## THESIS

## AT THE WATER'S EDGE:

 AN ARCHAEOLOGICAL INVESTIGATION OF PLAYA OCCUPATION IN THE CENTRAL PLAINSSubmitted by<br>Marie Matsuda<br>Department of Anthropology and Geography

In partial fulfillment of the requirements
For the Degree of Master of Arts
Colorado State University
Fort Collins, Colorado
Summer 2021

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#### Abstract

\section*{AT THE WATER'S EDGE:}

\section*{AN ARCHAEOLOGICAL INVESTIGATION OF PLAYA OCCUPATION} IN THE CENTRAL PLAINS

Playa research on the American Great Plains has considerable potential to shed light on ancient hunter-gatherer lifeways and subsistence. These lacustrine environments provide a predictable water source and are ecological hubs for many species of mammals, waterfowl, and vegetation. The availability and abundance of resources create an environmental pull within the Plains that is ideal for ancient hunter-gatherer site choice in a region where resources are relatively scarce. This thesis provides an ecological and human behavioral approach to analyze the ancient history of mobile peoples by examining 18 archaeological playa site assemblages totaling 5,052 artifacts from the Central Plains. The lithic assemblages are placed within a geographic and environmental context, taking into consideration elements of site choice such as distance to playa, topographical location, and playa size.

The data reveal that site selection includes many complex factors not always determined by resource acquisition or the surrounding environment. The results also illustrate regional differences in playa occupation, specifically that occupations in the South Platte River Basin are more diverse and continuous when compared to playas elsewhere in the Great Plains. The findings from this research casts light on overall hunter-gatherer lifeways and reveals the importance of playas to indigenous groups in the Central Plains over a 12,000-year history.


## ACKNOWLEDGMENTS

This thesis, and my entire graduate degree, is a culmination of the support of so many people that I am sure to forget to name all of them. First and foremost, thank you to my advisor, Dr. Jason LaBelle, who fostered all my archaeological curiosities. Only four short years ago did I first email you in hopes to take your Archaeology and the Public Course. And to say that it changed my life is an understatement. Thank you for taking a chance on me! Thank you for taking the time to care, support, and advise me for the past four and half years. I was truly academically and intellectually lost until you took me under your wing. I am forever grateful for your dedication, passion, and knowledge in all things. I cannot say thank you enough.

Thank you to my thesis committee Dr. Sarah Payne and Dr. Edward Henry. Dr. Payne, thank you for coming to the rescue last minute and joining my committee. I admire your scholarship and your research as a public historian. Dr. Henry, thank you for all the thoughtful sources, writing advice you sent my way, and baking such wonderful sourdough bread. Thank you to Mike Toft, for being the best partner in my research and analysis. Thank you for opening your collections to me and sharing your incredible knowledge about archaeology and the northeastern Colorado landscape. Thank you for all the notes, copies of articles, and books that you shared with me. I truly enjoyed every visit I made to Sterling and will miss having an excuse to go there. Thank you also to Mike Dollard for sharing your passion of archaeology with me. I hope the both of you continue to work with other students and inspire others as much as you inspired me. Thank you to the Loveland Archaeological Society and Northern Colorado Chapter of the Colorado Archaeological Society for funding my travels to Sterling and to several conferences to showcase this research.

Thank you to all the powerful academic women who helped me believe in myself: Mica Glantz, Mary VanBuren, Melissa Raguet-Schoefield, Katie Randall, Amanda Racine, Manon Chavez-Williams, Vedrana Subotic, and Leslie Moore. There is nothing quite like the spoken and unspoken camaraderie of womanhood. It is only because of your examples and your accomplishments that I was ever able to imagine myself in this space. I am so grateful for all the advice that was given to me, the many shoulders I cried on, and the many hearts that guided me through the process of my masters and generally throughout my life.

Thank you to my wonderful friends in the CMPA and graduate cohort for being the best, chosen family I could have asked for. Without each and every one of you, especially Paul Buckner, Michelle Dinkel, Kelton Meyer, Ray Sumner, Celena Westberry, and Louise Steele, I would truly not be here today. I already look fondly back on all the times we huddled in the basement of Clark A gossiping, and all the backpacking surveys we went on together. A special thank you to Paul for being my biggest supporter and dearest friend. Thank you for making me laugh when I needed it most and helping me find my worth on the days I felt I had none. I am so grateful that we get to continue supporting each other through our first job post graduate school. Thank you also to artist Elena Haverluk for helping me visually picture this research and for sharing your talents with me.

Thank you to my parents, Robert and Hiromi Taylor, and my grandparents, Hisaji and Fumiko Matsuda. Thank you for standing by me through all the many twists and turns of my life. Thank you especially to Fumiko for pushing me to always do better and work hard. Thank you to my in-laws, Bob and Maryann Babbs, for housing me for three years. None of this would have been feasible without your support. A very special thank you to my partner, Sean Babbs, for helping me emotionally, mentally, spiritually, and most importantly editing so much of my
writing．You were the first person to truly push me to do hard things and helped me envision the future that I am so lucky to live in today－－for that I am eternally grateful．

Thank you to Colorado State University and the Department of Anthropology and Geography for giving me all the opportunities that I never dreamed I would have as a young girl． I still am in disbelief that the same Marie Matsuda from all those years back is writing an acknowledgments page to her completed master＇s thesis．

Finally，this thesis is dedicated to my three younger sisters Emii，Julie，and Sallie．May each of us receive the education we deserve and strive to be strong and bold．がんばれ！

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## CHAPTER ONE: INTRODUCTION

The indigenous peoples of the Great Plains of North America have utilized the resources associated with playa lakes for the past 12,000 years. Playas are the most prominent geographic feature on the plains, with over 80,000 of these water bodies dotting the landscape from Texas to Nebraska (Playa Lakes Joint Ventures 2019). Playas are circular, shallow basins that provide critical habitat for a diverse array of flora and fauna throughout the region (Haukos and Smith 1997; Smith 2003). They are hydrologically charged by precipitation, runoff, and, occasionally, ephemeral springs. These small water bodies provide a stark ecologic contrast to the relatively featureless Great Plains landscape (Bowen et al. 2010). This disparity and environmental isolation have been likened to an 'island on the plains,' an isolated ecosystem within a homogenous landscape that fosters biodiversity (Litwinionek et al. 2003). Such islands of resources were important landscape markers for mobile hunter-gatherer groups in the ancient past, as they provided predictable water, game, and diverse vegetation (Haukos and Smith 1994; Holliday 1997; Johnson 2008; Litwinionek et al. 2003). This thesis uses the concept of playas as an island or oasis to analyze the ancient history of the indigenous peoples in northeastern Colorado.

Although these areas have high potential for archaeological investigation, there has been limited research of playa lakes in the Central Plains. One of the major reasons for this is that playas are largely located on privately held properties that have restricted professional access. For this reason, the following research will take a collaborative approach and will analyze 18 playa sites in the South Platte River Basin of Colorado that were previously known only through private, avocational investigations. Figure 1 presents the study area, its geographical position
within the Great Plains, and the distribution of playa lakes throughout the region. The study area is located in the northeastern corner of Colorado in the South Platte River Basin (highlighted in red) which is considered part of the Central Plains.


Figure 1. The South Platte River Basin is in the northeastern corner of the state of Colorado and is part of the western extent of the Central Great Plains. The dotted yellow lines indicate the various sections of the Great Plains Province with the study area being situated on the Colorado Piedmont and the High Plains.

## Thesis Objectives and Research Questions

This thesis has two major goals. It aims to establish a baseline of playa archaeology in northeastern Colorado and to provide a better understanding of hunter-gatherer use and temporal occupation of playas within the Central Plains. Four primary questions guide this research:
I. How many archaeological playa sites are recorded in Colorado?
II. What do the lithic assemblages from the 18 playa sites represent, specifically concerning time and tool diversity?
III. What are the morphological and geographic characteristics of the 18 playas?
IV. Are there distinguishable relationships between playa size, morphology, and associated cultural use of playas, particularly related to assemblage composition and temporal occupation?

This first chapter serves as an introduction to the thesis and will lay out the theoretical framework and methods employed throughout. Chapter one will begin with a discussion of the history of archaeological theory in the Great Plains and how this thesis is situated within this context. This chapter will also demonstrate the significance of playas as a resource for ancient hunter-gatherers. It will define and introduce the concept of a "playa site," laying out the ways in which playa landscapes might have been utilized by ancient peoples and how this may be observed archaeologically. This chapter will also elaborate on the methodologies used throughout this thesis including concepts of ecological biodiversity, hunter-gatherer theory, human behavioral ecology, and lithic technological organization. Finally, this chapter will discuss the underlying theme of collaboration with artifact collectors and avocational researchers, by examining issues related to the ethics of working with non-professional archaeologists. The second chapter will provide a background of historical and contemporary
playa research, highlighting key sites and scholars within the field. This chapter will provide the necessary background and comparative data for the rest of this thesis.

The following chapters will begin to answer the research questions posed above. Chapter three will address the first question pertaining to the number of playa sites: how many archaeological playa sites are recorded in Colorado? It will analyze the presence of playas generally in the state and discuss the few known archaeological playa sites. This section also examines the notable absence of sites in the South Platte River Basin, thus leading to the need for collaborative research with avocational archaeologists. Chapter four covers the history of the Mike Toft collection, which is the primary focus of this thesis. It will answer the second research question: what do the lithic assemblages from the 18 playa sites represent? To answer this, it will present an overview of the environmental and geographical setting of the South Platte River Basin and provide a descriptive site report for each of the 18 playa sites. It will also provide numerical data on assemblage size and the location of each site. Chapter five will analyze the environmental characteristics of the playas, answering the third question: what are the morphological and geographic characteristics of the 18 playas? The next chapter will give an analysis of the lithic assemblages from the 18 sites, discussing the specific artifact types and tools present within the collections. The seventh chapter will analyze and discuss the chronology of the 18 sites using the presence of key temporal artifacts including projectile point types, gravers, preforms, channel flakes, and ceramics. Chapter eight analyzes assemblage diversity of the 18 playa sites using the Shannon-Weaver methodology. Chapter nine collocates and examines the data presented from chapters six, seven, and eight, seeking to answer the fourth question: are there distinguishable relationships between playa size, morphology, and associated cultural use of playas? This section will examine the relationships between the variables of time,
assemblage diversity, and playa morphology. Finally, chapter ten will conclude this thesis with an overall discussion of how the 18 playa sites fit within the existing literature and propose future research directions.

## Archaeological Theory in the Great Plains

All scholarship is directed through theoretical frameworks that guides one's research and methodologies of data collection and analysis. The research in this thesis is designed using settlement system theories shaped by concepts of ecological biodiversity, human behavioral ecology, and lithic technological organization, all of which has been influenced by the history of archaeological research in the region. Within the South Platte River Basin, four predominant theories are present: Cultural-historical, processual, Marxist, and post-processual (Wood et al. 1999). The oldest and most prevalent theoretical framework in Plains Archaeology is a culturalhistorical approach. This theory focuses on trait lists, while changes in traits are explained by external factors, especially related to human movement through migration and diffusion (Urban and Schortman 2012). This continuation of a long-established theoretical framework has been largely attributed to the predominance of Cultural Resource Management (CRM), as it is the primary source of archaeological investigation in the Plains (Wood et al. 1999).

Several critics have responded to this perpetuation of traditional theory and research methods in the region (Bamforth 1988, 2009; Mitchell 2006). First, some researchers have argued that these theories limit the way archaeologists view human movement in the past, as the dominant view of lifeways in the ancient history of the Great Plains remains one of frequent mobility, especially during the Paleoindian period (Bamforth 1988). Bamforth (2009) states that this cultural-historical lens leads researchers to analyze Paleoindian movement through the few preserved and diagnostic artifacts, especially discarded projectile points. This type of analysis
paints a limited picture of human responses that are inherently tied to raw material sources and the hunting of big game. Bamforth (2009) critiques these methods by stating that the overemphasis of projectile points is problematic due to the inaccurate nature of raw material sourcing and the absence of analysis of other artifacts. He also argues that this methodology is perpetuated at sites occupied thousands of years after the Paleoindian period, due to the foundation laid out by this historical research (Bamforth 2009). This continuous focus of mobility in this way also fuels the notion that few changes occurred in culture during the lives of ancient peoples living in the Great Plains and further maintains the use of these older theories (Bamforth 1988).

More recent archaeological research has focused on settlement patterns, systems, and subsistence strategies that incorporate dynamic aspects of hunter-gatherer behavior (Bamforth 1988; Wood et al 1999). Settlement patterns are defined as the distribution of archaeological sites across a landscape, while settlement systems are the processes that established the distribution of archaeological sites (Urban and Schortman 2012; Wood et al. 1999). In the South Platte River Basin, and even across the Plains as a whole, settlement patterns and systems have been researched extensively (Wood et al. 1999). The distribution of resources across the Plains, not limited to tool stone, is typically patchy and thus the human-environment relation within the region is ripe for this type of processual analysis. This highlights the secondary issue of theoretical frameworks in the Plains: the notion of human behavior as fixed and predictable. This type of focus became popular around the 1960s at the same time as the development of the discipline of human ecology (Kelly 2013). As a relatively new anthropological sub-discipline, human behavioral and evolutionary ecology highlighted aspects of human subsistence and energy expenditure and how people in the past might have made decisions in order to reduce risk
and increase their chances of survival (Johnson 2014; Kelly 2013). Human ecology perspectives are enmeshed with processual archaeology, also known as the 'New Archaeology' (Hegmon 2003). This new school of thought was popularized by Lewis and Sally Binford (Binford and Binford 1968). The theory uses theoretical frameworks that explain the processes of the archaeological record, moving away from merely identifying cultural traits. For example, researchers might analyze the distribution of sites by assessing the availability or patchiness of specific resources and then make inferences about human behavior based upon this distribution (Kelly 3013). Critics of such examples, and the application of this theory overall, point to the absence of human agency and the depiction of the environment as a passive backdrop in which humans are merely trying to survive (Bamforth 2009; Hegmon 2003; Mitchell 2006). Many of these critical responses also point to notions of environmental determinism and problematic concepts of cultural evolution (Bamforth 2009; Hegmon 2003; Mitchell 2006). Some have called for a more holistic approach by combining numerous methodologies and frameworks, creating what Hegmon (2003) calls "processual-plus."

Contemporary research in the Plains has focused on bringing together environmental analysis, ethnographic literature, deep time, and moving away from "the arbitrary division between history and prehistory" (Scheiber and Clark 2008:2). Newer methodologies and theories incorporate and focus on cultural aspects and considers the dynamic and inseparable relationship between the physical environment and human life (Mitchell 2006). In an effort to address some of the theoretical issues posed above and incorporate more contemporary frameworks, this thesis documents and analyzes collections from areas which are currently "blank spots" of indigenous history in the region. It also aims to highlight the environmental possibilism of indigenous
groups, instead of focusing on environmental limitations. This concept is inspired by Lemke (2018:11-12):

Rather than environmental determinism, the analysis of such flexibility can be referred to as environmental possibilism, the understanding that while the resource structure (including access to freshwater, primary production, and so on) may limit how intensely some areas can be used, foragers make choices to avoid or limit use in more marginal areas.

This concept is pertinent in the Great Plains, as this region has been largely ignored as a marginal landscape and is often perceived as devoid of permanent settlements (Wedel 1947, 1963). Thus, this research follows in the footsteps of others who focused on similar landscapes, such as the high alpine, that were once identified as peripheral or marginal (Benedict 1996; Benedict and Olson 1978; Cassells 2000; LaBelle and Pelton 2013; Walsh et al. 2007). The study of playa landscapes is another geographical region that has been overlooked. Focusing on such areas, like the high alpine, can reveal the diversity of local signatures of occupation and add to our understanding of the flexibility and diversity of human behavior.

Playa research provides an avenue to better understand the settlement systems of indigenous groups by exploring how the persistent use of a particular landscape shaped the lives and the history of hunter-gatherers within a region. The primary goal of this thesis is to investigate the interaction between people and their environments in a dynamic way. It will bring together traditional analysis of Plains archaeology and contextualize these findings within a landscape framework.

## The Significance of Playa Resources

Water is a critical resource to the survival of human beings. Paleoanthropologists and archaeologists have long studied how ancient hunter-gatherer foraging decisions have been
shaped by the availability of water (Ramsey and Rosen 2016). Most of their attention has focused on permanent water sources such as lakes and rivers, while more ephemeral water resources have been overlooked. Although there are obvious reasons to concentrate on permanent water, wetland environments such as swamps, seasonal streams or playas should not be neglected, as they provide insight into the flexibility and logistical mindset of hunter-gatherers of the past (Nicholas 1998).

There is some research that have focused on these often-mischaracterized wetland landscapes (Kelly 1997; Kelly 2013; Lemke 2018; Nicholas 1998; Wedel 1963). These ephemeral environments are generally located in areas that have relatively homogenous habitats. While these wetlands are often small and short-lived, they provide an ecological break and physiographic boundary of animal and plant diversity that is productive for foragers in the area (Nicholas 1998). Kelly (1997) has argued that wetlands are more biologically dynamic and diverse than open water environments such as large lakes. He states that the increased biological diversity is due to fluctuating water levels, which support a mosaic of flora that cycles between species that are more productive during mesic times and species that thrive in arid conditions, supporting vegetation in both environmental circumstances (Kelly 1997). This is particularly apparent in the Great Plains of North America, especially around seasonal playa lakes, as they provide the primary habitat for the flora and fauna throughout the region (Haukos and Smith 1994). Although there are large changes to the surrounding vegetation and water levels throughout the year, visitation by waterfowl tends to remain relatively consistent (Haukos and Smith 1994). Figure 2 provides an example of the seasonal fluctuation of water and vegetation at a playa lake in Larimer County, Colorado.


Figure 2. Images of a playa in Larimer County, Colorado throughout the seasons of 2020. Top left photo taken in early May, top right in June, bottom left in July, and bottom right in late August. These images illustrate the change in vegetation and water levels.

Over 80,000 playas have been identified across the Great Plains from Nebraska to the Llano Estacado of Texas (Playa Lake Joint Ventures 2019). These wetland environments provide a critical ecological niche that offers a diverse bio-community of resources, especially when compared to the surrounding landscape. In the Southern High Plains, playa features represent the predominant habitation for wildlife in the region with at least 29 mammalian and 130 avian species deemed as playa dependent (Haukos and Smith 1994). Geologic and pollen records indicate that playa ecology of the ancient past looked relatively similar to the present day (Haukos and Smith 1994; Holliday 1997). Historical documentation and the fossil record indicate that mammalian species including bison, black-footed ferret, beaver, and muskrat occupied playa landscapes in the past (Haukos and Smith 1994).

Playas are observed as distinct patch environments across the plains and are likened as a type of ecological island (Litwinionek et al. 2003). Playa islands are relatively isolated from
other water resources in the plains and regional evidence suggests they served as a pull factor for hunter-gather groups in the past (Litwinionek et al. 2003). In prehistoric migration research, the causal factors of movement are often discussed as "push" and "pull" factors, meaning that migrants move across a landscape based upon conditions that either incite (push) or entice (pull) groups to migrate to a new place (Cameron 1995). Within this framework, playas can be classified as a pull factor due to the patchiness of resource availability across the plains, especially water. Kelly (2013) argues that water and fuel are the costliest of all resources (in terms of caloric transport costs) for hunter-gatherers and he suggests that ancient peoples would prioritize the most costly variables when choosing a place for residence. As such, playas in the Great Plains were likely to have been in the forefront of decision making for hunter-gatherer groups, as they not only provide a high priority resource, but additionally provide a diverse array of resources that is largely absent from the general Great Plains landscape.

Although the availability of water may have been a high priority, playas pulled huntergatherers to their shores for access to other purposes as well. Beyond aspects of food and shelter, spiritual, religious, and traditional considerations were also likely part of the decision-making process in finding a good camping spot or place to rest. The following section addresses the potential of playas as a pull factor for hunter-gatherers, specifically for hunting and camping. Types of Playa Use: A Natural Animal Trap

Global research compiled by Nicholas (1998) shows that ephemeral wetland sites were frequently used for small-scale hunting. Nicholas (1998) compares watering holes and other ephemeral wetlands to that of game drives in alpine environments, in which the natural topography assists hunter-gathers in opportunistic hunting episodes. During periods of lower water levels, playas would have been favorable environments for animal congregation (Hill et al.

1995; Holliday et al. 1994). At the paleontological Stolles site, Haynes (2012) indicates that during Clovis times megafauna congregated at playas and are found to have died there naturally. As bison and mammoth instinctively gathered in playas, the thick concentrated clay would have limited any quick movements especially if numerous animals were concentrated within a single area. This would have provided hunter-gatherers the chance to utilize playas for opportunistic scavenging or pursuit hunting (Holliday et al. 1994). Such hunting tactics of group confusion and congregation have also been documented at arroyo trap sites (Todd et al. 2001).

The potential for playas as hunting traps have been recorded archaeologically in the Southern High Plains at the Miami, San Jon, and Big Lake sites in west Texas (Hill et al. 1995; Holliday et al. 1994; Turpin et al. 1997). In particular, the Big Lake site is a prominent example of opportunistic hunting. The environmental and faunal records indicate that the site represents a Late Paleoindian single hunting event where a herd of bison were driven into the lakebed to increase potential hunting yield (Turpin et al. 1997). In southwestern Kansas, the broken legs of the bison at the Winger site similarly suggests that playas were not only places where large game congregated, but that in period of muddy conditions, hunter-gatherers coerced animals into lakebeds as a natural animal trap (Mandel and Hofman 2003). Ancient people's use of the surrounding topography and environmental conditions for reducing hunting risk is a commonly observed phenomenon, not only limited to playas. In Wyoming, the Muddy Creek bison corral exemplifies such land use with a physical corral built within a low depression, where wet mud would have accumulated and impaired stampeding animals that were driven into the corral (Kornfeld et al. 2010).

## Types of Playa Use: A Good Camping Spot

Just as playas attract various animals, they are also good places for people to inhabit. The availability of water, topographical relief, and biodiversity that are all associated with playa habitats provide beneficial and necessary resources for hunter-gatherer communities. An archaeological example from the Great Basin show that no matter how arid the region was, populations congregated around wetland areas and hunting strategies were concentrated towards wetland-specific technologies, such as duck decoys and fishhooks (Kelly 1997). Within the same region, ethnographic data suggests that these seasonal wetlands acted as a residential hub for semi-sedentary populations, providing enough resources for extended periods of generational occupation (Kelly 1997).

While it is clear that playas attracted people of the past, archaeologists have not always clearly defined how they associate sites to playa lakes. Within the literature, only three publications have explicitly defined parameters for an archaeological playa site (Hurst et al. 2010; Judge 1973; Wendorf and Hester 1962). Hurst et al. (2010) and Judge (1973) identified sites to be associated with a playa by its proximity. Within their separate research, they both conclude that all "playa sites" would be within one kilometer of the playa rim. Although Hurst et al. (2010) does not delve into the theoretical reasonings behind this parameter, Judge's (1973) survey of over 30 sites in the Central Rio Grande Valley in New Mexico shows that 18 of these sites were found no more than three-quarters of a mile (1.2 kilometers) from a playa. He also finds that Paleoindian occupations were closest to playas and were found several hundred to 750 meters away (Judge 1973).

Wendorf and Hester (1962) and Kelly (2013) also concur that campsites are typically a distance of one kilometer or less from any water source. In the Great Plains, an analysis of 55 sites by Wendorf and Hester (1962) found that in addition to the one kilometer distance from
water, campsites were also preferred on ridges, dunes, or hills that had a view of a playa or stream. Ethnographically, campsites are also most typically situated within one kilometer of a water source. In Venezuela, the Pumé women carry their daily water to camp and stay within a comfortable 700 meters (Kelly 2013). Other variables to consider for campsites include avoidance of bugs (especially mosquitoes), concealment from animals, and wind (Kiviat 1991). These potential issues can be mitigated by staying away from the rim of a playa but still within a one-kilometer distance, sometimes taking advantage of associated lunettes or other nearby landforms. All 18 playa sites analyzed in this thesis are within this one-kilometer distance established in the literature. Further, this geographic delineation will be reassessed in the final parts of this study.

## Methodology

The primary methods used in this thesis pertain to the analysis and interpretation of stone tools. The following section describes the ways in which artifacts were classified, the variables that were documented, and what sources were used in assigning temporal ranges for diagnostic artifacts. This section also lays out the theoretical perspectives used within the investigation.

## Human Behavioral Ecology

This research employs a variety of human behavioral ecology frameworks, which focuses on understanding adaptive human behavior in response to their natural environments. Nested within this theory is optimal foraging theory, which is a model of hunting and gathering that assesses the most ideal (or optimal) foraging opportunities, taking into consideration risks and constraints (Kelly 2013). These frameworks attempt to address how people respond (adapt) and interact with environmental variables, especially. In terms of playa research, archaeologists use
these theories to predict that playas would be productive places for hunter-gatherers to reside because of the abundance and diversity of plants and animals (i.e. caloric value), especially compared to the surrounding ecosystem. Additionally, the thousands of playas across the Plains increase foraging capacity overall and further reduces hunting and gathering risk. Even in cases when a single playa is dry or unproductive, another nearby playa is likely available, making not only single playas attractive but playa landscapes generally an ideal hunting and gathering space.

The primary approach of this research is through the principle of species-area relationship and hunter-gatherer site selection. Figure 3 depicts the theoretical relationship between these two concepts. Many ecologists and biologists have studied the ecological concept of species-area (Cariveau and Johnson 2007; Connor and McCoy 1979; Hill 2007; Venne et al. 2012).


Figure 3. Visual representation of the principles of species to area relationship and huntergatherer site selection created from archaeological and ecological theory established by Binford 1980, Cariveau and Johnson 2007, Connor and McCoy 1979, and Kelly 2013.

The principle of species-area states that as the physical area and habitat of a particular species increases, the population of that species would also increase. In an archaeological sense,
this would hypothetically improve the available resources for hunter-gatherers, making it more enticing to hunt and live within an area. This type of framework is often used in hunter-gatherer research in discussions of resource exploitation and sustainability of groups and has been observed ethnographically and archaeologically (Binford 1980; Cariveau and Johnson 2007; Connor and McCoy 1979; Kelly 2013). This thesis applies these concepts to playa lakes in the Great Plains, as they provide critical habitats for animal and plant life. Biologists have identified over 108 avian, 29 mammalian, and 70 native plant species that migrate, breed, and live in and around playa lakes in the Southern High Plains (Haukos and Smith 1994; Tsai et al. 2012).

In relation to playa morphology and biodiversity, studies have shown that playa size correlates with longer and more frequent wet periods, which in turn correlates with increased flora and fauna species richness (Venne et al. 2012). In avian species, richness and diversity has also been found to be closely related to increased playa size (Cariveau and Johnson 2007). In flora, fauna, and avian species, Cariveau and Johnson (2007) and Venne et al. (2012) found that playa area was more significant than playa depth as a predicting factor for species richness and diversity. For these reasons, playa shape and size were chosen, as variables for analysis in chapter five.

## Technological Organization

Much of this thesis is focused on lithic assemblages, the various stone tools that ancient hunter-gatherers used in their daily lives and eventually discarded. The organization of this technology can be simply defined as "the regular relationship between tools, activities, and activity planning" (Sellet et al. 2006:224). Theoretically, this relationship is "regular," but is variable as activity planning is situational to factors such as topography, landscape, and season (Sellet et al. 2006). One of the technological patterns most prominent to this research is the basic
concept that increased tool diversity is indicative of site reoccupation or increased occupation span (Kelly 2013; Reckin and Todd 2020; Shott 1986). Several assumptions emerge from this pattern of technological diversity. For example, special task-oriented sites, such as hunting camps, plant collecting stations, or butchering sites, would have a lower tool diversity index than that of a basecamp (Reckin and Todd 2020; Shott 1986). In other words, if a narrow range of activities took place at a particular location, one would expect to find a relatively low diversity index; if a relatively wide range of activities took place at a particular location, the opposite effect should be observed (Andrefsky 2005; Binford 1980).

In relation to water sources, Veth's (2006) research in the Australian desert found that sites with the highest values of artifact diversity were nearest permanent water, and in contrast, ephemeral residences or "passing-through places" (places of rest or non-residential task sites) generally had low artifact diversity. The permanent water allowed people to take advantage of a particular location for a longer period, resulting in a lithic assemblage representing a diverse array of activities including processing of animals and plants, tool manufacture, maintenance, and other day to day activities. In contrast, the lithic assemblages at ephemeral sites near seasonal water sources reveal that people occupied them for less time, and thus participated in fewer activities (resulting in a lower diversity index) (Veth 2006). Although playa sites in the Plains are not permanent water sources, they were likely more than just "passing-though places," based upon the availability and stability of plant and animal resources. For these reasons, playa lithic assemblages in this thesis are expected to have moderate to high artifact diversity, with an archaeological signature that would most closely resemble an aggregation or instead a palimpsest site, as a wide variety of activities were likely to have occurred there over thousands of years.

