 34845 | 47.3 |
| TP-17 | 5 | 11/2/2023 | 1580244 | 2781736 | 6229 | 1.6 |
| TP-18 | 5 | 11/2/2023 | 1580226 | 2782002 | 7005 | 2.8 |
| TP-19 | 5 | 11/2/2023 | 1580227 | 2782127 | 10742 | 8.8 |
| TP-20 | 5 | 11/2/2023 | 1580228 | 2781915 | 6205 | 1.5 |
| TP-21 | 5 | 11/2/2023 | 1580208 | 2781840 | 32143 | 43.0 |
| TP-22 | 5 | 11/2/2023 | 1580165 | 2781780 | 15930 | 17.1 |
| TP-23 | 5/6 | 11/1/2023 | 1580123 | 2781924 | 7359 | 3.4 |
| TP-24 | 6 | 11/1/2023 | 1580069 | 2781800 | 7873 | 4.2 |
| TP-25 | 6 | 11/1/2023 | 1580062 | 2782028 | 6629 | 2.2 |
| TP-26 | 6 | 11/1/2023 | 1580069 | 2781851 | 19833 | 23.3 |
| TP-27 | 6 | 11/1/2023 | 1580070 | 2781925 | 6839 | 2.5 |
| TP-28 | 6 | 11/2/2023 | 1580058 | 2781819 | 19305 | 22.5 |
| TP-29 | 6/7 | 11/1/2023 | 1580018 | 2781918 | 6952 | 2.7 |
| TP-30 | 7 | 11/1/2023 | 1579960 | 2781881 | 7672 | 3.9 |
| TP-31 | 7 | 11/1/2023 | 1579960 | 2781945 | 6195 | 1.5 |
| TP-32 | 7 | 11/1/2023 | 1579963 | 2781801 | 8654 | 5.4 |
| TP-33 | 7 | 11/1/2023 | 1579962 | 2782026 | 5955 | 1.1 |
| TP-34 | 7 | 11/1/2023 | 1579905 | 2781906 | 5895 | 1.0 |
| TP-35 | 1 | 4/15/2024 | 1580506 | 2782478 | 9284 | 6.4 |
| TP-36 | 1 | 4/15/2024 | 1580485 | 2782620 | 21880 | 26.6 |
| TP-37 | 1 | 4/15/2024 | 1580440 | 2782508 | 7677 | 3.9 |
| TP-38 | 1 | 4/15/2024 | 1580409 | 2782635 | 10030 | 7.6 |
| TP-39 | 1 | 4/15/2024 | 1580389 | 2782407 | 13401 | 13.0 |
| TP-40 | 1 | 4/15/2024 | 1580369 | 2782563 | 8484 | 5.2 |
| TP-41 | 1 | 4/15/2024 | 1580303 | 2782726 | 34091 | 46.1 |
| TP-42 | 1 | 4/15/2024 | 1580282 | 2782640 | 8149 | 4.6 |
| TP-43 | 1 | 4/15/2024 | 1580242 | 2782586 | 8081 | 4.5 |
| TP-44 | 1 | 4/15/2024 | 1580214 | 2782663 | 8627 | 5.4 |
| TP-45 | 1 | 4/15/2024 | 1580206 | 2782536 | 10022 | 7.6 |
| TP-46 | 1 | 4/15/2024 | 1580316 | 2782449 | 32407 | 43.4 |

# Table 3

Treatment Pond Characterization Area Soil Sample Field Ex-Situ Screening and Vendor Laboratory Results Summary

| Sample Data | | | | | | Field Soil Screening Data | | | | | | | Laboratory Data | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Depth (ft) | Pond /Area | Sample Date | Sample Time | Description | Screen Date | Sample Weight grams | 609 (559-669) Kev Gross Counts CP5M | CPM | 6.6 pCi/g Ra-226 Reference Soil CPM | Soil Gamma Screening Estimated Ra-226 pCi/g | Soil IL (< or >) | Sample Sent to Lab | Ra-226 pCi/g | Error Estimate pCi/g | MDC pCi/g |
| TP-1 | 6"-12" | 8 | 11/13/2023 | 1130 | Light brown/white specks | 11/16/2023 | 3000 | 1481 | 296 | 488 | 2.7 | < | - | - | - | - |
| TP-2 | 6"-12" | 8 | 11/13/2023 | 1300 | Light brown sandy | 11/16/2023 | 3000 | 1227 | 245 | 488 | 2.0 | < | - | - | - | - |
| TP-3 | 6"-12" | 8 | 11/13/2023 | 1150 | Brown packed clay | 11/16/2023 | 3000 | 1242 | 248 | 488 | 2.0 | < | - | - | - | - |
| TP-4 | 6"-12" | 8 | 11/13/2023 | 1115 | Brown packed clay | 11/16/2023 | 3000 | 1410 | 282 | 488 | 2.5 | < | - | - | - | - |
| TP-5 | 6"-12" | 8 | 11/13/2023 | 1250 | Light brown sandy | 11/16/2023 | 3000 | 1102 | 220 | 488 | 1.6 | < | - | - | - | - |
| TP-5B | 6"-12" | 8 | 11/13/2023 | 1025 | Light grey/brown silty sand | 11/16/2023 | 3000 | 4353 | 871 | 488 | 10.7 | > | - | - | - | - |
| TP-5B | 1.5'-2.0' | 8 | 11/14/2024 | 915 | Light grey/brown silty sand | 11/16/2024 | 3000 | 2676 | 535 | 488 | 6.0 | ≈ | - | - | - | - |
| TP-5B | 2'-3' | 8 | 11/14/2023 | 920 | Rocky light grey silty | 11/16/2023 | 3000 | 1928 | 386 | 488 | 3.9 | < | - | - | - | - |
| TP-5B | 3'-3.5' | 8 | 11/14/2023 | 930 | Light brown silty | 11/16/2023 | 3000 | 1251 | 250 | 488 | 2.0 | < | - | - | - | - |
| TP-6 | 6"-12" | 8 | 11/13/2023 | 1315 | Brown silty sand w/ stones | 11/16/2023 | 3000 | 1643 | 329 | 488 | 3.1 | < | - | - | - | - |
| TP-7 | 6"-12" | 8 | 11/13/2023 | 1210 | Light brown silty/loam clay | 11/16/2023 | 3000 | 1478 | 296 | 488 | 2.7 | < | - | - | - | - |
| TP-8 | 6"-12" | 4 | 11/13/2023 | 1330 | Light brown packed silty clay | 11/16/2023 | 3000 | 1341 | 268 | 488 | 2.3 | < | - | - | - | - |
| TP-9 | 6"-12" | 4 | 11/14/2023 | 755 | Light brown packed silty clay | 11/16/2023 | 3000 | 1361 | 272 | 488 | 2.3 | < | - | - | - | - |
| TP-10 | 6"-12" | 4 | 11/14/2023 | 900 | Brown silty loam | 11/16/2023 | 3000 | 1153 | 231 | 488 | 1.8 | < | - | - | - | - |
| TP-11 | 6"-12" | 4 | 11/13/2023 | 1345 | Light brown/white specks | 11/16/2023 | 3000 | 23511 | 4702 | 488 | 64.4 | > | x | 61.5 | 1.4 | 0.7 |
| TP-11 | 1.5'-2' | 4 | 11/16/2023 | 1105 | Light brown packed silty clay | 11/16/2023 | 3000 | 1439 | 288 | 488 | 2.6 | < | x | 1.1 | 0.1 | 0.1 |
| TP-12 | 6"-12" | 4 | 11/14/2023 | 850 | Brown packed clay & silty | 11/16/2023 | 3000 | 1320 | 264 | 488 | 2.2 | < | - | - | - | - |
| TP-13 | 6"-12" | 4 | 11/13/2023 | 1405 | Light brown silty sand | 11/16/2023 | 3000 | 1389 | 278 | 488 | 2.4 | < | - | - | - | - |
| TP-14 | 6"-12" | 4 | 11/14/2023 | 810 | Light brown/white specks | 11/16/2023 | 3000 | 1388 | 278 | 488 | 2.4 | < | - | - | - | - |
| TP-15 | 6"-12" | 4 | 11/14/2023 | 835 | Light brown sandy | 11/16/2023 | 3000 | 1120 | 224 | 488 | 1.7 | < | - | - | - | - |
| TP-15B | 6"-12" | 4 | 11/14/2023 | 825 | Brown silty with cobble | 11/16/2023 | 3000 | 7551 | 1510 | 488 | 19.7 | > | x | 15.2 | 0.5 | 0.3 |
| TP-15B | 1'-1.5' | 4 | 11/16/2023 | 1135 | Light brown sandy | 11/16/2023 | 3000 | 1362 | 272 | 488 | 2.4 | < | x | 1.2 | 0.2 | 0.2 |
| TP-16 | 6"-12" | 4/5 | 11/7/2023 | 1225 | Brown silty clay | 11/8/2023 | 3000 | 1321 | 264 | 541 | 2.2 | < | - | - | - | - |
| TP-16B | 6"-12" | 5 | 11/7/2023 | 1048 | Brown hardpack silty | 11/8/2023 | 3000 | 3782 | 756 | 541 | 9.1 | > | - | - | - | - |
| TP-16B | 1'-1.5' | 5 | 11/16/2023 | 1150 | Brown hardpack silty clay | 11/16/2023 | 3000 | 1960 | 392 | 488 | 4.0 | < | - | - | - | - |
| TP-17 | 6"-12" | 5 | 11/2/2023 | 1135 | Light brown sandy/silty | 11/8/2023 | 3000 | 1373 | 275 | 541 | 2.4 | < | - | - | - | - |
| TP-18 | 6"-12" | 5 | 11/7/2023 | 1000 | Light brown sandy/silty | 11/8/2023 | 3000 | 1191 | 238 | 541 | 1.9 | < | - | - | - | - |
| TP-19 | 6"-12" | 5 | 11/2/2023 | 1340 | Light brown hardpack silty | 11/8/2023 | 3000 | 1463 | 293 | 541 | 2.6 | < | - | - | - | - |
| TP-20 | 6"-12" | 5 | 11/7/2023 | 1010 | Dark brown silty/clay | 11/8/2023 | 3000 | 1164 | 233 | 541 | 1.8 | < | - | - | - | - |
| TP-21 | 6"-12" | 5 | 11/7/2023 | 1025 | Brown silty clay | 11/8/2023 | 2716 | 8363 | 1673 | 541 | 22.0 | > | - | - | - | - |
| TP-21 | 1'-1.5' | 5 | 11/16/2023 | 1205 | Brown silty clay | 11/16/2023 | 3000 | 1440 | 288 | 488 | 2.6 | < | - | - | - | - |
| TP-22 | 6"-12" | 5 | 11/7/2023 | 1040 | Light brown sandy/silty | 11/8/2023 | 3000 | 1186 | 237 | 541 | 1.9 | < | - | - | - | - |
| TP-23 | 6"-12" | 5/6 | 11/2/2023 | 1330 | Brown silty loam, thin clay | 11/8/2023 | 3000 | 1314 | 263 | 541 | 2.2 | < | - | - | - | - |
| TP-24 | 6"-12" | 6 | 11/2/2023 | 1115 | Brown loamy clay | 11/8/2023 | 3000 | 1218 | 244 | 541 | 1.9 | < | - | - | - | - |
| TP-25 | 6"-12" | 6 | 11/2/2023 | 1310 | Light brown sandy | 11/8/2023 | 3000 | 1231 | 246 | 541 | 2.0 | < | - | - | - | - |
| TP-26 | 6"-12" | 6 | 11/7/2023 | 1210 | Brown silty packed, specks rock | 11/8/2023 | 3000 | 1213 | 243 | 541 | 1.9 | < | - | - | - | - |
| TP-27 | 6"-12" | 6 | 11/7/2023 | 1150 | Light brown sandy | 11/8/2023 | 3000 | 1053 | 211 | 541 | 1.5 | < | - | - | - | - |
| TP-28 | 6"-12" | 6 | 11/2/2023 | 1125 | Light brown sandy/silty | 11/8/2023 | 3000 | 1305 | 261 | 541 | 2.2 | < | - | - | - | - |

Table 3 (cont.)

Treatment Pond Characterization Area Soil Sample Field Ex-Situ Screening and Vendor Laboratory Results Summary

| Sample Data | | | | | | Field Soil Screening Data | | | | | | | Laboratory Data | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Depth (ft) | Pond /Area | Sample Date | Sample Time | Description | Screen Date | Sample Weight grams | 609 (559-669) Kev Gross Counts CP5M | CPM | 6.6 pCi/g Ra-226 Reference Soil CPM | Soil Gamma Screening Estimated Ra-226 pCi/g | Soil IL (< or >) | Sample Sent to Lab | Ra-226 pCi/g | Error Estimate pCi/g | MDC pCi/g |
| TP-29 | 6"-12" | 6/7 | 11/7/2023 | 845 | Light brown sandy/silty | 11/8/2023 | 3000 | 1302 | 260 | 541 | 2.2 | < | - | - | - | - |
| TP-30 | 6"-12" | 7 | 11/7/2023 | 901 | Dark brown silty/clay | 11/8/2023 | 3000 | 1367 | 273 | 541 | 2.4 | < | - | - | - | - |
| TP-31 | 6"-12" | 7 | 11/7/2023 | 915 | Light brown sandy/silty | 11/8/2023 | 3000 | 1267 | 253 | 541 | 2.1 | < | - | - | - | - |
| TP-32 | 6"-12" | 7 | 11/2/2023 | 1103 | Brown loamy clay | 11/8/2023 | 3000 | 1278 | 256 | 541 | 2.1 | < | - | - | - | - |
| TP-33 | 6"-12" | 7 | 11/2/2023 | 1255 | Light brown sandy | 11/8/2023 | 3000 | 1419 | 284 | 541 | 2.5 | < | - | - | - | - |
| TP-34 | 6"-12" | 7 | 11/2/2023 | 1245 | Light brown sandy/silty | 11/8/2023 | 3000 | 1332 | 266 | 541 | 2.3 | < | - | - | - | - |
| TP-35 | 0-6" | 1 | 4/15/2024 | 950 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 1774 | 355 | 494 | 3.5 | < | - | - | - | - |
| TP-35 | 6"-12" | 1 | 4/16/2024 | 1050 | Brown silty clay | 4/17/2024 | 3000 | 954 | 191 | 494 | 1.2 | < | - | - | - | - |
| TP-36 | 0-6" | 1 | 4/16/2024 | 840 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 2684 | 537 | 494 | 6.1 | ≈ | - | - | - | - |
| TP-36 | 6"-12" | 1 | 4/16/2024 | 1100 | light brown silty clay w/ grey rocks | 4/17/2024 | 3000 | 4247 | 849 | 494 | 10.4 | > | x | 8.8 | 0.5 | 0.3 |
| TP-36 | 1'-2' | 1 | 4/17/2024 | 1120 | Light brown silty/sandy clay | 4/17/2024 | 3000 | 1352 | 270 | 494 | 2.3 | < | x | 0.7 | 0.2 | 0.2 |
| TP-37 | 0-6" | 1 | 4/16/2024 | 820 | Dark brown silty/sandy clay | 4/17/2024 | 3000 | 1145 | 229 | 494 | 1.7 | < | - | - | - | - |
| TP-37 | 6"-12" | 1 | 4/16/2024 | 1300 | Dark brown clay w/ small rock | 4/17/2024 | 3000 | 1153 | 231 | 494 | 1.8 | < | - | - | - | - |
| TP-38 | 0-6" | 1 | 4/16/2024 | 830 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 2196 | 439 | 494 | 4.7 | < | - | - | - | - |
| TP-38 | 6"-12" | 1 | 4/16/2024 | 1215 | Brown silty/sandy clay w/ roots | 4/17/2024 | 3000 | 1067 | 213 | 494 | 1.5 | < | - | - | - | - |
| TP-39 | 0-6" | 1 | 4/16/2024 | 910 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 4898 | 980 | 494 | 12.3 | > | - | - | - | - |
| TP-39 | 6"-12" | 1 | 4/16/2024 | 1035 | Brown silty clay w/ roots | 4/17/2024 | 3000 | 1505 | 301 | 494 | 2.8 | < | - | - | - | - |
| TP-40 | 0-6" | 1 | 4/15/2024 | 945 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 1106 | 221 | 494 | 1.6 | < | - | - | - | - |
| TP-40 | 6"-12" | 1 | 4/16/2024 | 1250 | Light brown silty/sandy clay | 4/17/2024 | 3000 | 1140 | 228 | 494 | 1.7 | < | - | - | - | - |
| TP-41 | 0-6" | 1 | 4/16/2024 | 845 | Light brown loamy/silty clay | 4/17/2024 | 2800 | 12188 | 2612 | 494 | 35.1 | > | x | 43.5 | 1.1 | 0.5 |
| TP-41 | 6"-12" | 1 | 4/16/2024 | 1115 | Light brown silty clay | 4/17/2024 | 2700 | 1243 | 276 | 494 | 2.4 | < | x | 1.9 | 0.3 | 0.3 |
| TP-42 | 0-6" | 1 | 4/15/2024 | 930 | Light brown loamy/silty clay | 4/17/2024 | 2936 | 1171 | 239 | 494 | 1.9 | < | - | - | - | - |
| TP-42 | 6"-12" | 1 | 4/16/2024 | 1240 | Brown silty/sandy clay | 4/17/2024 | 3000 | 975 | 195 | 494 | 1.3 | < | - | - | - | - |
| TP-43 | 0-6" | 1 | 4/15/2024 | 940 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 1165 | 233 | 494 | 1.8 | < | - | - | - | - |
| TP-43 | 6"-12" | 1 | 4/16/2024 | 1230 | light brown silty clay w/ roots | 4/17/2024 | 3000 | 1101 | 220 | 494 | 1.6 | < | - | - | - | - |
| TP-44 | 0-6" | 1 | 4/15/2024 | 915 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 1224 | 245 | 494 | 2.0 | < | - | - | - | - |
| TP-44 | 6"-12" | 1 | 4/16/2024 | 1125 | Light brown loamy/silty clay | 4/17/2024 | 3000 | 1101 | 220 | 494 | 1.6 | < | - | - | - | - |
| TP-45 | 0-6" | 1 | 4/16/2024 | 850 | Light brown loamy/silty clay | 4/17/2024 | 2700 | 1558 | 346 | 494 | 3.4 | < | - | - | - | - |
| TP-45 | 6"-12" | 1 | 4/16/2024 | 1015 | Brown silty clay | 4/17/2024 | 3000 | 1109 | 222 | 494 | 1.6 | < | - | - | - | - |
| TP-46 | 0-6" | 1 | 4/16/2024 | 900 | Light brown loamy/silty clay w/ grey rock | 4/17/2024 | 3000 | 21504 | 4301 | 494 | 58.7 | > | - | - | - | - |
| TP-46 | 6"-12" | 1 | 4/16/2024 | 1025 | Dark brown silty/clay w/ small rocks | 4/17/2024 | 3000 | 1766 | 353 | 494 | 3.5 | < | x | 2.3 | 0.3 | 0.2 |
| EBP-1 | Surface | East Borrow | 4/30/2024 | 830 | Composite from surface of pile | 4/30/2024 | 3000 | 16930 | 3386 | 533 | 45.9 | > | - | - | - | - |
| EBP-1 | Internal | East Borrow | 4/30/2024 | 853 | Composite from various depths from inside pile | 4/30/2024 | 3000 | 14135 | 2827 | 533 | 38.1 | > | - | - | - | - |