## Measuring Diversity

As discussed above, diversity indices derived from lithic assemblages can be used to differentiate sites that were occupied for longer or shorter periods. Diversity is traditionally defined as the number of different artifact types that contribute to any given assemblage (Leonard and Jones 1989). Many archaeologists and mathematicians alike have discussed the need for increased specificity when it comes to addressing and using diversity measurements in archaeological analysis (Shott 2010; Shott et al. 1989). To address some of these issues, diversity indices like the Shannon-Weaver or Simpson Index have been implemented to increase scientific rigor. The Shannon-Weaver index is used to calculate the relationship between richness (the number of distinct artifact types) and evenness (the frequency of each distinct artifact type) and the likelihood that a specific artifact would be found within an assemblage. Similarly, the Simpson index measures diversity, but with an additional measure of dominance (the presence of abundant categories) (Reckin and Todd 2020; Spellerberg and Fedor 2003). This thesis uses the Shannon-Weaver index, as many argue it is detached from total sample size and is therefore a more suitable way to measure richness and diversity across assemblages with varied sizes (CruzUribe 1988; De 2007). The 18 lithic assemblages analyzed in this thesis are disparate, ranging from 52 to 1,829 artifacts, thus the Shannon-Weaver index was implemented as the most appropriate method of analyzing diversity.

## Lithic Analysis

The following attributes were recorded for each of the 5,052 artifacts collected from the 18 playa sites: artifact class, artifact element, mass, raw material, presence or absence of cortex, temporal age, type, and portion. Artifact class is characterized by the raw material makeup or functional category of a specific artifact. For example, any modified flaked stone artifacts' class would be recognized as "chipped stone" or CS for short. The artifact element refers to the
specific function of an artifact. Throughout this thesis it is used synonymously with artifact type. Each lithic artifact is organized into artifact categories or class elements, based upon its morphology. Artifact categories include items such as projectile points, bifaces, preforms, hafted knives, edge modified flakes, scrapers, drills, cores, hand stones, and netherstones (See Appendix A for a complete list of categories). Such classifications were made using a basic, broad lithic artifact typology described by Andrefsky (2005). Although the names of the elements are descriptively functional, the tool itself is not assumed to be limited to that function. Nevertheless, the distinct artifact types are assumed to represent a minimum behavior or activity type. For example, bifaces are analyzed as a representation of single distinct behavior, although it is well accepted that a single biface can accomplish various tasks and has a complex use-life (Kelly 1988). Due to the quantity of tools within the assemblages, only the broad morphology of any given tool was assessed. The characterization of artifact types is a critical piece of this thesis, as the number of distinct types results in the diversity indices that are used to analyze occupational duration and intensity.

Another aspect of lithic analysis is the debris and debitage left behind from lithic reduction and tool production. Although the presence of specific debitage types is also indicative of diverse behaviors and activities, in lieu of time and research goals, analysis of debitage was omitted from this study.

## Measuring Time

One of the most important aspects of archaeology is measuring and determining time. The most dependable measure of time is through stratigraphic provenience and independent dating (e.g., radiocarbon dating). However, one of the most common ways of "dating" is through artifact types that are potentially diagnostic to a specific period (Urban and Shortman 2012).

Such typologies are constructed from artifacts recovered from well stratified and dated contexts. Subsequently, when these same artifact types are found at other sites, their well-understood temporal provenience provides an approximate age for artifacts found at other non-stratified or non-dateable sites. This can be in the form of a broad range of time, such as the transition from older hunting technologies of spear points and darts to the more recent introduction of bows and arrows (Shott 1997). In other situations, artifacts are more indicative of a narrower window of time, such as regional projectile point types that have limited temporal use. This is particularly useful for collector's assemblages, which are typically surface collections with no stratified context.

All of the artifacts examined in this these are strictly limited to the surface. Therefore, approximate time will be determined from the presence of diagnostic artifacts such as projectile points. Other tools and artifact types are also indicative of specific temporal markers (See Appendix B for complete chronology and artifact associations). For example, ceramics in the South Platte River Basin are known to be present only after 1,800 B.P. (Gilmore et al. 1999) and channel flakes are known to be from the fluting process of Clovis and Folsom aged tools from the Early and Middle Paleoindian periods (12,000-10,000 B.P.) (Sellet 2013). The identification of temporally distinct artifacts is based upon peer reviewed literature within the region. Priscilla Ellwood's compilation of Colorado pottery informed the ceramic identification (Ellwood 2002). Classification of Paleoindian gravers, channel flakes, and preforms were based upon research from Amick (1999), Sellet (2013), and Wilmsen and Roberts (1978). The South Platte River Basin chronology and projectile point typology will follow Gilmore et al. (1999). Projectile point identification has an expansive literature that is detailed in Table 1. Additionally,
broad regional literature, including Gilmore et al. (1999), Kornfeld et al. (2010), and Peck (2011), were also used for projectile point classification.

Table 1. Resource list for projectile point classification.

| Period | Stage | Type | Reference |
| :---: | :---: | :---: | :---: |
| Paleoindian | Early | Clovis | Boldurian (2008) |
|  | Middle | Folsom | Amick (1999); Meltzer et al. (2002); Wilmsen and Roberts (1978) |
|  | Late | Agate Basin | Guarino (2018); Kornfeld (2013); Irwin-Williams et al. (1973) |
|  |  | Alberta | Irwin-Williams et al. (1973) |
|  |  | Angostura | Thoms (1993) |
|  |  | Eden | Frison (1984) |
|  |  | Hell Gap | Irwin-Williams et al. (1973) |
|  |  | James Allen | Mulloy (1959) |
|  |  | Scottsbluff | Frison (1984) |
| Archaic | Early | Mount Albion | Benedict and Olson (1978) |
|  | Middle | Duncan-Hanna | Davis and Keyser (1999) |
|  |  | Mallory | Davis and Keyser (1999) |
|  |  | McKean | Davis and Keyser (1999); Kornfeld et al. (1995) |
|  | Late | Yonkee | Bentzen (1962) <br> Todd et al. (2001) |
|  |  | Besant/Outlook | Bubel (2014) |
|  |  | Pelican Lake | Peck (2011) |
| Late Prehistoric | Early Ceramic | Hogback | Somer (1997); Perlmutter (2015) |
|  | Middle Ceramic | Avonlea | Kehoe (1966) |

## Archaeological Research Partners

The archaeological assemblages analyzed in this thesis are from the private collection of avocational archaeologist Mike Toft. As playas in northeastern Colorado are overwhelmingly situated on privately-owned properties, this research would not be possible without collaborations between professionals, private landholders, and avocational archaeologists. Of course, there are various ethical concerns that must be considered when entering such alliances. There is a spectrum of those who participate in archaeology outside of the professional realm,
including single-time collectors, looters, and researchers. Some have intentions to monetize and commodify, rather than to protect (LaBelle 2003a; Pitblado 2014). Others, such as Mike Toft, fall on the opposite end of this spectrum and are cultural resource stewards.

Mike Toft has worked and lived in the region for over 50 years. Toft is a graduate of the very first 1969 Colorado State University archaeological field school and has a long history of working with professional archaeologists. Most notably, he assisted in the analysis and publication of the Nelson site with several academic archaeologists and researchers (Kornfeld et al. 2007). He has also excavated with the Smithsonian Institution at many classic Plains sites including Claypool, Jones-Miller, Donovan, Dutton, and Frasca site (Personal communication Mike Toft 2019). Looking at his history, it is easy to delineate his expertise and professionalism as a cultural resource advocate, as he is well versed in the literature and advocates for the importance of archaeological provenience.

In a similar collaboration, Reckin and Todd (2020) identify several potential issues with the nature of private assemblage. In this study, they highlight the complication of these collections in analyzing artifact diversity, as many collectors are drawn to projectile points and similar formal tools but leave behind items such as utilized flakes, ground stone, and ceramics (Reckin and Todd 2020). In these cases, the diversity indices can rather indicate collector bias instead of ancient behaviors. Although this is a fair assessment of private collections, the assemblages analyzed in this thesis are likely a better representation of the true archaeological record at the sites visited by Toft. His methodology and practice consist of collecting all items including flakes, cores, utilized flakes, ground stone fragments, and ceramics at all sites. As these data were available, this thesis analyzes not just stone tools but all artifact types (except for debitage as discussed above).

## Summary

This research focuses on an environment that is seasonal and patchy, but that provides critical resources for hunter-gatherers across an ecologically homogenous landscape. The biodiversity of playa lakes in the Great Plains can help expand contemporary understanding and representation of ancient hunter-gatherer lifeways. Through a human behavioral ecological lens, this research aims to shed light on diet, technology, and settlement patterns, specifically looking at how peoples of the past lived around playa lakes. Such archaeological research within marginal or seasonally limited environments can shed light into the flexibility of past mobile societies, adding to the environmental possibilism of indigenous groups (Lemke 2018).

Little is known about ancient life near playas in northeastern Colorado, and this theme of marginality is not a new concept within this region. Almost 60 years ago Waldo Wedel (1963) called archaeologists to action to take notice of the often misconceived "Great American Desert." He highlighted the potential and longstanding history of the utilization of ephemeral water sources in the plains. This thesis aims to answer his call by investigating the "blank spots" of indigenous history near playa lakes in the South Platte River Basin.

## CHAPTER TWO: HISTORY OF PLAYA RESEARCH

Much of what is known about playas and their associated archaeology stems from research over the past 60 years in the Southern Plains. The most prominent archaeological and geological publications are those of Vance Holliday (1997) and from notable sites including the San Jon (Hill et al. 1995), Ryan (Hartwell 1995), Miami (Holliday et al. 1994), Big Lake (Turpin et al. 1997), Tahoka Walker (Hurst et al. 2010), and Nall sites (LaBelle et al. 2003). The sites in the Southern Plains are represented primarily by Paleoindian-aged mammoth and bison kill sites, indicated by small lithic assemblages comprised of few projectile points and flakes. Additionally, several Class III surveys in Wyoming (LaBelle 2003b and 2004) and Oklahoma (Brosowske and Bement 1998) also shed light on playa occupations on a broader landscape level. Regarding the biodiversity of playas, research by David Haukos and Loren Smith $(1994 ; 1997)$ have also been fundamental to contemporary understandings of playa landscape ecosystems. Overall, archaeological work has identified only a few sites and regions in the Great Plains that are associated with playas.

## Southern High Plains

Playas in the Southern High Plains provide critical habitats for at least 20 mammalian, 130 avian, and 70 plant species (Haukos and Smith 1994). These species have been deemed playa dependent and have a long evolutionary history alongside the seasonal availability of water. The flora and fauna that are present today looks relatively similar to the ancient past, save for mammalian species which have gone either gone extinct or have extremely low populations, including bison, beaver, black-footed ferrets, and muskrat (Haukos and Smith 1994).

The geochronology of playas in the Southwest indicate that some playa basins are 30,000 years old. Through geochronological reconstruction of playa basins by Holliday et al. (1996), both large and small playas are known to have been formed by the end of the Pleistocene. With increased aridity, the end of the Pleistocene also marks the time when some basins began filling with sediment and continued to fill through the early Holocene. In parallel with sediment fill, stratigraphic analysis also illustrates that playas held water during most of the middle Pleistocene and did not begin drying up until the early Holocene (Holliday et al. 1996). This relatively xeric period in the region is known as the Altithermal, or Hypsithermal, which occurred 8,500 to 4,000 calibrated years B.P. (Wood 1998; Meltzer 1999). This period is marked by reduced forest cover, the expansion of drought-tolerant grasses and decreasing lake levels (Meltzer 1999). Such climate change determined the hydrocycles of playa lakes, and as water levels fluctuated, lacustrine and drought signatures were created in the soil, leaving a distinct transitionary mark. These changes created a conducive environmental record for comparison with the changing subsistence patterns of indigenous peoples.

There are a variety of ancient hunter-gatherer subsistence strategies in the Southern Plains, although the most common are mammoth and bison hunting sites. The Big Lake site (41RG13) in Reagan County, Texas is a single event bison hunting episode, with a minimum of 10 individual bison (Turpin et al. 1997). Turpin et al (1997) recovered in situ bison with articulated leg bones that suggest that the bison died in a standing position. Only one projectile point was recovered among the bison remains, although several others were recovered by local collectors, all of which were Late Paleoindian types. Turpin et al. (1997) interprets this event to have been an incident of opportunistic hunting due to the absence of tools. The sediment composition surrounding the bison bone bed indicate that the event occurred during a relatively
arid period and the bison likely were aggregating in the shallow and muddy water. Site 41 RB13 is just one of many occupations around Big Lake, ranging from the Paleoindian to the Late Prehistoric. The lake itself and the surrounding area has had intensive reconnaissance work from a pipeline project in 1988 resulting in a total of 36 sites that are directly related to the exploitation of Big Lake, although many of these sites were farther than a 1-kilometer distance (Turpin et al. 1997). The Miami site (41RB1) is another single episode hunting event in Roberts County, Texas (Holliday et al. 1994). Researchers recovered one fluted projectile point within the carcass of one adult mammoth. Similar to the Big Lake site, the assemblage is extremely small, and Holliday et al. (1994) suggests that although several scenarios are probable, that it was likely an opportunistic scavenging event rather than a planned hunting episode. Unlike the Big Lake Site, investigations at the Miami site were limited to the basin of the playa and broader playa occupation in the area is unknown (Holliday et al. 1994). The San Jon site (4LA6437) is the final bison kill site dating between the Late Paleoindian and the Late Archaic (Hill et al. 1995). Once again, the analyzed lithic assemblage is small, with only nine points and few pieces of debitage. At the time of the initial investigation, the San Jon site was one of the first recorded multicomponent sites observed within a playa basin (Hill et al. 1995:386). Similar to the Miami and Big Lake sites, whether the bison were pushed into the playa or naturally congregated and subsequently died there is still unknown. In either case, the fragments of projectile points and debitage found within the bone bed indicate that hunter-gatherers exploited the bison remains.

Two other key sites in the Southern Plains, the Ryan and Tahoka-Walker sites, suggest very different playa landscape occupation. The Ryan site (41LU72) is located in Lubbock County, Texas (Hartwell 1995). The site is comprised of at least 114 artifacts, 31 of which are complete. These artifacts were found along the perimeter of a playa but still within the basin.

Although the site has been disturbed by agricultural plowing and alluvial erosion, the clustered nature of the artifacts and the large collection of complete bifaces and tools indicate that the overall site represented a cache. The morphology of the tools and the radiocarbon dates place the cache within the Plainview period (10,000 radiocarbon years B.P.). The final prominent playa site is the Tahoka Walker site (41LY53), located in Lynn County, Texas (Hurst et al. 2010). The site is situated 0.92 kilometers from the playa rim. 41LY53 stands out from among the other playa sites with a large ( $\mathrm{n}=1,442$ ), diverse assemblage, and most notably, the only sites with hearthstones (Hurst et al. 2010). Hurst et al. (2010) interprets the site as an open-air campsite, making it the only playa camp known in Texas.

Lesser known archaeological investigations of playas in the Lubbock Lake area add to the intensity of playa occupations in the Southern Plains. The Perry site (42LU75) is located in Lubbock County, Texas and represents a playa site situated on a lunette (Brown 1999a). 42LU75 has a large Late Prehistoric to Protohistoric assemblage, with much of the analyzed artifacts being from surface collections by local avocational archaeologists. In addition to the lithic artifacts, unlike the other playa sites covered in this section, the Perry site has a large pottery assemblage ( $\mathrm{n}=2,696$ ). Just south of the Perry site is the Wolfforth site (has not received a Smithsonian trinomial number), another private surface collection that represents a multicomponent site spanning from the Middle Archaic to the Protohistoric (Brown 1999b). The Wolfforth site has a diverse array of artifacts including beads, pipe fragments, drill, scrapers, ground stone, and other bifacial tools. The diversity and size of the artifact assemblage at the Perry and Wolfforth site represents a more expansive temporal and functional occupation of playas, especially when compared to the artifact assemblages of bison/mammoth hunting sites
known throughout the region (Hartwell 1995; Hill et al. 1995; Holliday et al. 1994; Turpin et al. 1997).

Outside of Texas, the Nall site (LaBelle et al. 2003) and CRM reconnaissance by Brosowske and Bement (1998) also shed light on playa occupation. The Nall site (34CI134) in Cimarron County, Oklahoma represents a large lithic assemblage with over 1,000 artifacts (LaBelle et al. 2003). The chipped stone tools are comprised of points ( $n=400+$ ) and scrapers $(\mathrm{n}=150+)$. In addition, at least 600 flakes have also been recorded from the site. The most predominant points are from the Late Paleoindian era, especially Allen and Plainview types. Many of the artifacts known from the Nall site are from a local collection accumulated in the early 1930s (LaBelle et al. 2003). More recent work by LaBelle et al. (2003) resulted in one of the largest excavations of any playa site. This work generated a robust assemblage of flakes, and smaller amounts of animal bone and stone tools dating to the Early-Middle Holocene (LaBelle, personal communication 2021).

Many of the sites described above have focused on intra-site level analysis of playa occupation and less research has been dedicated to the broader landscape level. One exception is the work of Brosowske and Bement (1998) in the Oklahoma Panhandle. This reconnaissance project surveyed 5,520 acres focusing specifically on assessing site distribution within a playa landscape. Their landscape approach was guided by concepts of tethered nomadism, a theory introduced by Taylor (1964) which discusses hunter-gatherers being tethered or rooted to a resource because it is scarce elsewhere within the region. During this survey, Brosowske and Bement (1998) recorded 28 sites in close proximity to 14 playas. The results recovered few lithics, with the largest prehistoric assemblage from one site being 40 artifacts. The lithic
analysis determined that activities near playas, although ephemeral, were diverse and included hunting, butchering, tool production, maintenance, and plant processing.

These studies from individual playa sites and landscape surveys from the Southern Plains illustrate the variety of playa occupations, from single episode hunting events, to open camp sites, to caching. The assemblage and playa characteristics of key sites in the Southern Plains literature are detailed in Table 2. The data from the seven sites show that the playas were largely utilized as places for opportunistic hunting ( $n=4 ; 57 \%$ of sites), with some evidence for larger campsites, like the Nall and Tahoka-Walker sites (Hurst et al. 2010; LaBelle et al. 2003). The sites were predominately situated within the playa basin ( $n=4$ ), with some located along the northern ( $\mathrm{n}=1$ ) and northwestern $(\mathrm{n}=2)$ perimeters of the playa.

Comparisons of playa assemblage size show that over $50 \%$ of sites have no more than 10 artifacts, all of which are from mammoth, or bison kill sites. The remaining three sites have extremely large assemblage sizes ranging from 114 to $1000+$ artifacts. The two largest assemblages are the Nall and Tahoka-Walker sites, which are both considered to be campsites. These two sites are comparable with the assemblage size and artifact diversity of the Perry and Wolfforth sites in western Texas. Although these two are lesser known, when added to the prominent playa literature, they paint a much more diverse picture of playa occupation in the Southern Plains. Similarly, although the Southern Plains is well known for its playa archaeology, other subregions of the Plains, including Wyoming and Kansas, also have recorded occupations and can enhance our understanding of ancient hunter-gatherers and playa utilization.

Table 2. Playa data and assemblage characteristics documented from key sites in the Plains.

| Site | State | Site type | Artifact assemblage | Occupation age | Depth <br> (m) | Diameter (m) | Site location | Reference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Winger (14ST401) | KS | Bison Kill | $\begin{aligned} & -\mathrm{PP}(\mathrm{n}=2) \\ & \text {-Flake tool (n=1) } \end{aligned}$ | Late Paleo | 5 | - | In the playa basin | Mandel and Hofman (2003) |
| $\begin{aligned} & \text { San Jon } \\ & \text { (29LA6437) } \end{aligned}$ | NM | Bison Kill | -PP (n=9) <br> -Flakes (n=?; notes indicate few flakes) -Ceramics ( $\mathrm{n}=$ ?) | Late Paleo- <br> Late Archaic | 10 | 360 | In the playa basin | Hill et al. (1995) |
| $\begin{aligned} & \text { Nall } \\ & (34 \mathrm{CI} 134) \end{aligned}$ | OK | Campsite | $\begin{aligned} & \hline \text {-PP }(\mathrm{n}=400+) \\ & \text {-Scraper }(\mathrm{n}=150+) \\ & \text {-Flakes }(\mathrm{n}=600+) \\ & \hline \end{aligned}$ | Late Paleo | 4-6 | 750-1000 | Northwest of playa | LaBelle et al. (2003) |
| Big Lake (41RG13) | TX | Bison Kill | -PP ( $\mathrm{n}=6$ ) | Late Paleo | - | - | North of playa | Turpin et al. (1997) |
| $\begin{aligned} & \text { Miami } \\ & (41 \text { RB1) } \end{aligned}$ | TX | Mammoth Kill | $\begin{aligned} & -\mathrm{PP}(\mathrm{n}=3) \\ & \text {-Scraper }(\mathrm{n}=2) \\ & \text {-Flakes }(\mathrm{n}=2) \end{aligned}$ | Clovis | 1.6 | 23 | In the playa basin | Holliday et al. (1994) |
| Ryan (41LU72) | TX | Cache | $\begin{aligned} & -\mathrm{PP}(\mathrm{n}=14) \\ & -\mathrm{BF}(\mathrm{n}=46) \end{aligned}$ <br> -Flake tool ( $\mathrm{n}=1$ ) <br> -Flakes ( $\mathrm{n}=46$ ) <br> -Ground stone ( $\mathrm{n}=3$ ) | Plainview | - | - | In the playa basin | Hartwell (1995) |
| Tahoka-Walker (41LY53) | TX | Campsite | $-\mathrm{PP}(\mathrm{n}=25)$ <br> -BF (n=29) <br> -Core ( $\mathrm{n}=17$ ) <br> -Flakes (n=965) <br> -Drill ( $\mathrm{n}=4$ ) <br> -Flake tool ( $\mathrm{n}=46$ ) <br> -Hearthstone ( $\mathrm{n}=356$ ) | Paleo-Late Archaic | - | - | Northwestsoutheast of playa | Hurst et al. (2010) |

Dash (-) indicates that the data was unavailable or unreported in the literature.

## Playas in Wyoming and Kansas

The literature of the Southern Plains is vast and although recorded playas sites elsewhere are few, there are several notable playa sites in the Central and Northern Plains, especially the Winger site (14ST401) (Mandel and Hofman 2003) and reconnaissance inventories in Wyoming by LaBelle (2003b, 2004). In southwestern Kansas, the Winger Site (14ST401) located in Stanton County represents a bison kill with the remains of at least six bison (Mandel and Hofman 2003). The positioning of the preserved leg bones indicate that they likely collapsed while standing in thick mud, similar to that of at Big Lake (Turpin et al. 1997). Three lithic artifacts were recovered in the disturbed areas of the site, including a large bifacial thinning flake, ovate biface, and a fragment of an Allen point. Within the bone bed itself, a backed knife and complete and fragmentary Allen points were recovered in situ. The assemblage at the Winger site is small and is similar to other bison and mammoth kill sites in the Southern Plains.

Farther north, in northeastern Wyoming, several CRM surveys have also identified playa occupations on the landscape level. Class III inventories by LaBelle (2003b; 2004) have found similar occupation patterns recorded in Oklahoma by Brosowske and Bement (1998). Across 3,080 acres of survey, LaBelle (2003b) identified three historic scatters (48CA4588, 48CA4589, 48CA4593), one prehistoric lithic scatter (48CA4594), two isolated points, and one isolated scraper that were all recorded either on the surface of a playa basin or on nearby benches within several hundred meters of a playa (LaBelle 2003b). Another large inventory ( 5,153 acres) found several playa sites including an isolated late Paleoindian point and three prehistoric sites (48CA4774, 48CA5214, and 48CA5215). Both sites 48CA4774 and 48CA5214 had few artifacts and were situated on a flat plain (LaBelle 2004). In contrast, site 48CA5215 was the only site situated on a knoll and had the largest lithic assemblage ( $\mathrm{n}=55$ ). The artifacts analyzed from site

48CA5215 were diverse and included items such as a drill and ground stone fragments. The Class III inventory shows that most of the prehistoric sites were ephemeral lithic scatters or isolated finds (except for site 48CA5215), almost identical to the Brosowke and Bement (1998) surveys in Oklahoma (LaBelle 2004). Additionally, all the sites were located either within the basin or along the northwest, north, northeast, or eastern perimeter. This directional pattern has also been observed in the Southern High Plains.

Several other geologic and biologic studies in eastern Wyoming by Bowman (1997), Brough (1996), and Holpp (1977) have recognized playa landscapes for their resources potential but have yet to be the focus of any archaeological inquiry.

## Discussion

Although playas are one of the primary landforms on the Great Plains, there is a relatively limited literature on the occupation of these seasonal lakes. The Southern Plains has the most research, followed by CRM literature in Wyoming. There are at least seven key sites (Table 2) that form contemporary understandings of hunter-gatherer lifeways around playas. Several themes stand out when assessing the sites side by side. First, the archaeology at playa lakes are either extremely small, less than 10 artifacts, or extremely large, more than 1,000 artifacts. Related to collection size, four of the seven lithic and faunal assemblages indicate that sites were single event hunting episodes, while only two sites suggest any longer-term occupations or camps.

Second, the analysis of the sites revealed a distinct pattern of being situated within the playa basin itself or along the northern perimeters. The location of the site and site type seems to correlate with this small data set, as all kill sites were within the basin and camp sites were on the uplands. The third pattern observed among the seven playa sites is their temporal occupation.

Much of the chronology of playa sites are primarily represented by the Late Paleoindian era, although there are some Archaic representations at the San Jon and Tahoka-Walker sites (Hill et al. 1995; Hurst et al. 2010). All seven sites have diagnostic artifacts from the Paleoindian period, contributing to a current assumption that playa use is primarily a Paleoindian phenomenon (Judge 1973). Not until a consideration of broader playa literature, such as the Perry and Wolfforth sites, are there any representation of the Late Prehistoric period (Brown 1999a, 199b).

A final theme not related specifically to playa archaeology but regarding discovery is that almost all sites (apart from the Big Lake site) were initially discovered by avocational archaeologists. Many of the investigations begin with the analysis of surface collections that then lead researchers to deeper questions and ultimately to complete excavations (Brown 1999a; Holliday et al. 1994; Hill et al. 1995; LaBelle et al. 2003). Such a pattern has also been observed in Paleoindian research, specifically in regard to Clovis aged sites (Pitblado 2014). Pitblado (2014) lays out the importance of avocational and professional partnerships in archaeological research by providing a case study of Clovis period occupations. Many of the Clovis-aged sites are known solely because of the willingness of both private landowners, i.e. collectors, and professional archaeologists to work together. If not for this partnership, much of the data that contributes to our interpretations of the earliest peoples living in the Great Plains would be unknown. If such partnerships were not prioritized, this displaced data would change our entire perception of early human colonization (Pitblado 2014). Similarly, ancient hunter-gatherer movement across the Plains, specifically regarding playas, has been informed by collaborations with non-professionals. Further studies, such as this thesis, prove why such partnerships are crucial.

Playa landscapes provide resource diversity for both animals and for indigenous groups of the past who hunted and gathered across the Great Plains. These examples throughout the Southern Plains and beyond suggest that wetland environments are highly productive and have been part of ancient cultures and lifeways. This archaeological evidence suggests that playas were likely chosen for both spontaneous and longer-term purposes ranging from single encounter hunting traps to tool caches, to campsites with longer occupations. The current playa literature discusses a long record of hunter-gatherer utilization of playa landscapes, specifically during the Paleoindian and into the Archaic period, with a high frequency of mammoth and bison exploitation. Although contemporary research from the Southern Plains, Wyoming, and Kansas is critical for research, it still provides only a limited view of playa landscape use.

Other regions within the Great Plains, particularly in the Central Plains, remain largely unexplored. In the state of Colorado, very few playas are known to be associated with archaeology, let alone targeted for survey. This is in spite of the fact that there are over 8,000 playas identified throughout the state, with at least 4,000 of those in eastern Colorado (Playa Lake Ventures 2019). Much of this is due to private land ownership, which impedes professional or academic investigation because of the lack of Section 106 work within the region. To better understand the playas within the study area of the South Platte River basin, the following chapter aims to set a baseline and to identify the gaps in our understanding of the archaeology of playas in northeastern Colorado.

## CHAPTER THREE: PLAYA ARCHAEOLOGY IN COLORADO

There are strikingly few recorded playa sites within the state of Colorado. However, based on data from the Southern Plains and the high frequency of playas generally, this thesis proposes that there is great potential for playa archaeology in the state. Paired with analysis of privately known sites by local avocational archaeologist Mike Toft, a new picture of huntergatherer subsistence in the plains begins to emerge. This new data show that playa settlement is not limited to the Southern High Plains or anomaly sites in the Northern Plains. This chapter will discuss and examine playas generally within the state of Colorado, the archaeological record within the database of the Office of Archaeology of Historic Preservation (OAHP), and the few playa-focused surveys and playa sites within the study area of the South Platte River Basin.

## Mapping Playas in the Great Plains

A regional stewardship group called Playa Lakes Joint Ventures (PLJV) has mapped and studied the presence and distribution of playa lakes for habitat conservation purposes. This organization was established in the 1990s and has worked to conserve and preserve playa lake landscapes for migrating bird populations (Playa Lakes Joint Ventures 2019). PLJV has created an interactive digital map of the location of all potential playas within the states of Nebraska, Kansas, Colorado, Oklahoma, Texas, and New Mexico. The locations of playas were determined by compiling polygons derived from GIS data within SSURGO Soils, Landsat, National Wetlands Inventory, National Agricultural Imagery Program, National Hydrography Dataset, and the Nature Conservancy (Boagerts 2019). This open source data indicate that Colorado alone has 8,049 playas, primarily clustered in the eastern half of the state. There are a total of 2,444 playas in the five counties within the study area of this thesis, comprising $30 \%$ of the state total. Within
the entire study area, including Chase county in Nebraska, there are 4,230 playas. The playa frequency in each of the six counties are as follows: Washington ( $\mathrm{n}=1,180$ ), Sedgwick ( $\mathrm{n}=404$ ) Weld ( $n=357$ ), Phillips ( $n=288$ ), Logan ( $n=215$ ), and Chase County ( $n=1,786$ ) (Figure 4).


Figure 4. Distribution of playa lakes within the six counties in the study area: Chase, Logan, Phillips, Sedgwick, Weld, and Washington.

The PLJV database provides numerous variables related to the characteristics of each playa such as size, soil composition, integrity, and proximity to roads. The playas within the study area range in size from 60 to $1,000,000 \mathrm{~m}^{2}(0.015$ acres to 247 acres $)$. Most of the playas were less than 1 hectare ( $n=2,395 ; 57 \%$ ) with $78 \%$ of these falling between $0.5-1$ hectare. A total of 1,604 playas were within the 1 to 5 -hectare range, representing $34 \%$ of all playas. Only 13 playas were larger than 20 hectares, with only 3 of these ranging between 51 to 100 hectares.

While the original dataset does not include the roundness of playas, both size and roundness are significant to this research as variables known to correlate with longer and more frequent wet periods (Sabin and Holliday 1995; Venne et al. 2012). The increased periods of
moisture also correlate to increased species richness and diversity, especially in avian species and some flora (Cariveau and Johnson 2007). Additionally, Venne et al. (2012) found that the area of playa was more of a predictor of species richness and diversity that playa depth. The following will provide an overview of the general shape and size of all playas within Chase, Logan, Phillips, Sedgwick, Weld, and Washington Counties.

The relative circularity was manually calculated using the basic equation for roundness:

$$
\text { Circularity }=\frac{4 \pi A}{P^{2}}
$$

This equation calculates the relative circularity or roundness of each playa and produces a value which determines how closely the shape resembles a mathematical circle, by multiplying 4 by $\pi$ (3.14) and dividing this value by $p$ (perimeter) squared. A value of 1 signifies a perfect circle and a value near 0 signifies a linear polygon. Figure 5 provides a visual example of the range of variation in playa circularity in a small section of Phillips County.


Figure 5. Examples of the variation within each circularity value range. The blue column indicating values closest to 0 , representing linearly shaped playas, and the red column indicating values closes to 1 , representing the most circular playas.

As most geologic and hydrologic definitions of playas indicate circularity to be a key component of playa formation, most of the playas in the South Platte River Basin are relatively circular; with $82 \%$ having a value of 0.66 and above, and $33 \%$ of these being above the values of 0.87 . On average, these playas have a circular value of 0.79 . The shape and size of the playas within the study area indicate that they are morphologically conducive for supporting a diverse population of flora and fauna (Sabin and Holliday 1995; Venne et al. 2012). Given that the size
and shape have not changed significantly, and that many of these water basins were formed in the Late Pleistocene, researchers can use this modern playa data to examine the potential of these landscapes for ancient hunter-gatherers (Haukos and Smith 1994; Holliday et al. 1996).

The Playa Lakes Joint Ventures data reveal that there are at least 8,049 playas within the state of Colorado, but little is known about the archaeology surrounding them. The sites in the Southern Plains demonstrate that there is great potential to test whether playas in the Central Plains were also utilized by ancient peoples of the past. The following sub-section will compare the known playa locations with the total recorded playa sites within the Colorado state database and investigate the gaps in the archaeological record.

## Recorded Sites in the State Database

To get a baseline for the presence of playa archaeology generally within the South Platte River Basin, an initial search was carried out within the site records of the Office of Archaeology and Historic Preservation (OAHP) in Colorado. Figure 6 shows this contrast of archaeological research across the state, with a large number of sites recorded in the central and western portion of the state, and very few sites recorded in the northeast corner. The frequency and distribution of recorded sites across the state is a reflection of modern-day land holdings and the lack of CRM or academic endeavors in certain regions. As of 2019, when this search was initiated, a total of 2,912 prehistoric and historic sites were recorded within the database of the Colorado OAHP in the five counties of Logan, Phillips, Sedgwick, Washington, and Weld. Analysis of recorded sites in Chase County, Nebraska were omitted due to different OAHP standards and procedures. At least $88 \%$ of the total sites within the five counties were recorded in Weld County ( $\mathrm{n}=2565$ ). The remaining $12 \%$ of prehistoric sites are distributed throughout Logan ( $\mathrm{n}=221$; $7.8 \%$ ), Phillips ( $n=6 ; 0.2 \%$ ), Sedgwick ( $n=61 ; 2 \%$ ), and Washington ( $n=59 ; 2 \%$ ) counties,
respectively. Especially striking in this data is the absence of sites in Phillips County, which has less than ten total recorded sites, the lowest recorded in any county in the entire state.


Figure 6. The number of archaeological prehistoric sites recorded in each county in the state of Colorado as of 2019 (data from the OAHP). The highlighted area indicates the counties which are in the study area, Logan, Phillips, Sedgwick, Washington, and Weld Counties, respectively.

To get a broader understanding of playa sites in Colorado, further investigation into the OAHP was instigated for this research. This included a keyword search of all prehistoric sites, site form evaluation, and analysis of topographical maps. The keyword search request consisted of both colloquial and local terms for playas. The searched words included: playas, lakes, ponds, lacustrine, wetlands, lagoons, watering hole, buffalo wallow, and prairie pothole. Following this search, sites were verified through a detailed analysis of site forms. The qualifications for this secondary analysis included sites that had a prehistoric component, a site that is less than 1000
meters from the rim of a playa, and a clear topographical depression that is recognizable from aerial images and topographic maps as established in playa identification methodologies (Bowen et al. 2010; Holliday 1997; Sabin and Holliday 1995). This keyword search and site form analysis resulted in only one prehistoric site in Kit Carson County, the Witzel site (5KC225). However, there are at least three other previously known playa sites that did not surface during this analysis (these will be discussed in the coming section). This issue calls attention to the difficulties of using large data sets as such from the OAHP, but also the potential problems with the current structure of site recording and limited understandings of playa landscapes.

The Witzel site (5KC225) in Kit Carson County, Colorado is a Cody Complex bison bonebed that soil surveyors detected in the 1970s (Cassells 1983; LaBelle and Holen 2005). Investigation by archaeologist Dennis Stanford shortly following the initial findings and reported several Cody complex tools within a large playa basin that measured 741 acres and a depth of 12 meters. Additionally, a large bison bone was dated to $7160 \pm 135$ radiocarbon years B.P., further supporting the material culture identified as being part of the Cody Complex (Cassells 1983; LaBelle and Holen 2005). In a more recent site revisit, LaBelle and Holen (2005) established communication with current landowners which revealed an additional scraper that had eroded from the cut bank since the original investigations.

Although the OAHP search resulted in only one recorded playa site in Colorado, there are several that are known within the archaeological literature. During a Class III survey near the Witzel site, LaBelle and Holen (2005) also recorded an additional site (5KC224) and isolated flake (5KC218) both in close proximity to a playa. Site 5 KC 224 was recorded as a prehistoric open lithic camp southeast of a playa. This artifact assemblage comprises of 40 flakes, two bifaces, one scraper, one bison leg bone fragment, and one bison molar. The site was situated, at
the time, on an active agricultural field which propelled exposure of the faunal remains and lithic artifacts (LaBelle and Holen 2005). Around the same time as Dennis Stanford's visit to the Witzel site, he also visited the Dutton (5YM37) and Selby (5YM36) sites in Yuma County, Colorado (Cassells 1983; Stanford 1979). Both the Dutton and Selby sites are situated within separate playa basins that had been developed into gravel pits and much of the recorded archaeology is notably out of context. Both sites contain the remains megafauna including mammoth, horse, bison, and camel, some of which have been dated to pre-Clovis times. Although the mammoth bones were not found in direct association with any material culture, the bones were observed to have human caused breaking, flaking, and percussive marks. Additionally, a chert flake and a single Clovis point were found amongst the construction debris at the Dutton site, further connecting ancient peoples to this site (Stanford 1979). The sites in Kit Carson County and the Dutton and Selby sites suggest that playas in Colorado were utilized and are likely a part of larger landscape use within the region.

## Potential Playa Sites in Colorado

With few results from the OAHP data and no known playa sites recorded within the five counties, a secondary analysis was done to determine whether there are potential playa sites within the study area. Using playa polygons from the Playa Lakes Joint Ventures (2019) data set, a concentric buffer was placed 1000 meters around each playa (from the edge), maintaining the 1-kilometer perimeter established by research in the Southern Plains. All 2,912 prehistoric sites in Logan, Phillips, Sedgwick, Weld, and Washington Counties were then clipped within the 1000-meter buffer to assess the number of potential playa sites in these counties (Figure 7). The results of this analysis are presented in Table 3.


Figure 7. Distribution of the total recorded sites in the study area within the Colorado OAHP database and with an overlay of the one-kilometer playa buffer.

Table 3. Results from the buffer analysis on all 2,912 sites within the counties of Logan, Phillips, Sedgwick, Washington, and Weld.

| Counties | Logan | Phillips | Sedgwick | Weld | Washington | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Sites | 221 | 6 | 61 | 2565 | 59 | 2912 |
| Sites within 1 kilometer of a playa rim | 11 | 0 | 14 | 321 | 17 | 363 |
| Percentage of sites within 1 km of a playa | $5 \%$ | $0 \%$ | $23 \%$ | $13 \%$ | $39 \%$ | $12 \%$ |

A total of 363 sites were found to be within one kilometer of a playa of a playa rim, representing $12 \%$ of the total sites recorded within the study area. The county with the most potential playa sites is Weld county $(\mathrm{n}=321)$, making up $88 \%$ of the total sites near playas. This result is relatively consistent with representation of all Weld County sites ( $\mathrm{n}=2,565 ; 88 \%$ ) within
the entire population of prehistoric sites in the five counties. Washington county has a total of 17 sites, which is $39 \%$ of the total sites within that county, followed by Sedgwick which has 14 sites (23\%) that fall within the playa buffer. The county with the least potential playa sites is Logan county, with only 11 sites (5\%) and Phillips county, which had no recorded sites within one kilometer of a playa.

The results of the playa buffer suggest that there is potential for the 363 sites to give further insight into the occupation and utilization of playas in the ancient past. Unfortunately, individual analysis of 363 site forms and maps is incredibly difficult and time consuming, all of which are major research limitations. This highlights the importance of the format of site recording and data organization. In states such as Wyoming, environmental associations like playas are established within the site form itself, making it easy for prospective big data analysis. Colorado would benefit from such a categorization, not limited to playa landscapes, this would also be helpful for associations with rock shelters, hilltops, or river terraces, to name a few.

## Discussion

Throughout the ancient history of the plains, playas continued to play a major role for hunter-gatherers in the region as isolated uplands that offer diverse and predictable resources (Johnson 2008). This is well established in the Southern Plains with a high frequency of recorded sites in proximity to playas, but as the OAHP data in Colorado show, less is known about these wetland landscapes in the Central Plains.

The paucity of information regarding playa occupation, and more generally the huntergatherer lifeways in the South Platte River Basin, is stark compared to the known archaeology of the rest of the state of Colorado. The Witzel and the Dutton and Selby sites show that there is potential in focusing on playa landscapes across the state (Cassells 1983; LaBelle and Holen

2005; Stanford 1979). Unfortunately, most, if not all, of the playas within the state are located in areas where landownership is private, and little academic or professional work has been undertaken. Therefore, working with local collectors and avocational archaeologists is critical to accomplishing a playa study to create a more representative understanding of ancient culture and lifeways in the South Platte River Basin.

Further, the Witzel site also demonstrates the importance of such collaboration with local landowners and residents as new tools and faunal remains have surfaced since the original investigations in the 1970s (Cassells 1987; LaBelle and Holen 2005). The lack of accessible property (and therefore sites) leads this research to take a non-traditional approach working with a local avocational archaeologist, Mike Toft. He has identified at least 18 playa sites within the six counties of Sedgwick, Weld, Washington, Logan, Phillips, and Chase. There are likely countless other local residents, similar to Mr. Toft and even the landowners of the Witzel site, that have their archaeological collections hidden in basements and left unseen, perpetuating the "blank spots" of human history that we see across the eastern half of the state.

## CHAPTER FOUR: TOFT COLLECTIONS

This chapter details the results of the analysis of 5,052 artifacts from Mike Toft's private collections. Mike Toft is a local avocational archaeologist that has been collecting in the region for the past 50 years. He has assisted in the excavation and archaeological endeavors at many sites within the state including Nelson, Claypool, Jones-Miller, Donovan, Dutton, and Frasca sites (Personal communication Mike Toft, 3/7/2019). He currently serves on the board of the George C. Frison Institute at the University of Wyoming. This experience and expertise are well reflected in his methodologies and practices of data collection.

At each site visit, Toft assigns individual artifacts a unique number and delineates a specific collection area, which correlate to a hand-drawn, 7.5-minute topographic map location. All sites have been visited on more than one occasion, sometimes yearly or even seasonally. The discovery of these sites and the collected artifacts assemblages are a culmination of many years of work; thus, the methodologies have also evolved over time and in more recent years, GPS coordinates are available for collected artifacts. In addition to provenience data, Toft has also archived notes regarding the site location, his personal naming system, distribution of artifacts, past collectors, and any other pertinent information to the site. This following section will provide an overview of the 18 lithic and ceramic assemblages collected within one kilometer of a playa by Mike Toft in the six counties of Chase County, Nebraska, and Logan, Phillips, Sedgwick, Washington, and Weld County, Colorado (Figure 8). In addition to chipped stone tools, ground stone, and ceramics artifacts, thousands of fragments of debitage and debris were also collected and recorded by Mike Toft. Due to the volume of debitage and time constraints, these were not analyzed in this thesis and will not be discussed in the following sections.


Figure 8. Location of all 18 playa sites recorded by Mike Toft within the South Platte River Basin.

## Setting

The 18 playa sites recorded by Mike Toft are clustered within the northeastern region of the South Platte River Basin. Several sites are technically within the state of Nebraska but as they are only within a few miles of the modern-day Colorado state border, they are included within this study.

The South Platte River Basin is located within the northeastern quarter of Colorado and is positioned along the western extent of the Central Great Plains. It is situated on the Colorado Piedmont, which is dissected by the South Platte and the Arkansas Rivers. The Colorado Piedmont is centered between the High Plains region to the north and east and the Raton region to the south (United States Geologic Survey 2006). The vegetation consists of shortgrass prairie, cactus, various wildflowers, and native shrubs. Temperature and weather patterns fluctuate considerably, with winter lows as cold as -20 degrees Fahrenheit and summer highs over 100 degrees Fahrenheit (Benedict 2008; Haukos 1997). The primary water source within the region is the South Platte River, as well as ephemeral springs and playa lakes. Although it is the largest river within the area, its water levels vary throughout the year and at times has run dry as it moves farther from its headwaters near South Park, Colorado (Mehis 1984).

The paleoenvironment within the region has changed during its 13,000-year human history (Cassels 1987; Gilmore et al. 1999; LaBelle 2012). The South Platte River Valley was formed during several climatic episodes when temperatures severely fluctuated, the most transformative climactic period propelling a deglaciation event around 14,000-13,000 calibrated years B.P (LaBelle 2012). Following the formation of the South Platte River Valley, several other warming and cooling events occurred but none that altered the landscape as much as the deglaciation of 14,000 calibrated years B.P. (LaBelle 2012). Today, the region is primarily
known as Colorado's agricultural sector where playas play an important role as stock ponds and water catchments for irrigation (Playa Lakes Joint Ventures 2019).

This thesis provides a site by site overview of the 18 artifacts assemblages associated with a playa. This analysis will include aspects such as where the site is situated in relation to the playa, whether there are one or more playas, the characteristics and frequency of the lithic and ceramic assemblages, and an overview of the temporal chronology of the site.

## Site: 25CH. 100

Toft Site Number: 15.7

Toft Common Name: Goldie's Hill
Temporal Span: Late Archaic - Middle Ceramic (3,000-410 B.P.)
Relation to Playa: Site is east of playa
Distance to Playa: 240 meters
Playa Size: 3.53 acres
Site 25 CH .100 is located in western Chase County, Nebraska just east of the Colorado state line. The site is positioned 240 meters east of a small 3.53-acre playa. Site 25 CH .100 sits on a low-lying, northwest-southeast trending ridge. The nearest mapped alternative water source is Sand Creek, located 3.31 kilometers to the east, and an unnamed drainage 924 meters to the south. It shares the same ridge as two other archaeological sites, 25 CH .103 and 25 CH .101 .

The assemblage comprises 77 artifacts. This consists of chipped stone tools and ground stone. The most numerous artifact type are bifaces $(\mathrm{n}=25)$. The remainder of the assemblage includes cores ( $n=2$ ), edge modified flakes ( $n=6$ ), scrapers ( $n=22$ ), and projectile points ( $n=17$ ). The earliest period of occupation is represented by a single non-diagnostic Early Archaic point, but because of the lack of certainty in point type (absence of diagnostic notching) it was not
included within the temporal span at the site. Of the 17 projectile points, the most represented period is the Late Archaic. Within the Late Archaic, the Pelican Lake point type is the most prevalent, representing at least $41 \%$ of the projectile point assemblage. The Early and Middle Ceramic are represented by just six projectile points. Compared to many of the other nearby sites, the assemblage is relatively small, likely due to impacts from other local collectors as it is easily accessible from a road.

Table 4. Total assemblage size by artifact type from site 25 CH .100 .

| Element | Total |
| :--- | :---: |
| Biface | 25 |
| Core | 2 |
| Edge Modified Flake | 6 |
| End Scraper | 16 |
| Hand stone | 3 |
| Misc. Ground stone | 2 |
| Misc. Scraper | 6 |
| Projectile Point | 17 |
| Site Total | $\mathbf{7 7}$ |

Table 5. Temporal chipped stone artifacts from site 25CH.100.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Archaic |  | (11) |
| Non-diagnostic Early Archaic | n/a | 1 |
| Late Archaic | Pelican Lake | 7 |
| Non-diagnostic Late Archaic | n/a | 3 |
| Late Prehistoric |  | (6) |
| Early Ceramic | Small corner-notched | 2 |
| Middle Ceramic | Avonlea | 1 |
|  | Plains side-notched | 2 |
|  | Unnotched | 1 |
|  | Site Total | 17 |

## Site: 25CH. 101

Toft Site Number: 15.13
Common Name: Dirk's Nob
Temporal Span: Late Paleoindian - Middle Ceramic (10,000 - 410 B.P.)
Relation to Playa: Site is west of playa
Distance to Playa: 660 meters
Playa Size: 9.3 acres
Site 25 CH .101 is located in western Chase County, Nebraska. The nearest mapped alternative water sources are an unnamed drainage, located 640 meters to the south, and Sand Creek, located 3.08 kilometers to the east. It is south of site 25 CH .103 on the same northwestsoutheast trending ridge. The site is 660 meters west of a 9.3-acre playa, with at least eight small (less than 1-acre) ponds within the immediate vicinity.

The total assemblages from 25 CH .101 consists of 178 artifacts. The assemblage is comprised of chipped stone tools and ground stone. Bifaces ( $\mathrm{n}=63$ ) make up the majority of this assemblage followed by projectile points ( $\mathrm{n}=53$ ). Of the 53 projectile points, 51 are temporally diagnostic. The site has one proximal portion of a Paleoindian point, although it was too fragmentary to determine a specific type. Most of the projectile points are from the Middle to Late Archaic ( $\mathrm{n}=35$ ). Only 10 points were Middle Archaic types including, McKean ( $\mathrm{n}=4$ ) and Duncan-Hanna ( $\mathrm{n}=6$ ). The most represented point type within the Archaic are Pelican Lake types $(\mathrm{n}=15)$. One Late Archaic Yonkee point $(\mathrm{n}=1)$ is also present. The remainder of the points are from the Late Prehistoric era ( $\mathrm{n}=15$ ), with small corner-notched points being the most predominant ( $\mathrm{n}=6$ ). The ground stone assemblage is comprised of hand stones $(\mathrm{n}=15)$, netherstones ( $\mathrm{n}=2$ ), and hammerstones ( $\mathrm{n}=2$ ).

Table 6. Total assemblage size by artifact type from site 25CH.101.

| Element | Total |
| :--- | :---: |
| Biface | 63 |
| Drill | 3 |
| Edge Modified Flake | 11 |
| End Scraper | 15 |
| Hammerstone | 2 |
| Hand stone | 15 |
| Misc. Scraper | 12 |
| Netherstone | 2 |
| Preform | 1 |
| Projectile Point | 53 |
| Side Scraper | 1 |
| Site Total | $\mathbf{1 7 8}$ |

Table 7. Temporal chipped stone artifacts from site 25CH. 101.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (1) |
| Non diagnostic Late Paleoindian | $\mathrm{n} / \mathrm{a}$ | 1 |
| Archaic |  | (35) |
| Middle | Duncan-Hanna | 6 |
|  | McKean | 4 |
| Late | Yonkee | 1 |
|  | Pelican Lake | 15 |
| Non-diagnostic Late Archaic | $\mathrm{n} / \mathrm{a}$ | 9 |
| Late Prehistoric |  | (15) |
| Early Ceramic | Small corner-notched | 6 |
| Middle Ceramic | Avonlea | 4 |
|  | Small side-notched | 4 |
|  | Small tri-notched | 1 |
|  | Site Total | 51 |

## Site: 25CH. 102

Toft Site Number: 15.22

Toft Common Name: Stretsky Section
Temporal Span: Early Paleoindian - Middle Ceramic (12,000-410 B.P.)
Relation to Playa: Site is within the basin; south; northeast of playa
Distance to Playa: 0; 275; 284 meters
Playa Size: 2.61; 6.96; 5.45 acres
Site 25 CH .102 is located in western Chase County, Nebraska. The nearest mapped alternative water sources are an unnamed drainage, located 610 meters to the south and Sand Creek, located 1.5 kilometers to the northeast. Site 25 CH .102 is within a small 2.61 -acre playa and also sits between two additional playas, one 275 meters to the south and another 284 meters to the northeast. Site 25 CH .101 is located only 1.8 kilometers northwest of site 25 CH .102 .

The assemblage consists of 416 artifacts, including ground stone and various chipped stone tools. The most predominant artifact type are bifaces $(\mathrm{n}=81)$ followed by end scrapers $(\mathrm{n}=71)$. The ground stone is comprised of hand stones $(\mathrm{n}=7)$ and netherstones $(\mathrm{n}=1)$. Of the 58 projectile points, all but one is associated with a temporal period. The Paleoindian period is represented by 15 chipped stone tools. Tools from the Early Paleoindian period include, one Clovis point, two gravers, and one preform. The Middle Paleoindian is represented by two points, and nine points are from the late Paleoindian period. Points from the Archaic were the most prevalent ( $\mathrm{n}=33$ ) with 29 being from the Late Archaic, both Besant ( $\mathrm{n}=3$ ) and Pelican Lake $(\mathrm{n}=26)$ types. The Late Prehistoric is represented with 13 projectile points.

Table 8. Total assemblage size by artifact type from site 25CH. 102.

| Element | Total |
| :--- | :---: |
| Biface | 81 |
| Core | 27 |
| Convergent Scraper | 26 |
| Drill | 2 |
| Edge Modified Flake | 55 |
| End Scraper | 71 |
| Graver | 2 |
| Hafted Knife | 3 |
| Hand stone | 7 |
| Misc. Scraper | 39 |
| Netherstone | 1 |
| Projectile Point | 58 |
| Preform | 7 |
| Side Scraper | 37 |
| Site Total | $\mathbf{4 1 6}$ |

Table 9. Temporal chipped stone artifacts from site 25CH. 102.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (15) |
| Early | Clovis | 1 |
| Non-diagnostic Early/Middle Paleoindian | $\mathrm{n} / \mathrm{a}^{*}$ | 3 |
| Middle | Folsom | 1 |
|  | Goshen | 1 |
| Late | Agate Basin | 3 |
|  | Angostura | 1 |
|  | Hell Gap | 1 |
| Non-diagnostic Late Paleoindian | n/a | 4 |
| Archaic |  | (33) |
| Early | Mount Albion | 1 |
| Middle | McKean | 1 |
| Late | Besant | 3 |
|  | Pelican Lake | 26 |
|  | Yonkee | 2 |
| Late Prehistoric |  | (13) |
| Early Ceramic | Small corner-notched | 5 |
|  | Hogback corner-notched | 5 |
| Middle Ceramic | Plains side-notched | 1 |
|  | Upper Republican | 1 |
|  | Small side-notched | 1 |
|  | Site Total | 61 |

[^0]
## Site: 25CH. 103

Toft Site Number: 15.24
Toft Common Name: Stretsky $1 / 2$ Section
Temporal Span: Early/Middle Paleoindian - Middle Ceramic (11,000-410 B.P.)
Relation to Playa: Site is southwest of playa
Distance to Playa: 640 meters
Playa Size: 9.37 acres
Site 25 CH .103 is located in western Chase County, Nebraska. The site is the northernmost site on a northwest-southeast trending ridge. This ridge is shared with sites 25 CH .100 and 25 CH .101 . The site is situated 640 meters southwest of a 9.37-acre playa. The nearest mapped alternative water sources are an unnamed drainage, located 1.4 kilometers to the south, and Sand Creek, located 4 kilometers to the southeast. Compared to its neighboring sites, it has the largest assemblage at a total of 600 artifacts.

The site has a diverse assemblage with fragments of ceramic, ground stone, and various chipped stone tools. The most predominant artifact type are projectile points ( $\mathrm{n}=163$ ) followed by bifaces $(\mathrm{n}=138)$. All ceramic pieces were cord-marked save for one fragment that was too eroded to identify any exterior modification. The vessel portions represented include body fragments ( $\mathrm{n}=40$ ) and one rim fragment. Based upon the variation in cord-marking, it is estimated that the assemblage represented at least 1 vessel. The ground stone is comprised of hand stones $(\mathrm{n}=26)$, netherstones $(\mathrm{n}=8)$, hammerstones $(\mathrm{n}=2)$ and other miscellaneous ground stone fragments $(\mathrm{n}=7)$. Of the 163 projectile points, 147 were temporally diagnostic, with the Early Ceramic being the most represented ( $\mathrm{n}=62$ ).

Table 10. Total assemblage size by artifact type from site 25CH. 103 .

| Element | Total |
| :--- | :---: |
| Biface | 138 |
| Ceramic | 43 |
| Core | 2 |
| Convergent Scraper | 2 |
| Drill | 9 |
| Edge Modified Flake | 61 |
| End Scraper | 72 |
| Graver | 2 |
| Hafted Knife | 3 |
| Hammerstone | 2 |
| Hand stone | 26 |
| Misc. Ground stone | 7 |
| Misc. Scraper | 28 |
| Netherstone | 8 |
| Projectile Point | 163 |
| Preform | 14 |
| Side Scraper | 19 |
| Spokeshave | 1 |
| Site Total | $\mathbf{6 0 0}$ |

Table 11. Temporal chipped stone artifacts from site 25 CH .103 .