Table 4
Treatment Pond Surface and Subsurface Soil Ra-226 Level Summary

| Data Point ID | Treatment Pond ID | Static Gamma Estimated Ra-226 pCi/g 0-6" (surface) Soil | Ex-Situ Soil Screening Estimated Ra-226 pCi/g | | | |
|---|---|---|---|---|---|---|
| | | | 0-6" Soil (surface) | 6"-12" Soil | 1'-2' Soil | 2'-3' Soil |
| TP-1 | 8 | 4.6 | - | 2.7 | - | - |
| TP-2 | 8 | 1.9 | - | 2.0 | - | - |
| TP-3 | 8 | 5.0 | - | 2.0 | - | - |
| TP-4 | 8 | 1.4 | - | 2.5 | - | - |
| TP-5 | 8 | 1.9 | - | 1.6 | - | - |
| TP-5B | 8 | 12.2 | - | 10.7 | 6.0 | 3.9 |
| TP-6 | 8 | 9.0 | - | 3.1 | - | - |
| TP-7 | 8 | 32.6 | - | 2.7 | - | - |
| TP-8 | 4 | 1.6 | - | 2.3 | - | - |
| TP-9 | 4 | 9.5 | - | 2.3 | - | - |
| TP-10 | 4 | 3.1 | - | 1.8 | - | - |
| TP-11 | 4 | 67.2 | - | 64.4 | 2.6 | - |
| TP-12 | 4 | 6.9 | - | 2.2 | - | - |
| TP-13 | 4 | 38.3 | - | 2.4 | - | - |
| TP-14 | 4 | 14.5 | - | 2.4 | - | - |
| TP-15 | 4 | 4.3 | - | 1.7 | - | - |
| TP-15B | 4 | 52.3 | - | 19.7 | 2.4 | - |
| TP-16 | 4/5 | 1.6 | - | 2.2 | - | - |
| TP-16B | 5 | 47.3 | - | 9.1 | 4.0 | - |
| TP-17 | 5 | 1.6 | - | 2.4 | - | - |
| TP-18 | 5 | 2.8 | - | 1.9 | - | - |
| TP-19 | 5 | 8.8 | - | 2.6 | - | - |
| TP-20 | 5 | 1.5 | - | 1.8 | - | - |
| TP-21 | 5 | 43.0 | - | 22 | 2.6 | - |
| TP-22 | 5 | 17.1 | - | 1.9 | - | - |
| TP-23 | 5/6 | 3.4 | - | 2.2 | - | - |
| TP-24 | 6 | 4.2 | - | 1.9 | - | - |
| TP-25 | 6 | 2.2 | - | 2 | - | - |
| TP-26 | 6 | 23.3 | - | 1.9 | - | - |
| TP-27 | 6 | 2.5 | - | 1.5 | - | - |
| TP-28 | 6 | 22.5 | - | 2.2 | - | - |
| TP-29 | 6/7 | 2.7 | - | 2.2 | - | - |
| TP-30 | 7 | 3.9 | - | 2.4 | - | - |
| TP-31 | 7 | 1.5 | - | 2.1 | - | - |
| TP-32 | 7 | 5.4 | - | 2.1 | - | - |
| TP-33 | 7 | 1.1 | - | 2.5 | - | - |
| TP-34 | 7 | 1.0 | - | 2.3 | - | - |
| TP-35 | 1 | 6.4 | 3.5 | 1.2 | - | - |
| TP-36 | 1 | 26.6 | 6.1 | 10.4 | 2.3 | - |
| TP-37 | 1 | 3.9 | 1.7 | 1.8 | - | - |
| TP-38 | 1 | 7.6 | 4.7 | 1.5 | - | - |
| TP-39 | 1 | 13.0 | 12.3 | 2.8 | - | - |
| TP-40 | 1 | 5.2 | 1.6 | 1.7 | - | - |
| TP-41 | 1 | 46.1 | 35.1 | 2.4 | - | - |
| TP-42 | 1 | 4.6 | 1.9 | 1.3 | - | - |
| TP-43 | 1 | 4.5 | 1.8 | 1.6 | - | - |
| TP-44 | 1 | 5.4 | 2.0 | 1.6 | - | - |
| TP-45 | 1 | 7.6 | 3.4 | 1.6 | - | - |
| TP-46 | 1 | 43.4 | 58.7 | 3.5 | - | - |

Note: Surface Soil Static Gamma Estimated pCi/g levels were estimated from .5" lead collimated detector static gamma measurements.

# Figures




Figure 1
Mt. Taylor Mine Site
Treatment Pond Characterization
Areas and Concrete Structure Locations

**Legend**

- Concrete Structure
- North Controlled Fence
- Treatment Pond Characterization Area

Environmental Services, Inc.




N
W E
S

Environmental Services, Inc.

# Figure 2
# Mt. Taylor Mine Site
# Treatment Ponds Characterzation Area
# Data Point Locations and
# Gamma Survey Data

## Legend

**Estimated Ra-226**

- <1.8 pCi/g
- 1.9 - 6.8 pCi/g
- 6.9 - 10.0 pCi/g
- 10.1 - 20.0 pCi/g
- 20.1 - 30.0 pCi/g
- 30.1 - 40.0 pCi/g
- >40.1 pCi/g
- Data Point
- North Controlled Fence
- Treatment Pond Characterization Area

Note: Ra-226 pCi/g is determined from surface soil gamma radiation scan and static cpm using 2x2 NaI detector and Site specific gamma radiation level (cpm) correlation.




N
W
E
S

AVM Environmental Services, Inc.

# Figure 3
# Mt. Taylor Mine Site
# Treatment Ponds Characterzation Area
# Estimated Depth of Contamination above the 6.8 pCi/g Ra-226 Investigation Level

**Legend**

- Treatment Pond Characterization Area
- Berm Profile above the Ra-226 6.8 pCi/g Investigation Level
- 6 Inch Contamination depth above the Ra-226 6.8 pCi/g Investigation Level
- 1 ft Contamination depth above the Ra-226 6.8 pCi/g Investigation Level
- 1.5 ft Contamination depth above the Ra-226 6.8 pCi/g Investigation Level
- Concrete Structure
- North Controlled Fence

# Appendices

| | |
|---|---|
| Appendix A | Surface and Subsurface Contamination Field Investigation Documentation (Soil Sample Log Forms, Field Soil Sample Ex-Situ Gamma Radiation Screening Forms) |
| Appendix B | Concrete Structure Radiologic Investigation |
| Appendix C | Radiologic Instrument Calibration and Operational Function Check and Collimated Detector Correlation Documentation |
| Appendix D | Soil Sample COC and Laboratory Analytical Results Report |

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**

**Static Gamma Radiation Survey Field Form**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or _____ No.

Survey Area/Unit Decsription Mt Taylor Mine Site Treatment Ponds

| Survey Date/Time | Survey Point ID/Description | Survey Point Coordinate | | Gamma Radiation Reading, CPM | Comments/Notes |
|---|---|---|---|---|---|
| | | Northing | Easting | | |
| 11-13-23 | TP-1 | 1581160.23 | 2782050.33 | 8154 | |
| 11-13-23 | TP-2 | 1581048.51 | 2782082.19 | 6452 | |
| 11-13-23 | TP-3 | 1581053.56 | 2782193.53 | 8391 | |
| 11-13-23 | TP-4 | 1581056.28 | 2781877.80 | 6148 | |
| 11-13-23 | TP-5 | 1581008.60 | 2781973.38 | 6414 | |
| 11-13-23 | TP-5B | 1580937.63 | 2781890.74 | 12872 | |
| 11-13-23 | TP-6 | 1580921.93 | 2782110.62 | 10909 | |
| 11-13-23 | TP-7 | 1580883.33 | 2782045.88 | 25660 | |
| 11-13-23 | TP-8 | 1580701.01 | 2781884.91 | 6271 | |
| 11-13-23 | TP-9 | 1580657.09 | 2781726.59 | 11168 | |
| 11-13-23 | TP-10 | 1580625.66 | 2781846.72 | 7220 | |
| 11-13-23 | TP-11 | 1580609.85 | 2781954.68 | 47231 | |
| 11-13-23 | TP-12 | 1580536.13 | 2781863.94 | 9564 | |
| 11-13-23 | TP-13 | 1580469.14 | 2782022.02 | 29197 | |
| 11-13-23 | TP-14 | 1580448.27 | 2781723.76 | 14340 | |
| 11-13-23 | TP-15 | 1580405.00 | 2781891.33 | 7949 | |
| 11-13-23 | TP-15B | 1580374.22 | 2781811.70 | 37940 | |
| 11-2-23 | TP-16 | 1580347.37 | 2781901.68 | 6253 | |
| 11-2-23 | TP-16B | 1580327.56 | 2781811.01 | 34845 | |
| 11-2-23 | TP-17 | 1580244.30 | 2781736.20 | 6229 | |
| 11-2-23 | TP-18 | 1580226.28 | 2782002.49 | 7005 | |
| 11-2-23 | TP-19 | 1580226.78 | 2782127.17 | 10742 | |
| 11-2-23 | TP-20 | 1580228.47 | 2781915.38 | 6205 | |
| 11-2-23 | TP-21 | 1580207.85 | 2781839.85 | 32143 | |
| 11-2-23 | TP-22 | 1580164.80 | 2781780.30 | 15930 | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**

**Static Gamma Radiation Survey Field Form**

Instrumentation : Scaler/Ratemeter 2221 SN290801, Detector SPA-3 #30
Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓
2"x2" NaI Detector Collimated ✓ Yes or ____ No.
Survey Area/Unit Decsription Mt. Taylor Mine Site Treatment Ponds

| Survey Date/Time | Survey Point ID/Description | Survey Point Coordinate | | Gamma Radiation Reading, CPM | Comments/Notes |
|---|---|---|---|---|---|
| | | Northing | Easting | | |
| 11-2-23 | TP-23 | 1580122.85 | 2781924.41 | 7359 | |
| 11-2-23 | TP-24 | 1580068.98 | 2781799.51 | 7873 | |
| 11-2-23 | TP-25 | 1580062.13 | 2782027.54 | 6629 | |
| 11-2-23 | TP-26 | 1580069.28 | 2781851.47 | 19833 | |
| 11-2-23 | TP-27 | 1580070.01 | 2781925.21 | 6839 | |
| 11-2-23 | TP-28 | 1580057.59 | 2781819.32 | 19305 | |
| 11-2-23 | TP-29 | 1580017.82 | 2781917.62 | 6952 | |
| 11-2-23 | TP-30 | 1579960.47 | 2781880.55 | 7672 | |
| 11-2-23 | TP-31 | 1579960.46 | 2781944.76 | 6195 | |
| 11-2-23 | TP-32 | 1579963.04 | 2781801.01 | 8654 | |
| 11-2-23 | TP-33 | 1579962.22 | 2782025.52 | 5955 | |
| 4-10-24 | TP-34 | 1579905.48 | 2781906.24 | 5895 | |
| 4-10-24 | TP-35 | 1580505.83 | 2782477.73 | 9284 | |
| 4-10-24 | TP-36 | 1580484.67 | 2782620.22 | 21880 | |
| 4-10-24 | TP-37 | 1580439.62 | 2782507.78 | 7677 | |
| 4-10-24 | TP-38 | 1580408.58 | 2782634.69 | 10030 | |
| 4-10-24 | TP-39 | 1580389.39 | 2782406.73 | 13401 | |
| 4-10-24 | TP-40 | 1580369.24 | 2782563.39 | 8484 | |
| 4-10-24 | TP-41 | 1580303.17 | 2782725.85 | 34091 | |
| 4-10-24 | TP-42 | 1580282.42 | 2782639.66 | 8149 | |
| 4-10-24 | TP-43 | 1580242.16 | 2782585.55 | 8081 | |
| 4-10-24 | TP-44 | 1580214.10 | 2782662.94 | 8627 | |
| 4-10-24 | TP-45 | 1580205.92 | 2782535.59 | 10022 | |
| 4-10-24 | TP-46 | 1580316.03 | 2782448.56 | 32407 | |
| | | | | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| TP-32 | 11-2-23 @1103 | 6"-12" | Brown Clay/loamy | |
| TP-24 | 11-2-23 @1115 | 6"-12" | Brow Clay/loamy Roots | |
| TP-28 | 11-2-23 @1125 | 6"-12" | light brown Sandy/Silty Roots | |
| TP-17 | 11-2-23 @1135 | 6"-12" | light brown Sandy/silty Roots | |
| TP-34 | 11-2-23 @1245 | 6"-12" | light brown Sandy/silty Roots | |
| TP-33 | 11-2-23 @1255 | 6"-12" | light brown Sandy Roots | |
| TP-25 | 11-2-23 @1310 | 6"-12" | light brown Sandy Roots | |
| TP-23 | 11-2-23 @1330 | 6"-12" | Brown Silty loam - Small layer of Rock Clay | |
| TP-19 | 11-2-23 @1340 | 6"-12" | light brown hardpack silty Roots | |
| TP-29 | 11-7-23 @845 | 6"-12" | light brown Silty/Sandy Roots | |
| TP-30 | 11-7-23 @901 | 6"-12" | Dark Brown Clay & Silt Sandstone Refusal @ 28" | |
| TP-31 | 11-7-23 @915 | 6"-12" | light brown Silty Sand Sandstone Bed @16" | |
| TP-18 | 11-7-23 @1000 | 6"-12" | light brown silty Sand | |
| TP-20 | 11-7-23 @1010 | 6"-12" | Dark brown Silty/Sand & Clay | |
| TP-21 | 11-7-23 @1025 | 6"-12" | Brown Silty Clay | |

**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| TP-22 | 11-7-23 @1040 | 6"-12" | Light Brown Silty Sand | |
| TP-16B | 11-7-23 @1048 | 6"-12" | Brown hardpack Silty | |
| TP-27 | 11-7-23 @1150 | 6"-12" | light brown Sandy sandstone @1.4' | |
| TP-26 | 11-7-23 @1210 | 6"-12" | Brown Silty/Rock speckled w/ white Soil | |
| TP-16 | 11-7-23 @1225 | 6"-12" | Brown Clay Silty Hard Rock | |
| TP-5b | 11-13-23 @1025 | 6"-12" | Light Grey/ brown silty Sand gravel | |
| TP-4 | 11-13-23 @1115 | 6"-12" | Brown Packed Clay | |
| TP-1 | 11-13-23 @1130 | 6"-12" | light brown/grey-white limestone | plastic debris |
| TP-3 | 11-13-23 @1150 | 6"-12" | Brown Packed Clay | |
| TP-7 | 11-13-23 @1210 | 6"-12" | light brown Silty/loamy Clay | |
| TP-5 | 11-13-23 @1250 | 6"-12" | light brown Sandy | |
| TP-2 | 11-13-23 @1300 | 6"-12" | light brown Sandy | |
| TP-6 | 11-13-23 @1315 | 6"-12" | brown Silty Sand w/stones | |
| TP-8 | 11-13-23 @1330 | 6"-12" | light brown Packed Silt Clay | |
| TP-11 | 11-13-23 @1345 | 6"-12" | light brown/white Silty | |

**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| TP-13 | 11-13-23 @1405 | 6"-12" | light brown Silty Sand | |
| TP-9 | 11-14-23 @755 | 6"-12" | light brown Packed silty Clay | |
| TP-14 | 11-14-23 @810 | 6"-12" | light brown Packed white specks 1" Rock | |
| TP-15B | 11-14-23 @825 | 6"-12" | Brown silty w/ cobble | |
| TP-15 | 11-14-23 @835 | 6"-12" | light brown Sandy | |
| TP-12 | 11-14-23 @850 | 6"-12" | light brown packed silty Dark brown Clay | |
| TP-10 | 11-14-23 @900 | 6"-12" | Brown Silty loamy moist | |
| TP-5B | 11-14-23 @920 | 2'-3.0' | Grey Rocky | |
| TP-5B | 11-14-23 @930 | 3'-3.5' | light brown Silty | |
| TP-11 | 11-16-23 @1105 | 1.5'-2' | light brown Packed Clay | |
| TP-11 | 11-16-23 @1112 | 2'-2.5' | light brown Packed Clay | |
| TP-15B | 11-16-23 @1135 | 1'-1.5' | light brown Sandy | |
| TP-16B | 11-16-23 @1150 | 1'-1.5' | brown Hard pack Clay | |
| TP-21 | 11-16-23 @1205 | 1'-1.5' | brown Silty Clay | |
| | | | | |

**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| TP-44 | 4-15-24 915 | 0-6" | light brown loam/silt/clay | |
| TP-42 | 4-15-24 930 | 0-6" | " | |
| TP-43 | 4-15-24 940 | 0-6" | " | |
| TP-40 | 4-15-24 945 | 0-6" | " | |
| TP-35 | 4-15-24 950 | 0-6" | " | |
| TP-37 | 4-16-24 820 | 0-6" | Dark brown / Sandy / silty clay | |
| TP-38 | 4-16-24 830 | 0-6" | light brown loam/silt clay | |
| TP-36 | 4-16 24 840 | 0-6" | " | |
| TP-41 | 4-16-24 845 | 0-6" | " | |
| TP-45 | 4-16-24 850 | 0-6" | " | |
| TP-46 | 4-16-24 900 | 0-6" | " Slight grey. | |
| TP-~~4~~VP39 | 4-16 24 910 | 0-6" | " | |
| TP-45 | 4-16-24 1015 | 6"-12" | Brown silty clay | |
| TP-46 | 4-16 24 1025 | 6"-12" | Dark brown Silty clay w/ Rocks | |
| TP-39 | 4-16 24 1035 | 6"-12" | Brown silty clay Roots | |

**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| TP-35 | 4-16-24 1050 | 6"-12" | Brown Silt, Clay | |
| TP-36 | 4-16-24 1100 | 6"-12" | light brown Silty Clay hardpack Grey Rocks | |
| TP-41 | 4-16-24 1115 | 6"-12" | light brown Silty Clay | |
| TP-44 | 4-16-24 1125 | 6"-12" | light brown loamy/silty Clay | |
| TP-38 | 4-16-24 1215 | 6"-12" | Brown silty/Sandy Clay Roots | |
| TP-43 | 4-16-24 1230 | 6"-12" | light brown silty/sand clay Roots | |
| TP-42 | 4-16-24 1240 | 6"-12" | Brown Silty/Sand Clay | |
| TP-40 | 4-16-24 1250 | 6"-12" | light brown Silty Sand Clay | |
| TP-37 | 4-16-24 1300 | 6"-12" | Dark Brown Clay w Stones 3/4" | |
| TP-36 | 4-17-24 1120 | 1'-2' | light brown Sandy-Silty Clay hard rock | |
| TP-36 | 4-17-24 1130 | 2'-3' | " " Not hard rock | |
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**AVM Environmental Services, Inc.**
**Subsurface Soil Sample Log Form**
**Mt. Taylor Mine Site**

| Sample ID | Sample Date/Time | Sample Depth | Sample Description | Comments/Notes |
|---|---|---|---|---|
| EBP-1 Surface | 4-30-24 830 | 0-6" | Composite Sample from surface of pile | grey material present |
| EBP-1 Internal | 4-30-24 853 | Various | Composite Sample from various depths inside of pile | " |
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**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter L2221 S#68782, Detector 44-20 S# 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: Y
Survey Area/Unit Decsription Mt. Taylor Mine Site

Area exposure rate: 10-12 uR/hr

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 11-8-23 | Blank | - | 314 | | 63 | | |
| 11-8-23 | 66 pCi/g Ra-226 Ref Soil | 3000 | 2707 | | 541 | | |
| 11-8-23 | TP-32 6"-12" 11-2-23 @1103 | 3000 | 1278 | | 256 | | |
| 11-8-23 | TP-24 6"-12" 11-2-23 @1115 | 3000 | 1218 | | 244 | | |
| 11-8-23 | TP-28 6"-12" 11-2-23 @1125 | 3000 | 1305 | | 261 | | |
| 11-8-23 | TP-17 6"-12" 11-2-23 @1135 | 3000 | 1373 | | 275 | | |
| 11-8-23 | TP-34 6"-12" 11-2-23 @1245 | 3000 | 1332 | | 266 | | |
| 11-8-23 | TP-33 6"-12" 11-2-23 @1255 | 3000 | 1419 | | 284 | | |
| 11-8-23 | TP-25 6"-12" 11-2-23 @1310 | 3000 | 1291 | | 258 | | |
| 11-8-23 | TP-23 6"-12" 11-2-23 @1330 | 3000 | 1314 | | 263 | | |
| 11-8-23 | TP-19 6"-12" 11-2-23 @1340 | 3000 | 1463 | | 293 | | QA/QC 5 min: 1423 |
| 11-8-23 | TP-29 6"-12" 11-7-23 @845 | 3000 | 1302 | | 260 | | |
| 11-8-23 | TP-30 6"-12" 11-7-23 @901 | 3000 | 1367 | | 273 | | |
| 11-8-23 | TP-31 6"-12" 11-7-23 @915 | 3000 | 1267 | | 253 | | |
| 11-8-23 | TP-18 6"-12" 11-7-23 @1000 | 3000 | 1191 | | 238 | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter L2221 SN 68782, Detector 44-20 SN 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: Y
Survey Area/Unit Decsription Mt. Taylor Mine Site