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (10) |
| Non-diagnostic Early/Middle Paleoindian | $\mathrm{n} / \mathrm{a}$ | 1 |
| Late | Alberta | 1 |
|  | Angostura | 1 |
|  | James Allen | 2 |
| Non-diagnostic Late Paleoindian | n./a | 5 |
| Archaic |  | (60) |
| Early | Mount Albion | 5 |
| Middle | Duncan-Hanna | 2 |
|  | McKean | 20 |
| Non-diagnostic Middle Archaic | n/a | 2 |
| Late | Besant | 9 |
|  | Pelican Lake | 20 |
| Non-diagnostic Late Archaic | n/a | 2 |
| Late Prehistoric |  | (77) |
| Early Ceramic | Small corner-notched | 39 |
|  | Hogback corner-notched | 23 |
| Middle Ceramic | Avonlea | 1 |
|  | Plains side-notched | 4 |
|  | Prairie side-notched | 4 |
|  | Small side-notched | 5 |
|  | Tri-notched | 1 |
|  | Site Total | 147 |

## Site: 5LO. 1014

Toft Site Number: 38.178

Toft Common Name: Hatch Lake
Temporal Span: Late Paleoindian - Middle Ceramic (10,000 - 410 B.P.)
Relation to Playa: Site is within the playa basin
Distance to Playa: 0 meters
Playa Size: 5.33 acres
Site 5LO. 1014 is located in northwestern Logan County, Colorado. The site is situated within the basin of a playa. The nearest named alternative water source is George Creek, located 1.81 kilometers to the southwest. There site is surrounded by several other smaller playas 2 kilometers to the south and west.

The assemblage consists of 97 total artifacts, including chipped stone tools and ground stone. The most prevalent artifact type are projectile points ( $n=24$ ). Out of the total projectile points, 22 of them fit within a temporal typology. Only one point was identified as Paleoindian, which was a base of an Angostura point type. The Late Archaic was the most represented with a total of 13 points, 12 of which were Pelican Lake point types. The Late Prehistoric is represented by 8 projectile points, with the majority being Early Ceramic point types (n=5). The ground stone is comprised of hand stones ( $n=4$ ), netherstones ( $n=17$ ), hammerstones ( $n=2$ ), and other miscellaneous ground stone fragments $(\mathrm{n}=21)$. The rest of the assemblage is comprised of drills $(\mathrm{n}=2)$, scrapers $(\mathrm{n}=6)$, and bifaces $(\mathrm{n}=20)$.

Table 12. Total assemblage size by artifact type from site 5LO.1014.

| Element | Total |
| :--- | :---: |
| Biface | 20 |
| Drill | 2 |
| Edge Modified Flake | 1 |
| End Scraper | 3 |
| Hammerstone | 2 |
| Hand stone | 4 |
| Misc. Ground stone | 21 |
| Misc. Scraper | 2 |
| Netherstone | 17 |
| Projectile Point | 24 |
| Side Scraper | 1 |
| Site Total | $\mathbf{9 7}$ |

Table 13. Temporal chipped stone artifacts from site 5LO.1014.

| Temporal Age | Type | Total |
| :--- | :--- | :---: |
| Paleoindian | $\mathbf{( 1 )}$ |  |
| Late | Angostura | 1 |
|  | Archaic | $\mathbf{( 1 3 )}$ |
| Late |  | 1 |
|  | Pelican Lake | 12 |
| Late Prehistoric |  | $\mathbf{( 8 )}$ |
| Early Ceramic | Small corner-notched | 5 |
| Middle | Small side-notched | 3 |
| Site Total |  | $\mathbf{2 2}$ |

## Site: 5LO. 1015

Toft Site Number: 38.264
Toft Common Name: House Prints
Temporal Span: Early/Middle Paleoindian - Middle Ceramic (11,000-410 B.P.)
Relation to Playa: Site is southwest of playa
Distance to Playa: 120 meters
Playa Size: 3.69 acres
Site 5LO. 1015 is located in central western Logan County, Colorado. The site is situated on flat terrain 120 meters west of a 3.69 -acre playa. The nearest alternative water source is Spring Creek, 2.15 kilometers to the southwest, and Brush Creek, 4.88 kilometers to the west.

The assemblage from the site consists of 368 total artifacts, including chipped stone tools, ground stone, and ceramics. The ceramics are comprised of primarily body fragments ( $\mathrm{n}=24$ ) and unidentified sherds $(\mathrm{n}=11)$. All fragments save for one were cord-marked. It is estimated based upon the variation of the cord-marking and morphology that the assemblage represents at least 1 vessel. The ground stone is comprised of hand stones ( $\mathrm{n}=3$ ), netherstones ( $\mathrm{n}=89$ ), and miscellaneous ground stone fragments ( $\mathrm{n}=62$ ). Many of the ground stone fragments are small, averaging 3-4 cm. Overall, chipped stone represented the majority of the assemblage, especially prominent were bifaces $(\mathrm{n}=77)$ and cores $(\mathrm{n}=33)$. The rest of the chipped stone is comprised of projectile points ( $n=25$ ), edge modified flakes ( $n=10$ ), one hafted knife, drills $(n=2)$, gravers $(\mathrm{n}=2)$, scrapers $(\mathrm{n}=27)$, and preforms $(\mathrm{n}=2)$. Although no points are present from the Paleoindian, 2 gravers were analyzed within this assemblage which have been found in other stratified contexts dating to the Early and Middle Paleoindian period. Of the 25 projectile points, all 25 points were identified to fit within a temporal type. The Archaic is the most represented, with

Mount Albion ( $\mathrm{n}=1$ ), Duncan-Hanna ( $\mathrm{n}=3$ ), McKean ( $\mathrm{n}=3$ ), Yonkee ( $\mathrm{n}=1$ ), and Besant point types $(\mathrm{n}=1)$. The remainder of the points are Early Ceramic points $(\mathrm{n}=11)$.

Table 14. Total assemblage size by artifact type from site 5LO.1015.

| Element | Total |
| :--- | :---: |
| Biface | 77 |
| Ceramic | 35 |
| Core | 33 |
| Drill | 2 |
| Edge Modified Flake | 10 |
| End Scraper | 14 |
| Graver | 2 |
| Hafted Knife | 1 |
| Hand stone | 3 |
| Misc. Ground stone | 62 |
| Misc. Scraper | 10 |
| Netherstone | 89 |
| Projectile Point | 25 |
| Preform | 2 |
| Side Scraper | 3 |
| Site Total | $\mathbf{3 6 8}$ |

Table 15. Temporal chipped stone artifacts from site 5LO.1015.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (2) |
| Non-diagnostic Early/Middle Paleoindian | $\mathrm{n} / \mathrm{a}^{*}$ | 2 |
| Archaic |  | (13) |
| Early | Mount Albion | 1 |
| Middle | Duncan-Hanna | 3 |
|  | McKean | 3 |
| Non-diagnostic Middle Archaic | n/a | 1 |
| Late Archaic | Besant | 1 |
|  | Yonkee | 1 |
| Non-diagnostic Late Archaic | n/a | 3 |
| Late Prehistoric |  | (11) |
| Early Ceramic | Hogback corner-notched | 3 |
|  | Small corner-notched | 8 |
|  | Site Total | 24 |

*Comprised of two gravers presumed to be Early/Middle Paleoindian

## Site: 5LO. 1016

Toft Site Name: 38.320

Toft Common Name: Cervi 1 ala Tom Pomeroy
Temporal Span: Early Archaic - Protohistoric (7,500-90 B.P.)
Relation to Playa: Site is west of playa
Distance to Playa: 280 meters
Playa Size: 8 acres
Site 5LO. 1016 is located in northwestern Logan County, Colorado. The site is situated on a low hill slope within a relatively topographically diverse area with several hills and ridges. The site is 280 meters west of an 8 -acre playa. The nearest alternative water sources are Cedar Creek, located 0.61 kilometers to the north and Two-mile Creek, located 1.83 kilometers to the southwest.

The assemblage from the site consists of 318 total artifacts. It is comprised of chipped stone tools and ground stone. The most prevalent artifact type are bifaces ( $\mathrm{n}=67$ ). Other chipped stone tools include cores ( $\mathrm{n}=2$ ), scrapers ( $\mathrm{n}=77$ ), drills ( $\mathrm{n}=3$ ), edge modified flakes ( $\mathrm{n}=9$ ), hafted knives $(\mathrm{n}=2)$, projectile points $(\mathrm{n}=57)$, and preforms $(\mathrm{n}=9)$. Of the 57 projectile points, the most represented period is the Middle Archaic ( $\mathrm{n}=38$ ); McKean type points ( $\mathrm{n}=12$ ) are especially predominant. The site also has the only Protohistoric metal point out of the 18 playa sites. The ground stone assemblage is comprised of hammerstones ( $n=3$ ), hand stones ( $n=31$ ), miscellaneous ground stone fragments $(\mathrm{n}=23)$, and netherstones $(\mathrm{n}=29)$.

Table 16. Total assemblage size by artifact type from site 5LO.1016.

| Element | Total |
| :--- | :---: |
| Biface | 67 |
| Core | 2 |
| Convergent Scraper | 3 |
| Drill | 3 |
| Edge Modified Flake | 9 |
| End Scraper | 60 |
| Hafted Knife | 2 |
| Hammerstone | 3 |
| Hand stone | 31 |
| Misc. Ground stone | 23 |
| Misc. Scraper | 15 |
| Netherstone | 29 |
| Projectile Point | 57 |
| Preform | 9 |
| Side Scraper | 5 |
| Site Total | $\mathbf{3 1 8}$ |

Table 17. Temporal chipped stone artifacts from site 5LO.1016.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Archaic |  | (38) |
| Early | Mount Albion | 2 |
| Middle | Duncan-Hanna | 4 |
|  | McKean | 12 |
| Late | Besant | 3 |
|  | Pelican Lake | 10 |
|  | Yonkee | 1 |
| Non-diagnostic Late Archaic | n/a | 6 |
| Late Prehistoric |  | (11) |
| Early Ceramic | Small corner-notched | 11 |
| Protohistoric |  | (1) |
|  | Metal | 1 |
|  | Site Total | 50 |

## Site: 5LO.1017

Toft Site Number: 38.343
Toft Common Name: Wild Horse Lake
Temporal Span: Middle Archaic - Middle Ceramic (5,000 - 410 B.P.)
Relation to Playa: Site is southwest of playa
Distance to Playa: 650 meters
Playa Size: 86 acres
Site 5LO. 1017 is located in western Logan County, Colorado. The site is situated 650 meters southwest of a large 85-acre playa on flat, open terrain. The playa is presently known as Wild Horse Lake and is fed by Wild Horse Creek. Several other playas are present within a 3kilometer radius from the site. The site is situated in an area of topographic relief where there are many ephemeral creeks and drainages, most prominently Pawnee Creek 6 kilometers to the southwest.

The assemblage at the site consists of 69 total artifacts, including chipped stone tools and ground stone. The ground stone artifacts are comprised of hand stones ( $\mathrm{n}=10$ ), netherstones ( $\mathrm{n}=6$ ), hammerstones $(\mathrm{n}=2)$, and miscellaneous ground stone fragments $(\mathrm{n}=10)$. Overall, chipped stone represented the majority of the assemblage, especially by edge modified flakes $(\mathrm{n}=15)$ and scrapers ( $n=12$ ). The rest of the chipped stone is comprised of bifaces ( $n=7$ ), drills ( $n=5$ ), and projectile points $(\mathrm{n}=2)$. Both the projectile points fit within a temporal type. The Late Archaic is represented by one Yonkee point and the Late Prehistoric is represented by one small tri-notched point.

Table 18. Total assemblage size by artifact type from site 5LO.1017.

| Element | Total |
| :--- | :---: |
| Biface | 7 |
| Convergent Scraper | 1 |
| Drill | 5 |
| Edge Modified Flake | 15 |
| End Scraper | 5 |
| Hammerstone | 2 |
| Hand stone | 10 |
| Misc. Ground stone | 10 |
| Misc. Scraper | 4 |
| Netherstone | 6 |
| Projectile Point | 2 |
| Side Scraper | 2 |
| Site Total | $\mathbf{6 9}$ |

Table 19. Temporal chipped stone artifacts from site 5LO.1017.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Archaic |  | (1) |
| Late | Yonkee | 1 |
| Late Prehistoric |  | (1) |
| Middle | Small tri-notched | 1 |
|  | Site Total | 2 |

## Site: 5LO.1018

Toft Site Number: 38.428
Toft Common Name: Thiessen's
Temporal Span: Late Paleoindian - Early Ceramic (10,000 - 800 B.P.)
Relation to Playa: Site is southeast and north of playa
Distance to Playa: 230; 190 meters
Playa Size: 3.54; 7.22 acres
Site 5LO. 1018 is located in northwestern Logan County, Colorado. The site is situated between two small playas, one 190 meters to the northwest and another 230 meters to the south. The playa to the northwest is 3.54 acres and the playa to the south is 7.22 acres. The two playas are connected by an ephemeral, possibly historically manufactured, drainage. The nearest alternative water source is George Creek, located 2.43 kilometers to the north and east.

The site assemblage consists of 1,829 artifacts comprised of chipped stone tools, ground stone, and ceramics. The most prevalent artifact type are ceramic fragments ( $\mathrm{n}=703$ ). All ceramic pieces were cord-marked body fragments and were very small (average of 2 grams). All vessel portions were represented with body fragments being the most prevalent ( $\mathrm{n}=681$ ), followed by rim ( $\mathrm{n}=14$ ), and base fragments ( $\mathrm{n}=8$ ). Two types of exterior modifications are present including cord-marking and plainware. At least $45 \%(n=316)$ of the ceramic assemblage were cord marked while only $27 \%$ ( $\mathrm{n}=190$ ) exhibited no exterior decoration or modification. The remainder of the ceramic pieces were too fragmentary for identification. Based upon the variation in exterior decoration and rim fragments, it is estimated that the assemblage represents at least two vessels based upon the presence of two distinct exterior decorations. The ground stone is comprised of hand stones ( $\mathrm{n}=72$ ), netherstones $(\mathrm{n}=299)$, hammerstones $(\mathrm{n}=27)$, and other miscellaneous
ground stone fragments $(\mathrm{n}=244)$. Only 11 hand stones and 4 netherstones were complete and the rest were small fragments, ranging from $1-5$ centimeters. Of the 126 projectile points, the most represented period is the Late Prehistoric ( $\mathrm{n}=69$ ). Within the Late Prehistoric period, the Early Ceramic was the most prevalent ( $\mathrm{n}=59$ ). This temporal span is represented by Hogback point types ( $\mathrm{n}=29$ ) and other small corner-notched varieties $(\mathrm{n}=30)$. The Middle Ceramic was represented by Plains side-notched $(\mathrm{n}=8)$ and unnotched points $(\mathrm{n}=2)$.

Table 20. Total assemblage size by artifact type from site 5LO.1018.

| Element | Total |
| :--- | :---: |
| Biface | 217 |
| Ceramic | 703 |
| Convergent Scraper | 6 |
| Drill | 5 |
| Edge Modified Flake | 40 |
| End Scraper | 36 |
| Hafted Knife | 3 |
| Hammerstone | 27 |
| Hand stone | 72 |
| Misc. Ground stone | 244 |
| Misc. Scraper | 19 |
| Netherstone | 299 |
| Projectile Point | 126 |
| Preform | 22 |
| Side Scraper | 9 |
| Spokeshave | 1 |
| Site Total | $\mathbf{1 , 8 2 9}$ |

Table 21. Temporal chipped stone artifacts from site 5LO.1018.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (2) |
| Non-diagnostic Late Paleoindian | n/a | 2 |
| Archaic |  | (50) |
| Non-diagnostic Early Archaic | $\mathrm{n} / \mathrm{a}$ | 2 |
|  | Mount Albion | 3 |
| Middle | Duncan-Hanna | 4 |
|  | McKean | 4 |
| Late | Besant | 1 |
|  | Pelican Lake | 28 |
| Non-diagnostic Late Archaic | n/a | 8 |
| Late Prehistoric |  | (69) |
| Early Ceramic | Small corner-notched | 30 |
|  | Hogback corner-notched | 29 |
| Middle | Plains side-notched | 8 |
|  | Unnotched | 2 |
|  | Site Total | 121 |

## Site: 5PL. 497

Toft Site Number: 48.15
Toft Common Name: Herman's Hill
Temporal Span: Early/Middle Paleoindian - Middle Ceramic (11,000-410 B.P.)
Relation to Playa: Site is south of playa
Distance to Playa: 700 meters
Playa Size: 1.4 acres
Site 5PL. 497 is located in eastern-central Phillips County, Colorado. The site is situated 700 meters south of a 1.4-acre playa. The nearest alternative water source is Wildhorse Creek 2.53 kilometers to the north and Frenchman Creek 4.17 kilometers to the south. There are several smaller playas within 2 kilometers of the site.

The assemblage at site 5PL. 497 consists of 52 artifacts, including chipped stone tools, ground stone, and ceramics. Only one ceramic sherd is present within the assemblage. The sherd is a body fragment with no exterior modification or decoration. The ground stone is comprised of hand stones ( $\mathrm{n}=2$ ), netherstones $(\mathrm{n}=1)$, and other miscellaneous ground stone fragments $(\mathrm{n}=1)$. Overall, chipped stone represented the majority of the assemblage, especially by scrapers ( $\mathrm{n}=26$ ). The rest of the chipped stone is comprised of bifaces ( $n=7$ ), one channel flake, one drill, edge modified flakes $(\mathrm{n}=3)$, one graver, one hafted knife, and projectile points ( $\mathrm{n}=7$ ). Although no points from the Paleoindian period were observed, the presence of a channel flake and graver indicate that ancient people inhabited the site in some capacity during that period. All seven projectile points fit within a specific type, with the Archaic being the most represented ( $\mathrm{n}=4$ ). Points from the Early Ceramic period include small corner-notched ( $\mathrm{n}=2$ ) and one small sidenotched point types.

Table 22. Total chipped stone assemblage by artifact type from site 5PL.497.

| Element | Total |
| :--- | :--- |
| Biface | 7 |
| Ceramic | 1 |
| Channel Flake | 1 |
| Convergent Scraper | 3 |
| Drill | 1 |
| Edge Modified Flake | 3 |
| End Scraper | 15 |
| Graver | 1 |
| Hafted Knife | 1 |
| Hand stone | 2 |
| Misc. Ground stone | 1 |
| Misc. Scraper | 4 |
| Netherstone | 1 |
| Projectile Point | 7 |
| Side Scraper | 4 |
| Site Total | $\mathbf{5 2}$ |

Table 23. Temporal chipped stone artifacts from site 5PL.497.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (2) |
| Non-diagnostic Early/Middle Paleoindian | $\mathrm{n} / \mathrm{a}^{*}$ | 2 |
| Archaic |  | (4) |
| Middle | Duncan-Hanna | 1 |
| Non-diagnostic Late Archaic | n/a | 3 |
| Late Prehistoric |  | (3) |
| Early Ceramic | Small corner-notched | 2 |
| Middle | Small side notched | 1 |
|  | Site Total | 9 |

[^1]
## Site: 5PL. 498

Toft Site Number: 48.16
Toft Common Name: Weber's Hill
Temporal Span: Early Paleoindian - Middle Ceramic (12,000 - 410 B.P.)
Relation to Playa: Site is south of playa
Distance to Playa: 220 meters
Playa Size: 24.27 acres
Site 5PL. 498 is located in northeastern Phillips County, Colorado. The site is situated 220 meters south of a 24.27-acre playa that is split in half by a road. Several smaller playas are also found less than one kilometer away. The nearest mapped alternative water source is Wildhorse Creek, located 4.19 kilometers to the south, and an unnamed drainage 924 meters also to the south.

The assemblage comprises 245 artifacts, consisting of chipped stone tools and ground stone. The ground stone includes hand stones $(\mathrm{n}=6)$, netherstones $(\mathrm{n}=3)$, and one hammerstone. Overall, chipped stone tools represented the majority of the assemblage, especially by bifaces $(\mathrm{n}=79)$ and scrapers $(\mathrm{n}=63)$. The remaining chipped stone is comprised of projectile points $(\mathrm{n}=47)$, cores $(\mathrm{n}=6)$, drills $(\mathrm{n}=3)$, edge modified flakes $(\mathrm{n}=14)$, a hafted knife $(\mathrm{n}=1)$, preforms $(n=4)$, and a graver. Of the 47 projectile points, 40 were diagnostic of a temporal type. The Paleoindian period is represented by a Folsom preform and a graver. The Late Paleoindian point types include an Eden point $(\mathrm{n}=1)$ and James Allen points $(\mathrm{n}=2)$. The Archaic is represented by the Early, Middle and Late point types including, Duncan-Hanna ( $\mathrm{n}=5$ ), Besant ( $\mathrm{n}=6$ ), and Pelican Lake points $(\mathrm{n}=3)$. Only four point did not fit within a specific typology, although the neck robusticity and overall morphology most closely resembled that of an Archaic point. The

Late Prehistoric is the most prevalent, with Hogback corner-notched ( $\mathrm{n}=11$ ) and Plains sidenotched types ( $\mathrm{n}=8$ ).

Table 24. Total assemblage size by artifact type from site 5PL. 498.

| Element | Total |
| :--- | :---: |
| Biface | 79 |
| Ceramic | 17 |
| Core | 6 |
| Convergent Scraper | 1 |
| Drill | 3 |
| Edge Modified Flake | 14 |
| End Scraper | 39 |
| Graver | 1 |
| Hafted Knife | 1 |
| Hammerstone | 1 |
| Hand stone | 6 |
| Misc. Scraper | 23 |
| Netherstone | 3 |
| Projectile Point | 47 |
| Preform | 4 |
| Site Total | $\mathbf{2 4 5}$ |

Table 25. Temporal chipped stone artifacts from 5PL.498.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (5) |
| Non-diagnostic Early/Middle Paleoindian | $\mathrm{n} / \mathrm{a}^{*}$ | 2 |
| Late | Eden | 1 |
|  | James Allen | 2 |
| Archaic |  | (18) |
| Non-diagnostic Early Archaic | n/a | 4 |
| Middle | Duncan-Hanna | 5 |
| Late | Besant | 6 |
|  | Pelican Lake | 3 |
| Late Prehistoric |  | (19) |
| Early Ceramic | Hogback corner-notched | 11 |
| Middle Ceramic | Plains side-notched | 8 |
|  | Site Total | 42 |

*Comprised of one graver and one preform presumed to be Early/Middle Paleoindian

## Site: 5PL. 499

Toft Site Number: 48.54
Toft Common Name: Dirk's Colorado Hill
Temporal Span: Middle Archaic - Middle Ceramic (5,000 - 410 B.P.)
Relation to Playa: Site is southeast and southwest of playa
Distance to Playa: 440; 350 meters
Playa Size: 12; 7 acres
Site 5PL. 499 is located in the northeast corner of Phillips County, Colorado. The site is situated south of two playas, one that is 12 acres and another that is 7 acres in size. Both playas are found 440 and 350 meters of the playa rim. The nearest alternative water source is an unnamed drainage 3.31 kilometers to the north and another unnamed drainage 2.41 kilometer to the south.

The assemblage comprises 70 artifacts, including chipped stone tools, ground stone, and ceramics. The ceramics consist of primarily body fragments $(\mathrm{n}=36)$ and one rim fragment. All fragments save for four sherds are cord-marked. These four fragments did not exhibit any exterior modification or decoration. It is estimated based upon the variation of the cord-marking and morphology that the assemblage represents one vessel. The ground stone is comprised of hand stones ( $\mathrm{n}=6$ ) and miscellaneous ground stone fragments ( $\mathrm{n}=2$ ). Overall, chipped stone represents the majority of the assemblage, especially by projectile points ( $n=10$ ). The rest of the chipped stone is comprised of bifaces ( $n=8$ ), edge modified flakes ( $n=4$ ), scrapers ( $n=2$ ), and one preform. The projectile point types ranged from the Middle Archaic to the Middle Ceramic. The Archaic is the most represented, by one Duncan-Hanna, Pelican Lake ( $\mathrm{n}=3$ ), and non-specific

Late Archaic point types ( $n=2$ ). Points from the Late Prehistoric include small corner-notched $(\mathrm{n}=2)$ and small side-notched point types $(\mathrm{n}=2)$.

Table 26. Total assemblage size by artifact type from site 5PL. 499 .

| Element | Total |
| :--- | :---: |
| Biface | 8 |
| Ceramic | 37 |
| Edge Modified Flake | 4 |
| End Scraper | 1 |
| Hand stone | 6 |
| Misc. Ground stone | 2 |
| Misc. Scraper | 1 |
| Preform | 1 |
| Projectile Point | 10 |
| Site Total | $\mathbf{7 0}$ |

Table 27. Temporal chipped stone artifacts from site 5PL. 499.

| Temporal Age | Type | Total |
| :--- | :--- | :---: |
| Archaic |  | $\mathbf{( 6 )}$ |
| Middle | Duncan-Hanna | 1 |
| Late | Pelican Lake | 3 |
| Non-diagnostic Late Archaic |  | 2 |
| Late Prehistoric |  | $\mathbf{( 4 )}$ |
| Early Ceramic | Small corner-notched | 2 |
| Middle | Small side-notched | 2 |
| Site Total |  |  |

## Site: 5SW. 188

Toft Site Number: 58.16
Toft Common Name: Derby Hill
Temporal Span: Late Paleoindian - Middle Ceramic (10,000-410 B.P.)
Relation to Playa: Site is southeast of playa
Distance to Playa: 780 meters
Playa Size: 6 acres
Site 5SW. 188 is located in the southeastern corner of Sedgwick County, Colorado. The site is situated 780 meters southeast of a 6 -acre playa lake. Several smaller playas are also found less than 2 kilometers away. The nearest alternative water sources are two unnamed drainages 1.10 kilometers to the northeast and 2.75 kilometers to the southwest.

The assemblage at the site comprises 51 artifacts, including chipped stone tools, ground stone, and ceramics. Only one ceramic sherd is present within the assemblage. The sherd is a body fragment with no exterior modification or decoration. The ground stone is comprised of hand stones $(\mathrm{n}=8)$ and netherstones $(\mathrm{n}=2)$. The chipped stone represented the majority of the assemblage, especially by projectile points $(\mathrm{n}=18)$. The rest of the chipped stone assemblage includes bifaces $(\mathrm{n}=7)$, edge modified flakes ( $\mathrm{n}=3$ ), scrapers ( $\mathrm{n}=9$ ), preforms ( $\mathrm{n}=18$ ), and one hafted knife. A total of 18 projectile points fit within specific point type. The Paleoindian period is represented by one Angostura point. Points from the Archaic period include Duncan-Hanna $(\mathrm{n}=2)$, Besant $(\mathrm{n}=1)$, Pelican Lake ( $\mathrm{n}=3$ ), and non-diagnostic Archaic point types ( $\mathrm{n}=1$ ). Of the 18 projectile points, the most represented period is the Late Prehistoric, with small cornernotched ( $\mathrm{n}=8$ ), small side-notched ( $\mathrm{n}=1$ ), and Upper Republican points $(\mathrm{n}=1$ ).

Table 28. Total assemblage size by artifact type from site 5SW. 188 .

| Element | Total |
| :--- | :---: |
| Biface | 7 |
| Ceramic | 1 |
| Edge Modified Flake | 3 |
| End Scraper | 5 |
| Hafted Knife | 1 |
| Hand stone | 8 |
| Misc. Scraper | 2 |
| Netherstone | 2 |
| Projectile Point | 18 |
| Preform | 2 |
| Side Scraper | 2 |
| Site Total | $\mathbf{5 1}$ |

Table 29. Temporal chipped stone artifacts from site 5SW.188.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (1) |
| Late | Angostura | 1 |
| Archaic |  | (7) |
| Middle | Duncan-Hanna | 2 |
| Late | Besant | 1 |
|  | Pelican Lake | 3 |
| Non-diagnostic Late Archaic | n/a | 1 |
| Late Prehistoric |  | (10) |
| Early Ceramic | Small corner-notched | 8 |
| Middle | Small side-notched | 1 |
|  | Upper Republican | 1 |
|  | Site Total | 18 |

## Site: 5SW. 189

Toft Site Number: 58.59
Toft Common Name: N/A
Temporal Span: Middle Archaic - Middle Ceramic (5,000 - 410 B.P.)
Relation to Playa: Site is southeast of playa
Distance to Playa: 60 meters
Playa Size: 4 acres
Site 5SW. 189 is located in the southeastern corner of Sedgwick County, Colorado. The site is situated 60 meters southeast of a 4-acre playa. The nearest alternative water sources are two unnamed drainages one 1.85 kilometers to the northeast and another 480 meters to the south.