Area exposure rate: 10-12 uR/hr

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 11-8-23 | TP-20 6"-12" 11-7-23 @ 1010 | 3000 | 1164 | | 233 | | |
| 11-8-23 | TP-21 6"-12" 11-7-23 @ 1025 | 2716 | 7571 | 8363 | 1673 | | |
| 11-8-23 | TP-22 6"-12" 11-7-23 @ 1040 | 3000 | 1186 | | 237 | | |
| 11-8-23 | TP-16B 6"-12" 11-7-23 @ 1048 | 3000 | 3782 | | 756 | | |
| 11-8-23 | TP-27 6"-12" 11-7-23 @ 1150 | 3000 | 1053 | | 211 | | QA/QC cpsmin = 1052 |
| 11-8-23 | TP-26 6"-12" 11-7-23 @ 1210 | 3000 | 1213 | | 243 | | |
| 11-8-23 | TP-16 6"-12" 11-7-23 @ 1225 | 3000 | 1321 | | 264 | | |
| 11-16-23 | Blank | - | 335 | | 67 | | |
| ~~11-16-23~~ | ~~6.6 pCi/g Ref Soil~~ | ~~3000~~ | ~~335~~ | | ~~67~~ | | |
| 11-16-23 | 6.6 pCi/g Ref Soil | 3000 | 2479 | | 488 | | |
| 11-16-23 | TP-5B 6"-12" 11-13-23 @ 1025 | 3000 | 4353 | | 871 | | |
| 11-16-23 | TP-4 6"-12" 11-13-23 @ 1115 | 3000 | 1410 | | 282 | | |
| 11-16-23 | TP-1 6"-12" 11-13-23 @ 1130 | 3000 | 1481 | | 296 | | |
| 11-16-23 | TP-3 6"-12" 11-13-23 @ 1150 | 3000 | 1242 | | 248 | | |
| 11-16-23 | TP-7 6"-12" 11-13-23 @ 1210 | 3000 | 1478 | | 296 | | |

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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter L2221 S#68782, Detector 44-20 S# 295523
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: Y
Survey Area/Unit Decsription Mt. Taylor Mine Site

Area exposure rate: 10-12 uR/hr

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CPSM | Weight Corrected CPSM | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 11-16-23 | TP-5 6"-12" 11-13-23 @ 1250 | 3000 | 1102 | | 220 | | |
| 11-16-23 | TP-2 6"-12" 11-13-23 @ 1300 | 3000 | 1227 | | 245 | | |
| 11-16-23 | TP-6 6"-12" 11-13-23 @ 1315 | 3000 | 1643 | | 329 | | |
| 11-16-23 | TP-8 6"-12" 11-13-23 @ 1330 | 3000 | 1341 | | 268 | | |
| 11-16 23 | TP-11 6"-12" 11-13-23 @ 1345 | 3000 | 23511 | | 4702 | | avac CPSM: 23785 |
| 11-16-23 | TP-13 6"-12" 11-13-23 @ 1405 | 3000 | 1389 | | 278 | | |
| 11-16 23 | TP-9 6"-12" 11-~~13~~-23 @ ~~810~~ 755 | 3000 | 1361 | | 272 | | |
| 11-16-23 | TP-14 6"-12" 11-14-23 @ 810 | 3000 | 1388 | | 278 | | |
| 11-16-23 | TP-15B 6"-12" 11-14-23 @ 825 | 3000 | 7551 | | 1510 | | |
| 11-16-23 | TP-15 6"-12" 11-14-23 @ 835 | 3000 | 1120 | | 224 | | |
| 11-16-23 | TP-12 6"-12" 11-14-23 @ 850 | 3000 | 1320 | | 264 | | |
| 11-16-23 | TP-10 6"-12" 11-14-23 @ 900 | 3000 | 1153 | | 231 | | |
| 11-16-23 | TP-5B 2'-3' 11-14-23 @ 920 | 3000 | 1928 | | 386 | | |
| 11-16-23 | TP-5B 3'-3.5' 11-14-23 @ 930 | 3000 | 1251 | | 250 | | |
| 11-16-23 | TP-11 1.5'-2' 11-16-23 @ 1105 | 3000 | 1439 | | 288 | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter L2221 S# 68782, Detector 44-20 S# 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: ✓
Survey Area/Unit Decsription Mt. Taylor Mine Site

Area exposure rate: 10-12

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 11-16-23 | TP-15B 1'-1.5' 11-16-23 @1135 | 3000 | 1362 | | 272 | | |
| 11-16 23 | TP-16B 1'-1.5' 11-16 23 @1150 | 3000 | 1960 | | 392 | | |
| 11-16-23 | TP-21 1'-1.5' 11-16-23 @1205 | 3000 | 1440 | | 288 | | |
| 11-16-23 | TP-5B 1.5'-2.0' 11-14-23 @915 | 3000 | 2676 | | 535 | | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter L2221 S# 63782, Detector 44-20 S# 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: Y
Survey Area/Unit Decsription Mt. Taylor mine site

Area exposure rate: 10.12

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 4-17-24 | Blank | | 310 | | 62 | | |
| 4-17-24 | 6.6 pCi/g Ra-226 Ref Soil | 3000 | 2468 | | 494 | | |
| 4-17-24 | TP-45 6"-12" 4-16-24 @ 1015 | 3000 | 1109 | | 222 | | |
| 4-17-24 | TP-46 6"-12" 4-16-24 @ 1025 | 3000 | 1766 | | 353 | | |
| 4-17-24 | TP-39 6"-12" 4-16-24 @ 1035 | 3000 | 1505 | | 301 | | |
| 4-17-24 | TP-36 6"-12" 4-16-24 @ 1100 | 3000 | 4247 | | 849 | | |
| 4-17-24 | TP-41 6"-12" 4-16-24 @ 1115 | 2700 | 1243 | 1381 | 276 | | |
| 4-17-24 | TP-44 6"-12" 4-16-24 @ 1125 | 3000 | 1101 | | 220 | | |
| 4-17-24 | TP-38 6"-12" 4-16-24 @ 1215 | 3000 | 1067 | | 213 | | |
| 4-17-24 | TP-42 6"-12" 4-16-24 @ 1240 | 3000 | 975 | | 195 | | |
| 4-17-24 | TP-40 6"-12" 4-16-24 @ 1250 | 3000 | 1140 | | 228 | | |
| 4-17-24 | TP-37 6"-12" 4-16-24 @ 1300 | 3000 | 1153 | | 231 | | QA/QC CP5M: 1101 |
| 4-17-24 | TP-35 6"-12" 4-16-24 @ 1050 | 3000 | 954 | | 191 | | |
| 4-17-24 | TP-43 6"-12" 4-16-24 @ 1230 | 3000 | 1101 | | 220 | | |
| 4-17-24 | TP-44 0-6" 4-15-24 @ 915 | 3000 | 1224 | | 245 | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter Ludlum 2221 S#68782, Detector 44-20 S# 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: ✓
Survey Area/Unit Decsription Mt. Taylor mine Site

Area exposure rate: 10-12

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 4-17-24 | TP-42 0-6" 4-15-24 @ 930 | 2936 | 1171 | 1197 | 239 | | |
| 4-17-24 | TP-43 0-6" 4-15-24 @ 940 | 3000 | 1165 | | 233 | | |
| 4-17-24 | TP-40 0-6" 4-15-24 @ 945 | 3000 | 1106 | | 221 | | |
| 4-17-24 | TP-35 0-6" 4-15-24 @ 950 | 3000 | 1774 | | 355 | | |
| 4-17-24 | TP-37 0-6" 4-16-24 @ 820 | 3000 | 1145 | | 229 | | |
| 4-17-24 | TP-38 0-6" 4-16-24 @ 830 | 3000 | 2196 | | 439 | | |
| 4-17-24 | TP-36 0-6" 4-16-24 @ 840 | 3000 | 2684 | | 537 | | QA/QC CP5M: 2673 |
| 4-17-24 | TP-41 0-6" 4-16-24 @ 845 | 2800 | 12188 | 13059 | 2612 | | |
| 4-17-24 | TP-45 0-6" 4-16-24 @ 850 | 2700 | 1558 | 1731 | 346 | | |
| 4-17-24 | TP-46 0-6" 4-16-24 @ 900 | 3000 | 21504 | | 4301 | | |
| 4-17-24 | TP-39 0-6" 4-16-24 @ 910 | 3000 | 4898 | | 980 | | |
| 4-17-24 | TP-36 1'-2' 4-17-24 @ 1120 | 3000 | 1352 | | 270 | | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

Instrumentation : Scaler/Ratemeter 2221 S#68782, Detector 44-20 S# 295573
Instrument Calibration Date: 5-10-23, Instrument Function Check Performed: Y
Survey Area/Unit Decsription Mt. Taylor Mine Site

Area exposure rate: 10-12 uR/hr.

| Date | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 4-30-24 | Blank | — | 327 | | 65 | | |
| 4-30-24 | 6.6 pC/g Ra-226 | 3000 | 2663 | | 533 | | |
| 4-30-24 | EBP-1 Surface 4-30-24 @830 | 3000 | 16930 | | 3386 | | |
| 4-30-24 | EBP-1 Internal 4-30-24 @853 | 3000 | 14135 | | 2827 | | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Road 4/5 CS-1 Ra-226 6.8pCi/g ILT 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-1 East inside wall | 7970 | |
| " | CS-1 South East wall | 30312 | |
| " | CS-1 West inside wall | 9022 | |
| " | CS-1 South west wall | 13633 | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801 Detector SPA-3 #30

Instrument Calibration Date: 2-19-24 Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Description Treatment Pond 5 CS-2 Ra-226 6.8 pCi/L ≈ 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-2 ~~West~~ North wall | 10559 | |
| " | CS-2 West wall | 11509 | |
| " | CS-2 West Wall Divider | 12688 | |
| " | CS-2 West wall | 7355 | |
| " | CS-2 South wall | 8901 | |
| " | CS-2 base North | 17024 | Sediments |
| " | CS-2 base South | 18844 | |
| | | | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 6 CS-3 Ra-226 6.8 pCi/g 1L = 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-3 South wall | 13081 | |
| " | CS-3 South base | 14425 | |
| " | CS-3 North base | 34721 | Elevated gamma readings around Structure 2 103000 |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond to CS-4 Ra-226 6.8 pCi/g 12 ≈ 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-4 North upper box top | 7155 | |
| " | CS-4 East upper box top | 6952 | |
| " | CS-4 South upper box top | 6938 | |
| " | CS-4 West upper box top | 10395 | |
| " | CS-4 North lower box Top | 8988 | |
| " | CS-4 west lower box top | 15543 | |
| " | CS-4 South lower box top | 9062 | |
| " | CS-4 North lower box wall | 26459 | |
| " | CS-4 West lower box wall | 39452 | |
| " | CS-4 South lower box wall | 39466 | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 6 CS-4 Ra-226 6.8 pCi/gIL = 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-4 East lower box wall | 23780 | |
| 11 | CS-4 Lower box base | 14800 | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter 12221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 6 CS-5 Ra-226 6.8 pCi/g 1L ≈ 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-5 South upper box top | 6281 | |
| " | CS-5 North upper box top | 5938 | |
| " | CS-5 East lower box top | 6477 | |
| " | CS-5 West lower box top | 6762 | |
| " | CS-5 North lower box top | 7119 | |
| " | CS-5 North lower box inside wall | 6806 | |
| " | CS-5 East lower box inside wall | 6426 | |
| " | CS-5 South lower box inside wall | 6122 | |
| " | CS-5 West lower box inside wall | 7241 | |
| | | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 SN290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 6/7 CS-6 Ra-226 6.8pCi/g ILTE 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-6 South/East Top | 5762 | |
| " | CS-6 South/East inside wall | 5711 | |
| " | CS-6 East inside wall | 5590 | |
| " | CS-6 North/East inside wall | 5838 | |
| " | CS-6 Middle base | 6702 | |
| " | CS-6 South base | 7255 | |
| " | CS-6 South/west inside wall | 6004 | |
| " | CS-6 West inside wall | 6542 | |
| " | CS-6 North/west inside wall | 7271 | |
| | | | |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pad 7 CS-7 Ra-226 6.8pCi/g IL # 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-7 North West box top | 11804 | |
| " | CS-7 North East box top | 10611 | |
| " | CS-7 East box top | 11861 | |
| " | CS-7 South box top | 10354 | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 7 CS-8 Ra-226 6.8 pC/g ILT 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-8 box base | 31092 | |
| " | CS-8 North inside wall | 20294 | |
| " | CS-8 South inside wall | 15894 | |
| " | CS-8 ~~South~~ North wall | 22039 | |
| " | CS-8 ~~South~~ North base | 29815 | |
| " | CS-8 South wall | 14452 | |
| " | CS-8 South base | 14080 | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S# 290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 7 CS-9 Ra-226 6.8 pCi/g ILR ≈ 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-9 North upper box Top | 6342 | |
| 4-22-24 | CS-9 East upper box Top | 6099 | |
| " | CS-9 South upper box ~~wall~~ Top | 6891 | |
| " | CS-9 West upper box Top | 8801 | |
| " | CS-9 North lower box Top | 9122 | |
| " | CS-9 North lower box inside wall | 27352 | |
| " | CS-9 West lower box Top | 15852 | |
| " | CS-9 West lower box inside wall | 45633 | |
| " | CS-9 South lower box Top | 10558 | |
| " | CS-9 lower box base of Sump | 20500 | mine residue / soil |

Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Structures**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Treatment Pond 1 CS-10 Ra-226 6.8 pCi/g, IL = 7200

| Survey Date/Time | Survey Area ID/Description | Gamma Radiation Reading CPM | Comments/Notes |
|---|---|---|---|
| 4-22-24 | CS-10 North/East wall | 25471 | |
| " | CS-10 North/West wall | 13104 | |
| " | CS-10 North base | 13052 | |
| " | CS-10 Sump base | 90000 | mine residue / soil |
| " | CS-10 South/East wall | 16022 | |
| " | CS-10 South/West wall | 9408 | |
| " | CS-10 South base | 10272 | |
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Technician Signature _____, Reviewed by _____

**AVM Environmental Services, Inc.**
**Scaler/Ratemeter - 2" x 2" NaI Detector Function Check**

Function Check Source ID: 1% $U_3O_8$ Ore in Sealed can

2" x 2" NaI Detector ID: SPA-3 S#408522-30

Acceptable background Count (cpm) Range (20%) 6524 to 9786 (Bare)

Acceptable background Count (cpm) Range (20%) 2537 to 3805 (collimated)

Acceptable Source Count (cpm) Range (20%) 77104 to 115656

| Date | Scaler/Ratemeter | Physical Check | Cal Due | Battery[1] Volts or OK | HV Volts | THR mV[2] | Window In or OUT[3] | C.C.[4] | BKG Counts cpm | Source Counrts cpm | Within Acceptable Range Y or N | MDC pCi/gm | Tech |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-19-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8351 Bare<br>3120 Coll. | 96758 | y | – | VP |
| 4-7-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8272 Bare<br>3110 Coll. | 97815 | y | – | VP |
| 4-8-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8249 Bare<br>3095 Coll. | 96288 | y | – | VP |
| 4-10-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8440 Bare<br>3065 Coll. | 96064 | y | – | VP |
| 4-15-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8345 Bare<br>3119 Coll. | 97475 | y | – | VP |
| 4-16-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8411 Bare<br>3124 Coll. | 96227 | y | – | VP |
| 4-17-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8401 Bare<br>3193 Coll. | 97111 | y | – | VP |
| 4-22-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8093 Bare<br>3194 Coll. | 96431 | y | – | VP |
| 4-23-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8205 Bare<br>3092 Coll. | 95968 | y | – | VP |
| 4-30-24 | L2221 S#290801 | ✓ | 2-19-25 | ok | 900 | 10 | out | 1 | 8264 Bare<br>3263 Coll. | 96356 | y | – | VP |
| | | | | | | | | | Bare<br>Coll. | | | | |
| | | | | | | | | | Bare<br>Coll. | | | | |
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| | | | | | | | | | Bare<br>Coll. | | | | |

Note: (1) Battery Voltage for Ludlum 2221 must be >5.3 volts; (2) Threshhold must be at 10.0 mV; (3) Window Position must be OUT; (4) CC on L2241-2 set at 0.001
For L2241-2 Check HV and Threshold using Ludlum 500 pulser.

**AVM Environmental Services, Inc.**
**Scaler/Ratemeter - 2" x 2" NaI Detector Function Check**

Function Check Source ID: 1% $U_3O_8$ Ore in Sealed can

2" x 2" NaI Detector ID: SPA-3 S#408522-30

Acceptable background Count (cpm) Range (20%) 6391 to 9587 (Bare)

Acceptable background Count (cpm) Range (20%) 2546 to 3820 (collimated)

Acceptable Source Count (cpm) Range (20%) 77687 to 116531

| Date | Scaler/Ratemeter | Physical Check | Cal Due | Battery[1] Volts or OK | HV Volts | THR mV[2] | Window In or OUT[3] | C.C.[4] | BKG Counts cpm | Source Counrts cpm | Within Acceptable Range Y or N | MDC pCi/gm | Tech |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-17-23 | L2221 S#240801 | ✓ | 5-15-24 | 6.0 | 900 | 10 | out | 1 | 7978 Bare / 3024 Coll. | 97941 | Y | – | VP |
| 10-18-23 | L2221 S#240801 | ✓ | 5-15-24 | OK | 900 | 10 | out | 1 | 7874 Bare / 2931 Coll. | 98494 | Y | – | VP |
| 10-25-23 | L2221 S#240801 | ✓ | 5-14-24 | ok | 900 | 10 | Out | 1 | 7950 Bare / 2916 Coll. | 98651 | Y | – | VP |
| 11-1-23 | L2221 S#240801 | ✓ | 5-14-24 | ok | 900 | 10 | out | 1 | 7824 Bare / 3111 Coll. | 99371 | Y | – | VP |
| 11-2-23 | L2221 S#240801 | ✓ | 5-14-24 | OK | 900 | 10 | out | 1 | 7980 Bare / 2910 Coll. | 98416 | Y | – | VP |
| 11-7-23 | L2221 S#240801 | ✓ | 5-14-24 | ok | 900 | 10 | out | 1 | 7901 Bare / 3090 Coll. | 97213 | Y | – | VP |
| 11-13-23 | L2221 S#240801 | ✓ | 5-14-24 | ok | 900 | 10 | out | 1 | 7880 Bare / 2974 Coll. | 97008 | Y | – | VP |
| 11-20-23 | L2221 S#240801 | ✓ | 5-14-24 | OK | 900 | 10 | out | 1 | 7811 Bare / 2840 Coll. | 96911 | Y | – | VP |
| | | | | | | | | | Bare / Coll. | | | | |
| | | | | | | | | | Bare / Coll. | | | | |
| | | | | | | | | | Bare / Coll. | | | | |
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| | | | | | | | | | Bare / Coll. | | | | |

Note: (1) Battery Voltage for Ludlum 2221 must be >5.3 volts; (2) Threshhold must be at 10.0 mV; (3) Window Position must be OUT; (4) CC on L2241-2 set at 0.001
For L2241-2 Check HV and Threshold using Ludlum 500 pulser.

**AVM Environmental Services, Inc.**
**Micro R Meter Function Check Form**

Micro R Meter: Ludlum 19, SR#76248

Function Check Source ID: 1% $U_3O_8$ Ore in Sealed can

Function Check @ Calibration 135

Acceptable Function Check Reading (uR/hr) Range (20%) 108 to 162

| Date | Physical Check | Cal Date | Battery(1) Volts or OK | BKG Reading uR/hr | Source Reading (2) uR/hr | Within Acceptable Range Y or N | Cal Due | Tech |
|---|---|---|---|---|---|---|---|---|
| 11-13-23 | ✓ | 11-3-23 | ok | 10-12 | 130 | y | 11-3-24 | VP |
| 4-7-24 | ✓ | 11-3-23 | ok | 10-12 | 140 | y | 11-3-24 | VP |
| 4-8-24 | ✓ | 11-3-23 | ok | 10-12 | 140 | y | 11-3-24 | VP |
| 4-10-24 | ✓ | 11-3-23 | ok | 10-12 | 130 | y | 11-3-24 | VP |
| 4-15-24 | ✓ | 11-3-23 | ok | 10-12 | 130 | y | 11-3-24 | VP |
| 4-16-24 | ✓ | 11-3-23 | ok | 10-12 | 140 | y | 11-3-24 | VP |
| 4-17-24 | ✓ | 11-3-23 | ok | 10-12 | 140 | y | 11-3-24 | VP |
| 4-22-24 | ✓ | 11-3-23 | ok | 10-12 | 130 | y | 11-3-24 | VP |
| 4-23-24 | ✓ | 11-3-23 | ok | 10-12 | 130 | y | 11-3-24 | VP |
| 4-30-24 | ✓ | 11-3-23 | ok | 10-12 | 140 | y | 11-3-24 | VP |
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Note: (1) Battery Voltage must be within BAT TEST Range (2) Function Check Source must be placed in the circle on the front side of the meter

**AVM Environmental Services, Inc.**
**Ludlum SCA L2221 - 44-20 3x3 NaI Detector Function Check**
**559 - 659 KeV Gamma Radiation Soil Screening**

L2221 #290801

Ludlum 44-20 3x3 NaI Detector, #PR295573

Function Check Source ID: 1% $U_3O_8$ Ore in Sealed can

Acceptable background Count (cpm) Range (20%) 53 to 79

Acceptable Source Count (cpm) Range (20%) 12557 to 18835

| Date | Physical Check | Cal Date | Battery[1] Volts or OK | HV Volts | Threshhold mV [2] | Window mV | Window In/Out | BKG Counts cpm | Source Counrts cpm | Within Acceptable Range Y or N | MDC pCi/gm | Tech |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-17-23 | ✓ | 5-10-23 | ✓ | 577 | 559 | 100 | in | 70 | 16805 | Y | — | VP |
| 5-18-23 | ✓ | 5-10-23 | ✓ | 578 | 559 | 100 | in | 66 | 16200 | Y | — | VP |
| 5-22-23 | ✓ | 5-10-23 | ✓ | 582 | 559 | 100 | in | 68 | 15900 | Y | — | VP |
| 5-23-23 | ✓ | 5-10-23 | ✓ | 582 | 559 | 100 | in | 71 | 15508 | Y | — | VP |
| 5-25-23 | ✓ | 5-10-23 | ✓ | 578 | 559 | 100 | in | 73 | 16253 | Y | — | VP |
| 5-30-23 | ✓ | 5-10-23 | ✓ | 577 | 559 | 100 | in | 72 | 16101 | Y | — | VP |
| 5-31-23 | ✓ | 5-10-23 | ✓ | 575 | 559 | 100 | in | 64 | 15789 | Y | | VP |
| 6-1-23 | ✓ | 5-10-23 | ✓ | 577 | 559 | 100 | in | 71 | 16224 | Y | — | VP |
| 11-8-23 | ✓ | 5-10-23 | ✓ | 576 | 559 | 100 | in | 60 | 16170 | Y | — | VP |
| 11-16-23 | ✓ | 5-10-23 | ✓ | 577 | 559 | 100 | in | 68 | 15327 | Y | — | VP |
| 4-17-24 | ✓ | 5-10-23 | ✓ | 578 | 559 | 100 | in | 74 | 15518 | Y | — | VP |
| 4-30-24 | ✓ | 5-10-23 | ✓ | 577 | 559 | 100 | in | 69 | 16122 | Y | — | VP |
| | | | | | | | | | | | | |
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Note: (1) Battery Voltage for Ludlum 2221 must be >5.3 volts; (2) Threshhold must be at 220 mV; (3) Window @ 440, must be IN

**AVM Environmental Services Inc.**
**Scaler/Ratemeter - Detector Calibration Form**



Scaler/Ratemeter: L2221 S# 290801
Detector: SPA-3 S# 408522-30

Source: U308 ore in can S# FC-2 Strength 1%

Scaler/Ratemeter Threshhold set @ 10 mV, Window IN/OUT Out, Window N/A mV

| HV | Reading, CPM (Source) | Reading, CPM (Background) |
|---|---|---|
| 500 | 17200 | 470 |
| 550 | 37012 | 738 |
| 600 | 57214 | 998 |
| 650 | 71774 | 1379 |
| 700 | 84865 | 1633 |
| 750 | 93899 | 1765 |
| 800 | 95561 | 1837 |
| 850 | 96093 | 1895 |
| 900 | 97180 | 2012 |
| 950 | 97636 | 2018 |
| 1000 | 100155 | 2037 |
| 1050 | 113726 | 2090 |
| 1100 | 133647 | 2249 |
| 1150 | 161780 | 2497 |
| 1200 | 199910 | 3198 |
| 1250 | | |
| 1300 | | |
| 1350 | | |
| 1400 | | |

**Background reading at designated function check location in AVM office.**

| Count # | Reading (CPM) Bare | Collimated |
|---|---|---|
| 1 | 8139 | 3129 |
| 2 | 8284 | 3144 |
| 3 | 8301 | 3004 |
| 4 | 8107 | 3170 |
| 5 | 8155 | 3171 |
| Average | 8197 | 3124 |

FC Range (6524-9786) (2537-3805)

**Count Readings with 1 percent $U_3O_8$ can directly under collimated detector on designated function check location in AVM office.**

| Count # | Reading (CPM) |
|---|---|
| 1 | 96354 |
| 2 | 95928 |
| 3 | 96716 |
| 4 | 96662 |
| 5 | 96241 |
| Average | 96380 |

HV Set @ 900 VDC (Instrument) 900 VDC (DVM Fluke 8020B)

Input Sensitivity (THR), mV 10

Function Check with 1 percent $U_3O_8$ ore in can. Can Directly under the detector in the collimator.
Acceptable Function check range is 77104 to 115656 CPM

**Notes:**

Date 2-19-24 By

**AVM Environmental Services Inc.**
**Scaler/Ratemeter - Detector Calibration Form**



Scaler/Ratemeter LZ221 S# 290801
Detector SPA-3 S# 408522-30

Source U308 ore in can S# FC-2 Strength 1%

Scaler/Ratemeter Threshhold set @ 10 mV, Window IN/OUT out, Window N/A mV

HV Set @ 900 VDC (Instrument) 900 VDC (DVM Fluke 8020B)

**Count Readings for Calibration Pad GPB (0.0 ± 0.3 pCi/gm Ra-226)**

| | Bare (Uncollimated) @ 1' | | Collimated @ 1' | |
|---|---|---|---|---|
| #1 | 11498 | cpm | 2766 | cpm |
| #2 | 11820 | cpm | 2839 | cpm |
| #3 | 11614 | cpm | 2849 | cpm |
| #4 | 11823 | cpm | 2833 | cpm |
| #5 | 11777 | cpm | 2772 | cpm |
| BKG Average | 11706 | cpm | 2812 | cpm |

**Count Readings for Calibration Pad GPL (87.78 pCi/gm Ra-226)**

| | Bare (Uncollimated) @ 1' | | Collimated @ 1' | |
|---|---|---|---|---|
| #1 | 90635 | cpm | 53328 | cpm |
| #2 | 90696 | cpm | 53884 | cpm |
| #3 | 90626 | cpm | 53443 | cpm |
| #4 | 90778 | cpm | 54004 | cpm |
| #5 | 91414 | cpm | 53996 | cpm |
| Gross Average | 90830 | cpm | 53731 | cpm |
| Net Source Pad | 79123 | cpm | 50919 | cpm |
| Eff(net cpm/87.78 pCi/gm | 901 | cpm/pCi/gm | 580 | cpm/pCi/gm |

**µR/hr Reading for Calibration Pad GPL (87.78 pCi/gm Ra-226)**

Ludlum Model 19 serial # 76248

Reading @ 1' 115 µR/hr
1.27E-03 µR/hr/cpm

Date 2-19-24 By

**AVM Environmental Services Inc.**

**Scaler/Ratemeter Calibration Form**

Model : L2221 S/N: 68782

Reference Instrument/Source: Ludlum Pulser 500, S/N:114513

**HV Calibration**

HV Test (2 points): Ref/Inst 600/600 Ref/Inst 900/900

**Ratemeter Calibration**

Instrument Threshold @ 100 (10 mV), WIN: Out, HV 900VDC; Pulser Threshold @ 200 (20mV)

| Range/Mode | Range Multiplier | Calibration Point (Pulser Setting) cpm x multiplier | Target CPM (±5%) | As Found Reading | | Left or Set Reading |
|---|---|---|---|---|---|---|
| Ratemeter | x1 | 40x1 | 38-42 | 40 | | 40 |
| | x1 | 40x10 | 380-420 | 397 | | 397 |
| | x10 | 40x100 | 3800-4200 | 3996 | | 3996 |
| | x100 | 40x1K | 38K-42K | 39948 | | 39948 |
| | x1K | 40x10K | 380K-420K | 400751 | | 400751 |
| Digital Ratemeter | - | 40x1 | 38-42 | 39-40 | | 39-40 |
| | - | 40x10 | 380-420 | 392-401 | | 392-401 |
| | - | 40x100 | 3800-4200 | 3996-4005 | | 3996-4005 |
| | - | 40x1K | 38K-42K | 39K-40K | | 39K-40K |
| | - | 40x10K | 380K-420K | 400K | | 400K |
| | | | | | | |

**Threshold/Gain Calibration**

WIN OUT

| Pulser Amplitude (mV) | Pulser CPM | | L2221 Theshold (mv) | Target CPM | L2221 CPM Found | | L2221 CPM Left or Set @ |
|---|---|---|---|---|---|---|---|
| 10.0 | 40000 | | 100 (10 mV) | 27K -33K | 31255 | | 31255 |
| 20.0 | 40000 | | 200 (20 mV) | 27K -33K | 30801 | | 30801 |
| 30.0 | 40000 | | 300 (30 mV) | 27K -33K | 30951 | | 30951 |
| 40.0 | 40000 | | 400 (40 mV) | 27K -33K | 29579 | | 29579 |
| 50.0 | 40000 | | 500 (50 mV) | 27K -33K | 31042 | | 31042 |

Note: Use R174 Gain Control on Power Supply Board to adjust L2221 CPM @75% for Threshold/Gain Calibration

**Window Cut-off Points Check**

L2221 Threshold set @100 (10.0 mv)

WIN @ 100 (10.0 mV) ✓ WIN @ 400 (40.0 mV) ✓

WIN @ 200 (20.0 mV) ✓ WIN @ 500 (50.0 mV) ✓

Date 2-19-24 Calibrated By

**AVM Environmental Services Inc.**

**Scaler/Ratemeter Calibration Form**

Model : L2221 S/N: 290801

Reference Instrument/Source: Ludlum Pulser 500, S/N:114513

**HV Calibration**

HV Test (2 points): Ref/Inst 600/600 Ref/Inst 900/900

**Ratemeter Calibration**

Instrument Threshold @ 100 (10 mV), WIN: Out, HV 900VDC; Pulser Threshold @ 200 (20mV)

| Range/Mode | Range Multiplier | Calibration Point (Pulser Setting) cpm x multiplier | Target CPM (±5%) | As Found Reading | | Left or Set Reading |
|---|---|---|---|---|---|---|
| Ratemeter | x1 | 40x1 | 38-42 | 40 | | 40 |
| | x1 | 40x10 | 380-420 | 400 | | 400 |
| | x10 | 40x100 | 3800-4200 | 4002 | | 4002 |
| | x100 | 40x1K | 38K-42K | 40020 | | 40020 |
| | x1K | 40x10K | 380K-420K | 400220 | | 400220 |
| Digital Ratemeter | - | 40x1 | 38-42 | 39 | | 39 |
| | - | 40x10 | 380-420 | 402 | | 402 |
| | - | 40x100 | 3800-4200 | 4004 | | 4004 |
| | - | 40x1K | 38K-42K | 40026 | | 40026 |
| | - | 40x10K | 380K-420K | 400221 | | 400221 |
| | | | | | | |

**Threshold/Gain Calibration**

WIN OUT

| Pulser Amplitude (mV) | Pulser CPM | | L2221 Theshold (mv) | Target CPM | L2221 CPM Found | | L2221 CPM Left or Set @ |
|---|---|---|---|---|---|---|---|
| 10.0 | 40000 | | 100 (10 mV) | 27K -33K | 31194 | | 31194 |
| 20.0 | 40000 | | 200 (20 mV) | 27K -33K | 29354 | | 29354 |
| 30.0 | 40000 | | 300 (30 mV) | 27K -33K | 30765 | | 30765 |
| 40.0 | 40000 | | 400 (40 mV) | 27K -33K | 30082 | | 30082 |
| 50.0 | 40000 | | 500 (50 mV) | 27K -33K | 29842 | | 29842 |

Note: Use R174 Gain Control on Power Supply Board to adjust L2221 CPM @75% for Threshold/Gain Calibration

**Window Cut-off Points Check**

L2221 Threshold set @100 (10.0 mv)

WIN @ 100 (10.0 mV) ✓ WIN @ 400 (40.0 mV) ✓

WIN @ 200 (20.0 mV) ✓ WIN @ 500 (50.0 mV) ✓

Date 2-19-24 Calibrated By

**AVM Environmental Services Inc.**
L2221 SCA/L44-20 Energy Calibration Form

SCA: L2221, SR #290801 Detector: Ludlum 44-20 (3x3 NaI Scintillator)

Calibration Source: Cs-137 Check Source, 5 uCi (August 2008) For 662 KeV Peak Cal

Threshold (input sensitivity) **652**

Window, In/Out **IN** Window **20**

HV Initial 100, At Peak 579

Maximum CPM: 198160 Background CPM: 13

HV Set @ 579 VDC

For Bi-214 609.2 KeV Peak (559 - 659 KeV ROI), Set Threshold @ 559, Window @ 100

Calibration Check w 1% U3O8 Ore Check Source: 15696 CPM

BKG = 65 cpm

Date 5-10-23 Calibrated By

**AVM Enviro. tal Services, Inc.**
**Field Soil Sample Gamma Radiation Screening Form**
**Mt. Taylor Mine Site**

**Instrumentation : Scaler/Ratemeter** L2221 S# 68782 , **Detector** L44-20 S# 295573
**Instrument Calibration Date:** 10-7-22 , **Instrument Function Check Performed:** ✓
**Survey Area/Unit Decsription** Mt Taylor Mine - Correlation Calibration

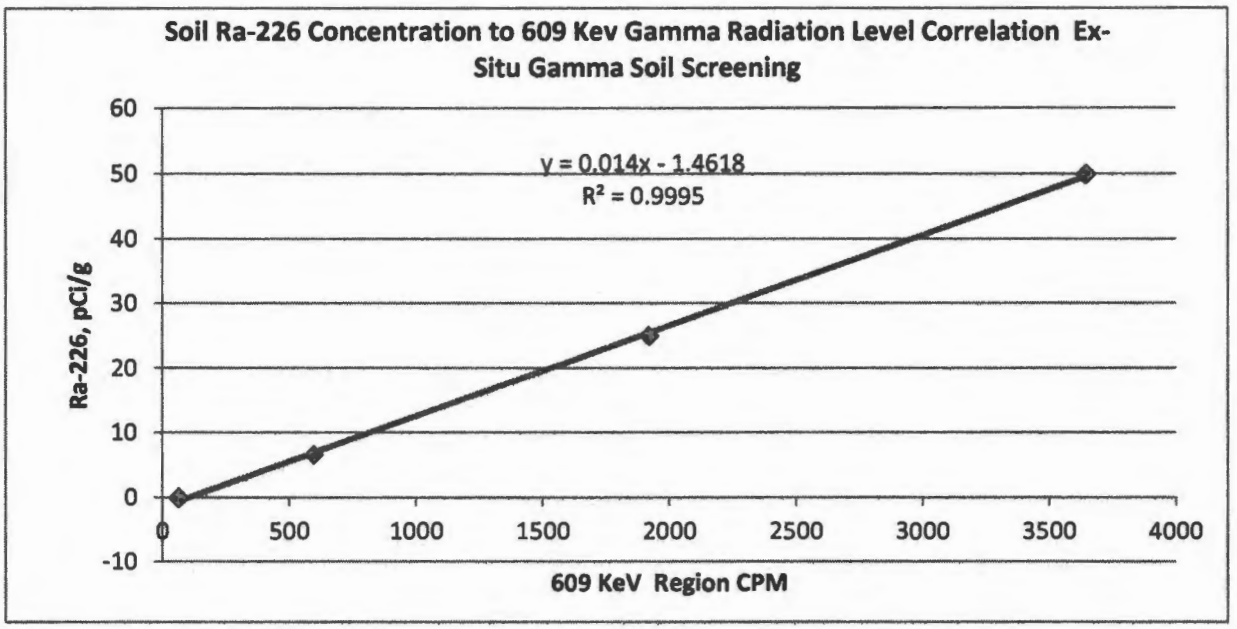
**Area exposure rate:**

| Date/Time | Soil Sample ID | Sample Weight Grams | 609 (559-669) Kev Gross Counts, CP5M | Weight Corrected CP5M | CPM | Reference Soil Compare (< or >) | Comments |
|---|---|---|---|---|---|---|---|
| 5-10-23 | Blank | | 329 | | 66 | | |
| 5-10-23 | 6.6 pCi/g Ref. Soil | 3000 | 2998 | | 600 | | |
| 5-10-23 | 25 pCi/g Ref Soil | 2984 | 9552 | 9603 | 1921 | | |
| 5-10-23 | 50 pCi/g Ref Soil | 2976 | 18078 | 18224 | 3645 | | |
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**Technician Signature** _____ , **Reviewed by** _____

**AVM Environmental Services**
**Ex-Situ Soil Screening Gamma Radiation Level to Ra-226 Correlation**
**Mt. Taylor Mine Site Subsurface Soil Investigation**

| Reference Soil ID | Date | Ra-226 pCi/g | Wt gms | 609 KeV CP5Min Gross (3x3 Nal Detector) | CPM |
|---|---|---|---|---|---|
| Blank | 5/10/2023 | - | - | 329 | 66 |
| 6.6 pCi/g Ra-226 Ref Soil | 5/10/2023 | 6.6 | 3000 | 2998 | 600 |
| 25 pCi/g Ra-226 Ref Soil | 5/10/2023 | 25 | 3000 | 9603 | 1921 |
| 50 pCi/g Ra-226 Ref Soil | 5/10/2023 | 50 | 3000 | 18224 | 3645 |



**AVM Environmental Services, Inc.**
**Gamma Radiation Survey**
**Concrete Correlation Form**

Instrumentation : Scaler/Ratemeter L2221 S#290801, Detector SPA-3 #30

Instrument Calibration Date: 2-19-24, Instrument Daily Function Check Performed: ✓

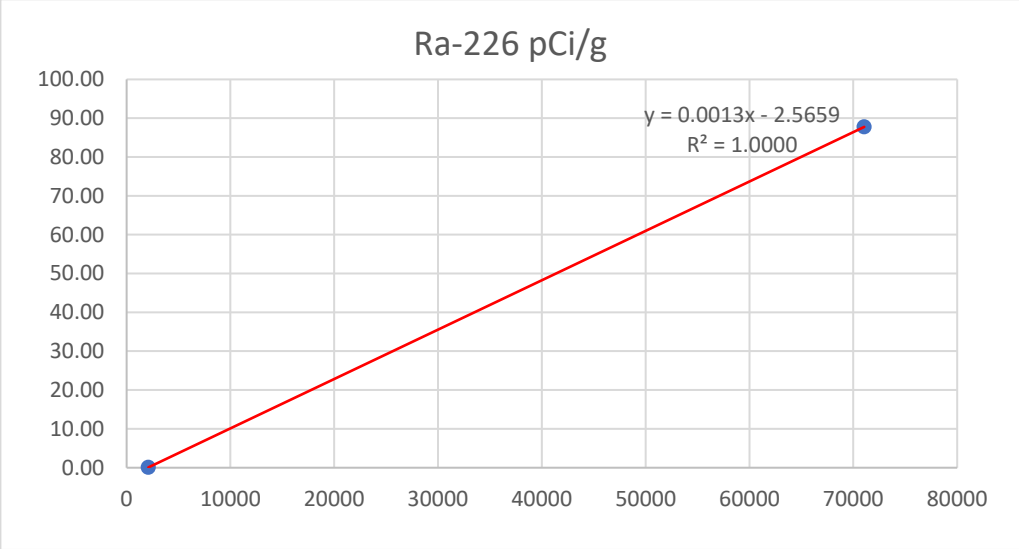
2"x2" NaI Detector Collimated ✓ Yes or ____ No.