The site comprises a total of 78 artifacts, including chipped stone tools and ground stone. The ground stone consists solely of hand stones $(\mathrm{n}=4)$. Chipped stone represented the majority of the assemblage, especially dominated by bifaces $(\mathrm{n}=24)$. The rest of the chipped stone is comprised of projectile points $(\mathrm{n}=15)$, scrapers $(\mathrm{n}=22)$, hafted knives $(\mathrm{n}=2)$, one drill, and one preform. All 15 projectile points fit within a temporal period, with the Archaic being the most represented. The Archaic period consists of one non-specific Late Archaic, Duncan-Hanna ( $\mathrm{n}=2$ ), and Pelican Lake point types ( $n=6$ ). The Late Prehistoric period is represented by small cornernotched ( $n=2$ ), one Avonlea, and small side-notched points ( $n=3$ ).

Table 30. Total assemblage size by artifact type from site 5SW.189.

| Element | Total |
| :--- | :---: |
| Biface | 24 |
| Convergent Scraper | 2 |
| Drill | 1 |
| Edge Modified Flake | 8 |
| End Scraper | 10 |
| Hafted Knife | 3 |
| Hand stone | 4 |
| Misc. Scraper | 8 |
| Projectile Point | 15 |
| Preform | 1 |
| Side Scraper | 2 |
| Site Total | $\mathbf{7 8}$ |

Table 31. Temporal chipped stone artifacts from 5SW.189.

| Temporal Age | Type | Total |  |
| :--- | :--- | :---: | :---: |
| Archaic |  | $(9)$ |  |
| Middle | Duncan-Hanna | 2 |  |
| Late | Pelican Lake | 6 |  |
| Non-diagnostic Late Archaic | n/a | 1 |  |
| Late Prehistoric |  |  | $\mathbf{( 6 )}$ |
| Early Ceramic | Small corner-notched | 2 |  |
| Middle | Avonlea | 1 |  |
|  | Small side-notched | 3 |  |
| Site Total |  |  | $\mathbf{1 5}$ |

## Site: 5SW. 190

Toft Site Number: 58.9
Toft Common Name: Hodges Hill
Temporal Span: Early Paleoindian - Middle Ceramic (11,000-410 B.P.)
Relation to Playa: Site is northeast of playa
Distance to Playa: 850 meters
Playa Size: 10 acres
Site 5SW. 190 is located in the southeastern corner of Sedgwick County, Colorado. The site is situated on a low hilltop, 850 meters northeast of a 10-acre playa. The nearest alternative water source is Sand Creek, located one kilometer to the northeast.

The sits assemblage comprises a total 152 artifacts, including chipped stone tools, ground stone, and ceramics. The two ceramic sherds have no exterior decoration or modification and are relatively small (4 and 4.5 gm ). Each represented different portions of the vessel including a base and body fragment, but both are likely from a single vessel. The ground stone is comprised of hand stones ( $\mathrm{n}=21$ ), netherstones ( $\mathrm{n}=6$ ), hammerstones $(\mathrm{n}=2)$, and one miscellaneous ground stone fragment. Overall, chipped stone represented the majority of the assemblage, especially by projectile points $(\mathrm{n}=43)$ and bifaces $(\mathrm{n}=45)$. The rest of the chipped stone is comprised of scrapers ( $\mathrm{n}=12$ ), one drill, and preforms $(\mathrm{n}=8)$. Of the 43 projectile points, 42 fit within a temporal type. One Paleoindian point is identified based upon the fine flaking and basal grounding, although the exact type is unknown. The Archaic is represented by non-specific Archaic points ( $n=5$ ), Mount Albion ( $n=1$ ), Duncan-Hanna ( $n=2$ ), Besant ( $n=4$ ), and Pelican Lake points ( $\mathrm{n}=2$ ). The Late Prehistoric is the most predominant with types including small
corner-notched ( $\mathrm{n}=9$ ), Hogback points ( $\mathrm{n}=13$ ), small side-notched ( $\mathrm{n}=4$ ), and Upper Republican points $(\mathrm{n}=1)$ ).

Table 32. Total assemblage size by artifact type from site 5SW.190.

| Element | Total |
| :--- | :---: |
| Biface | 45 |
| Ceramic | 2 |
| Drill | 1 |
| Edge Modified Flake | 11 |
| End Scraper | 9 |
| Hammerstone | 2 |
| Hand stone | 21 |
| Misc. Ground stone | 1 |
| Misc. Scraper | 2 |
| Netherstone | 6 |
| Projectile Point | 43 |
| Preform | 8 |
| Side Scraper | 1 |
| Site Total | $\mathbf{1 5 2}$ |

Table 33. Temporal chipped stone artifacts from site 5SW.190.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (1) |
| Non-diagnostic Early Paleoindian | n/a | 1 |
| Archaic |  | (14) |
|  | Mount Albion | 1 |
| Non-diagnostic Early Archaic | n/a | 5 |
| Middle | Duncan-Hanna | 2 |
| Late | Besant | 4 |
|  | Pelican Lake | 2 |
| Late Prehistoric |  | (27) |
| Early Ceramic | Small corner-notched | 9 |
|  | Hogback corner-notched | 13 |
| Middle | Small side-notched | 4 |
|  | Upper Republican | 1 |
|  | Site Total | 42 |

## Site: 5WN. 297

Toft Site Number: 61.63-61.71
Toft Common Name: Snyder Lake
Temporal Span: Middle Archaic - Middle Ceramic (5,000 - 410 B.P.)
Relation to Playa: Site is northwest of playa
Distance to Playa: 120 meters
Playa Size: 29.27 acres
Site 5WN. 297 is located in east central Washington County, Colorado. The site is situated 120 meters northwest of a large playa. The nearest alternative water source is Hell Creek, located 2.8 kilometers to the northwest. The playa is 29.27 acres in size, is irregularly shaped, and is split by a road. Although the site is near several ephemeral drainages, it is isolated from any other playas. The site is also situated at the contact of the plains and the Sand Hills. Notes from the original recording of the site indicate at least three separate collection localities. Additional notes state that another collector found a Clovis point near or likely at this location (Mike Toft, personal communication 2019). This point was not analyzed in this thesis.

The site assemblage consists of 104 artifacts, comprised of chipped stone tools, ground stone, and ceramics. The ground stone includes hand stones ( $\mathrm{n}=1$ ), netherstones ( $\mathrm{n}=9$ ), and other miscellaneous ground stone fragments $(\mathrm{n}=2)$. Only one plainware ceramic body fragment was analyzed. The most prevalent artifact type are projectile points ( $n=30$ ). Of the 20 points, the most represented period is the Late Archaic, with 15 Pelican Lake point types.

Table 34. Total assemblage size by artifact type from site 5WN.297.

| Element | Total |
| :--- | :---: |
| Biface | 29 |
| Ceramic | 1 |
| Convergent Scraper | 2 |
| Drill | 1 |
| Edge Modified Flake | 4 |
| End Scraper | 18 |
| Hand stone | 1 |
| Misc. Ground stone | 2 |
| Misc. Scraper | 7 |
| Netherstone | 9 |
| Projectile Point | 30 |
| Site Total | $\mathbf{1 0 4}$ |

Table 35. Temporal chipped stone artifacts from site 5WN. 297.

| Temporal Age |  | Type |
| :--- | :--- | :---: |
| Archaic |  |  |
|  |  | Total |
| Middle | Duncan-Hanna | 1 |
|  | McKean | 1 |
| Late | Besant | 2 |
|  | Pelican Lake | 15 |
|  | Yonkee | 2 |
| Non-diagnostic Late Archaic | n/a | 2 |
| Late Prehistoric |  |  |
| Middle | Unnotched | 1 |
| Site Total |  |  |

## Site: 5WN. 298

Toft Site Number: 61.78
Toft Common Name: Snyder Sprinkler Corner
Temporal Span: Early/Middle Paleoindian - Middle Ceramic (11,000-410 B.P.)
Relation to Playa: Site is northwest of playa
Distance to Playa: 70 meters
Playa Size: 26.99 acres
Site 5WN. 298 is located in central Washington County, Colorado. The site is situated 70 meters southeast of a large 26.99-acre playa. Several smaller playas are also found less than 2 kilometers away. The nearest alternative water sources are several unnamed drainages, the closest being 330 meters northwest, and Jack Creek, located 6.52 kilometers to the southeast.

The site assemblages comprise a total 233 artifacts, including chipped stone tools, ground stone, and ceramics. The most prevalent artifact type is ceramic fragments ( $\mathrm{n}=55$ ). All ceramic pieces are cord-marked, body fragments and are relatively small (average of 3.5 g ). Although no rim fragments were observed, based upon the variation in cord-marking, it is estimated that the assemblage represents approximately 1-2 vessels. The ground stone is comprised of hand stones $(\mathrm{n}=10)$, netherstones $(\mathrm{n}=24)$, hammerstones $(\mathrm{n}=4)$, and other miscellaneous ground stone fragments ( $n=13$ ). Overall, chipped stone represented the majority of the assemblage, especially by projectile points $(\mathrm{n}=48)$ and bifaces $(\mathrm{n}=40)$. The Early/Middle Paleoindian period is represented by a single graver. Projectile points ranged in age from the Late Archaic to the

Middle Ceramic. The most prevalent point is from Late Archaic period, with 11 Pelican Lake type points. Of the 48 projectile points, the most represented period is the Early Ceramic ( $\mathrm{n}=21$ ).

Table 36. Total assemblage size by artifact type from 5WN. 298.

| Element | Total |
| :--- | :---: |
| Biface | 40 |
| Ceramic | 55 |
| Convergent Scraper | 1 |
| Edge Modified Flake | 10 |
| End Scraper | 19 |
| Graver | 1 |
| Hafted Knife | 1 |
| Hammerstone | 4 |
| Hand stone | 10 |
| Misc. Ground stone | 13 |
| Misc. Scraper | 1 |
| Netherstone | 24 |
| Projectile Point | 48 |
| Preform | 5 |
| Side Scraper | 1 |
| Site Total | $\mathbf{2 3 3}$ |

Table 37. Temporal chipped stone artifacts from site 5WN. 298.

| Temporal Age | Type | Total |
| :---: | :---: | :---: |
| Paleoindian |  | (1) |
| Non-diagnostic Late Paleoindian | $\mathrm{n} / \mathrm{a}^{*}$ | 1 |
| Archaic |  | (20) |
| Non-diagnostic Early Archaic | n/a | 1 |
| Middle | Duncan-Hanna | 2 |
|  | Mallory | 1 |
| Late | Besant | 4 |
|  | Pelican Lake | 11 |
|  | Yonkee | 1 |
| Late Prehistoric |  | (22) |
| Early Ceramic | Small corner-notched | 21 |
| Middle | Small side-notched | 1 |
|  | Site Total | 43 |

*Comprised of one graver presumed to be Early/Middle Paleoindian

## Site: 5WL. 9247

Toft Site Number: 62.96
Toft Common Name: Cervi South Lake
Temporal Span: Middle Archaic - Middle Ceramic (5,000 - 410 B.P.)
Relation to Playa: Site is south and southwest of playa
Distance to Playa: 760; 1,080 meters
Playa Size: 4; 10 acres
Site 5WL. 9247 is located in eastern Weld County, Colorado. The site is situated south of two playas, one 760 meters and the other 1,080 meters away. The two playas sit within active cultivated fields. The nearest alternative water source is Spring Creek 60 meters to the south and Cottonwood Creek 5 kilometers to the south. Although the site is close in proximity to Spring Creek, the assemblage size is moderate and are much smaller than other isolated playa sites such as 5LO.1018.

This site assemblage consists of 115 artifacts, including chipped stone tools and ground stone. The ground stone is comprised of hand stones ( $\mathrm{n}=10$ ), netherstones $(\mathrm{n}=11)$, and miscellaneous ground stone fragments ( $\mathrm{n}=22$ ). Overall, chipped stone represented the majority of the assemblage, especially by projectile points $(\mathrm{n}=18)$ and bifaces $(\mathrm{n}=28)$. The rest of the chipped stone is comprised of scrapers ( $n=17$ ), edge modified flakes ( $n=8$ ), and one hafted knife. Of the 18 projectile points, 15 fit within a temporal type. The Archaic is the most represented, with Duncan-Hanna ( $n=2$ ), Yonkee $(\mathrm{n}=1)$, and Pelican Lake point types $(\mathrm{n}=5)$. The Late Prehistoric is represented by small corner-notched ( $n=5$ ) and side-notched point types ( $n=2$ ).

Table 38. Total assemblage size by artifact type from site 5WL. 9247.

| Element | Total |
| :--- | :---: |
| Biface | 28 |
| Convergent Scraper | 1 |
| Edge Modified Flake | 8 |
| End Scraper | 11 |
| Hafted Knife | 1 |
| Hand stone | 10 |
| Misc. Ground stone | 22 |
| Misc. Scraper | 4 |
| Netherstone | 11 |
| Projectile Point | 18 |
| Side Scraper | 1 |
| Site Total | $\mathbf{1 1 5}$ |

Table 39. Temporal chipped stone artifacts from site 5WL. 9247.

| Temporal Age | Type | Total |
| :--- | :--- | :---: |
| Archaic |  | $\mathbf{( 8 )}$ |
| Middle | Duncan-Hanna | 2 |
| Late | Pelican Lake | 5 |
|  | Yonkee | 1 |
| Late |  | Prehistoric |
| Early Ceramic | Small corner-notched | $\mathbf{( 7 )}$ |
| Middle | Small side-notched | 2 |
| Site Total |  | $\mathbf{1 5}$ |

## Summary

Of the 18 sites, four sites were located in Chase County, Nebraska, five sites in Logan County, three sites in Phillips County, three sites in Sedgwick County, two sites in Washington County, and one site in Weld County. Of these, the data is especially significant for Phillips County as the information from this chapter increase the overall county site records numbers by $50 \%$. What becomes abundantly clear is that the current OAHP records of all archaeological sites in the state of Colorado, represents only a small fraction of the reality of the history of the region. The size, diversity, and chronology of these sites indicate that ancient indigenous people occupied the playas landscapes in the South Platte River Basin for over 12,000 years. This is in
stark contrast to the other playa sites in the Southern Plains. The following chapters will provide detailed discussions and analyses of the assemblages regarding their composition, relation to playa, chronology, and diversity.

## CHAPTER FIVE: ANALYSIS—SITE LOCATION AND PLAYA MORPHOLOGY

Hunter-gatherer groups select site locations (campsites, hunting sites, task specific sites, etc.) based on a wide variety of factors including task type, local culture, tradition, geography, and environment (Kelly 2013). As laid out in chapter two, the Southern Plains appear to have some patterns regarding site location near playa lakes. First, across the seven southern Great Plains sites, localities were found to be clustered along the northern perimeters (north and northwest) or were situated within the basin itself. Second, the playas near archaeological sites were found to be relatively small, less than 800 meters in diameter. It is unknown whether these or other patterns are present throughout the plains, and in particular within the South Platte River Basin.

This chapter will analyze in detail several environmental and geographical characteristics of the 18 study area playa sites to investigate if early peoples preferred certain topographical, environmental, or playa characteristics. Table 40 presents a summary of the data, including playa size, distance from site to playa, landform, cardinal direction, and potential alternative water sources for each of the 18 sites. The Playa Lakes Joint Ventures (PLJV) (2019) database provided the values for size, that were also used to calculate playa shape. While site distance was calculated using distance computations through Geographic Information Systems (GIS). The final variable of site topography was determined through topographic maps and satellite imagery. This qualitative topographical analysis comprised of an assessment of contour lines, especially focusing on identifying subtle changes in elevation. Table 41 provides a written description of each landform type and identifies seven landforms as follows: playa, lunette, hilltop, ridge, terrace, slope, and plain.

Table 40. Environmental and morphologic data from the playas associated with the 18 Toft sites. Data include site number, size of playa, distance of nearest secondary playa, the landform where the site is situated, the cardinal direction from playa to site, and the distance to the nearest alternative water source.

| Site | Size of playa <br> (acres) | Nearest playa (meters) | Landform | Direction from playa to site | Nearest alternative water source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 25CH. 100 | 3.53 | 240 | Ridge | East | Unnamed drainage - 924 m Sand Creek - 3.31 km |
| 25CH. 101 | 9.3 | 660 | Ridge | West | Unnamed drainage -640 m Sand Creek - 3.08 km |
| 25CH. 102 | $\begin{aligned} & 2.61 \\ & 6.96 \\ & 5.45 \end{aligned}$ | $\begin{array}{r} 0 \\ 275 \\ 284 \end{array}$ | Playa | Basin <br> South <br> Northeast | Unnamed drainage -610 m Sand Creek - 1.5 km |
| 25CH. 103 | 9.37 | 640 | Ridge | Southwest | Unnamed drainage -1.43 km Sand Creek - 4 km |
| 5LO. 1014 | 5.33 | 0 | Playa | Basin | George Creek - 1.81 km |
| 5LO. 1015 | 3.69 | 120 | Hilltop | Southwest | Spring Creek -2.15 km Brush Creek - 4.88 km |
| 5LO. 1016 | 8 | 280 | Hilltop | West | Cedar Creek - 610 m <br> Two-mile Creek - 1.83 km |
| 5LO. 1017 | 86 | 650 | Low slope | Southwest | Pawnee Creek - 6 km |
| 5LO. 1018 | $\begin{aligned} & 3.54 \\ & 7.22 \end{aligned}$ | $\begin{aligned} & 230 \\ & 190 \end{aligned}$ | Plain | Northwest South | George Creek - 2.43 km |
| 5PL. 497 | 1.4 | 700 | Hilltop | South | Wildhorse Creek - 2.53 km Frenchman Creek -4.17 km |
| 5PL. 498 | 24.27 | 220 | Hilltop | South | Unnamed Creek - 924 m Wildhorse Creek - 4.19 km |
| 5PL. 499 | $\begin{array}{r} 12 \\ 7 \end{array}$ | $\begin{aligned} & 440 \\ & 350 \end{aligned}$ | Hilltop | Southeast <br> Southwest | Unnamed drainage -2.41 km Unnamed drainage -3.31 km |
| 5SW. 188 | 6 | 780 | Plain | Southeast | Unnamed drainage -1.10 km Unnamed drainage - 2.75 km |
| 5SW. 189 | 4 | 60 | Plain | Northeast | Unnamed drainage -1.85 km <br> Unnamed drainage - 480 m |
| 5SW. 190 | 10 | 850 | Hilltop | Northeast | Sand Creek - 1 km |
| 5WN. 297 | 29.27 | 120 | Low lunette | Northwest | Hell Creek - 2.8 km |
| 5WN. 298 | 26.99 | 70 | Plain | Northwest | Unnamed drainage - 330 m Jack Creek - 6.52 km |
| 5WL. 9247 | 4 10 | $\begin{array}{r} 760 \\ 1,000 \end{array}$ | Terrace bench | South <br> Southwest | Spring Creek -60 m Cottonwood Creek - 5 km |

Table 41. Qualitative description of landforms identified within the study area.

| Landform | Description |
| :--- | :--- |
| Hilltop | An isolated earthen raise. Elevation should be relatively higher compared to the surrounding <br> plain. |
| Lunette/dune | Often crescent or linear shaped rise in elevation near a playa lake. |
| Plain | Terrain with little to no elevation change. |
| Playa | A relief in topography, creating a circular basin that acts as a water catchment. |
| Ridge | A long, linear, and narrow landform that is higher than the surrounding plain. |
| Slope | A gradual relief or increase in elevation. |
| Terrace | A sudden rise in elevation typically above a drainage, river, or stream. |

## Size

Of the 18 archaeological sites, a total of 23 playas were found to be within a 1-kilometer radius. The playas ranged in size from 1.4 to 86 acres. Most playas were relatively small; out of the 23 playas, $16(78 \%)$ were under 10 acres although there were four large playa outliers. The smaller playas also are clustered near other playas, which were associated with sites 25 CH .102 , 5LO.1018, 5WL.9247, and 5PL.499. Each of these sites have at least two or more playas associated with them that are less than 10 acres. The box and whisker plot shown in Figure 9 depicts the data in four quartiles that represent the distribution of playa size in $25 \%$ segments. The figure illustrates that three of the four quartiles fall below 10 acres, while several outliers on the upper end include three playas that were 20 to 30 acres and one 86 -acre playa. The dots that fall outside of the box and whisker plot represent statistical outliers of the overall population. As seen in Figure 9, the median size, symbolized by the center line, is 7 acres while the average is 13 , symbolized by the x , falling just outside of the fourth quartile mark. Most of the playas were 4 to 11 acres in size, representing $57 \%$ the playa population.


Figure 9. Box and whisker plot of playa acreage for all playas associated with 18 Toft playa sites.

Comparing this to the general population of playas in the study area discussed in chapter three, the playas with archaeological sites are somewhat larger overall. The general population of playas range in size from 60 to $1,000,000$ meters $^{2}$ ( 0.015 acres or 247 acres) (Playa Lakes Joint Ventures 2019). Most of the playas were less than 3 acres ( $n=2,395 ; 57 \%$ ) with $78 \%$ of these falling in between 1-2.5 acres in size. A total of 1,604 playas were between 3 and 12 acres, representing $34 \%$ of the playas. Only 13 playas were larger than 20 hectares, with only 3 between 51 to 100 hectares As seen in Table 42, the data show that the PLJV playa average is 3.9 acres whereas the average size of the archaeological playas are 12 acres. The comparison of the median size of playas is also similar, with a difference of 6 acres (1.84 acres for the general population and 7 acres for those associated with archaeological sites). While this does support the general notion that larger playas are more desirable because of their increased biodiversity and resources (see chapter one), there were still many larger playas in the area that groups could have occupied. This leads to further questions about site optimization and provides a reminder that more than resource size determines usage patterns and further investigation of the presence or absence of archaeology at these larger playas would be pertinent to establish whether this pattern is truly present.

Table 42. Comparative table of general population of playas (PLJV) and archaeological playa sites (18 Toft sites).

|  | Playa Lakes Joint Ventures <br> $\mathbf{n}=\mathbf{2 , 4 4 4}$ |  | Archaeological Playa Sites <br> $\mathbf{n}=\mathbf{2 3}$ |  |
| :--- | :--- | :--- | :--- | :--- |
| Sample Statistics | Circularity | Acres | Circularity | Acres |
| Average | 0.79 | 3.9 | 0.77 | 12.43 |
| Median | 0.82 | 1.84 | 0.79 | 7 |
| Max | 0.99 | 248.59 | 0.95 | 86 |
| Min | 0.12 | 0.02 | 0.28 | 1.4 |
| Standard Deviation | 0.15 | 7.88 | 0.16 | 6.92 |

## Distance from Site to Playa

Across the 18 sites, the distance from site to playa ranged from 0 meters (including sites within the playa basin) to the maximum of 1000 meters or 1 kilometer. The majority of the sites were within 800 meters from a playa ( $n=16 ; 89 \%$ ); 60 percent of these sites were within a short 600-meter radius from a playa. Whereas eight sites, $35 \%$ of all sites, were located at the farthest distances of 640 meters or more. Within this subsample of distance from site to playa, only two (9\%) sites, 5SW. 190 and 5WL. 9247 , were farther than 800 meters. Sites 25 CH .102 and 5LO. 1014 were the only sites that were situated within the playa basin itself. In terms of relative isolation to other playas, at least four sites had more than one playa within the 1-kilometer radius, 25 CH .102 , 5LO.1018, 5PL.499, and 5WL.9247, respectively. Figure 10 shows site 5LO. 1018 and its association with two playas. All other sites did not have any other playas within a 1-kilometer radius.

Sites that are situated within a 1-kilmeter radius of one or more playas is significant, as research has found that clustered playas in particular have higher biodiversity than isolated playas (Cariveau and Johnson 2007; Venne et al. 2012). Cariveau and Johnson (2007) found that the diversity of bird species in particular, increased in playa clustered areas when compared to single playa habitats. For ancient hunter-gatherers, these same areas would have been enticing in terms of resource acquisition as they could position themselves near several playas instead of being limited to a single resource base.


Figure 10. An example of a site with more than one associated playa, site 5LO. 1018 in Logan County, Colorado.

The box and whisker plot shown in Figure 11 displays a summary of the distribution of the distance from playa to the 18 archaeological sites. The median distance from site to playa, symbolized by the center line, is 278 meters, while the average distance is 367 , signified by the x. Unlike the analysis of playa size, no statistical outliers are present within this sample. The second and third quartile show that 50 percent of the sites were between 120 and 633 meters from a playa. Analysis of distance from playa to site in the South Platte River Basin expose several differences from the Southern Plains.

First, the data show that $60 \%$ of sites were within 600 meters of the playa and those that fell outside of this range were relatively close behind, especially three sites in the 700 to 780 meter range. This indicates that most sites were closer to playas than the 1-kilometer boundary
that is suggested by research in New Mexico (Judge 1973) and Texas (Hurst 2010). With so many sites seemingly clustered within 600 - 700-meter distance, this implies that ancient people preferred to be closer than 1 kilometer. Second, compared to the seven prominent playa sites highlighted in chapter two, there are far fewer sites within the playa basin. Across the seven Southern Plains and Kansas sites, $60 \%(n=4)$ were within the playa basin and were interpreted as bison/mammoth kill sites, while only $10 \%(\mathrm{n}=2)$ of the 18 sites collected by Toft were situated in a playa basin. These two differences in site location reveal that there is potentially a localized and differential use of playas in the South Platte River Basin that contrasts with these hunting sites in the Southern Plains. Whether these 18 sites and assemblages represent ephemeral or stable occupations will be analyzed in the following sections.


Figure 11. Box and whisker plot of distance from 18 Toft archaeological sites to playas.

## Cardinal Direction

In the Central Rio Grande Valley of New Mexico, researchers found that many playaassociated sites are located south of playa basins (Judge 1973), while in the Southern Plains, sites have been observed to be primarily along the northern perimeters (Holliday 1997). One possible explanation for such patterns are related to predominant wind direction. Judge (1973) found that the location of playa sites were positioned in a way that avoided the predominant wind direction during that specific period of occupation. The data from the 18 playa sites in this study show similar patterning in the direction from playa to site. Over $50 \%$ of sites $(\mathrm{n}=12)$ are located south of a playa. The remaining cardinal directions were only sparsely represented. Only one site, 25 CH .100 , is east of a playa. The northwest and northeast directions both have two sites, while no sites were directly north of a playa (Figure 12).

## Frequency of Sites in Relation to Direction



Figure 12. Depiction of the cardinal direction from playa to the 18 Toft sites.

The Great Plains have seasonal wind patterns that vary from year to year and have shifted over decades and millennia, implying that modern wind direction is not always a direct proxy for the ancient past (Halfen and Johnson 2013). However, Halfen and Johnson (2013) have found that the morphology of aeolian dunes, specifically in the Central Plains, suggests that wind direction has not markedly changed for at least several thousand years. The aeolian dunes and lunettes, which formed during periods of aridity by winds that blow sediment and accumulate, provide evidence for these wind patterns. The placement and morphology of these aeolian landforms indicate that winds have been generally northwesterly for some time within the study area (Halfen and Johnson 2013; Holliday et al. 1996; Muhs and Holliday 2001).

In the Central Plains, wind direction in the winter is predominately from the northwest while the summer winds blow in from the south (Halfen and Johnson 2013). The sites located south of the playa may indicate potential fall/winter occupations, as being downwind from a playa, opposite the prevailing winds could be a logistical hunting strategy as to not give off one's scent. This type of strategy is used in contemporary hunting tactics. An example from high altitude caribou drives in the Canadian Arctic have demonstrated that caribou have the ability to smell predators from as far as 1.6 kilometers away if the predators are situated upwind from them (Brink 2005). Furthermore, Brink (2005) also found that both historical and contemporary game drives in the region are deliberately constructed downwind of the predominant wind patterns to decrease their chances of being detected which increases the group's hunting success.

## Landform

Observations from playa sites throughout the plains indicate that lunettes and hilltops are the most preferred by ancient hunter-gatherers (Brown 1999b; Hogue 1999). Within this analysis, seven different landforms were identified including: ridges, plains, hilltops, lunettes,
terrace benches, slopes, and playa basins. Although most of the identified landforms are selfexplanatory and are presented in Table 41, lunettes and hilltops will be further differentiated and discussed as they are significant to playa landscapes generally.

Lunettes are sand dunes that form during periods of aridity and become stabilized over time (Muhs and Holliday 2001). They appear as low, often crescent shaped hilltops that are adjacent to playa basins. The proximity to the basin is also diagnostic, as playas and lunettes are geologically formed in tandem through aeolian processes which deflate playas in order to form lunettes (Holliday and Sabin 1995). A hilltop, although topographically similar to that of a lunette, is not found neighboring a playa and instead is a standalone geographic feature. Across the 18 sites playa sites, only one site is on a lunette (Figure 13). A total of six sites are on hilltops, thus being the most predominant landform within the sample.