Survey Area/Unit Decsription Grants Calibration Pad site - DOE

| Survey Date | Calibration Pad ID | Gamma Radiation Reading, CPM | | Comments/Notes |
|---|---|---|---|---|
| | | SPA-3, 0.5-inch lead collimated | SPA-3, 1.0-inch lead collimated | |
| 4-18-24 | GPB | 2019 | 1989 | |
| | | 2148 | 1865 | |
| | | 2123 | 2076 | uR/hr @ Contact 9.5 |
| 11 | GPL | 70818 | 74469 | |
| | | 71213 | 74463 | uR/hr @ Contact 205 |
| | | 71137 | 74487 | |
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Technician Signature _____, Reviewed by _____

Grants DOE Calibration Pad
0.5 inch lead collimated 2x2 detector calibration for concrete investigation




| Concrete ID | CPM | Ra-226 pCi/g |
|---|---|---|
| Cal Pad GPB | 2097 | 0.10 |
| Cal Pad GPL | 71056 | 87.78 |

Designer and Manufacturer of Scientific and Industrial Instruments

www.ludlums.com

# CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
501 Oak Street
325-235-5494
Sweetwater, TX 79556, U.S.A.

ACCREDITED
CERT # 4084.01

Customer AVM ENVIRONMENTAL SERVICES INC ORDER NO. 20457182/547880

Mfg. Ludlum Measurements, Inc. Model 19 Serial No. 76248

M. Model Serial No.

Cal. Date 3-Nov-23 Cal Due Date 3-Nov-24 Cal. Interval 1 Year Meterface 202-1070

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 73 °F RH 37 % Alt 708.1 mm Hg

☐ New Instrument Instrument Received ☐ Within Toler. +-10% ☑ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation ☑ Geotropism
☑ Audio ck. ☐ Alarm Setting ck. ☑ Batt. ck.

☐ Calibrated in accordance with LMI SOP 14.8 ☑ Calibrated in accordance with LMI SOP 14.9

Instrument Volt Set 800 V Input Sens. 37 mV Det. Oper. 800 V at 37 mV Threshold Dial Ratio = mV

☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

**COMMENTS:**

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.
Multimeter uncertainty within 1.3% of reading, Gamma uncertainty within 5.0% of reading, Neutron uncertainty within 7.0% of reading, Count rate uncertainty within 5.4% of reading

| RANGE/MULTIPLIER | REFERENCE CAL. POINT | INSTRUMENT REC'D "AS FOUND READING" | INSTRUMENT METER READING |
|---|---|---|---|
| 5000 | 4000µR/hr | 4200 µR/hr | 4000 µR/hr |
| 5000 | 1000µR/hr | 1100 | 1000 |
| 500 | 400µR/hr = 69800 cpm | 410 | 400 |
| 500 | 100µR/hr | 110 | 100 |
| 250 | 200µR/hr = 33800 cpm | 210 | 200 |
| 250 | 100µR/hr | 100 | 100 |
| 50 | 6980 cpm | 42 | 40 |
| 50 | 1750 cpm | 10 | 10 |
| 25 | 3380 cpm | 22 | 20 |
| 25 | 845 cpm | 5 | 5 |

Range(s) Calibrated Electronically

| Digital Readout | REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING |
|---|---|---|---|
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| Log Scale | REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING |
|---|---|---|---|
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Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.
All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors.
Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k=2.
The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323AB-2013

ISO/IEC 17025:2017(E)
State of Texas Calibration License No. LO-1963

**Reference Instruments and/or Sources:** Cs-137 S/N: ☐ 059 ☐ 2171CP ☐ 2261CP ☐ 720 ☐ 734 ☐ 781 ☐ 1131 ☐ 1616 ☐ 1696 ☐ 1909 ☐ 1916CP ☐ 2324/2521
☐ 5717CO ☐ 5719CO ☐ 60846 ☐ 70897 ☐ 73410 ☐ E552 ☐ G112 ☑ 2168CP ☐ S-394 ☐ S-1054 ☐ T10081 ☐ T10082 Neutron Am-241 Be ☐ T-304 Ra-226 ☐ Y982
☐ E551 ☐ 5105 ☐ CSV280

☐ Alpha S/N ☐ Beta S/N ☐ Other

☐ m 500 S/N 114520 ☐ Oscilloscope S/N ☑ Multimeter S/N 53950165

Operator Sheba Lee Sheba Lee Title Calibrator Date 3-Nov-23

QC'd By Title Final QC Date 3Nov23

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
FORM C22A 01/07/2020 Page 1 of 1

AC Inst. Only ☐ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed:

www.ludlums.com

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**
501 Oak Street
325-235-5494
Sweetwater, TX 79556, U.S.A.

ACCREDITED
CERT # 4084.01

Model No. / Serial No. 500 / 114513

Customer AVM ENVIRONMENTAL SERVICES INC ORDER NO. 20460064/549833

Date 13-Dec-23 Cal Due Date 13-Dec-24 Cal. Interval 1 Year Procedure 500/Rev 8

☐ New Instrument Instrument Received ☑ Within Tolerance ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See Comments

T. 73 °F RH 36 % Alt 714.2 mm Hg ☑ Meter Zeroed ☑ Mechanical Check

**PULSE WIDTH Uncertainty within 0.85% of reading**

| | As Found | As Left | Acceptable Range (µs) |
|---|---|---|---|
| NEG PULSE | 1.7 | 1.7 | 1.5 - 1.9 |
| POS PULSE | 1.7 | 1.7 | < 2.25 |

**PULSE AMPLITUDE (NEGATIVE) Uncertainty within 1.3% of reading**

| Reference Amplitude | As Found Amplitude Reading | As Left Amplitude Reading | Acceptable Range | Reference Amplitude | As Found Amplitude Reading | As Left Amplitude Reading | Acceptable Range |
|---|---|---|---|---|---|---|---|
| 1 V | 1 V | 1 V | 0.9 - 1.1 | 4 V | 4.1 V | 4.1 V | 3.6 - 4.4 |
| 100 mV | 100 mV | 100 mV | 90 - 110 | 400 mV | 410 mV | 410 mV | 360 - 440 |
| 10 mV | 10 mV | 10 mV | 9 - 11 | 40 mV | 41 mV | 41 mV | 36 - 44 |
| 1 mV | 1 mV | 1 mV | 0.9 - 1.1 | 4 mV | 4.1 mV | 4.1 mV | 3.6 - 4.4 |

**PULSE AMPLITUDE (POSITIVE) Uncertainty within 1.3% of reading**

| Reference Amplitude | As Found Amplitude Reading | As Left Amplitude Reading | Acceptable Range |
|---|---|---|---|
| 3 V | 3 V | 3 V | 2.7 - 3.3 |
| 300 mV | 300 mV | 300 mV | 270 - 330 |
| 30 mV | 30 mV | 30 mV | 27 - 33 |
| 3 mV | 3 mV | 3 mV | 2.7 - 3.3 |

**PULSE FREQUENCY (PERIOD) Uncertainty within 0.46% of reading**

| Pulser Range | As Found Period | As Left Period | Acceptable Range |
|---|---|---|---|
| x 10K | 6.667 | 6.667 | 6.534 - 6.8 |
| x 1K | 66.70 | 66.70 | 65.34 - 68 |
| x 100 | 667.2 | 667.2 | 653.4 - 680 |
| x 10 | 6671 | 6671 | 6534 - 6800 |
| x 1 | 66.71 | 66.71 | 65.34 - 68 |
| x 0.1 | 90 | 90 | 88.2 - 91.8 Counts |

Digital High Voltage Uncertainty within 1.3% of reading

| Reference Voltage | As Found Voltage Reading | As Left Voltage Reading | Acceptable Range |
|---|---|---|---|
| 500 V | | | 490 - 510 |
| 1500 V | | | 1470 - 1530 |

Analog High Voltage Uncertainty within 1.3% of reading

| Reference Voltage | As Found Voltage Reading | As Left Voltage Reading | Acceptable Range |
|---|---|---|---|
| 500 V | 500 | 500 | 475 - 525 |
| 2000 V | 2000 | 2000 | 1900 - 2100 |

| CPM Reading | As Found cpm Reading | As Left cpm Reading | Acceptable Range |
|---|---|---|---|
| MAX | 992 | 992 | 981 - 999 |
| MIN | 0-1 | 0-1 | 0 - 1* |

* READING OF 0-99 IS ACCEPTABLE FOR INSTRUMENTS WITH A S/N 100000 AND BELOW OR MAIN BOARD = 5208-066

**COMMENTS:**
CAL'D W/ 39" CABLE.

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.
All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors.
Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k=2.
The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323AB-2013
ISO/IEC 17025:2017(E)
State of Texas Calibration License No. LO-1963

Reference Instruments:
Frequency Counter Model BK 1856D S/N 332L14297 Cal Date 17-Feb 2023
Oscilloscope Model Tenma 72-6820 S/N 1102645 Cal Date 11-Oct 2023
Voltmeter Model Fluke 83 V S/N 94000441 Cal Date 2-Jun 2023

Calibrator William Tinsley William Tinsley Title Calibrator Date 13-December 2023
QC'd By [signature] Title Final QC Date 14 Dec 23

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.


AC Inst. Only ☑ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed:

# ANALYTICAL SUMMARY REPORT

May 24, 2024

Rio Grande Resources Corporation
PO Box 1150
Grants, NM 87020-1150

Work Order: C24040791 Quote ID: C16056

Project Name: MTM TP Soil Characterization

Energy Laboratories, Inc. Casper WY received the following 10 samples for Rio Grande Resources Corporation on 4/24/2024 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---|---|---|---|---|---|
| C24040791-001 | TP-11 [6-12]inches | 11/13/23 13:45 | 04/24/24 | Solid | Gamma Sample Preparation Drying/Grinding, Radiochemistry Gross Gamma |
| C24040791-002 | TP-15B [6-12]Inches | 11/14/23 8:25 | 04/24/24 | Solid | Same As Above |
| C24040791-003 | TP-11 [1-2]Feet | 11/16/23 11:05 | 04/24/24 | Solid | Same As Above |
| C24040791-004 | TP-15B [1-1.5]Feet | 11/16/23 11:35 | 04/24/24 | Solid | Same As Above |
| C24040791-005 | TP-41 [0-6]Inches | 04/16/24 8:45 | 04/24/24 | Solid | Same As Above |
| C24040791-006 | TP-46 [6-12]Inches | 04/16/24 10:25 | 04/24/24 | Solid | Same As Above |
| C24040791-007 | TP-36 [6-12]Inches | 04/16/24 11:00 | 04/24/24 | Solid | Same As Above |
| C24040791-008 | TP-41 [6-12]Inches | 04/16/24 11:15 | 04/24/24 | Solid | Same As Above |
| C24040791-009 | TP-36 [1-2]Feet | 04/17/24 11:20 | 04/24/24 | Solid | Same As Above |
| C24040791-010 | TP-DS 01 | 04/17/24 13:00 | 04/24/24 | Solid | Same As Above |

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

**CLIENT:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Work Order:** C24040791

**Report Date:** 05/24/24

# CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-001
**Client Sample ID:** TP-11 [6-12]

**Report Date:** 05/24/24
**Collection Date:** 11/13/23 13:45
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | -0.8 | pCi/g-dry | U | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 224 precision (±) | 8.0 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 224 MDC | 13.3 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 226 | 61.5 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 226 precision (±) | 1.4 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 226 MDC | 0.7 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 228 | 0.4 | pCi/g-dry | U | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 228 precision (±) | 1.2 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |
| Radium 228 MDC | 1.7 | pCi/g-dry | | | | E901.1 | 05/16/24 15:53 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-002
**Client Sample ID:** TP-15B [6-12]

**Report Date:** 05/24/24
**Collection Date:** 11/14/23 08:25
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 0.9 | pCi/g-dry | U | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 224 precision (±) | 3.1 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 224 MDC | 5.2 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 226 | 15.2 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 226 precision (±) | 0.5 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 226 MDC | 0.3 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 228 | 1.6 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 228 precision (±) | 0.4 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |
| Radium 228 MDC | 0.5 | pCi/g-dry | | | | E901.1 | 05/17/24 12:48 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-003
**Client Sample ID:** TP-11 [1-2]

**Report Date:** 05/24/24
**Collection Date:** 11/16/23 11:05
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 0.4 | pCi/g-dry | U | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 224 precision (±) | 1.5 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 224 MDC | 2.6 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 226 | 1.1 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 226 precision (±) | 0.1 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 226 MDC | 0.1 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 228 | 1.1 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 228 precision (±) | 0.2 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |
| Radium 228 MDC | 0.3 | pCi/g-dry | | | | E901.1 | 05/17/24 14:57 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-004
**Client Sample ID:** TP-15B [1-1.5]

**Report Date:** 05/24/24
**Collection Date:** 11/16/23 11:35
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 0.5 | pCi/g-dry | U | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 224 precision (±) | 2.1 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 224 MDC | 3.6 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 226 | 1.2 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 226 precision (±) | 0.2 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 226 MDC | 0.2 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 228 | 1.3 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 228 precision (±) | 0.4 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |
| Radium 228 MDC | 0.4 | pCi/g-dry | | | | E901.1 | 05/17/24 16:01 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-005
**Client Sample ID:** TP-41 [0-6]

**Report Date:** 05/24/24
**Collection Date:** 04/16/24 08:45
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 1.7 | pCi/g-dry | U | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 224 precision (±) | 6.6 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 224 MDC | 10.9 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 226 | 43.5 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 226 precision (±) | 1.1 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 226 MDC | 0.5 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 228 | 1.5 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 228 precision (±) | 0.7 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |
| Radium 228 MDC | 1.0 | pCi/g-dry | | | | E901.1 | 05/20/24 09:23 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-006
**Client Sample ID:** TP-46 [6-12]

**Report Date:** 05/24/24
**Collection Date:** 04/16/24 10:25
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 2.3 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 224 precision (±) | 1.3 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 224 MDC | 2.0 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 226 | 2.3 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 226 precision (±) | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 226 MDC | 0.2 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 228 | 1 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 228 precision (±) | 0.4 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |
| Radium 228 MDC | 0.5 | pCi/g-dry | | | | E901.1 | 05/20/24 10:26 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-007
**Client Sample ID:** TP-36 [6-12]

**Report Date:** 05/24/24
**Collection Date:** 04/16/24 11:00
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 4.2 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 224 precision (±) | 2.3 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 224 MDC | 3.6 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 226 | 8.8 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 226 precision (±) | 0.5 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 226 MDC | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 228 | 1.3 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 228 precision (±) | 0.5 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |
| Radium 228 MDC | 0.7 | pCi/g-dry | | | | E901.1 | 05/20/24 11:44 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-008
**Client Sample ID:** TP-41 [6-12]

**Report Date:** 05/24/24
**Collection Date:** 04/16/24 11:15
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 2.2 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 224 precision (±) | 1.3 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 224 MDC | 2.0 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 226 | 1.9 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 226 precision (±) | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 226 MDC | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 228 | 1.6 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 228 precision (±) | 0.5 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |
| Radium 228 MDC | 0.6 | pCi/g-dry | | | | E901.1 | 05/20/24 13:27 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-009
**Client Sample ID:** TP-36 [1-2]

**Report Date:** 05/24/24
**Collection Date:** 04/17/24 11:20
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 0.6 | pCi/g-dry | U | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 224 precision (±) | 2.1 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 224 MDC | 3.6 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 226 | 0.7 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 226 precision (±) | 0.2 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 226 MDC | 0.2 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 228 | 1.3 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 228 precision (±) | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |
| Radium 228 MDC | 0.3 | pCi/g-dry | | | | E901.1 | 05/20/24 16:12 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation
**Project:** MTM TP Soil Characterization
**Lab ID:** C24040791-010
**Client Sample ID:** TP-DS 01

**Report Date:** 05/24/24
**Collection Date:** 04/17/24 13:00
**DateReceived:** 04/24/24
**Matrix:** Solid

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---|---|---|---|---|---|---|
| **RADIONUCLIDES, GAMMA** | | | | | | | |
| Radium 224 | 0.5 | pCi/g-dry | U | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 224 precision (±) | 2.2 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 224 MDC | 3.6 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 226 | 0.8 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 226 precision (±) | 0.2 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 226 MDC | 0.2 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 228 | 1.1 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 228 precision (±) | 0.4 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |
| Radium 228 MDC | 0.4 | pCi/g-dry | | | | E901.1 | 05/21/24 08:43 / haw |

**Report Definitions:**
RL - Analyte Reporting Limit
QCL - Quality Control Limit
U - Not detected at Minimum Detectable Concentration (MDC)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Rio Grande Resources Corporation **Work Order:** C24040791 **Report Date:** 05/23/24

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| **Method: E901.1** | | | | | | | | | | Batch: R306411 |
| **Lab ID: MB-306411** | 9 | Method Blank | | | | Run: GAM-HPGE 2_240516A | | | | 05/16/24 13:03 |
| Radium 224 | | 0.3 | pCi/g-dry | | | | | | | U |
| Radium 224 precision (±) | | 0.9 | pCi/g-dry | | | | | | | |
| Radium 224 MDC | | 1 | pCi/g-dry | | | | | | | |
| Radium 226 | | 0.1 | pCi/g-dry | | | | | | | U |
| Radium 226 precision (±) | | 0.1 | pCi/g-dry | | | | | | | |
| Radium 226 MDC | | 0.2 | pCi/g-dry | | | | | | | |
| Radium 228 | | 0.2 | pCi/g-dry | | | | | | | U |
| Radium 228 precision (±) | | 0.2 | pCi/g-dry | | | | | | | |
| Radium 228 MDC | | 0.4 | pCi/g-dry | | | | | | | |
| **Lab ID: C24040791-008ADUP** | 9 | Sample Duplicate | | | | Run: GAM-HPGE 2_240516A | | | | 05/20/24 15:10 |
| Radium 224 | | -0.15 | pCi/g-dry | | | | | 230 | 30 | UR |
| Radium 224 precision (±) | | 2.6 | pCi/g-dry | | | | | | | |
| Radium 224 MDC | | 4.3 | pCi/g-dry | | | | | | | |
| Radium 226 | | 1.8 | pCi/g-dry | | | | | 3.9 | 30 | |
| Radium 226 precision (±) | | 0.26 | pCi/g-dry | | | | | | | |
| Radium 226 MDC | | 0.23 | pCi/g-dry | | | | | | | |
| Radium 228 | | 1.7 | pCi/g-dry | | | | | 6.9 | 30 | |
| Radium 228 precision (±) | | 0.44 | pCi/g-dry | | | | | | | |
| Radium 228 MDC | | 0.44 | pCi/g-dry | | | | | | | |

- Duplicate RPD for Ra224 is outside of the acceptance range for this analysis. However, the RER is less than or equal to the limit of 3, the RER result is 0.82. The RER result for Ra226 is 0.19 and Ra228 is 0.17.

**Qualifiers:**

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected at Minimum Detectable Concentration (MDC)

# Work Order Receipt Checklist

## Rio Grande Resources Corporation C24040791

Login completed by: Cristen C. Smith
Date Received: 4/24/2024
Reviewed by: tjones
Received by: CCS
Reviewed Date: 4/30/2024
Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on all sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes ☑ | No ☐ | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes ☑ | No ☐ | Not Applicable ☐ |
| Container/Temp Blank temperature: | 14.9°C No Ice | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | Yes ☐ | No ☐ | No VOA vials submitted ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | Not Applicable ☑ |

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

### Contact and Corrective Action Comments:

None

# Chain of Custody & Analytical Request Record

ENERGY LABORATORIES — Trust our People. Trust our Data.

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## Account Information *(Billing information)*

| | |
|---|---|
| Company/Name | Rio Grande Resources Corporation |
| Contact | Anita Willcox |
| Phone | 505-287-7971 |
| Mailing Address | PO Box 1150 |
| City, State, Zip | Grants, NM 87020 |
| Email | anita.willcox@ga.com |
| Receive Invoice | ☐Hard Copy ▣Email |
| Receive Report | ☐Hard Copy ▣Email |
| Purchase Order | MT11705 |
| Quote | |
| Bottle Order | |

## Report Information *(if different than Account Information)*

| | |
|---|---|
| Company/Name | AVM Environmental Services, Inc. |
| Contact | Victor Patel |
| Phone | 505-287-4593 |
| Mailing Address | 1717 Del Norte Blvd |
| City, State, Zip | Grants, NM 87020 |
| Email | vpatelavm@outlook.com |
| Receive Report | ☐Hard Copy ▣Email |

Special Report/Formats: ☐ LEVEL IV ☐NELAC ☐ EDD/EDT *(contact laboratory)* ☐ Other_____

## Comments

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | MTM TP Soil Characterization |
| Sampler Name | Victor Patel |
| Sampler Phone | 505-287-4593 |
| Sample Origin State | New Mexico |
| EPA/State Compliance | ☐ Yes ▣ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
▣ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification *(Name, Location, Interval, etc.)* | Collection Date | Collection Time | Number of Containers | Matrix *(See Codes Above)* | EPA 901.1 Modified for Soil | See Attached | RUSH TAT | ELI LAB ID *Laboratory Use Only* |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TP-11 6"-12" | 11/13/2023 | 1:45 pm | 1 | S | ✓ | | | C24040791 |
| 2 | TP-15B 6"-12" | 11/14/2023 | 8:25 am | 1 | S | ✓ | | | |
| 3 | TP-11 1'-2' | 11/16/2023 | 11:05 am | 1 | S | ✓ | | | |
| 4 | TP-15B 1'-1.5' | 11/16/2023 | 11:35 am | 1 | S | ✓ | | | |
| 5 | TP-41 0"-6" | 04/16/2024 | 8:45 am | 1 | S | ✓ | | | |
| 6 | TP-46 6"-12" | 04/16/2024 | 10:25 am | 1 | S | ✓ | | | |
| 7 | TP-36 6"-12" | 04/16/2024 | 11:00 am | 1 | S | ✓ | | | |
| 8 | TP-41 6"-12" | 04/16/2024 | 11:15 am | 1 | S | ✓ | | | |
| 9 | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Victor Patel | 4-22-24/1000 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Christen Smith | 4/24/24 10:10 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check_____ | Amount $ | Receipt Number *(cash/check only)* |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ENERGY LABORATORIES
Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record

www.energylab.com



## Account Information (Billing information)

| | |
|---|---|
| Company/Name | Rio Grande Resources Corporation |
| Contact | Anita Willcox |
| Phone | 505-287-7971 |
| Mailing Address | PO Box 1150 |
| City, State, Zip | Grants, NM 87020 |
| Email | anita.willcox@ga.com |
| Receive Invoice | ☐Hard Copy ▣Email |
| Receive Report | ☐Hard Copy ▣Email |
| Purchase Order | MT11705 |
| Quote | |
| Bottle Order | |

## Report Information (if different than Account Information)

| | |
|---|---|
| Company/Name | AVM Environmental Services, Inc. |
| Contact | Victor Patel |
| Phone | 505-287-4593 |
| Mailing Address | 1717 Del Norte Blvd |
| City, State, Zip | Grants, NM 87020 |
| Email | vpatelavm@outlook.com |
| Receive Report | ☐Hard Copy ▣Email |
| Special Report/Formats: | ☐ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other_____ |

## Comments

## Project Information

| | |
|---|---|
| Project Name, PWSID, Permit, etc. | MTM TP Soil Characterization |
| Sampler Name | Victor Patel |
| Sampler Phone | 505-287-4593 |
| Sample Origin State | New Mexico |
| EPA/State Compliance | ☐ Yes ▣ No |

**URANIUM MINING CLIENTS MUST indicate sample type**
▣ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

**Matrix Codes**
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Oil
DW - Drinking Water

**Analysis Requested**

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

| | Sample Identification (Name, Location, Interval, etc.) | Collection Date | Collection Time | Number of Containers | Matrix (See Codes Above) | EPA 901.1 Modified for Soil | See Attached | RUSH TAT | ELI LAB ID (Laboratory Use Only) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TP-36 1'-2' | 04/17/2024 | 11:20 am | 1 | S | ✓ | | | C24040791 |
| 2 | TP-DS 01 | 04/17/2024 | 1:00 pm | 1 | S | ✓ | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

**ELI is REQUIRED to provide preservative traceability.** If the preservatives supplied with the bottle order were **NOT** used, please attach your preservative information with this COC.

| Custody Record MUST be signed | Relinquished by (print) | Date/Time | Signature | Received by (print) | Date/Time | Signature |
|---|---|---|---|---|---|---|
| | Victor Patel | 4-22-24 / 1000 | | | | |
| | Relinquished by (print) | Date/Time | Signature | Received by Laboratory (print) | Date/Time | Signature |
| | | | | Cristen Smith | 4/24/24 10:10 | |

**LABORATORY USE ONLY**

| Shipped By | Cooler ID(s) | Custody Seals Y N C B | Intact Y N | Receipt Temp °C | Temp Blank Y N | On Ice Y N | Payment Type CC Cash Check_____ | Amount $ | Receipt Number (cash/check only) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

# ATTACHMENT E-1.3
# AVM 2025 – NORTH CONTROLLED AREA

# North Controlled Area Soil Radiologic Characterization

**Mt. Taylor Mine Site**
**San Mateo, NM**

**Prepared by:**
**AVM Environmental Services, Inc.**
**1717 Del Norte Blvd.**
**Grants, NM 87020**

**Prepared for:**
**Rio Grande Resource Corporation**
**PO Box 1150**
**Grants, NM 87020**

**June 5, 2025**




N
W E
S

Environmental Services, Inc.

# Figure 1
# Mt. Taylor Mine Site
# North Controlled Area Soil Radiologic Characterization Area

June 2025

**Legend**

- NCA Soil Radiologic Characterization Area
- Previously Characterized Area
- Active Treatment Ponds
- North Controlled Fence

## Table 2
## Mt. Taylor Mine Site - North Controlled Area Soil Radiological Characterization
## Static Gamma Radiation Survey at Data Point/Soil Sample Locations

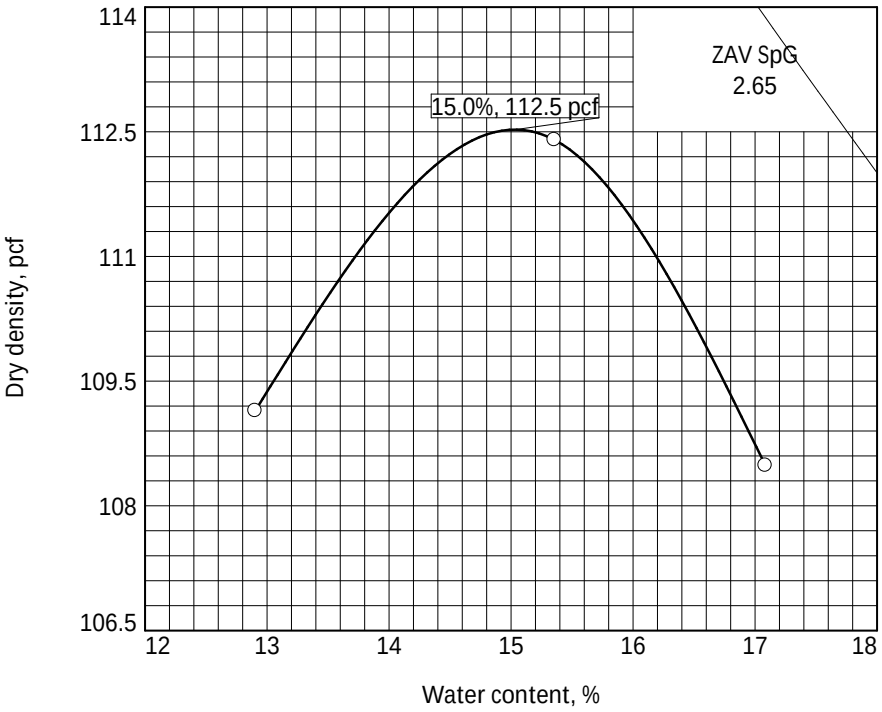
| Data Point ID | Survey Date | Data Point Coordinate NAD83 StatePlane NM West, Feet | | Static Gamma Radiation Survey Collimated (0.5" PB) 2x2 Detector | |
|---|---|---|---|---|---|
| | | Northing | Easting | Static Gamma CPM | Surface Soil Static Gamma Estimated Ra-226 pCi/g |
| TP-01 | 9/19/2024 | 1580186.76 | 2781641.72 | 74549 | 111.8 |
| TP-02 | 9/19/2024 | 1581347.96 | 2781655.87 | 23242 | 29.7 |
| TP-03 | 9/19/2024 | 1581200.16 | 2781928.52 | 12217 | 12.0 |
| TP-04 | 9/19/2024 | 1580830.01 | 2781918.97 | 11677 | 11.2 |
| TP-05 | 9/19/2024 | 1580644.14 | 2781961.31 | 7643 | 4.7 |
| TP-06 | 9/19/2024 | 1579534.44 | 2782004.83 | 28795 | 38.6 |
| TP-07 | 9/19/2024 | 1580612.66 | 2782033.15 | 7755 | 4.9 |
| TP-08 | 9/19/2024 | 1580712.40 | 2782055.84 | 9500 | 7.7 |
| TP-09 | 11/25/2024 | 1579887.40 | 2782299.57 | 26878 | 35.5 |
| TP-10 | 9/19/2024 | 1580089.57 | 2782156.92 | 10215 | 8.8 |
| TP-11 | 9/19/2024 | 1580893.36 | 2782211.56 | 17075 | 19.8 |
| TP-12 | 9/19/2024 | 1580498.58 | 2782193.94 | 7687 | 4.8 |
| TP-13 | 9/19/2024 | 1581025.34 | 2782214.93 | 25917 | 34.0 |
| TP-14 | 9/19/2024 | 1581007.22 | 2782310.10 | 31693 | 43.2 |
| TP-15 | 9/19/2024 | 1580839.32 | 2782323.98 | 10771 | 9.7 |
| TP-16 | 9/19/2024 | 1580514.25 | 2782350.77 | 20877 | 25.9 |
| TP-17 | 11/22/2024 | 1581231.06 | 2782360.91 | 9788 | 8.2 |
| TP-18 | 9/19/2024 | 1580678.19 | 2782412.82 | 23920 | 30.8 |
| TP-19 | 9/19/2024 | 1581111.05 | 2782512.59 | 108929 | 166.8 |
| TP-20 | 9/19/2024 | 1580575.91 | 2782540.15 | 42042 | 59.8 |
| TP-21 | 1/27/2025 | 1580826.78 | 2782605.83 | 189626 | 295.9 |
| TP-22 | 9/19/2024 | 1580005.97 | 2782577.72 | 27679 | 36.8 |
| TP-23 | 10/28/2024 | 1580933.72 | 2782615.38 | 11721 | 11.3 |
| TP-24 | 9/19/2024 | 1580664.84 | 2782653.22 | 184511 | 287.7 |
| TP-25 | 11/22/2024 | 1581176.90 | 2782660.86 | 15304 | 17.0 |
| TP-26 | 12/12/2024 | 1580859.02 | 2782663.51 | 154801 | 240.2 |
| TP-27 | 9/19/2024 | 1580481.71 | 2782702.25 | 116173 | 178.4 |
| TP-28 | 9/19/2024 | 1581078.62 | 2782722.31 | 69269 | 103.3 |
| TP-29 | 9/19/2024 | 1580104.95 | 2782715.01 | 37349 | 52.3 |
| TP-30 | 12/2/2024 | 1581088.55 | 2782875.42 | 7362 | 4.3 |
| TP-31 | 11/25/2024 | 1580996.95 | 2783152.31 | 76057 | 114.2 |
| TP-32 | 12/12/2024 | 1580437.62 | 2783254.26 | 11869 | 11.5 |
| TP-33 | 11/25/2024 | 1581081.58 | 2783299.76 | 11765 | 11.3 |
| TP-34 | 12/12/2024 | 1580838.74 | 2783312.73 | 18951 | 22.8 |
| TP-35 | 10/23/2024 | 1580623.09 | 2783328.09 | 31729 | 43.3 |
| TP-36 | 10/23/2024 | 1580793.59 | 2783353.65 | 12576 | 12.6 |
| TP-37 | 10/23/2024 | 1580494.41 | 2783389.94 | 9058 | 7.0 |
| TP-38 | 10/23/2024 | 1581073.21 | 2783415.97 | 13769 | 14.5 |
| TP-39 | 10/23/2024 | 1580478.54 | 2783504.44 | 9606 | 7.9 |
| TP-40 | 10/23/2024 | 1581112.23 | 2783628.43 | 13072 | 13.4 |
| Inv-01 | 9/19/2024 | 1580780.75 | 2781697.35 | 14304 | 15.4 |
| Inv-02 | 9/19/2024 | 1579936.57 | 2781697.29 | 9200 | 7.2 |
| Inv-03 | 9/19/2024 | 1581223.91 | 2781793.57 | 13157 | 13.6 |
| Inv-04 | 9/19/2024 | 1580827.72 | 2782178.60 | 36695 | 51.2 |
| Inv-05 | 10/23/2024 | 1580653.58 | 2783716.79 | 7441 | 4.4 |
| Inv-06 | 10/23/2024 | 1581080.53 | 2783861.07 | 19774 | 24.1 |
| Inv-07 | 9/19/2024 | 1580754.28 | 2781792.25 | 10142 | 8.7 |

NCA
Sum = 2278.2
Mean = 47.1
n = 47
SD = 71.9

# ATTACHMENT E-2
# EA LABORATORY MATERIAL TESTING

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.
Test Performed on Material Passing: #4 Sieve

NM: LL: NV PI: NP
Sp.G. (Assumed): 2.65
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 4/16/25
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6114.4 | 6211.7 | 6171.7 | | | |
| WM | 4251.4 | 4251.4 | 4251.4 | | | |
| WW + T #1 | 1015.2 | 1106.6 | 897.9 | | | |
| WD + T #1 | 933.6 | 1009.1 | 810.6 | | | |
| TARE #1 | 301.0 | 374.0 | 299.9 | | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.9 | 15.4 | 17.1 | | | |
| DRY DENSITY | 109.1 | 112.4 | 108.5 | | | |

TEST RESULTS

Maximum dry density = 112.5 pcf

Optimum moisture = 15.0 %

Material Description: Sand

Remarks:

Project No. Client:
Project:

○ Source of Sample: EA-BSB04 Depth: 2' - 3' Sample Number: A

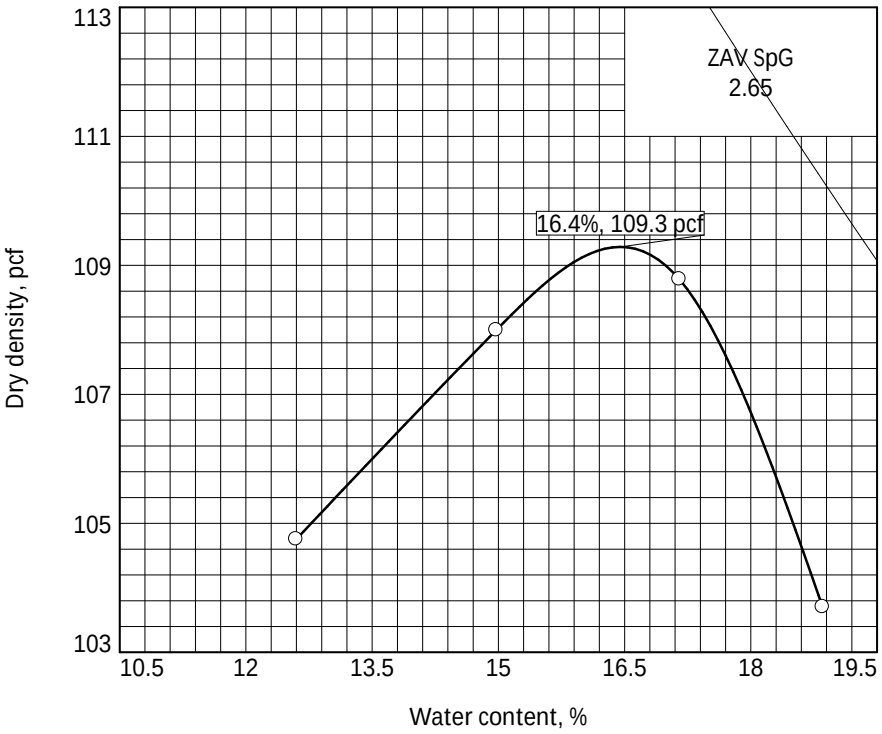
Checked by: AW
Title:

ENGINEERING ANALYTICS, INC.

Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

Preparation Method: Moist
Hammer Wt.: 5.5 lb.
Hammer Drop: 12 in.
Hammer Type: Manual
Layers: three Blows/Layer: 25
Mold Size: 0.03333 cu. ft.

Test Performed on Material
Passing: #4 Sieve

NM: LL: NV PI: NP
Sp.G. (Assumed): 2.65
%>#4: %<No.200:
USCS: AASHTO:
Date Sampled:
Date Received:
Date Tested: 4/10/25
Tested By: SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6033.2 | 6176.7 | 6127.2 | 6113.4 | | |
| WM | 4250.0 | 4250.0 | 4250.0 | 4250.0 | | |
| WW + T #1 | 1060.2 | 1080.7 | 1199.7 | 864.2 | | |
| WD + T #1 | 986.7 | 981.3 | 1095.7 | 774.7 | | |
| TARE #1 | 402.9 | 402.0 | 400.9 | 299.8 | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 12.6 | 17.2 | 15.0 | 18.9 | | |
| DRY DENSITY | 104.8 | 108.8 | 108.0 | 103.7 | | |

TEST RESULTS

Maximum dry density = 109.3 pcf

Optimum moisture = 16.4 %

Material Description: Sandy Clay

Remarks:

Project No. Client:
Project:

○ Source of Sample: EA-BSC12 Depth: 2' - 3' Sample Number: A

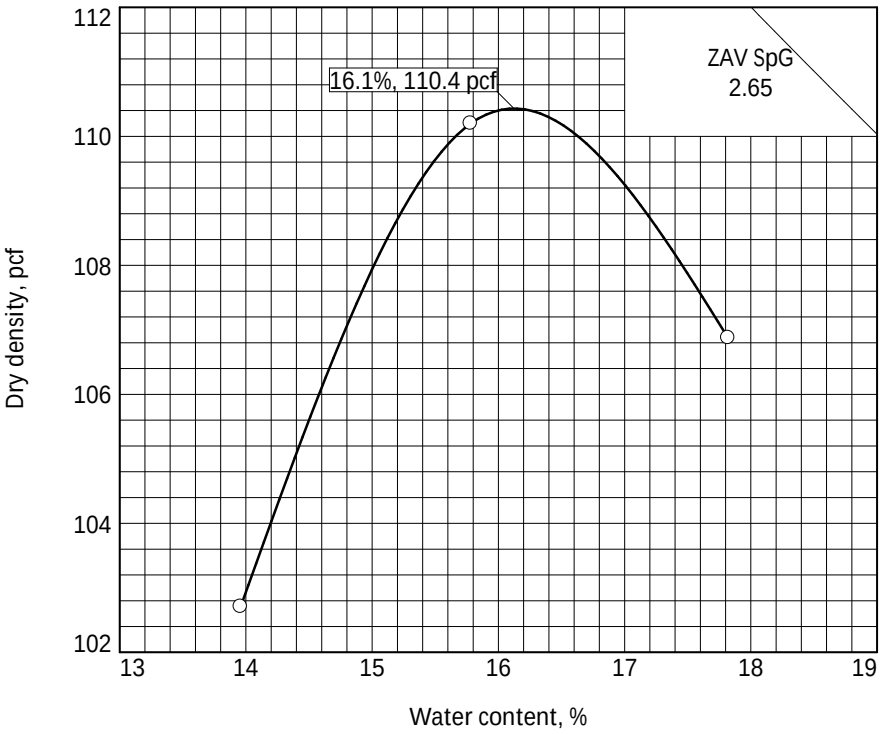
Checked by: AW
Title:

ENGINEERING ANALYTICS, INC.

Figure

# COMPACTION TEST REPORT

Curve No.