Figure 13. Topographical location of 18 Toft playa sites.

The next most common landform is flat plains, with no topographic relief, with four sites. The remaining sites are located on ridges $(\mathrm{n}=3)$, playa basins $(\mathrm{n}=2)$, a terrace bench $(\mathrm{n}=1)$ and a slope $(\mathrm{n}=1)$. A total of 16 sites are situated on the highest elevation landform nearest the playa. In cases where sites are on flat terrain, these areas also did not have any nearby hilltops, lunettes, or terraces within the 1-kilometer distance of the playa. The landform results show that huntergatherers of the past made a diversity of topographical choices not necessarily focused upon the highest elevation points as has been observed at other playa sites (Hogue 1999).

## Discussion

This chapter reveals a total of 23 playas associated with the 18 archaeological sites. Most sites were within 1 kilometer of only one playa, but four sites (25CH.102, 5LO.1018, 5PL.499, and 5WL.9247) had two or more playas within the vicinity. Most of the playas associated with the archaeological sites are relatively small, less than 10 acres in size. Although comparison with the average of the general population of playas within the study area show that the archaeological playas almost 4 times larger, they were by no means the largest within the region. The median PLJV playa size is 1.84 acres compared to the average archaeological playa of 7 acres. There are at least 800 general playas (PLJV) in the study area that are larger than 7 acres, and until these larger playas are surveyed for archaeology, it is difficult to determine whether hunter-gatherer groups would have preferentially chosen the largest playas within an area for occupation because of increased resource access.

The data also show that there is a preference for past peoples to choose sites along the southern perimeters of a playa, as over $50 \%$ of sites in the study area are located in this direction. This is likely related to predominant wind patterns as it is an important factor to consider in hunting strategies (Brink 2005). The location of the 18 sites have a relatively low frequency
within playa basins as compared to other regions; at least $60 \%$ of the prominent Southern Plains sites were found within the basin compared to the $11 \%$ of the Toft sites. This could be for the simplistic reason of having a small Southern Plains site sample site. However, this could also be due to differential playa use, as all four of the Southern Plains basin sites were also association with bison mammoth remains and had small, chipped stone assemblages. In comparison, the assemblages of the two sites within the basin are extremely large, and their diversity signatures (as will be discussed in chapter eight) suggest a short to long term campsite rather than an opportunistic or task based site. Although hunter-gatherers of the 18 sites most often chose to occupy hill tops, it was closely followed by sites on the plains, potentially suggesting that there is not a strong topographical preference. Instead, if high elevation areas were present these areas seem to have been preferred, but landform did not seem to be the primary factor in site selection. Lastly, the majority of the sites were 600-700 meters or less from a playa, while only one site was at the maximum distance of 1 kilometer.

These findings have both similarities and differences from other regional playa landscape studies. Johnson (2008) did not observe any topographical preference on the Llano Estacado in Texas, while other research in eastern New Mexico suggest that topography and cardinal location of sites were distinct and changed over time (Judge 1973). Findings from the 18 sites show that at least $50 \%$ are situated along the southern perimeter of playas. Research by Hogue (1999) found that the largest concentrations of artifacts were almost always found at high points on hills and lunettes near playas. Across the 18 Toft collected sites, only $20 \%$ of sites were located on a hill or lunette, although the sites that were not located on a high point also did not have a high point nearby. Regarding the distance from site to playa, several researchers suggest a 1-kilometer range for playa occupation, however, the 18 playa sites indicate that at
least in the Central Plains, indigenous peoples seem to have preferred to be closer, within 700 meters (Hurst 2010; Judge 1973).

With the data from this thesis and in comparisons to other regional playa data, it seems that local signatures likely prevail over broader regional trends. On a basic level, just as any location is chosen, the results found of this analysis suggests that there is at least a basic relationship between playa and site, meaning that hunter-gatherers chose to occupy that space specifically because of the playa. While the plains are a vast, accessible space, people chose to stay near a playa lake, likely for reasons related to resources availability and familiarity. As the frequency of sites in this study far outnumber those recorded elsewhere in the plains, it could be the case that further landscape reconnaissance in these areas may reveal similar patterns.

## CHAPTER SIX: ANALYSIS—ASSEMBLAGE CHARACTERISTICS

In total, there are 5,052 artifacts from the 18 sites within Mike Toft's playa site collections. Assemblage size ranged from as little as 51 total artifacts to as many as 1,829 artifacts. The smallest assemblage is from site 5SW. 188 and is comprised of 40 chipped stone tools, 10 ground stone fragments, and one ceramic sherd. The largest assemblage is site 5LO. 1018 and consist of 484 chipped stone tools, 642 ground stone fragments, and 703 ceramic sherds. The assemblage characteristics of these sites are vastly different from other playa sites elsewhere in the plains, especially when comparing assemblage size. As was previously established in chapter two, many of the Southern Plains sites had assemblages less than ten total artifacts are were limited to formal chipped stone tools.

Table 43 Table 43 presents a summary of the assemblage size and composition for each of the 18 playa sites. All sites contained chipped stone and ground stone and $55 \%$ of sites contained ceramics. The most prominent artifact class across the 18 sites are chipped stone tools $(\mathrm{n}=2,956)$, followed by ground stone $(\mathrm{n}=1,201)$. The chipped stone artifacts have the most recognized types including bifaces, cores, drills, edge modified flakes, end scrapers, convex scrapers, side scrapers, miscellaneous scrapers, hafted knifes, projectile points, preforms, and gravers. Ground stone artifacts were limited to four different types including hammerstones, hand stones, netherstones, and miscellaneous/indeterminate fragments. Ceramic artifacts were not split into specific types but were identified by vessel portion such as body, rim, and base.

Table 43. Assemblage composition of 18 Toft sites showing the total counts (percentage) of each artifact type.

| Site | Chipped Stone | Ground Stone | Ceramics | Site Total |
| :---: | :---: | :---: | :---: | :---: |
| 25CH. 100 | 72 (94\%) | 5 (6\%) | - | 77 |
| 25CH. 101 | 159 (89\%) | 19 (11\%) | - | 178 |
| 25CH. 102 | 408 (98\%) | 8 (2\%) | - | 416 |
| 25CH. 103 | 514 (86\%) | 43 (7\%) | 43 (7\%) | 600 |
| 5LO. 1014 | 53 (55\%) | 44 (45\%) | - | 97 |
| 5LO. 1015 | 179 (49\%) | 154 (42\%) | 35 (9\%) | 368 |
| 5LO. 1016 | 232 (73\%) | 86 (27\%) | - | 318 |
| 5LO. 1017 | 41 (69\%) | 28 (41\%) | - | 69 |
| 5LO. 1018 | 484 (27\%) | 642 (35\%) | 703 (38\%) | 1829 |
| 5PL. 497 | 47 (90\%) | 4 (8\%) | 1 (2\%) | 52 |
| 5PL. 498 | 218 (89\%) | 10 (4\%) | 17 (7\%) | 245 |
| 5PL. 499 | 25 (36\%) | 8 (11\%) | 37 (53\%) | 70 |
| 5SW. 188 | 40 (78\%) | 10 (20\%) | 1 (2\%) | 51 |
| 5SW. 189 | 74 (95\%) | 4 (4\%) | - | 78 |
| 5SW. 190 | 120 (79\%) | 30 (20\%) | 2 (1\%) | 152 |
| 5WN. 297 | 91 (87\%) | 12 (12\%) | 1 (1\%) | 104 |
| 5WN. 298 | 127 (54\%) | 51 (22\%) | 55 (24\%) | 233 |
| 5WL. 9247 | 72 (63\%) | 43 (37\%) | - | 115 |
| Artifact Class Total | 2956 | 1201 | 895 | 5052 |

## Chipped Stone

Chipped stone artifacts were present in all 18 sites. The chipped stone artifact class is the most prevalent type within each assemblage, representing an average of $73 \%$ of the artifacts at any given site. There are at least 12 different identified chipped stone types. All chipped stone tools and the percentage across all 18 sites is shown in Figure 14. Bifaces, edge modified
scrapers, end scrapers, miscellaneous scrapers, and projectile points were present at all 18 playa sites. Several items, such as channel flakes, gravers, and spokeshaves were the least common. Channel flakes are particularly rare and were only present at site 5PL.497. Gravers are present at six sites (Sites 25CH.103, 25CH.102, 5LO.1015, 5PL.498, 5PL.497, and 5WN.298) and spokeshaves are present at two sites (Sites 25 CH .103 and 5LO.1018). Cores are also relatively rare, being present at $30 \%$ of the sites. Drills were at over $70 \%$ of sites, while preforms were found in lesser quantities and at $65 \%$ of sites. All 18 sites have a high frequency of morphologically distinct scrapers including $60 \%$ of sites with convergent scrapers, $70 \%$ with side scrapers, and $100 \%$ of sites had both end and miscellaneous scraper types.


Figure 14. The presence of all chipped stone artifacts including biface, channel flake, core, all scraper types, drill, edge modified flake, graver, knife, projectile point, preform, and spokeshave tools at all 18 playa sites.

The chipped stone assemblages depict a diversity of activities and a focus on formal tool technology over expedient technologies. The low presence of cores indicate several aspects of mobility, including distance from raw material sources and that formalized bifaces were
preferred over expedient core technology (Parry and Kelly 1987). The high frequency and percentage of sites with scrapers and knives suggests that occupants were participating in specialized scraping and cutting activities, demonstrated by the morphologically distinct and variable scraping tools (end scraper, side scraper, and convergent scrapers). In addition to the chipped stone too assemblage, Toft also collected hundreds of thousands of flakes from each of the 18 playa sites. Although not analyzed as part of this thesis due to time constraints, the mere presence of debitage indicate behaviors of tool manufacturing, retooling, and raw material reduction. Compared to other chipped stone assemblages from playa lakes, the 18 sites represent a much larger and diverse collection of tools. Few sites, including Nall, Miami, and TahokaWalker, had any representation of scrapers or drills (Holliday et al. 1994; Hurst et al. 2010; LaBelle et al. 2003). Most Southern Plains site assemblages were limited to several projectile points, flakes, and bifaces. The diversity of these chipped stone tools will be further analyzed in chapter eight.

## Ground Stone

Ground stone artifacts were present at all 18 sites, as seen in Figure 15. Out of all the ground stone types, hand stones were the most prevalent (at $100 \%$ of sites), followed by netherstone fragments ( $83 \%$ ). However, in terms of the frequency of specimens, hand stones represented only $20 \%(\mathrm{n}=239)$ of all ground stone. The type with the highest frequency were netherstone, representing $52 \%(\mathrm{n}=507)$ of the overall ground stone artifacts, with the fewest being hammerstones ( $\mathrm{n}=45 ; 4 \%$ ). The second most ubiquitous ground stone artifact is indeterminate/miscellaneous fragments. These are pieces of stone that had ephemeral grinding, typically small, and lacked any diagnostic characteristics to identify a specific tool type. These represented $34 \%(n=410)$ of the overall ground stone assemblage.

Playa lakes provide annual and perennial resources including several species within the Chenopodium, Amaranth, Liliaceae, and Pontederia family (Rowell 1971). These herbaceous and seedy plants are native to the Great Plains (USDA 2021). The seeds and leaves are edible and are well known ethnobotanically (USDA 2021). The macrobotanical remains of these plant species have also been observed at archaeological sites in association with ground stone artifacts (Yoder et al. 2010). The high prevalence of these ground stone artifacts suggests that these plant resources were important aspects of life for ancient occupants of playa lakes.


Figure 15. Bar graph of the frequency of ground stone across all 18 sites and the representation of each type within the assemblage. Types include hammerstone, hand stone, misc. ground stone, and netherstone.

A total of eight sites have all four ground stone types within its assemblage. These sites vary greatly in terms of assemblage size and composition. For example, two of the sites have relatively large assemblages, sites 5LO. $1018(\mathrm{n}=642)$ and 5LO. $1016(\mathrm{n}=86)$, respectively.

However there are several sites including 5SW. 190 ( $\mathrm{n}=30$ ), 25CH. 103 ( $\mathrm{n}=43$ ), and 5LO. 1014 $(\mathrm{n}=44)$, that have a comparatively small total ground stone assemblage size, although all four
ground stone types are present. Similar to the overall ground stone population, within these sites the least represented are hammerstones, followed by hand stones, and miscellaneous ground stone fragments are the most represented. The sites with the least ground stone artifacts are 25CH. 102 and 5SW.188, which have less than ten specimens and are represented only by hand stones and netherstones. Once again, like the chipped stone, the site with the highest frequency of ground stone artifacts is 5LO.1018. This assemblage is comprised of all types including hammerstones ( $\mathrm{n}=27$ ), hand stones $(\mathrm{n}=72)$, misc. ground stone $(\mathrm{n}=244)$, and netherstones ( $n=299$ ).

The presence of ground stone characteristically qualifies sites to be within the campsite category according to Colorado state recording regulations (OAHP/SHPO). If this is the case, all 18 sites would qualify as campsites, suggesting a completely different playa occupation than the single hunting sites in the Southern Plains. Additionally, the high frequency of ground stone at playa sites is rare as only the Ryan site, has any mention of this artifact class on the Southern Plains, with only three total fragments recovered (Hartwell 1995). The site with the fewest ground stone artifacts within this study, 5SW.189, had a total of four fragments. The average ground stone assemblage is 67 fragments, suggesting that ground stone related activities including grinding plants, dried meat, or minerals were important aspects of daily life for occupants at the 18 playa sites within the study area.

In total the 18 sites within the South Platte River Basin have a combined 1,201 ground stone artifacts. This suggests that playas in the South Platte River Basin likely provided a resource that was not particularly utilized in other regions of the plains. This data also indicates that the raw materials particularly used for ground stone were more readily available than at the other sites within the plains.

## Ceramics

Ceramic artifacts were present at $55 \%$ of sites ( $\mathrm{n}=10$ ). Fragments were identified by vessel portion including body, base, and rim fragments. The most prevalent vessel portion were body sherds, followed by rim sherds. Additionally, a large portion of the fragments were deemed unidentifiable, as the sherds were too small to determine their placement with a vessel. Overall, the number of fragments do not represent near complete ceramic vessels. Individual vessels were delineated based upon the presence of specific vessel portions (such as rims) and exterior decoration (plainware or differential cord-marking). Using these methodologies, no more than two vessels are likely present at any of the ceramic sites within this assemblage.

The most prevalent exterior decoration across the 18 sites were cord-marked fragments. A total of 612 ( $68 \%$ ) ceramics were identified as having this exterior modification. The remaining fragments had no exterior modification ( $\mathrm{n}=234 ; 26 \%$ ) or were deemed indeterminate $(\mathrm{n}=49 ; 5 \%)$ due to their fragmentary nature. Additionally, many of the nondiagnostic/indeterminate fragments were those that were either too small or poorly preserved, and where it was not possible to differentiate the exterior or interior surface. A combined total of 895 fragments were found across the 18 playa sites. In comparison to the Southern Plains, only the San Jon site recorded any presence of ceramics (Hill et al. 1995). Ceramic artifacts are most often associated with residential sites with less mobile subsistence strategies (Brown 1985). As most of the sites within the Southern Plains are not residential/camp sites, the absence of ceramics there is perhaps not a surprise. However, the presence of such domestic signatures across the 18 sites in the South Platte River basin is surprising, especially within a regional context as few sites have been recorded to have ceramics and even more few sites are known to have more than 300-400 sherds (Ellwood 2002; Gilmore 1999).

## Discussion

The 5,052 total artifacts from the 18 assemblages represent a contrasting perspective on playa occupation. In consideration of assemblage size, the playa sites within the study area represent either a wider variety of function, longer period of occupations, or reoccupations of playas. Figure 16 presents the total assemblage data of all 18 sites recorded by Mike Toft compared to the seven prominent playa sites in the Great Plains.


Figure 16. Assemblage size of Toft playa sites within the South Platte River Basin (blue) and prominent sites in the Southern and Central Plains (green). Southern and Central Plains tool counts are derived from chapter three.

When compared to other assemblage sizes throughout the region, the sheer quantity of artifacts at each site depicts an extreme contrast. Most notable are the absence of small sites like the San Jon and Winger, both of which have assemblages with less than ten total artifacts. The largest site in this comparative analysis is site 5 LO .1018 , with a total of 1,829 items. This is closely followed by two Southern Plains sites, the Tahoka-Walker ( $\mathrm{n}=447$ ) and Nall ( $\mathrm{n}=550$ ) sites. These three are the only assemblages that have over 600 artifacts. Site 5LO. 1018 assemblage in particular is much larger than the other sites partly because the ground stone and ceramic artifacts were extremely fragmentary, possibly conflating its relative size compared to the other sites. Still, this fragmentation does not account for the entirety of the size differential, as it is almost $50 \%$ larger than the next biggest site, 25 CH .103 , which has only 600 artifacts.

The summary of assemblage size and general artifact composition in the South Platte River Basin show that the 18 sites represent a much larger assemblage size than playa sites in other parts of the Great Plains. Such findings propose the question: why do the playa sites within the South Platte River have such large artifact assemblages? Several possibilities rise to the forefront. First, it is possible that the occupation of playas in the South Platte River Basin are more intense than other regions and the overall playa landscape served as relatively stable place for reoccupation. This is in contrast to the Southern Plains, where the majority are single event, hunting sites with small assemblages, that were used short term and for opportunistic hunting purposes (Holliday et al. 1994; Mandel and Hofman 2003; Turpin et al. 1997).

The second possibility is related to collector behavior. Shott (1995) discusses both survey intensity and individual variability as prominent factors in the discovery of surface records. Both factors are pertinent to this study, as Mike Toft himself is not only extremely familiar with the landscape, but he also visited these sites over several occasions and thus has more experience
and familiarity with overall area. Unlike CRM surveys, which are typically 10-30 meter spaced linear transects, collector surveys and Mike Toft's surveys are less systematic. Collector surveys and reconnaissance are based upon positive discovery and thus the same area may be visually assessed numerous times. This survey method changes the visibility of the surface record immensely and results in more artifacts than systematic linear surveys (Shott 1995). Further, Banning et al. (2011) has found that surveyor ability, familiarity, and even time of day were key components of site discovery. These reasons could be a primary issue and reason for the assemblage discrepancy of the generally smaller sites within the Southern Plains as most have been analyzed through excavations limited to a small area or single visit transect surveys. Supporting this potential theory is that the few sites with larger assemblages in the Southern Plains are accumulations of both private and professional surface/subsurface assessments, including the Nall and Tahoka-Walker sites (Hurst et al. 2010; LaBelle et al. 2003).

The third possibility is related to taphonomic processes and post depositional effects, especially related to depositional setting and subsequent erosion in the Central Plains. Similar to Seebach's (2006) argument for Paleoindian discoveries during droughts, a similar phenomenon could be occurring in terms of exposing playa assemblages. Much of the known oldest Paleoindian record in the Great Plains is largely due to discoveries made during periods of drought that cause sites to erode from aeolian processes (Seebach 2006). The Dust Bowl, one of the most famous aeolian events, also concomitantly exposed many archaeological sites. This incident is a proponent of why many of the artifacts from the Nall Site were exposed and collected by local geologist William Baker (LaBelle et al. 2003; Seebach 2016). Seebach (2006) found that out of 75 Paleoindian sites, over $50 \%$ of these were discovered in areas of aeolian deflation and that the time of discovery correlated with drought periods. Most of the sites that
were discovered during periods of drought were found near playas, draws, and dune fields (Seebach 2006). Within this research, Seebach (2016) specifically notes that playas are highly susceptible to aeolian deflation. Taking such post depositional processes into consideration, the playas discovered within the South Platte River Basin were collected over a 50-year period, during several drought years, that likely propelled the exposure of more artifacts (Seebach 2016). It could be that the other sites in the Southern and Central Plains also have large assemblages, but due to the nature of the research, sites were typically only visited once or twice, thus potentially resulting in less recovered artifacts.

In addition to natural erosion, all 18 sites within the South Platte River Basin are on land that has either recently or historically experienced cultivation. Shott (1995) has found that cultivated fields should be visited numerous times before a representative assessment of the archaeological record can be made. He also found that agriculture practices affected the frequency and composition of artifact assemblages more than the horizontal distribution and positioning (Shott 1995). Navazo and Diez (2008) found that cultivation not only brings artifacts to the surface, but the removal of vegetation alone can expose sites. However, within the same study, they also discovered that depending on the size, shape, and mass of artifacts, that plowing has the potential to bury up to $80-90 \%$ of a site (Navazo and Diez 2008). Leach's (1998) research has revealed that plowed fields suffer from additional disturbances, especially related to irrigation, which increase the rates of horizontal transport of artifacts. Similarly, Shott et al. (2002) argues that after rainfall, larger artifacts were more likely to become exposed, whereas small artifacts in both irrigation and rainfall were less likely to be affected.

The research in cultivated fields has had mixed results. Some advocate for these areas to be high priority due to high exposure rates and others have found that cultivation disturbs and
buries sites (Leach 1998; Navazo and Diez 2008). The sites within the Southern Plains suffer from the same taphonomic issues located in and near playas which are extremely prone to aeolian processes (Seebach 2006). Additionally, many of them are also situated on agricultural landscapes. Given this, it is likely that the large assemblage sizes in the South Platte River Basin are due to collection methodologies, especially the revisiting of sites, by Mike Toft.

## CHAPTER SEVEN: ANALYSIS—PLAYA OCCUPATION THROUGH TIME

The 18 archaeological assemblages presented in this thesis are restricted to discoveries from surface. This absence of stratigraphic context is undoubtedly a limitation for discussions regarding time and occupation intensity. Nevertheless, this section aims to distinguish temporal patterns across the 18 playa sites using projectile point typologies and other index artifacts as a proxy for occupation period and length.

Similar to paleontological index fossils, artifacts with distinct characteristics in dated stratigraphic contexts are also used as chronological indicators in archaeological settings (Urban and Schortman 2012). In this way, the temporal range of artifacts that appear on the surface by post-depositional processes can still be analyzed and determined to be from a broad time frame. This type of analysis is a culture historical approach, focusing heavily on material traits, and is used in this thesis as a basic chronological model rather than to understand cultural processes (Mitchell 2006). For example, the distribution of fluted points, found from Paleoindian aged stratigraphies, are proxies to cross examine geographically distant sites that have morphologically similar points (Prasciunas 2011). Sites like the Hell Gap site in Wyoming help narrow down time frames, as numerous Paleoindian points from different periods were all found in situ at one site (Kornfeld et al. 2010; Irwin-Williams et al. 1973).

The typologies used in this analysis are based upon regional morphology and metrics of projectile points and darts in the South Platte River Basin (Gilmore et al. 1999). Additionally, other regional literature was also used in the "typing" of projectile points specific to each period and type, as seen in Table 1 in chapter one.

The Paleoindian literature is the most robust, as it has the greatest morphological variety of projectile points. References include Boldurian (2008), Metlzer et al. (2002), and Wilmsen and Roberts (1979) for the Early and Middle Paleoindian period, and Frison (1984), Guarina (2018), Irwin-Williams et al. (1973), and Kornfeld (2013), for the Late Paleoindian period. The Archaic period references include Benedict and Olson (1978), Davis and Keyser (1999), Kornfeld et al. (1995), Betzen (1962), Todd et al. (2001), and Bubel (2014). The Late Prehistoric period references are Kehoe (1966), Perlmutter (2015), and Somer (1997). In addition to typespecific literature, broad regional scholarships, including Gilmore et al. (1999), Kornfeld et al. (2010), and Peck (2011), were also used for the classification of projectile points and other chipped stone tools.

In cases where the projectile point "type" under question did not fit within the exact morphology or within the currently agreed upon variety, the specimen is placed within a more generic temporal range. For example, corner-notched arrows that are larger than the average Late Prehistoric corner-notched point, but does not quite fit the morphology of a Pelican Lake point, were placed within a Late Archaic context; as the robusticity of the neck indicates that it was a dart point likely manufactured prior to the transition to bow and arrow technology (Shott 1997).

The following sections provides an overview of the temporal occupations at the 18 Toft playa sites in the South Platte River Basin. This chronologic analysis of these sites reveals a long history of occupation spanning from the Paleoindian period to the Protohistoric.

## The Paleoindian Period

Paleoindian material culture is well known for its large, fluted spear points. Relatedly, channel flakes from these fluted spears and Folsom preforms are another morphologically and temporally diagnostic item associated with the Early and Middle Paleoindian periods (Sellet
2013). Other artifacts such as gravers have also been found in Paleoindian contexts, especially related to Folsom activities (Amick 1999). Across the 18 total playa sites, 11 of the sites have evidence of Paleoindian occupation (Paleoindian:12,000-7,500 B.P.). A summary of the points from the Paleoindian period are present in Table 44.

Figure 17 presents a sample image of the diagnostic Paleoindian points. The earliest point type and earliest evidence for playa occupation within the 18 sites is the presence of a Clovis base from site 25 CH .102 . An additional single Clovis point is also potentially known from site 5WN.297. This point was collected by another local avocational archaeologist but because it was not verified, it is not included as part of the data in this analysis. Another non-diagnostic point, with Clovis-like overshot flaking and basal grinding is present from site 5SW.190.


Figure 17. A sample of Paleoindian points from site 25 CH .102 . From left to right, Folsom, Goshen/Plainview, Hell Gap, Agate Basin and Angostura types.

The Middle Paleoindian (11,000 - 10,000 B.P.) is represented at six sites. Site 25CH. 102 had the densest concentration of artifacts from the Middle Paleoindian period, including a Folsom and Goshen point, Folsom preform, and several gravers. Other Middle Paleoindian sites include assemblages with gravers (sites 25CH.103, 25CH.102, 5PL.498, 5PL.497, 5WN.298, and 5LO.1015) and a channel flake recovered from site 5PL.497. The Late Paleoindian (10,000-

7,500 B.P.) is represented at five sites. The Late Paleoindian presence is largely dominated by non-specific Late Paleo points ( $\mathrm{n}=12$ ) and the Angostura ( $\mathrm{n}=4$ ) and James Allen ( $\mathrm{n}=4$ ) point types. Site 25CH. 102 has the largest assemblage of Late Paleoindian points with point types including Agate Basin ( $\mathrm{n}=3$ ), Angostura ( $\mathrm{n}=1$ ), and Hell Gap ( $\mathrm{n}=1$ ). Another Late Paleoindian site with point type diversity is 25 CH .103 , with point types including Alberta ( $\mathrm{n}=1$ ), Angostura $(\mathrm{n}=1)$, and James Allen $(\mathrm{n}=2)$. Overall, although the mere presence of this period is significant, the Paleoindian period was the least represented temporal span across the 18 site assemblages. This perhaps points to less reliance for playa resources. Alternatively, other factors are more likely including site exposure and burial issues related to natural taphonomic processes.

Table 44．Presence of Paleoindian occupation at playa sites．All numbers reference the total number of Paleoindian projectile point types unless otherwise stated as reference to a graver （grv），channel flake（chf），or preform（pre）．

|  | Early Paleoindian(12,000-11,000 B.P.) |  | Middle Paleoindian （11，000－10，000 B．P．） |  |  | Late Paleoindian$(10,000-7,500 \text { B.P) }$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site | 令 |  | E | N | E 0 0 0.0 .0 0 0 0 |  | ¹ む है | $$ | $\frac{ \pm}{4}$ |  | $$ | $\begin{aligned} & \text { N } \\ & \text { n } \\ & \text { n } \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |
| 25CH． 100 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| 25CH． 101 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 25CH． 102 | 1 |  | 1 | 1 | 3 （grv；pre） | 3 |  | 1 |  | 1 |  |  | 4 | 15 |
| 25CH． 103 |  |  |  |  | 3 （grv） |  | 1 | 1 |  |  | 2 |  | 5 | 12 |
| 5LO． 1014 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| 5LO． 1015 |  |  |  |  | 2 （grv） |  |  |  |  |  |  |  |  | 2 |
| 5LO． 1016 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| 5LO． 1017 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| 5LO． 1018 |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 |
| 5PL． 497 |  |  |  |  | 2 （chf；grv） |  |  |  |  |  |  |  |  | 2 |
| 5PL． 498 |  |  |  |  | 2 （grv；pre） |  |  |  | 1 |  | 2 |  |  | 5 |
| 5PL． 499 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| 5SW． 188 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| 5SW． 189 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| 5SW． 190 |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 5WN． 297 | 1＊ |  |  |  |  |  |  |  |  |  |  |  |  | 1＊ |
| 5WN． 298 |  |  |  |  | 1 （grv） |  |  |  |  |  |  |  |  | 1 |
| 5WL． 9247 |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| Total | 1 | 11 | 1 | 1 | 3 | 3 | 1 | 4 | 1 | 1 | 4 | － | 12 | 43 |

[^2]
## The Archaic Period

Unlike the preforms and gravers from the Paleoindian period, the Archaic temporal range of 7,500-1,800 B.P. do not have temporally diagnostic tool types besides projectile points (Tate 1999). Seven specific projectile-point types are present within the Archaic period in the South Platte River Basin (Kornfeld et al. 2010; Peck 2011; Tate 1999). These include Mount Albion points from the Early Archaic; McKean, Duncan-Hanna, and Mallory points from the Middle Archaic; and Besant, Pelican Lake, and Yonkee types from the Late Archaic.

All 18 analyzed playa sites have robust evidence of Archaic occupations. A summary of the points from the Archaic era are present in Table 45.

Figure 18 presents a sample of the diagnostic Archaic point types. The Early Archaic (7,500-5,000 B.P.) is present at eight of these sites. At least six of the eight sites have Mount Albion point types, while the five other Early Archaic sites have evidence linking them to this time period as the points were large and robust but lacked any diagnostic characteristics to place the specimen within a specific type. The Middle Archaic (5,000-3,000 B.P) points are present at 16 sites, with the Duncan-Hanna point being the most common. All but one playa site has a Late Archaic (3,000-1,800 B.P.) signature, with Pelican Lake points present at 15 of the sites. Almost all sites had at least one or more Archaic point types except for 5LO. 1014 and 5LO.1017. Site 5LO. 1014 has only a Late Archaic presence, dominated by Pelican Lake point types and other larger corner-notched points. Site 5LO. 1017 has only a single Late Archaic, Yonkee point.


Figure 18. A sample of Archaic points from site 25CH.102. From left to right, Yonkee, Pelican Lake, Non-diagnostic Archaic, Besant and McKean point types.

Table 45. Presence of Archaic occupation at playa sites.

|  | Early Archaic$(7,500-5,000 \text { B.P. })$ |  | Middle Archaic (5,000-3,000 B.P.) |  |  |  | $\begin{gathered} \text { Late Archaic } \\ (\mathbf{3 , 0 0 0} \text { B.P. - 1,800 B.P) } \end{gathered}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site |  |  | $\begin{aligned} & \text { I } \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\frac{3}{3}$ | 砏 |  | E |  | \% |  |  |
| 25CH. 100 |  | 1 |  |  |  |  |  | 7 |  | 3 | 11 |
| 25CH. 101 |  |  | 6 |  | 4 |  |  | 15 | 1 | 9 | 35 |
| 25CH. 102 | 1 |  |  |  | 1 |  | 3 | 26 | 2 |  | 33 |
| 25CH. 103 | 5 |  | 2 |  | 20 | 2 | 9 | 20 |  | 2 | 60 |
| 5LO. 1014 |  |  |  |  |  |  |  | 12 |  | 1 | 13 |
| 5LO. 1015 | 1 |  | 3 |  | 3 | 1 | 1 |  | 1 | 3 | 13 |
| 5LO. 1016 | 2 |  | 4 |  | 12 |  | 3 | 10 | 1 | 6 | 38 |
| 5LO. 1017 |  |  |  |  |  |  |  |  |  | 1 | 1 |
| 5LO. 1018 | 3 | 2 | 4 |  | 4 |  | 1 | 28 |  | 8 | 50 |
| 5PL. 497 |  |  | 1 |  |  |  |  |  |  | 3 | 4 |
| 5PL. 498 |  | 4 | 5 |  |  |  | 6 | 3 |  |  | 18 |
| 5PL. 499 |  |  | 1 |  |  |  |  | 3 |  | 2 | 6 |
| 5SW. 188 |  |  | 2 |  |  |  | 1 | 3 |  | 1 | 7 |
| 5SW. 189 |  |  | 2 |  |  |  |  | 6 |  | 1 | 9 |
| 5SW. 190 | 1 | 5 | 2 |  |  |  |  | 4 | 2 |  | 14 |
| 5WN. 297 |  |  | 1 |  | 1 |  | 2 | 15 | 2 | 2 | 23 |
| 5WN. 298 |  | 1 | 2 | 1 |  |  | 4 | 11 | 1 |  | 20 |
| 5WL. 9247 |  |  | 2 |  |  |  |  | 5 | 1 |  | 8 |
| Total | 13 | 13 | 37 | 1 | 45 | 3 | 30 | 168 | 11 | 42 | 363 |

## The Late Prehistoric and the Protohistoric

Two major technological and cultural transitions mark the shift from the Late Archaic (3,000 - 1,000 B.P.) to the Late Prehistoric (800 - 410 B.P.): the introduction of the bow and arrow and ceramic technology (Gilmore et al. 1999). The change in hunting is evident by the shift from dart-sized projectiles with robust neck widths to smaller arrows with narrower neck widths. This technological, and consequently morphological change has been observed around the same time in lithic projectile assemblages throughout the Great Plains (Shott 1997). In Colorado, ovoid corner-notched points are locally known as Hogback corner-notched. These Hogback points are often serrated and are also found in association with ovoid preforms or blanks (Lindsay 1971). If applicable, points were typed Hogback if they depicted these traits, otherwise they are typed as a generic Late-Prehistoric corner-notched point.

The introduction of ceramics in the South Platte River Basin is much later than areas like the American Southwest (Cordell and McBrinn 2012). The earliest, and the most prevalent ceramics within the study area are typically large pots/vessels that are made using a paddle and anvil, finished with exterior cord-marking. These are locally identified as cord-marked Woodland pottery (Ellwood 2002). Examples of complete vessels indicate that Woodland vessels had tall walls, a cone shaped base, often without a rim, and no handles. This is morphologically distinct from local ceramics in the greater region, such as Upper Republican ceramics which have collared or flared rims and are short and wide (Scheiber and Reher 2007). Although there are many examples of these ceramic vessels, the presence of ceramics in northeastern Colorado is relatively uncommon, especially compared to the American Southwest (Ellwood 2002; Cordell and McBrinn 2012).

Table 46 shows the presence of ceramic artifacts, which are present at $55 \%(n=10)$ of sites. A total of 895 ceramic sherds were present across all 18 sites. Site 5LO. 1018 has the largest ceramic assemblage with 703 fragments, this is followed by site 5 WN .298 with a total of 55 fragments. Several sites including 5SW.188, 5PL.497, 5WN.297, and 5SW. 190 had 2 or less ceramic sherds. The next major temporal transition period is the Protohistoric (410-90 B.P.); this is the period of European and Euro-American contact (indirect and direct) and expansion into the western United States. This change is delineated by the introduction of a diverse array of new artifacts and technologies. The most common at indigenous sites are items such as glass beads and an array of metal artifacts including horse paraphernalia (Clark 1999). A single metal point from site 5LO. 1016 is the only representation from this period across all 18 sites.

Table 46. Prevalence of pottery at the 18 playa sites.

| Site | Cord-Marked | Plainware | Indeterminate | Site Total |
| :---: | :---: | :---: | :---: | :---: |
| 25CH. 100 | - | - | - | - |
| 25CH. 101 | - | - | - | - |
| 25CH. 102 | - | - | - | - |
| 25CH. 103 | 38 | - | 5 | 43 |
| 5LO. 1014 | - | - | - | - |
| 5LO. 1015 | 34 | - | 1 | 35 |
| 5LO. 1016 | - | - | - | - |
| 5LO. 1017 | - | - | - | - |
| 5LO. 1018 | 480 | 186 | 37 | 703 |
| 5PL. 497 | - | 1 | - | 1 |
| 5PL. 498 | 5 | 10 | 2 | 17 |
| 5PL. 499 | - | 33 | 4 | 37 |
| 5SW. 188 | - | 1 | - | 1 |
| 5SW. 189 | - | - | - | - |
| 5SW. 190 | - | 2 | - | 2 |
| 5WN. 297 | - | 1 | - | 1 |
| 5WN. 298 | 55 | - | - | 55 |
| 5WL. 9247 | - | - | - | - |
| Total | 612 | 234 | 49 | 895 |

Like the Archaic, the Late Prehistoric period is found at all 18 sites. Evidence from the Early and Middle Ceramic (1,800-410 B.P.) was present at 16 sites. A summary of the points from the Late Prehistoric are present in Table 47.

Figure 19 presents a sample of the diagnostic points from the Late Prehistoric to the Protohistoric.Small corner-notched points were the most numerous across all Late Prehistoric point types ( $\mathrm{n}=173$ ), followed by Hogback points ( $\mathrm{n}=63$ ). Site 25CH. $103(\mathrm{n}=77)$ and 5LO. 1018 $(\mathrm{n}=69)$ had the highest frequency of Late Prehistoric points. Two sites, 61.63-61-71 and 5LO.1017, had only one Late Prehistoric point, both of which were from the Middle Ceramic period. Site 5LO. 1016 is the only site with definitive evidence for a Protohistoric occupation with one metal projectile point. The site also has an earlier component of small corner-notched points. When comparing 5LO. 1016 to the other Early Ceramic sites, it has the smallest assemblage and the fewest occupation periods. The sites with less than 10 points also had either none or only one ceramic sherd within the assemblage and sites with the highest ceramic frequencies also had the highest projectile point frequencies.


Figure 19. A sample of Late Prehistoric Hogback points from site 25CH.102.

Table 47. Presence of Late Prehistoric to Protohistoric occupation at playa sites.

|  | Early Ceramic$\text { (1,800 - } 800 \text { В.Р.) }$ |  | Middle Ceramic (800-410 B.P.) |  |  |  |  |  |  | Protohistoric (410-90 B.P.) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site | ฐ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |  | ¢ |  |  |  |  |  |  | $\begin{aligned} & \text { I } \\ & 0 \\ & 0 \\ & 0 \\ & \text { N } \end{aligned}$ |  |
| 25CH. 100 |  | 2 | 1 | 2 |  |  | 1 |  |  |  | 6 |
| 25CH. 101 |  | 6 | 4 |  |  |  |  | 4 | 1 |  | 15 |
| 25CH. 102 | 5 | 5 |  | 1 |  | 1 |  | 1 |  |  | 13 |
| 25CH. 103 | 23 | 39 | 1 | 4 | 4 |  |  | 1 | 1 |  | 73 |
| 5LO. 1014 |  | 5 |  |  |  |  |  | 3 |  |  | 8 |
| 5LO. 1015 | 3 | 8 |  |  |  |  |  |  |  |  | 11 |
| 5LO. 1016 |  | 11 |  |  |  |  |  |  |  | 1 | 12 |
| 5LO. 1017 |  |  |  |  |  |  |  |  | 1 |  | 1 |
| 5LO. 1018 | 29 | 30 |  | 8 |  |  | 2 |  |  |  | 69 |
| 5PL. 497 |  | 2 |  |  |  |  |  | 1 |  |  | 3 |
| 5PL. 498 | 11 |  |  | 8 |  |  |  |  |  |  | 19 |
| 5PL. 499 |  | 2 |  |  |  |  |  | 2 |  |  | 4 |
| 5SW. 188 |  | 8 |  |  |  | 1 |  | 1 |  |  | 10 |
| 5SW. 189 |  | 2 | 1 |  |  |  |  | 3 |  |  | 6 |
| 5SW. 190 | 13 | 9 |  |  |  | 1 |  | 4 |  |  | 27 |
| 5WN. 297 |  |  |  |  |  |  | 1 |  |  |  | 1 |
| 5WN. 298 |  | 21 |  |  |  |  |  | 1 |  |  | 22 |
| 5WL. 9247 |  | 5 |  |  |  |  |  | 2 |  |  | 7 |
| Total | 84 | 155 | 7 | 23 | 4 | 3 | 4 | 23 | 3 | 1 | 307 |

## Discussion

The temporal analysis of the 18 sites represent a long and continuous history of regional playa utilization. The period with the most evidence of indigenous occupation is the Late Archaic (3,000-1,800 B.P.) represented at all 18 sites with a total of 251 projectile points. The least represented period is the Early Paleoindian (12,000-11,000 B.P.), with occupation evidence from only one site, 25 CH .102 , and potentially another, from site 5 WN .297 (although this was not verified in this thesis). The overall temporal representation found in these 18 sites is inconsistent with the archaeological trends throughout the greater region, especially the high frequency of the artifacts from the Archaic (Holladay 1997; Judge 1979). The Archaic, especially the Early Archaic, is generally argued to be the least represented period in the Great Plains archaeological record (Johnson 2008; Sheehan 1995; Tate 1999). On the Llano Estacado of Texas, there are only a handful of excavated sites with Early Archaic occupations, one being the San Jon playa site (Hill et al. 1995; Johnson 2008). In contrast, the Paleoindian presence in the Southern Plains is extremely high, with a significant decrease in the Archaic and the Late Prehistoric periods. However, the opposite trend appears within this study area.

Figure 20 displays the minimum number of occupations within each period. This chart shows that playa use gradually increased over time, peaking during the Late Archaic and Early Ceramic periods with a drop during the Protohistoric. There are many reasons why this trend might be present within this regional sample. First, and most simply, the post depositional processes are conducive for the most recent artifacts to be shallowly buried and or exposed. General archaeological theories state that earlier periods are generally more underrepresented, as they are buried further below the modern surface (Palumbo 2015). Second, the increase in playa occupation from the Middle to Late Archaic could be concomitant with environmental
conditions. The paleoenvironment during the Archaic is known to have had least two separate altithermal drought episodes from 7,000-5,500 calibrated years B.P (Wood 1998; Meltzer 1999). During the Middle Archaic, temperatures were hot and the overall climate in the Plains was dry; playa basins would have been particularly desirable as a water resource (Johnson 2008). In some cases, during the Early Archaic, water was so scarce that people began to dig wells down into the water table (Meltzer 1991). Another possible reason for this increase in playa occupation is paleodemography. Regional research suggests that populations increased during the Middle Archaic, especially spiking in the Early Ceramic. Thus, increased populations would result in more areas, or in this case playas, occupied across the plains during this time (Gilmore 2008).


Figure 20. The percentage of occupations during each temporal span from all 18 playa sites.
Several sites stand out within this temporal assessment including sites 5LO.1016, 25CH.102, and 5SW.190. Site 5LO. 1016 is the only assemblage with a Protohistoric component. Although site 5LO. 1016 has the most recent occupation, when the site is compared to the other playa sites in this study it has only a minimal Late Prehistoric signature with 11 Early Ceramic points. The average number of projectile points from Early and Middle Ceramics periods is 17 .

This suggests that the site was not heavily used in the Early and Middle Ceramic, which differs greatly from the rest of the assemblages. Site 25 CH .102 has the longest and the most temporally continuous assemblage with projectile points from each period from the Early Paleoindian to the Middle Ceramic. The site also has the most diverse representation of the Paleoindian era, with Clovis, Folsom, Goshen, Agate Basin, Angostura, and Hell Gap point types. Site 5SW. 190 has the largest temporal gap within the assemblage. It has only one Early Paleoindian point base and points from the Early Archaic, with no other representation from the Paleoindian Era. Several other sites have temporal gaps, but none as large as this 3,500-year hiatus observed at site 5SW. 190.

It is significant that all 18 playa sites are temporally multicomponent. When directly compared to other regional playa sites, the 18 sites represent a longer and more consistent occupation of playas. The utilization of playas throughout time suggests that these 18 sites are quite different from playa site in other regions, where they have been observed to be largely single occupations or single hunting episodes (Holliday 1997; Judge 1973). In fact, the signature within the South Platte River Basin gathered from this small sample of sites shows that playa lakes have been an extremely important aspect of hunter-gatherer settlement systems for as long as people have occupied northeastern Colorado.

## CHAPTER EIGHT: ANALYSIS-ASSEMBLAGE DIVERSITY

Most of contemporary archaeological work is from surface assemblages identified through cultural resource management surveys (Banning et al. 2011). Looking at the collections found in cultivated landscapes, Shott (1995) proposes three primary ways to analyze surface assemblages: abundance, composition, and distribution. Similarly, this chapter will analyze the abundance (richness) and composition (evenness) of the archaeological assemblages from the 18 playa sites collected from the surface, using the Shannon-Weaver Diversity Index. Leonard and Jones (1989) define diversity as the way in which certain quantities of artifacts are distributed across an assemblage, and most relevant to this research, assesses both richness and evenness. The diversity index of an assemblage can shed light onto the types of activities that may have occurred at an archaeological site, specifically the length of time a site may have been occupied, or the frequency of reoccupation.

## The Shannon-Weaver Index

The Shannon-Weaver Index is a mathematical calculation of heterogeneity. It examines the numerical relationship between the richness and evenness of any given assemblage. The index has its origins within communication theory but was quickly adopted into the scientific community to calculate and assess the distribution of biological diversity within a single ecological community (Spellerberg and Fedor 2003). Within the discipline of archaeology, the index has been used to calculate the statistical relationship between different artifacts, specifically the richness (the number of distinct artifact types) and the evenness (the frequency of each distinct artifact type) independent of the assemblage sample size (Meltzer et al. 1992). This value, representing the diversity of artifacts or raw materials are then utilized to interpret the
length of occupation, whether reoccupation occurred, or to assess specific types of behaviors at archaeological sites (Binford 1980; Kelly 2013; Reckin and Todd 2020; Shott 1986). For example, the more specialized activities that people were engaged in, the lower the diversity of the assemblage would be, as the number of tools needed to accomplish a specialized task is limited (Veth 2006). Binford (1980) found that amongst the Nunamiut peoples, special-taskoriented camps had an overall lower tool diversity index than basecamps. Conversely, at a campsite or basecamp, any number of activities would occur over longer periods and thus the number of tools and types of tools used at a site would increase, resulting in a higher diversity index (Andrefsky 2005; Binford 1980).

The Shannon-Weaver Index calculates not only the mere number of represented artifact types but assesses how equitable the quantity of that artifact class is (Shott et al. 1989). The formula is as follows:

$$
H^{\prime}=-\sum_{i=l}^{s} p_{i}\left(\ln \left[p_{i}\right]\right)
$$

where $H^{\prime}$ equals the sum of $p_{i}$, which is the relative abundance of each group of artifacts. The "relativity" of the sum represents the equitability of each artifact class, meaning that it assesses the evenness of each artifact type relative to the richness of that particular assemblage. The power of the Shannon-Weaver index is that the calculation does not compare across assemblage sizes and thus the overall frequency of total tools is not relative to other assemblages within the entire sample. Table 48 presents the diversity index results and the presence or absence of ground stone and ceramics from the 18 playa assemblages. The calculations were made based upon the chipped stone assemblage size, omitting both the frequency of ground stone and ceramics. These artifact classes were not included as to limit potential inflation of diversity.

Because of the nature of the raw material of ground stone and ceramics, these artifacts often break in higher frequencies and are more fragmented than chipped stone tools. Thus, the totals of these artifact classes represent the distinct number of fragments, rather than the actual presence of the number of whole artifacts. This would severely skew the representation of tool diversity, as the number of chipped stone tools are based upon individual specimens. For example, site 25CH. 103 has a total of 43 ceramic fragments but this likely represents only one vessel.

Table 48. Chipped stone (CS) assemblage size, number of chipped stone (CS) tool types and H '/diversity index of all 18 playa sites.

| Site | CS Assemblage Size | Number of CS Tool Types | GS | Ceramics | H' |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 25CH.100 | 72 | 6 | $\times$ | - | 4.74 |
| 25CH.101 | 159 | 8 | $\times$ | - | 4.37 |
| 25CH.102 | 408 | 12 | $\times$ | - | 8.39 |
| 25CH.103 | 514 | 13 | $\times$ | $\times$ | 6.06 |
| 5LO.1014 | 53 | 7 | $\times$ | - | 3.62 |
| 5LO.1015 | 179 | 11 | $\times$ | $\times$ | 5.58 |
| 5LO.1016 | 232 | 11 | $\times$ | - | 5.81 |
| 5LO.1017 | 41 | 8 | $\times$ | - | 6.02 |
| 5LO.1018 | 484 | 11 | $\times$ | $\times$ | 4.94 |
| 5PL.497 | 47 | 11 | $\times$ | $\times$ | 7.61 |
| 5PL.498 | 218 | 6 | $\times$ | $\times$ | 5.61 |
| 5PL.499 | 25 | 8 | $\times$ | $\times$ | 4.10 |
| 5SW.188 | 40 | 10 | $\times$ | - | 4.53 |
| 5SW.189 | 74 | 8 | $\times$ | $\times$ | 6.56 |
| 5SW.190 | 120 | 10 | $\times$ | $\times$ | 4.38 |
| 5WN.297 | 100 | 8 | $\times$ | 4.37 |  |
| 5WN.298 | 127 | 72 |  | $\times$ | 4.64 |
| 5WL.9247 |  |  | $\times$ | 4.87 |  |

Across the 18 chipped stone assemblages, the diversity index values range from 3.62 to
8.39. Roughly $55 \%$ of the sites' diversity indices are less than $5(\mathrm{n}=10)$, most of which have a $\mathrm{H}^{\prime}$ value of 4 to $5(n=9)$. The higher end of the diversity index comprises of sites that fall within an
$H^{\prime}$ value range of $5-6(n=3 ; 17 \%), 6-7(n=3 ; 17 \%)$ and $7-9(n=2 ; 11 \%)$. The median index value is 4.9. All sites have ground stone but only nine sites ( $50 \%$ ) have ceramics within their assemblages. When comparing the H' values with the sites that have ceramic artifacts, there are no stark trends. The range of diversity of these sites (with ceramics) are similar to that of the overall population, with $H^{\prime}$ values of $4.1-7.61$, and a median value of 4.64 . To better understand the results of the H' values, Figure 21 is a model created using fictious archaeological assemblages of various site types. The small table above the line graph shows the composition of the theoretical site type, including the number of tools and tool types.

| Theoretical Site Type | Artifact Type (Count) | Artifact Type (Count) | H' |
| :--- | :--- | :---: | :---: |
| Task Oriented Site | PP (7), BF (2) | 9 | 1.70 |
| Lithic Reduction Site | PRE (11), CORE (10), BF (7) | 28 | 2.04 |
| Short Term Campsite | BF (8), PP (5), EMF (10), ES (4), MISC.G <br> (7) | 34 | 4.7 |
| Campsite | BF (15), CORE (30), EMF (15), ES (20), <br> MAN (27), MET (10), KF (8), PP (10) | 135 | 7.25 |



Figure 21. Theoretical examples of the measure of assemblage diversity using the ShannonWeaver index. The associated table provides artifact frequencies and diversity index results. This example shows the hypothetical interpretation of diversity indices, with task-oriented sites having less artifact types/lower diversity index and camp sites having more artifact types/higher diversity index. The artifact composition of the fictious site types are based upon the Southern Plains literature and CO SHPO site types and identification.

If the 18 playa assemblages are compared to this theoretical model, the sites clearly depict diversity levels that fall on the higher end of the spectrum. The median diversity index of 4.9 within this 18 -site study is closest to the short-term campsite example, which has a diversity index of 4.7. While $50 \%$ of the 18 sites are within the $4-5$ value range sitting in between the short-term campsite and long-term campsite values. Even the lowest index value within the sample, with a H' value of 3.62 (Site 5LO.1014) is still closest to the short-term campsite value and no sites are close to the assemblage values of a lithic reduction or task-oriented site. The two most diverse sites were 25 CH .102 and 5PL.497. Site 25 CH .102 has the highest H' value of 8.39 , with 23 different tool types across 408 chipped stone tools. Site 5PL. 497 has a H' value of 7.61 with 11 tool types across 47 chipped stone tools. These two sites have higher values than the campsite in Figure 21 and indicate the longest term/heavily reoccupied locations.

## Discussion

The artifact assemblages ranged in size from 51 to 1,829 total artifacts, with a median assemblage size of 133. Projectile points, ground stone fragments, and ceramic sherds make up the bulk of the largest assemblages. Overall, across all sites, the most ubiquitous were chipped stone tools, especially bifaces, projectile points, scrapers, and edge modified flakes. Aside from chipped stone and, in lesser quantities, ceramics and ground stone artifacts such as netherstones, hand stones, hammerstones, and unidentified ground stone fragments were also present. Figure 22 shows an example of the assemblage diversity from site 25 CH .103 . The site with the least diverse number of chipped tools represented is site 25 CH .100 with only six tool types, while the site with the greatest tool variety is site 25 CH .103 with a total of 13 different tools types. The median number of tool types is 9 . In terms of $H^{\prime}$ values, which omit both ground stone and ceramics, the site with the lowest value is site $5 \mathrm{LO} .1014\left(\mathrm{H}^{\prime}=3.62\right)$, while the highest is site


Figure 22. An example of artifact diversity from a sample of artifacts from site 25 CH .103 . The first row, from left to right, is comprised of a drill tip, drill midsection, and four end scrapers. The second row, from left to right, is comprised of a hafted knife and four fragments of cordmarked ceramics. The final two artifacts on the third row are preforms.

Several interpretations can be gleaned from these results, including diverse occupation types and the reoccupation of playas in the South Platte River Basin. First, the diversity indices indicate that a wide range of activities occurred at the 18 playa sites. These playas are not simply lithic scatters or single episode occupations such as has been recorded in the Southern Plains (Holliday 1997). Instead, indigenous peoples seem to have inhabited these sites and participated in an array of activities including hunting, plant, and animal processing, hide working, ceramic
production, and chipped stone manufacture. Although the latter activity is one that is prevalent at hunter-gatherer sites, the presence of ceramics is relatively uncommon in this region (Elwood 2002). Within the South Platte River Basin specifically, few pottery sites have more than 400 sherds and most have only a handful of fragments (Gilmore 1999). The assemblage composition of the 18 sites do not represent this regional trend. For example, $38 \%$ of site 5LO.1018's assemblage is comprised of ceramic fragments, with a total of 703 pieces. The high presence of ceramics is significant not only to playa use, but also in expanding our general understanding of hunter-gatherer lifeways and how highly mobile ceramic producing groups subsisted in northeastern Colorado. The presence of ceramics at playa sites outside the study area in the southern and eastern Plains is also rare. Out of the seven other Southern Plains playa sites, only the San Jon Site has any ceramic artifacts (Hill et al. 1995), compared to the $50 \%$ of sites within the South Platte River Basin.

A second interpretation from these results pertains to the $\mathrm{H}^{\prime}$ values indicating reoccupation of sites over a long period. Specifically, the sites may represent activities that occurred repeatedly within the same space or area over generations (Mitchell 2008). This type of approach is known as palimpsest theory and has been used as a way to approach time at sites with little deposition or mixed chronologies (Dooley 2008; Mitchell 2008) Another such diachronic approach to understanding human landscapes, time perspectivism theory, states that landscape use is influenced by the ways that prior settlements might have used that same landscape (Bailey 2007; Dooley 2008). For example, Dooley (2008) found that in an analysis of stone circles, that the material remains from previous hunter-gatherers were sometimes reused or assisted in the decision-making process when new groups came to settle within that same area. In this context, hunter-gatherer occupations would temporally stack on top of each other, creating a
single large and diverse accumulation of artifacts (Dooley 2008). Similarly, Johnson (2008) argues that playa landscapes have a unique geographic, cultural, and resource anchor for persistent use. This has been especially pertinent on the Llano Estacado in Texas, a major landform within the region where people have traversed for thousands of years. Johnson (2008) argues that the dynamic ecological and hydrological landform has long been an important landscape from indigenous Clovis times to Anglo-American cattle ranchers and settlers in the 1800s. As playas are well distributed throughout the region, these provided ample stopping points for people and animals throughout human history (Johnson 2008). Although the sites are much smaller with less diverse tools, evidence from an assessment of several large surveys on the Llano Estacado supports this theory, as sites are observed to be particularly clustered around specific playas and draws (Johnson 2008).

Within the South Platte River Basin, it is likely that a similar type of landscape use, or persistent occupation, occurred. Although playas are seasonal, the analyzed sites reflect the type of diversity seen at aggregation sites near permanent and perennial water sources (Veth 2006). The assemblages show that the occupants of these playas had longer-term plans or intentions to return to the area, as they invested time and effort into procuring ground stone and making ceramic vessels, both of which are difficult to carry and are not typically associated with highly mobile groups (Brown 1985; Kelly 2013; Hodder 2018). Hodder (2018) argues that grinding stones were part of the package of cultural traits that bound people to a more sedentary lifestyle. Ceramics especially have been disassociated with hunter-gatherer groups, so much so that Brown (1985) has deemed the technology as "incompatible" and unnecessary for mobile peoples, especially those who are not agriculturalists. Nevertheless, both ceramics (55\%) and ground stone (100\%) are prevalent across the 18 assemblages. Although few ground stone artifacts are
known in direct association with playa sites, Johnson (2008) notes that regional collectors on the Llano Estacado have observed that playas in particular had a higher frequency of manos and metates, suggesting that such high-cost procurement items would have been left for returning generations to use.