Test Specification:
ASTM D 698-12 Method A Standard

| | |
|---|---|
| Preparation Method | Moist |
| Hammer Wt. | 5.5 lb. |
| Hammer Drop | 12 in. |
| Hammer Type: | Manual |
| Layers | three |
| Blows/Layer | 25 |
| Mold Size | 0.03333 cu. ft. |

Test Performed on Material
Passing #4 Sieve

NM LL 26 PI 8
Sp.G. (Assumed): 2.65
%>#4 %<No.200
USCS AASHTO
Date Sampled
Date Received
Date Tested 4/16/2025
Tested By SY

| TESTING DATA | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| WM + WS | 6020.3 | 6179.7 | 6154.5 | | | |
| WM | 4250.8 | 4250.8 | 4250.8 | | | |
| WW + T #1 | 1243.0 | 1130.4 | 1178.8 | | | |
| WD + T #1 | 1136.1 | 1027.5 | 1056.4 | | | |
| TARE #1 | 370.5 | 375.5 | 369.7 | | | |
| WW + T #2 | | | | | | |
| WD + T #2 | | | | | | |
| TARE #2 | | | | | | |
| MOISTURE | 14.0 | 15.8 | 17.8 | | | |
| DRY DENSITY | 102.7 | 110.2 | 106.9 | | | |

TEST RESULTS

Maximum dry density = 110.4 pcf

Optimum moisture = 16.1 %

Material Description

Silty Clay

Remarks:

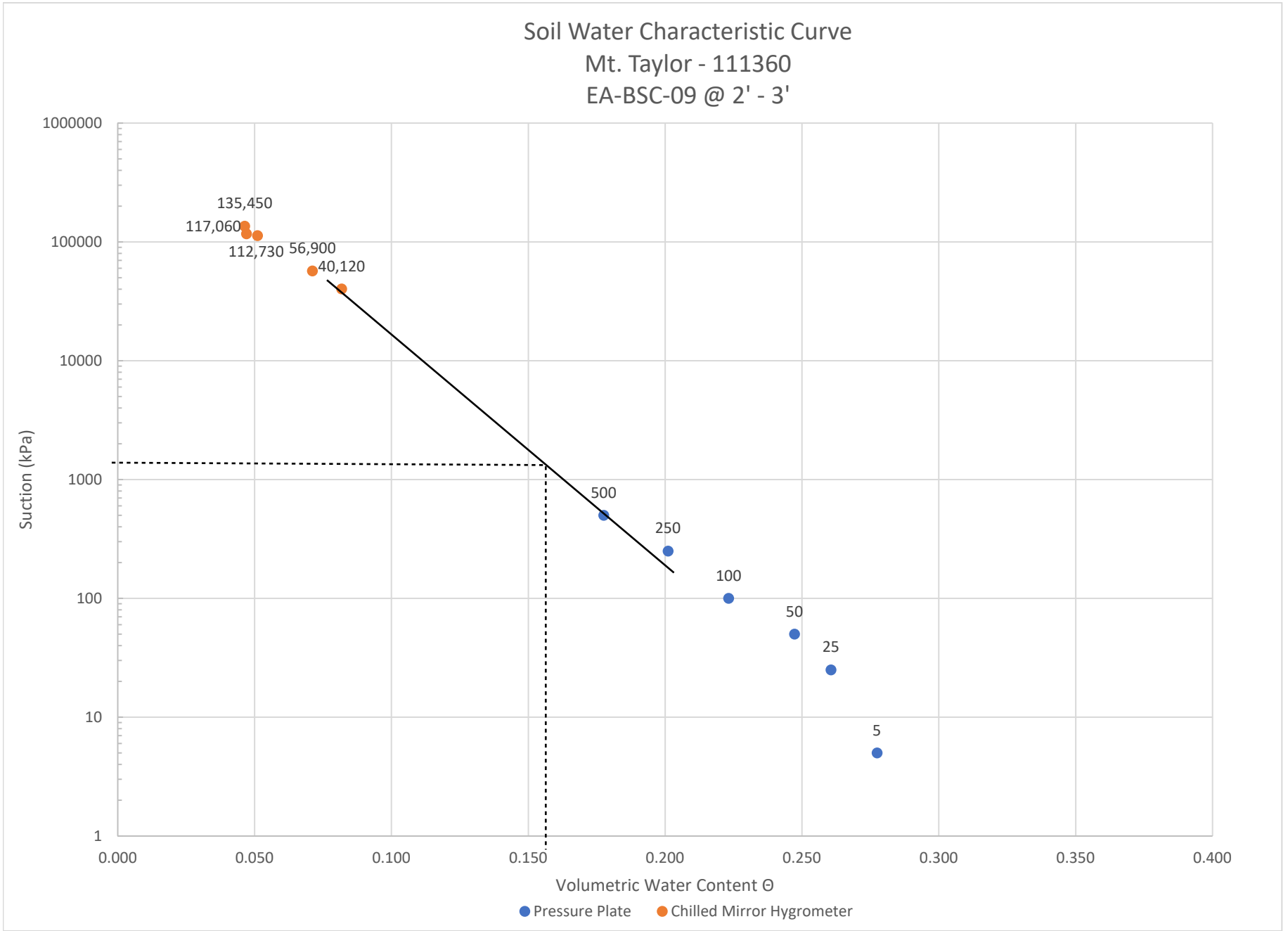
Project No. Client:
Project:

○ Source of Sample: EA-BSC09 Depth: 2' - 3' Sample Number: A

Checked by: KG
Title:

ENGINEERING ANALYTICS, INC.

Figure


Soil Water Characteristic Curve
Mt. Taylor - 111360
EA-BSC-09 @ 2' - 3'
1000000
100000
10000
1000
100
10
1
Suction (kPa)
135,450
117,060
112,730
56,900
40,120
500
250
100
50
25
5
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.400
Volumetric Water Content Θ
Pressure Plate
Chilled Mirror Hygrometer

# ATTACHMENT E-3
# RADON MODEL OUTPUT

## Layer Data HELP

| Layer No. | Thickness [m] | Ra-226 Activity Conc. [pCi/g] | Rn-222 Emanation Fraction | Porosity | Moisture Cont. [dry wt_%] | Fraction Passing #200 Mesh (75 µm) *) | Rn-222 Eff. Diff.Coeff *) [$m^2/s$] |
|---|---|---|---|---|---|---|---|
| 1 | 5 | 101 | 0.35 | 0.35 | 15.1 | | |
| 2 | .30 | 0 | .35 | .38 | 15.1 | | |
| 3 | .84 | 0 | .35 | .35 | 6 | | |
| 4 | .30 | 0 | .35 | .35 | 6 | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |

## Options HELP

- Entrance Radon flux to Layer 1 [$pCi/m^2s$] *)
- Surface Radon conc. at top of system [pCi/L] *)
- Layer No. to be optimized *)
- Surface flux constraint for optimization [$pCi/m^2s$] *)
- Surface flux convergence criterion (fraction) *)
- Annual Precipitation [cm] *)
- Annual Lake Evaporation [cm] *)
- Depth to Water Table [m] *)

*) optional

Calculate Reset Form HELP

## Results

```
 No.     [m]     [pCi/g]  Fract            [dry wt_%]  [m2/s]
  1    5         101      0.35     0.35      15.1       169.1E-9
  2    0.3       0        .35      0.38      15.1       462.0E-9
  3    0.84      0        .35      0.35      6          2.013E-6
  4    0.3       0        .35      0.35      6          2.013E-6


--------  Results of Radon Diffusion Calculation  --------

Layer  Thickness   Exit Flux  Exit Conc.     MIC
 No.      [m]      [pCi/m2s]   [pCi/L]
  1     5           27.35       46.12E3     0.440
  2     0.3         19.49       14.55E3     0.508
  3     0.84        11.61       4.796E3     0.777
  4     0.3         11.09       0E0         0.777

Total cover radon retention: 70.01%
```

## Layer Data HELP

| Layer No. | Thickness [m] | Ra-226 Activity Conc. [pCi/g] | Rn-222 Emanation Fraction | Porosity | Moisture Cont. [dry wt_%] | Fraction Passing #200 Mesh (75 µm) *) | Rn-222 Eff. Diff.Coeff *) [$m^2/s$] |
|---|---|---|---|---|---|---|---|
| 1 | 5 | 101 | 0.35 | 0.35 | 15.1 | | |
| 2 | .46 | 0 | .35 | .38 | 15.1 | | |
| 3 | .84 | 0 | .35 | .35 | 6 | | |
| 4 | .30 | 0 | .35 | .35 | 6 | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |

## Options HELP

- Entrance Radon flux to Layer 1 [$pCi/m^2s$] *)
- Surface Radon conc. at top of system [pCi/L] *)
- Layer No. to be optimized *)
- Surface flux constraint for optimization [$pCi/m^2s$] *)
- Surface flux convergence criterion (fraction) *)
- Annual Precipitation [cm] *)
- Annual Lake Evaporation [cm] *)
- Depth to Water Table [m] *)

*) optional

Calculate Reset Form HELP

## Results

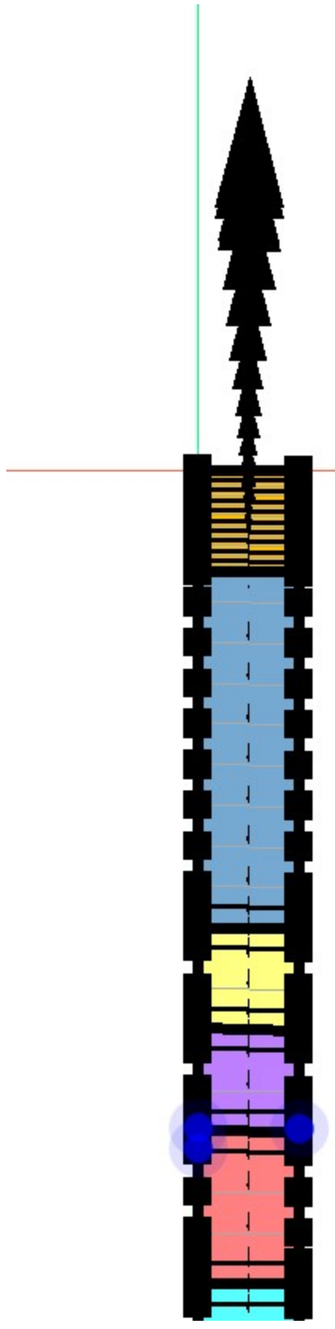
| No. | [m] | [pCi/g] | Fract | | [dry wt_%] | [m2/s] |
|---|---|---|---|---|---|---|
| 1 | 5 | 101 | 0.35 | 0.35 | 15.1 | 169.1E-9 |
| 2 | 0.46 | 0 | .35 | 0.38 | 15.1 | 462.0E-9 |
| 3 | 0.84 | 0 | .35 | 0.35 | 6 | 2.013E-6 |
| 4 | 0.3 | 0 | .35 | 0.35 | 6 | 2.013E-6 |

-------- Results of Radon Diffusion Calculation --------

| Layer No. | Thickness [m] | Exit Flux [pCi/m2s] | Exit Conc. [pCi/L] | MIC |
|---|---|---|---|---|
| 1 | 5 | 26.19 | 51.69E3 | 0.440 |
| 2 | 0.46 | 14.22 | 10.61E3 | 0.508 |
| 3 | 0.84 | 8.474 | 3.499E3 | 0.777 |
| 4 | 0.3 | 8.091 | 0E0 | 0.777 |

Total cover radon retention: 78.12%

# APPENDIX F
# Selected Results of Infiltration Analysis



Draw Graph

Add | Delete

| Name | Y | X |
|---|---|---|
| Cummulative... | Cumulative Cha... | Time |
| cumulative c... | Cum Water Mass | Time |
| cumulative c... | Cumulative Cha... | Time |
| Domain Wat... | Domain Water ... | Time |
| error: cumul... | Water Balance Err | Time |
| Flux-Cover ... | Water Flux | Time |
| New Graph (2) | Custom 1 | Time |
| New Graph (3) | VWC | Y |
| New Graph (4) | Domain Water ... | Distance |
| Percolation | Cum Water Vol... | Time |
| profile: vwc | VWC | Y |
| profile: Wat... | Water Rate | Time |
| VWC vs Time | VWC | Time |
| water balan... | Water Balance Err | Time |
| Water balan... | Cum Water Vol... | Time |
| Water Flux f... | Water Y-Flux | Time |
| WaterFlux | Water Y-Flux | Time |
| WaterFlux-C | Cum Water Vol | Time |

Name: Water Flux from Clay to Waste

Kind: Mesh

Set Locations...

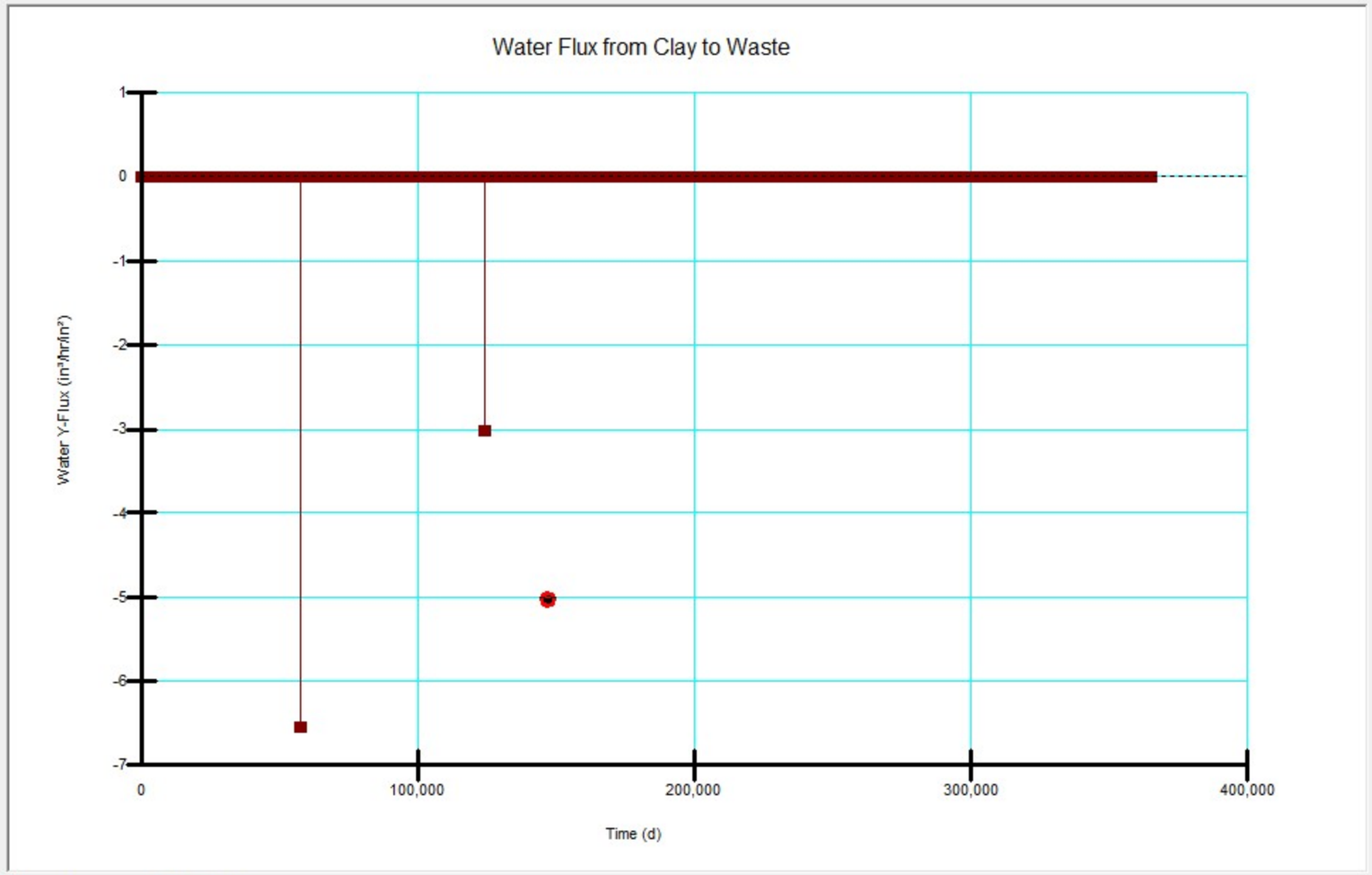
Water Flow | Water Y-Flux

vs. Time | Default

Select Time Steps: All

| Step | Elapsed Time (d) | Analysis Name |
|---|---|---|
| 1 | 0 | Steady-State Seepage |
| 210 | 21 | Transient Seepage |
| 1110 | 111 | Transient Seepage |
| 2010 | 201 | Transient Seepage |
| 2910 | 291 | Transient Seepage |

Sum (Y) vs. Average (X) Values

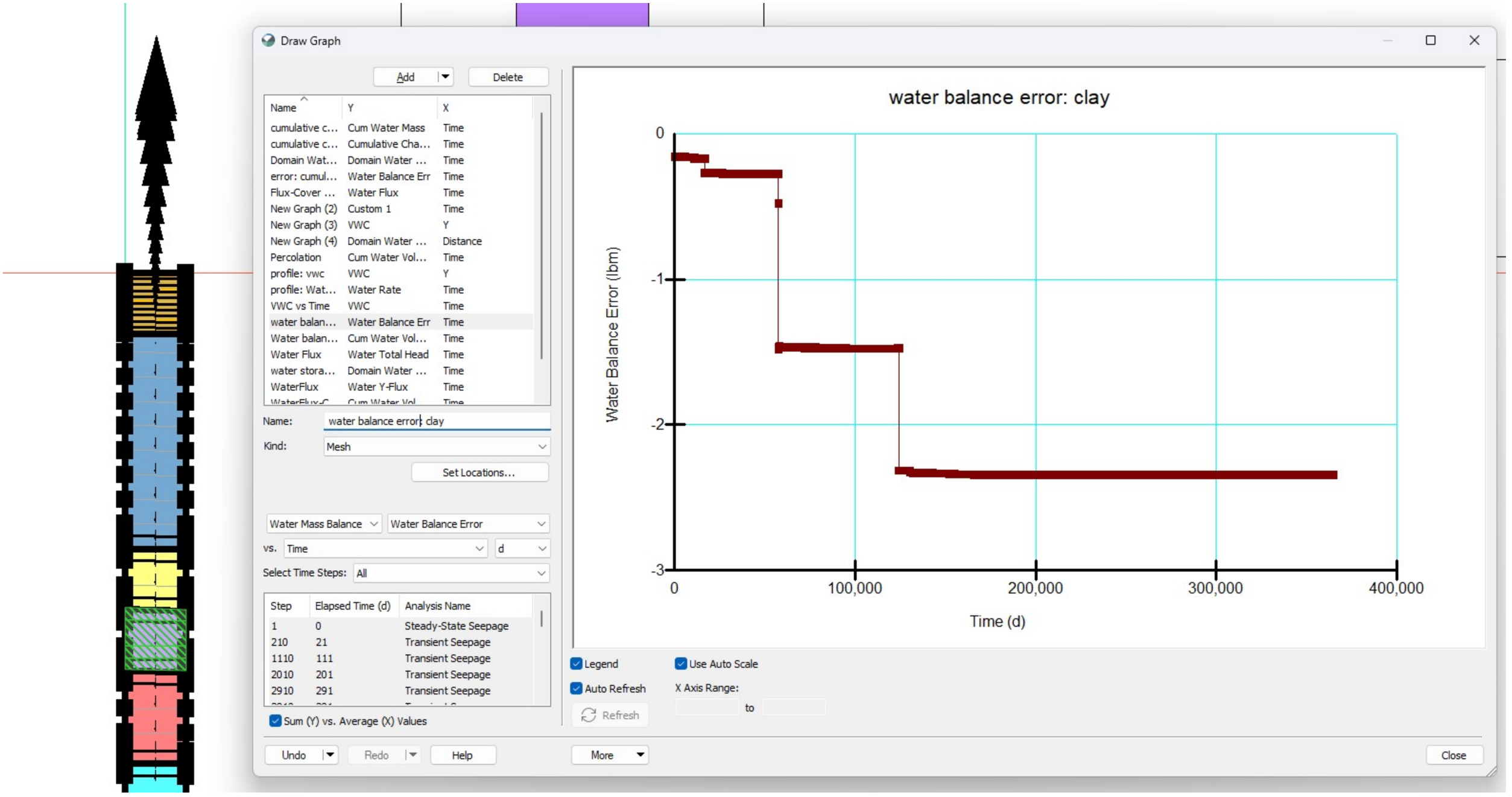


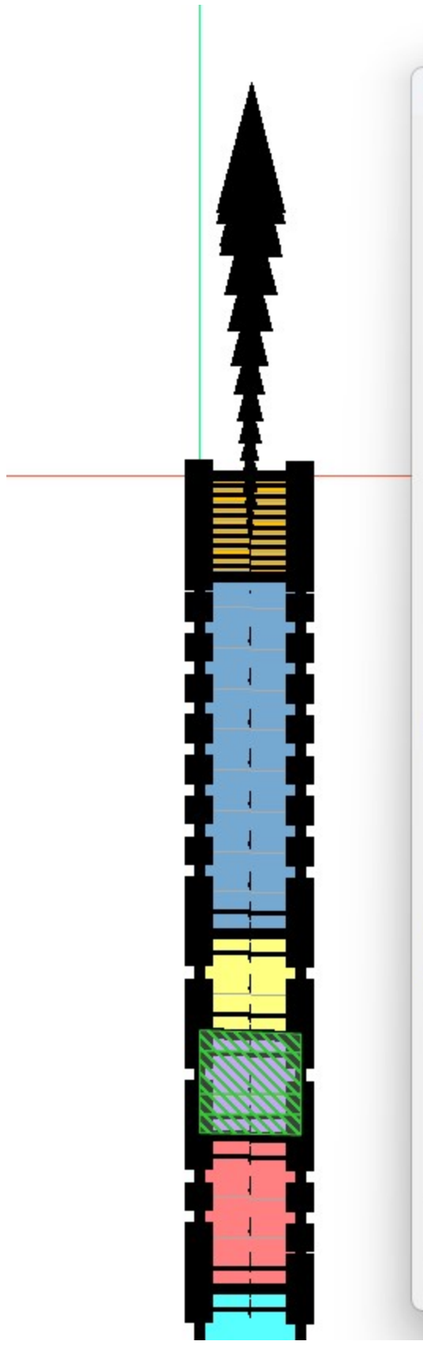

Legend | Use Auto Scale

Auto Refresh | X Axis Range: to

Refresh

Undo | Redo | Help | More | Close


Draw Graph
Add
Delete
Name
Y
X
cumulative c... Cum Water Mass Time
cumulative c... Cumulative Cha... Time
Domain Wat... Domain Water ... Time
error: cumul... Water Balance Err Time
Flux-Cover ... Water Flux Time
New Graph (2) Custom 1 Time
New Graph (3) VWC Y
New Graph (4) Domain Water ... Distance
Percolation Cum Water Vol... Time
profile: vwc VWC Y
profile: Wat... Water Rate Time
VWC vs Time VWC Time
water balan... Water Balance Err Time
Water balan... Cum Water Vol... Time
Water Flux Water Total Head Time
water stora... Domain Water ... Time
WaterFlux Water Y-Flux Time
Name: water balance error: clay
Kind: Mesh
Set Locations...
Water Mass Balance
Water Balance Error
vs. Time
d
Select Time Steps: All
Step Elapsed Time (d) Analysis Name
1 0 Steady-State Seepage
210 21 Transient Seepage
1110 111 Transient Seepage
2010 201 Transient Seepage
2910 291 Transient Seepage
Sum (Y) vs. Average (X) Values
water balance error: clay
Water Balance Error (lbm)
0
-1
-2
-3
0
100,000
200,000
300,000
400,000
Time (d)
Legend
Use Auto Scale
Auto Refresh
X Axis Range:
to
Refresh
Undo
Redo
Help
More
Close