Overall, the frequency and diversity of artifacts present at the sites indicate that these were places were more than opportunistic hunting or retooling places. The data from this analysis show that playas not only have been occupied for millennia, but the diversity of assemblages indicates that playas provided a stable living environment for over 12,000 years. The following chapter will analyze whether specific areas were more frequented than others and whether certain playas were more stable for longer term occupations. Chapter nine will analyze the three variables of time, space, and diversity of the 18 playa site assemblages in the South Platte River Basin.

## CHAPTER NINE: PLAYA OCCUPATION IN NORTHEASTERN COLORADO

This chapter unites the data from the variables discussed in the previous three chapters. It will examine potential patterns between environmental and geographical factors of the playas themselves and compare them to the chronology and composition of each archaeological assemblage. Based upon the theoretical frameworks of playa biodiversity and the examples of playa sites throughout the Great Plains, we can expect playas in northeastern Colorado to also be important landscape markers for indigenous peoples in the past. This thesis has laid out the three variables of time, space, and diversity, which will be analyzed in this chapter guided by the following hypotheses:
I. As playa landscapes provide necessary biological resources for hunter-gatherers, and as increased size of habitats correlates with an increase in resources, larger playas are likely occupied for longer periods than smaller playas.
II. Similarly, larger playas also are likely to have more diverse assemblages due to longer occupation spans.
III. Based upon playa site signatures throughout the region, larger and more diverse assemblages are likely farther away from playa basins than smaller and less diverse sites.

The following sections will analyze each hypothesis, comparing occupation span, playa size, assemblage composition, and site location. The data from the 18 Toft sites will then be compared and contextualized to key sites within the Southern Plains and beyond to identify similar or differential patterns in playa landscape use.

## Occupation Span and Playa Size

In terms of choosing specific playa lakes there are several expectations that can be made based upon theoretical frameworks of biodiversity and hunter-gatherer lifeways (Binford 1980; Kelly 2013). First, as larger playas provide more habitat and a stable water source for various species, we can expect that this might have been an important consideration for hunter-gatherers that rely on the animal and vegetal life surrounding these wetlands (Cariveau and Johnson 2007; Connor and McCoy 1979; Hill 2007; Venne et al. 2012).

In analyzing this hypothesis using the 18 playa sites, few trends can be extracted (Table 49). The largest playa of 86 acres (site 5LO.1017) has one of the shortest and least continuous occupation spans. This site, as well as the lack of correlation generally, contradicts many of the general expectations that larger playas would have longer and more continuous occupations due to diverse natural resources that would have been available there. The next three largest playas (ranging from 20-30 acres) have temporal spans from the Late Paleoindian to the Middle Ceramic, although they vary in terms of continuous occupation and represented ages. Notably, none of the larger playas have an Early or Middle Paleoindian occupation. The remainder of the playa sites have a diverse representation of time periods with seemingly no distinct patterning. The smallest playa of 1.4 acres (5PL.497), has at least one occupation during the Middle Paleoindian and from the Middle Archaic to the Late Prehistoric. The site with the longest occupation (5LO.1016), from the Middle Paleoindian to the Protohistoric is nearest a relatively small 8-acre playa when compared to the general population of playas. In summary, there is little to no correlation between the size of a playa and the length of time that it was occupied. While this sample size is small, it explicitly shows that other considerations not related to the potential of resources were important variables for hunter-gatherers within the region.

Table 49．Data assessing playa size and occupation period across all 18 playa sites．The blue lines delineate playa size increments of five acres（ $1-4.9$ acres， $5-9.9$ acres，etc．）．

| Site | Size of playa （acres） | Paleoindian |  |  | Archaic |  |  | Late Prehistoric |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 年 | \％ | 츤 | $\frac{\text { \％}}{\text { E }}$ | む | 交 |  | － |
| 5PL． 497 | 1.4 |  | $\times$ |  |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 25CH． 100 | 3.53 |  |  |  | $\times$ |  | $\times$ | $\times$ | $\times$ |  |
| 5LO． 1015 | 3.69 |  |  |  | $\times$ | $\times$ | $\times$ | $\times$ |  |  |
| 5SW． 189 | 4 |  |  |  |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5LO． 1014 | 5.33 |  |  | $\times$ |  |  | $\times$ | $\times$ | $\times$ |  |
| 5SW． 188 | 6 |  |  | $\times$ |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 25CH． 102 | $\begin{aligned} & 2.61 \\ & 5.45 \\ & 6.96 \end{aligned}$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5LO． 1018 | $\begin{aligned} & 3.54 \\ & 7.22 \end{aligned}$ |  |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5LO． 1016 | 8 |  | $\times$ |  | $\times$ | $\times$ | $\times$ | $\times$ |  | $\times$ |
| 25CH． 101 | 9.3 |  |  | $\times$ |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 25CH． 103 | 9.37 |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5SW． 190 | 10 | $\times$ |  |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5WL． 9247 | $\begin{array}{r} 4 \\ 10 \end{array}$ |  |  |  |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5PL． 499 | $\begin{array}{r} 7 \\ 12 \end{array}$ |  |  |  |  | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5PL． 498 | 24.27 |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5WN． 298 | 26.99 |  | $\times$ |  | $\times$ | $\times$ | $\times$ | $\times$ | $\times$ |  |
| 5WN． 297 | 29.27 | $\times$ |  |  |  | $\times$ | $\times$ |  | $\times$ |  |
| 5LO． 1017 | 86 |  |  |  |  |  | $\times$ |  | $\times$ |  |

## Playa Size and Assemblage Composition

Similar to the hypothesis regarding playa size and occupation span, we can also expect that larger playas also have more diverse assemblages if they are occupied for longer periods. The scatter chart shows that regardless of playa size, the majority of the sites $(n=9 ; 50 \%)$ fall within the $4-5 H^{\prime}$ value range (Figure 23). Across these nine sites, the size of the playas varies, with one site ( $11 \%$ ) below 5 acres, three sites ( $33 \%$ ) between $5-9$ acres, three sites ( $33 \%$ ) between $10-19$ acres, and two sites ( $22 \%$ ) between $2-30$ acres. Site 5 WN .297 , is nearest the second to largest playa at 29.27 acres and has a relatively low H' assemblage value of 4.87.


Figure 23. Scatter chart comparing playa size (y-axis) to by Shannon-Weaver diversity index $\left(H^{\prime}\right)$ (x-axis). Analysis results show no distinct pattern between these two variables.

Regarding the site with the highest diversity index of 8.39 , site 25 CH .102 also does not fit within the expected pattern and is associated with a playa that is less than 10 acres. Site 5LO. 1017 is the only site that corresponds within the expectation of the hypothesis. This assemblage has a moderately high diversity index of 6.02 and it situated nearest the largest playa
of 86 acres. However, as discussed previously, it has the shortest occupation period represented and has the lowest number of tools, with only two projectile points, including a Late Archaic Yonkee point and a Middle Ceramic tri-notched point. The data show that sites are largely clustered around the $4-6 \mathrm{H}^{\prime}$ index range and from $0-20$ acres in playa size, but the expected trend is not present. There is no distinct pattern or correlation when comparing size with assemblage diversity.

## Site Location and Assemblage Composition

The regional playa archaeology and literature has shown that sites nearest playas, or sometimes within the basin of a playa, have smaller assemblage sizes than sites that are more distant. This is largely due to the occupation type (opportunistic, single event site) and the logistical positioning based upon the specific activities (hunting) that occurred at and around the site. Using the playa sites across the Southern Plains and elsewhere as a foundation, we can expect that a similar pattern would be present within the South Platte River Basin; specifically, that larger and more diverse assemblages would be positioned farther away from playa basins (but still within the 1-kilometer range) than smaller and less diverse sites, as assemblage size and diversity indicate specific playa occupation types.

In consideration of site location and assemblage composition, there are two sites that stand out: site 5LO. 1014 and 25 CH .102 . These were the only sites situated within a playa basin. Examples of playa basin sites such as the Winger, Big Lake, and Miami have distinct signatures of large game hunting (Holliday et al. 1994; Mandel and Hofman 2003; Turpin et al. 1997). The assemblages from the Winger, Big Lake, and Miami sites contain few projectile points, even fewer flakes, and some with flake tools. Holliday et al. (1994) suggests that megafauna hunting is based upon opportunistic "scavenging" and that these playas would have been frequented in
times of environmental stress by both people and animals (e.g. drought). In this type of opportunistic event, there would be few projectile points and tools deposited in the record. The artifacts and faunal record within the basin indicate that water levels were likely low (Holliday 1997). During these periods, playas would have been some of the last surface water available on the Plains, thus increasing their resource potential. Mammoth in particular are known to have frequented playas with low water levels (Haynes 2012). Compared to the Winger, Big Lake, and Miami sites, both sites 25CH. 102 and 5LO. 1014 have large, diverse artifact assemblages beyond that of a single hunting episode.

Further evaluation of both sites 25 CH .102 and 5LO. 1014 suggests a more complex playa occupation (Figure 24 and Figure 25). Site 25CH. 102 has a total assemblage size of 416 artifacts with a diversity index of 8.39. Site 5LO. 1014 has a total assemblage size of 97 artifacts, with a diversity index of 3.62 . Both sites are within relatively small playas and have proportionally large projectile point representation within the assemblage. Unfortunately, the diversity of artifacts cannot be parsed out by time, but it is significant that there are multiple occupations and various activities occurring within the vicinity, as most playa basin sites elsewhere are single component (Holliday 1997). However, the assemblages from both sites 5LO. 1014 and 25CH. 102 depict activities related to not only hunting, but also lithic manufacturing with the presence of preforms and cores, processing of meat, hide, and plants, indicated by drills, gravers, ground stone, and a variety of scrapers.

The Big Lake site, in Texas, does share some similarities with sites 25CH. 102 and 5LO. 1014 in several ways. First, although this bison kill site is single component, there are numerous other sites found along the northern rim and within 1 kilometer of the Big Lake playa, which show that the larger playa area was used throughout time, at least until the Middle

Ceramic period. These other sites surrounding Big Lake also had diverse and larger assemblages than that of a typical single event or hunting episode (Turpin et al. 1997). In contrast, neither 25 CH .102 nor 5LO. 1014 are in large playas (both are less than 10 acres) but have more temporal representation from all periods when compared to the other 16 playa sites within this sample.


Figure 24. Scatter chart comparing total assemblage size (y-axis) to distance from playa (x-axis).
The results indicate that no pattern is present between these two variables.


Figure 25. Scatter chart comparing the Shannon-Weaver Diversity Index (H’) (y-axis) to distance from playa (x-axis). Similar to the comparison of the values in Figure 24, no pattern is present between these two variables.

## Discussion

The analysis of the 18 assemblages reveal significant patterns of indigenous land use in the past that on the surface appears to be much more intense than playa sites elsewhere in the plains. But, of course, we must also consider the realities of archaeological visibility, which are affected by the methodologies of surface surveys, and differential erosion and taphonomic processes, as discussed in chapter six.

Other large-scale studies of playa landscapes shed light on whether the South Platte River Basin is as much as an anomaly as it seems. Investigations by Brosowske and Bement (1998) conducted in Oklahoma, found resoundingly similar results in terms of the lack of occupational patterns but recorded much smaller artifact assemblages. Their study of 13 playa sites found no correlations with occupation type, temporal length, or distance from playa. Similar to the data in this thesis, the results of Brosowske and Bement (1998) lithic analysis determined that
assemblages were also diverse, with tools and debitage indicating activities related to hunting, butchering, processing, tool production, and maintenance. However, in contrast to findings in from the 18 playa sites in this study, no ceramics were found at any site within their survey (Brosowske and Bement 1998). This is a dramatic contrast to the South Platte River Basin, as there are over 800 sherds of cord-marked pottery found at $55 \%$ of all Toft playa sites.

What seems to be the trend in other locations of small artifact assemblage size is not seen within this study area. The artifacts assemblages in the South Platte River Basin are extremely large, ranging from 51 to 1,829 total specimens, while most of the sites elsewhere have assemblages as small as ten or less artifacts, with a few large outliers. The sites within the South Platte River Basin depict a more intense and diverse use of playas when compared to sites in the Southern Plains. Additionally, although there are clear patterns and site occupation signatures at other regional playa sites, the data in this thesis do not depict similar results. The comparative analysis of playa size, chronology, and diversity did not support the hypotheses laid out at the beginning of this chapter. In summary, the results are as follows:
I. Larger playas were not occupied for longer periods than smaller playas. The data show that no patterns are present between site chronology and playa size. However, the 18 Toft sites do appear to be at larger sized playas than the regional sample examined in the PLJV dataset.
II. Larger playas did not have more diverse site assemblages. The data show that all sites, regardless of playa size, had diverse artifact assemblages.
III. Larger and more diverse assemblages were not found to be farther away from playa basins than smaller and less diverse sites. The data show that distance to playa had no significant relationship with diversity or size of assemblage.

The above results show that the hypothetical expectations regarding playa preference seem to have little to no bearing on hunter-gatherer site choice. Instead, it appears that playa landscapes on a broader geographic level were important places for indigenous groups living on the Great Plains.

Although environmental parameters, especially the absence or availability of resources are a critical aspect of human life, this research shows that a sole focus on the environment does not consider societal, and generational aspect of human choice. Numerous factors are considered in hunter-gatherer site selection-geography, environment, biology, culture, and history-these choices are also made in tandem with other more nuanced considerations of cultural and generation knowledge such as: time of day, group relation, and day-to-day experiences and events (Scheiber and Clark 2008). Many of the factors and variables are inherently difficult to study due to the nature of the archaeological record of these ancient sites. Thus, analysis of ancient hunter-gatherers on any given landscape can sometimes result in the absence of the discussion of human agency and the depiction of the environment as a passive backdrop (Bamforth 2009; Hegmon 2003; Mitchell 2006). Archaeological research, especially huntergatherer research, is often fixated on environmental variables as the main proponents of site choice. This is in large part due to the absence of preserved artifacts and materials that allows archaeologists to analyze more diverse elements of culture. As with this thesis, due to postdepositional processes and preservation, most of the hunter-gatherer records on the Great Plains is comprised primarily of chipped stone tools. When archaeologists focus on this artifact class, it is easy for ancient humans to be depicted as passive agents that have little autonomy.

Many researchers have tried to amend these issues, and there has been increasing attention on the mutual and active relationship between people and environmental landscapes,
such as ideas related to palimpsests and landscape affordances (Bailey 2007; Dooley 2008; Kempf 2020). Because the sites are spatially bounded but the artifacts present are from various temporal periods, this illustrates a persistent use of place, or a cumulative palimpsest (Bailey 2007). Along similar lines, the specific area is likely chosen due to the feedback between the choices made by previous hunter-gatherers and with environment factors (Dooley 2008; Kempf 2020). Kempf (2020) identifies this type of behavior as a type of generational, societal decisionmaking that is molded, but not constrained, by specific resources that a landscape might provide. Although it is difficult to disentangle what exactly brought these people to this space and when, the large and diverse artifact assemblages validate that these playas were chosen repetitively over many generations.

## CHAPTER TEN: DISCUSSION AND CONCLUSIONS

The primary objective of this thesis is to establish a foundation for future playa research through the analysis of private collections gathered in the South Platte River Basin in eastern Colorado. Although there have been a number of playa studies in the Southern Plains (Hill et al. 1995; Holliday et al. 1994; Holliday 1997; LaBelle et al. 2003; Litwinionek et al. 2003), the general lack of such focused research in the region has perpetuated the notion of the Eastern Plains as "flyover country," as it has been long overlooked as a place of archaeological prominence. This perception was highlighted by the Great Plains scholar Waldo Wedel. In several of his works he states that the Great Plains is depicted as a desert of resources and that the landscape has been long neglected and underestimated (Wedel 1947, 1963).

Due to the lack of known recorded archaeology within the Plains and the low population of modern residents within this region, this stereotype still persists. Further perpetuating this discourse are issues with land access, lack of resource development and the absence of cultural resource management (CRM) projects, which presently is the primary avenue of professional site discovery. These issues create an underrepresented historical record of indigenous land use over the past 12,000 years for most of the South Platte River Basin of Colorado. The data presented in this thesis aim to combat this notion of a deficient landscape, with 18 sites that depict diverse and intensive use of playa lakes, highlighting just one type of settlement on the plains (Figure 26). The archaeology of playas in Colorado sheds light on overall hunter-gatherer lifeways of the Great Plains, places more "dots on the map", and provides an opportunity to educate and promote stewardship of cultural resources with non-professionals.


Figure 26. Artist depiction of playa landscape use in the South Platte River Basin by Elena Haverluk. Indigenous groups of the past occupied near and around playas in various ways. This image portrays hunters overlooking a playa and a family sitting back at camp.

Through this thesis research I analyzed 18 playa sites and answered four primary questions:

## I. How many archaeological playa sites are recorded in Colorado?

Although there are over 8,000 playas within the South Platte River Basin, an analysis of the state of Colorado's archaeological database revealed only five recorded sites associated with a playa, the Dutton, Selby, Witzel, 5KC224, and 5KC218 sites. This thesis recorded 14 sites in Colorado and four sites in Nebraska officially within the State Historic Preservation Office (SHPO). In addition to these playa sites, GIS analysis revealed over 300 sites within 1-kilometer of a playa
lake indicating the potential for more playa sites within the study area. With such little representation of playa use, this thesis shows that it is imperative that research be accomplished through collaborative approaches, as the official archaeological record does not tell the full story. The recording of the 18 sites and the potential of over 300 more playa sites suggest that ancient playa landscape use has great potential.

## II. What do the lithic assemblages from the 18 playa sites represent, specifically concerning time and tool diversity?

Regarding temporal occupation, trends from the published archaeological literature show that playa use during the Paleoindian period was substantial. While instead, playa use decreased from the Early to Late Archaic period and then increased once again in the Early Ceramic (Holliday 1997; Litwinionek et al.2003). The results from the analysis of the privately collected 18 sites show a differing trend of continuous utilization throughout time, especially distinct is the large increase during the Middle Archaic through the Middle Ceramic periods. The composition of each of the 18 assemblages were relatively diverse and robust. All site assemblages were indicative of camp sites that were either long term and/or reoccupied over thousands of years suggesting a persistent use of place.

## III. What are the morphological and geographic characteristics of the 18 playas?

Most of the associated playas were less than 10 acres, although several outliers of 20-30 acres, and one 86 -acre playa was present. The geographic positioning of the sites in relation to the playas varied more than expected. The topographical positioning of sites also varied, although most site (30\%) were on hilltops. Over $50 \%$ of sites were found on the southern perimeters,
which contrasts with the Southern High Plains sites which were primarily along the northern portions of a playa.

## IV. Are there distinguishable relationships between playa size, morphology, and associated cultural use of playas?

Although this analysis hoped to parse out patterns of playa use throughout time, it instead presented great diversity and persistence across the landscape. The plains of the South Platte River Basin are vast and the presence of reoccupation specifically at these playa sites is compelling in that site choice is not topographically or spatially constrained. There are millions of acres in the Plains, yet ancient hunter-gatherer groups continued to choose to occupy the spaces surrounding playas over millennia.

In the Southern Plains, Wood et al. (2002) suggests that the quality and quantity of playas indicate that occupations were merely "the occasional lucky find", meaning that playas were only happened upon by chance but were not resources in which people could confidently depend on. While this could possibly be the case in the Southern Plains, as the archaeological data show many ephemeral assemblages (Brosowske and Bement 1998; Hill et al 1995; Holliday et al. 1994), the robust assemblage data presented in this thesis contradicts any notion of playa usage as "lucky finds" in Colorado. The persistent, multicomponent assemblages found within this small sample of 18 sites in six Colorado and Nebraska counties show that these were not sites that were visited by chance, but places that people continued to return to consciously and deliberately. Playas were likely used as known stopping points during both foraging trips and base camp moves that would have been important to indigenous groups living across the Great Plains (Johnson 2008).

## Future Directions

This thesis established only the baseline of research for the 18 sites within the South Platte River Basin. All of the sites have great future potential, including an analysis of the debitage, spatial analysis of the distribution of tools, further survey, and excavation. In terms of spatial analysis, each of the artifacts are provenienced to either a GPS point or collection area. This information could be parsed out to identify and examine whether there are specific locations around the playa that have clusters of tools types or projectile point types. Further, survey and excavation could examine specific site-based questions and provide stratigraphic context to the projectile point chronology that has already been established in this research.

Playa landscapes are not only attractive places to camp and hunt because of water resources, but for several other potential reasons that were not discussed in this thesis. Future research of playa landscapes should also consider the availability of other resource types like chipped and ground stone materials. Johnson (2008) found that the geology near playas were conducive areas for tool stone formation, especially silicified cherts. Additionally, playas are often near ephemeral drainages, which are known to have secondary cobbles of chert and petrified wood that have been carried from farther sources. The ample supply of raw materials could also add to playa landscapes resources (Johnson 2008).

Now that playa utilization has been established within the South Platte River Basin, these wetlands should be sought out as part of a larger landscape survey similar to Brosowske and Bement's (1998) reconnaissance work in Oklahoma. Over a 5,520-acre area, Brosowske and Bement (1998) found that $93 \%$ of the playas surveyed within their study area had an archaeological site. This type of work would be relevant in the Colorado Plains, to identify whether these 18 sites analyzed in this thesis are anomalies. Especially pertinent for future analysis are the 363 archaeological sites within the counties of Logan, Phillips, Sedgwick,

Washington, and Weld that were found to be within 1-kilometer of a playa basin. As the 18 sites in this analysis showed that over $60 \%$ of sites were within 600 kilometers of a playa, a largescale reconnaissance should also examine the distance from site to playa and establish whether the 1-kilometer buffer is too far. Large-scale survey could also identify whether sites are situated in high biodiversity zones, where playas are clustered together, rather than at isolated playa areas. Analysis of the larger playa landscape would add to our understanding of larger huntergatherer movement across the plains.

Another potential direction of playa research is to move away from broad patterns of resource use and instead focus on local playa use practices. In an analysis of human wetland use, Kviat (1991) found that out of 157 culture traits across 19 different non-industrial groups, no specific occupation patterns were found at wetland sites. Instead, groups occupying these landscapes were found to be highly flexible and their strategies varied based upon specific, culturally appropriate strategies and their local spatial and temporal positioning. Similar to Kviat (1991) analysis of wetlands around the world, Kelly (1997) also found that wetland utilization in the Great Basin region is locally distinct, especially concerning the presence of specific artifacts, such as duck decoys and bone fishhooks which have only been found within a small locality (Kelly 1997). Future research could focus on inter-site analysis of stone tools, ceramics and groundstone, in order to identify possible local hunting and gathering trends in the plains.

This thesis also highlights the importance of, and calls for continuing future collaboration with, avocational archaeologists in playa research. As a discipline, archaeology has had an ongoing, complicated relationship with collectors, avocational researchers, and looters. There is a fine and often ambiguous line between promoting stewardship and enabling the illegal collecting and even marketing of artifacts (Zimmer et al. 2003). One issue many archaeologists
identify with private collections is the limited provenience, especially as most are relegated to the surface. Regardless of this, surface assessment is still the most commonly employed practice within archaeology through Cultural Resource Management (CRM) (Banning et al. 2011). Often, a single visit is thought to be an adequate representation and CRM decisions are quickly made based upon this methodology. In an assessment of sites within cultivated and disturbed contexts, Shott (1995) discovered that $16 \%$ more artifacts were discovered on surfaces at each subsequent revisiting episode. This study suggests that multiple visits to a location is necessary, but this continues to be unobtainable in CRM due to the costs of time and labor. Given this predicament, I believe that there is great potential in CRM professional to work in tandem with avocationals who have already collected with an area. However, there should always be ethical and moral considerations to partnerships with certain types of artifact collectors-especially those who purposefully and knowingly destroy the archaeological record for personal and/or monetary gain (Pitblado 2014). I do not advocate for collaborations with all collectors but stress the importance of partnering with those that align with our professional and ethical values. It is through these relationships that I propose archaeologists invite and create a space for avocational archaeologists, such as Mike Toft, to enable the recording and publishing of unknown archaeological sites.

Another potential for collaborative research involves playa conservation. The eastern Plains of Colorado are abundant in natural resources like natural gas and wind. In an assessment for wind development, Fargione et al. (2012) suggests that large playas be avoided when building sustainable energy infrastructure to reduce wildlife impacts. The results of this thesis and other playa archaeological studies show that a study of cultural resources could help aid in protecting these important biological and cultural landscapes. Such a cross-disciplinary
collaboration could help improve community conservation efforts, both ecological and archaeological, this would also help to create a more representative archaeological record across the Great Plains.

This thesis had two major goals. It aimed to establish a baseline of playa archaeology in northeastern Colorado and to provide a better understanding of hunter-gatherer use and temporal occupation of playas within the Central Plains. The results of this thesis show that there are at least 18 more playa sites in addition to the five that are known in the state. Overall, there is still very little research on the cultural landscape of playas in the Central Plains. This research contributes to this history, with the 18 sites depicting at least 12,000 years of diverse playa occupation by ancient peoples. Although this thesis focused on environmental concerns, especially the availability of water; we must always remember that the cultural aspects, generational knowledge, and spiritual connection to the landscape are all variables by which people make choices. Although not explicit from this analysis, the concept of playas as a persistent place of occupation encompass all these different factors. Playas were likely part of a larger and multigenerational strategy of indigenous landscape use throughout the Plains. And although the Native Americans who lived on the Great Plains were forcefully removed from these lands, the bits of stone tools and ceramics left behind help piece together these histories, one fragment at a time.

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APPENDIX A: METADATA FOR LITHIC ANALYSIS

| Attribute | Code (if applicable) | Description |
| :---: | :---: | :---: |
| Specimen Number | \# | The number assigned to the artifact at the time of collection by Mike Toft-this number can be found written on the physical artifact. |
| CMPA Number | \# | The number assigned to the artifact for analysis by Marie Taylor for thesis research; this number is also written on a plastic bag that houses each artifact in the CMPA |
| Artifact Class |  | The broad material type or functional category of the artifact |
| Bead | BE |  |
| Bone | BO |  |
| Ceramic | CR |  |
| Chipped Stone | CS |  |
| Ground stone | GS |  |
| Shell | SH |  |
| Wood | WO |  |
| Artifact Element |  | The specific morphological category of the artifact |
| Angular Debris | ANG |  |
| Awl | AWL |  |
| Biface | BF |  |
| Core | CORE |  |
| Drill | DR |  |
| Edge Modified Flake | EMF |  |
| End Scraper | ES |  |
| Convex Scraper | CV |  |
| Side Scraper | SS |  |
| Misc. Scraper | MS |  |
| Misc. Ground stone | GRD |  |
| Hammerstone | HAM |  |
| Hafted Knife | HK |  |
| Mano (Hand stone) | MAN |  |
| Metate (Netherstone) | MET |  |
| Not Applicable | NAP | Does not have an element |
| Other | O | Specify in comments |
| Projectile Point | PP |  |
| Preform | PRE |  |
| Shaft Abrader | SA |  |
| Graver | GRV |  |
| Mass (g) | \# | Weight of the artifact in grams |
| Raw Material |  | Geologic or mineral composition of the artifact. |
| Chert | CH | Chert |
| Chalcedony | CY | Chalcedony |
| Metaquartzite | MQ | Metaquartzite |
| Obsidian | OB | Obsidian |
| Quartzite | QZ | Quartzite |
| Quartz | QU | Quartz |
| Petrified Wood | PW | Petrified Wood |
| Basalt | B | Basalt |
| Sandstone | SA | Sandstone |
| Granite | GR | Granite |


| Attribute | Code (if applicable) | Description |
| :---: | :---: | :---: |
| Not Determined | ND | Raw material is difficult to identify |
| Other | O | Specify in comments |
| Cortex | $\begin{gathered} \mathrm{y}=\mathrm{yes} \\ \mathrm{n}=\mathrm{no} \end{gathered}$ | The absence/presence of cortex (outer rind of rock). |
| Temporal Age |  |  |
| Early Paleoindian | EP | 12,000-11,000 B.P. |
| Middle Paleoindian | MP | 11,000-10,000 B.P. |
| Late Paleoindian | LP | 10,000-7,500 B.P. |
| Early Archaic | EA | 7,500-5,000 B.P. |
| Middle Archaic | MA | 5,000-3,000 B.P. |
| Late Archaic | LA | 3,000 B.P. - A.D. 150 |
| Early Ceramic | EC | A.D. $150-1150$