Draw Graph

Add | Delete

| Name | Y | X |
|---|---|---|
| cumulative c... | Cum Water Mass | Time |
| cumulative c... | Cumulative Cha... | Time |
| Domain Wat... | Domain Water ... | Time |
| error: cumul... | Water Balance Err | Time |
| Flux-Cover ... | Water Flux | Time |
| New Graph (2) | Custom 1 | Time |
| New Graph (3) | VWC | Y |
| New Graph (4) | Domain Water ... | Distance |
| Percolation | Cum Water Vol... | Time |
| profile: vwc | VWC | Y |
| profile: Wat... | Water Rate | Time |
| VWC vs Time | VWC | Time |
| Water balan... | Cum Water Vol... | Time |
| Water Flux | Water Total Head | Time |
| water stora... | Domain Water ... | Time |
| water stora... | Domain Water ... | Time |
| WaterFlux | Water Y-Flux | Time |

Name: water storage: clay

Kind: Mesh

Set Locations...

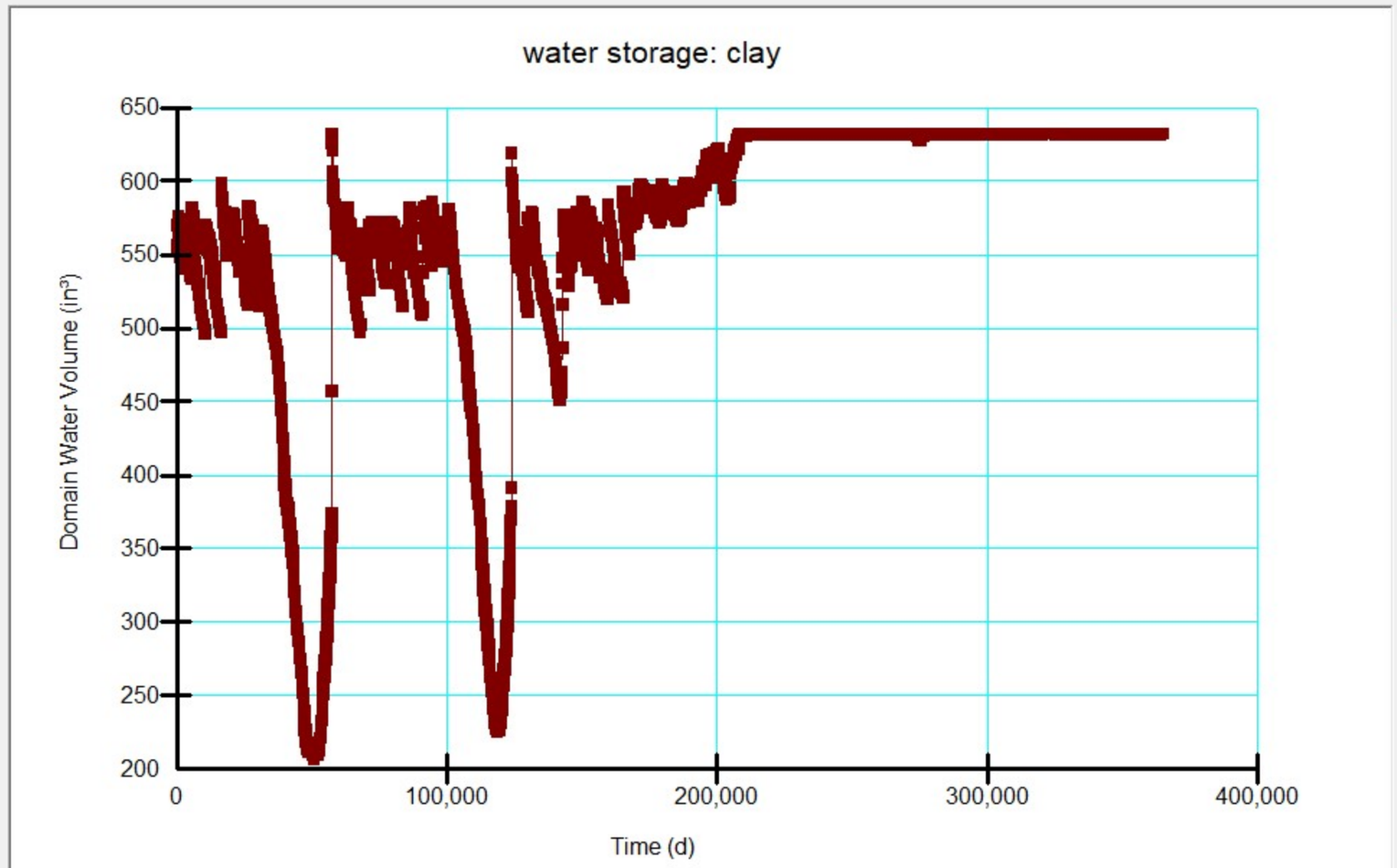
Water Mass Balance | Domain Water Volume

vs. Time | d

Select Time Steps: All

| Step | Elapsed Time (d) | Analysis Name |
|---|---|---|
| 1 | 0 | Steady-State Seepage |
| 210 | 21 | Transient Seepage |
| 1110 | 111 | Transient Seepage |
| 2010 | 201 | Transient Seepage |
| 2910 | 291 | Transient Seepage |

Sum (Y) vs. Average (X) Values

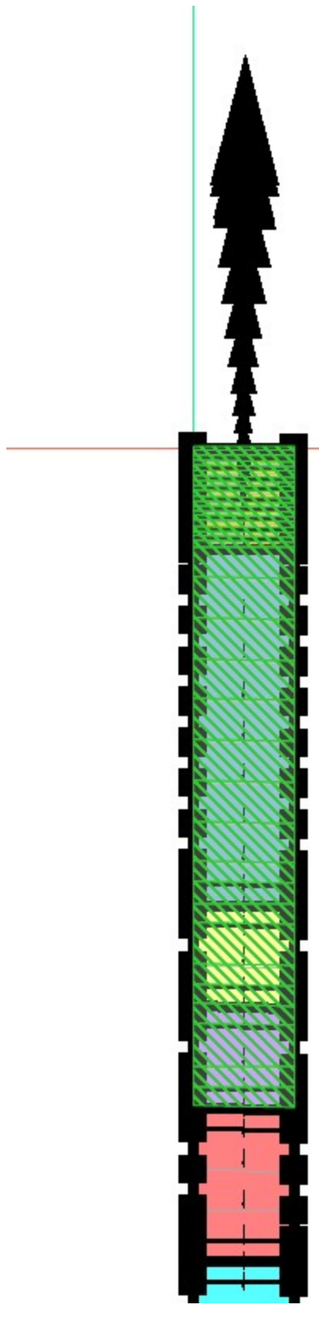



Legend | Use Auto Scale

Auto Refresh | X Axis Range:

Refresh | to

Undo | Redo | Help | More | Close



Draw Graph

Add | Delete

| Name | Y | X |
|---|---|---|
| Cummulative... | Cumulative Cha... | Time |
| cumulative c... | Cum Water Mass | Time |
| cumulative c... | Cumulative Cha... | Time |
| Domain Wat... | Domain Water ... | Time |
| error: cumul... | Water Balance Err | Time |
| Flux-Cover ... | Water Flux | Time |
| New Graph (2) | Custom 1 | Time |
| New Graph (3) | VWC | Y |
| New Graph (4) | Domain Water ... | Distance |
| Percolation | Cum Water Vol... | Time |
| profile: vwc | VWC | Y |
| profile: Wat... | Water Rate | Time |
| VWC vs Time | VWC | Time |
| water balan... | Water Balance Err | Time |
| Water balan... | Cum Water Vol... | Time |
| Water Flux | Water Total Head | Time |
| WaterFlux | Water Y-Flux | Time |
| WaterFlux-C | Cum Water Vol | Time |

Name: ılative Change in Water Volume (Cover System)

Kind: Mesh

Set Locations...

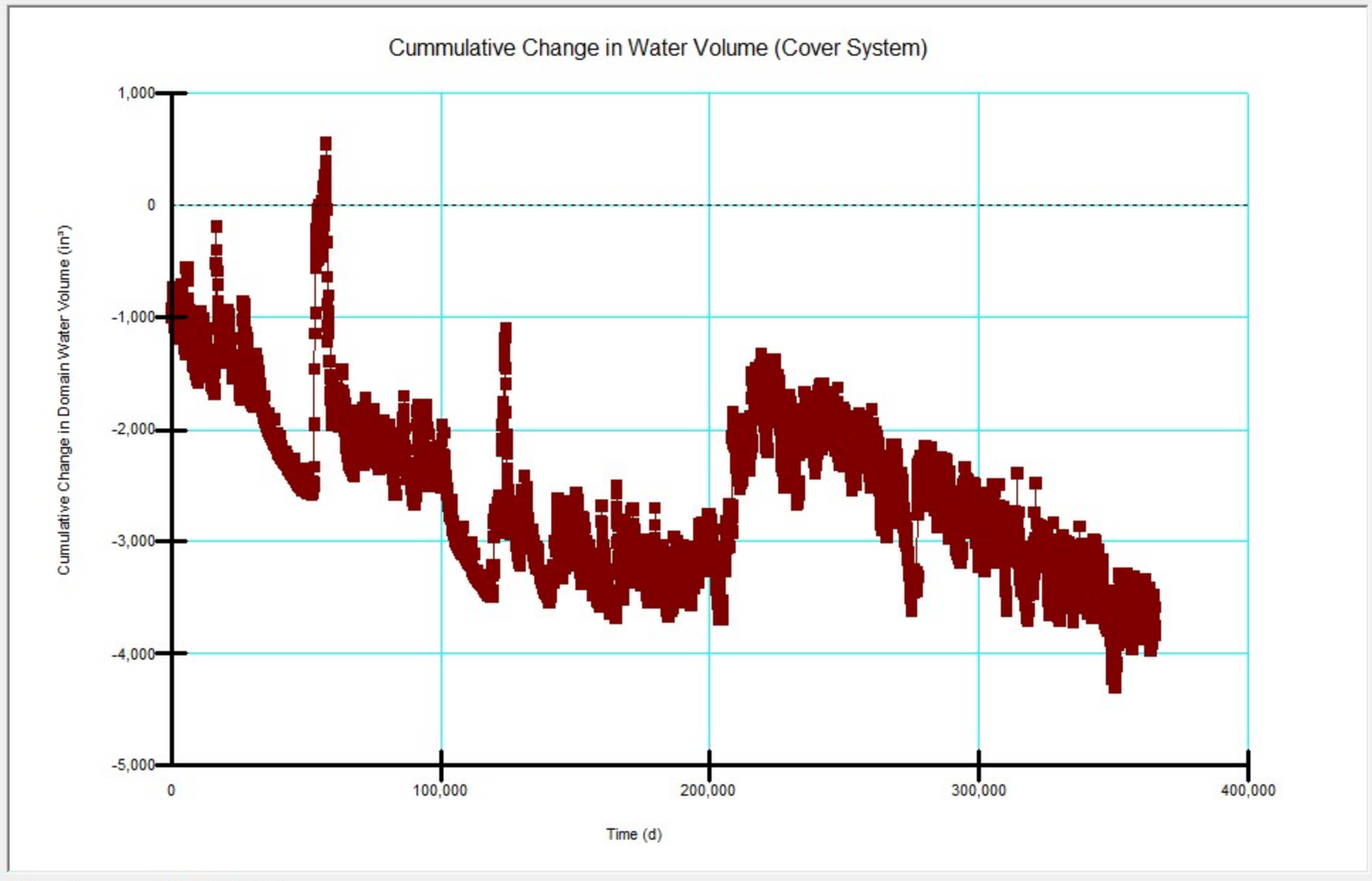
Water Mass Balance | Cumulative Change in Domain \

vs. Time | d

Select Time Steps: All

| Step | Elapsed Time (d) | Analysis Name |
|---|---|---|
| 1 | 0 | Steady-State Seepage |
| 210 | 21 | Transient Seepage |
| 1110 | 111 | Transient Seepage |
| 2010 | 201 | Transient Seepage |
| 2910 | 291 | Transient Seepage |

Sum (Y) vs. Average (X) Values

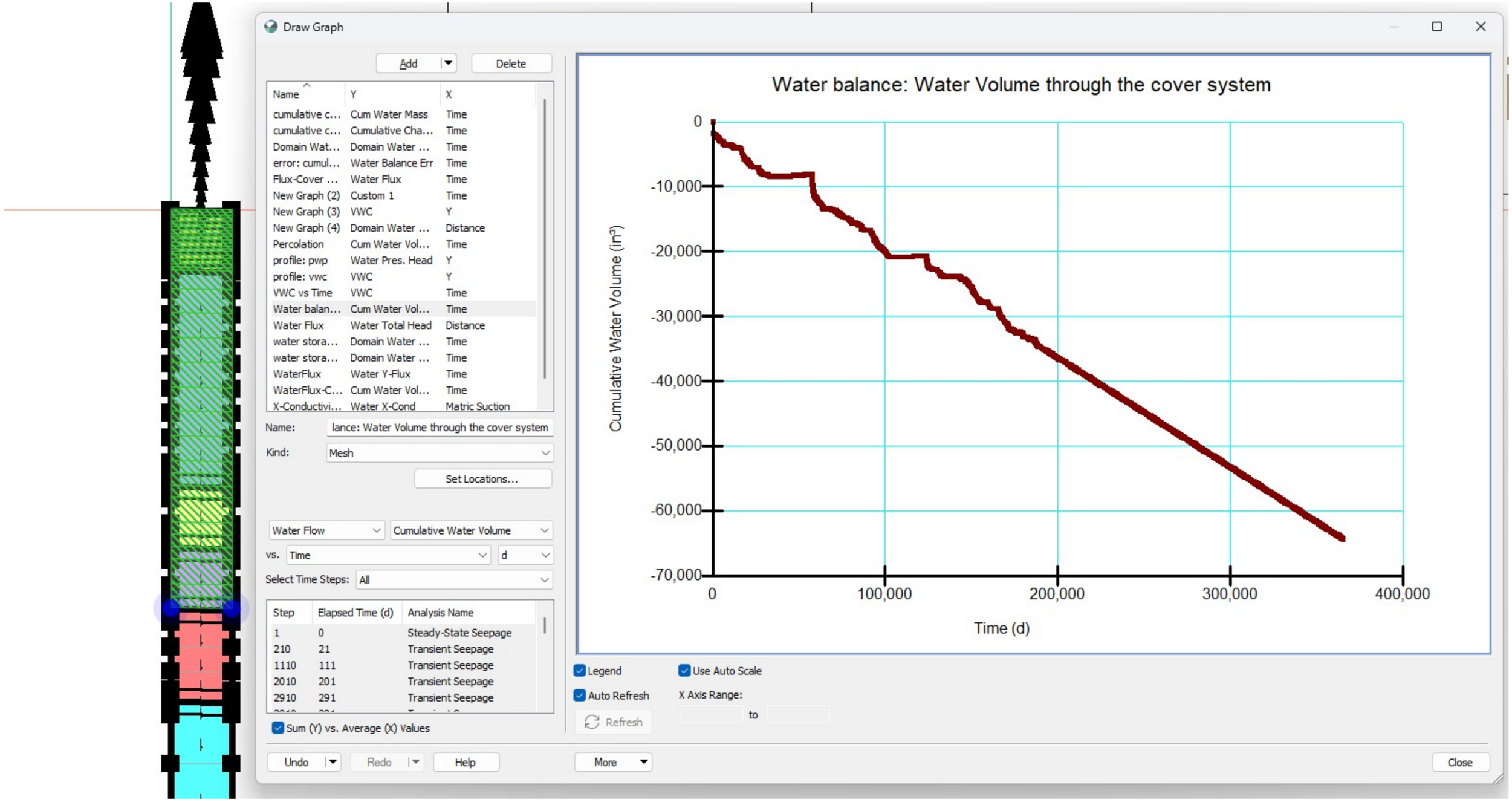



Legend | Use Auto Scale

Auto Refresh | X Axis Range:

Refresh | to

Undo | Redo | Help | More | Close


Draw Graph
Add
Delete
Name
Y
X
cumulative c... Cum Water Mass Time
cumulative c... Cumulative Cha... Time
Domain Wat... Domain Water ... Time
error: cumul... Water Balance Err Time
Flux-Cover ... Water Flux Time
New Graph (2) Custom 1 Time
New Graph (3) VWC Y
New Graph (4) Domain Water ... Distance
Percolation Cum Water Vol... Time
profile: pwp Water Pres. Head Y
profile: vwc VWC Y
VWC vs Time VWC Time
Water balan... Cum Water Vol... Time
Water Flux Water Total Head Distance
water stora... Domain Water ... Time
water stora... Domain Water ... Time
WaterFlux Water Y-Flux Time
WaterFlux-C... Cum Water Vol... Time
X-Conductivi... Water X-Cond Matric Suction
Name: lance: Water Volume through the cover system
Kind: Mesh
Set Locations...
Water Flow
Cumulative Water Volume
vs. Time
d
Select Time Steps: All
Step Elapsed Time (d) Analysis Name
1 0 Steady-State Seepage
210 21 Transient Seepage
1110 111 Transient Seepage
2010 201 Transient Seepage
2910 291 Transient Seepage
Sum (Y) vs. Average (X) Values
Water balance: Water Volume through the cover system
Cumulative Water Volume (in³)
0
-10,000
-20,000
-30,000
-40,000
-50,000
-60,000
-70,000
0
100,000
200,000
300,000
400,000
Time (d)
Legend
Use Auto Scale
Auto Refresh
X Axis Range:
to
Refresh
Undo
Redo
Help
More
Close

Flux-Cover System

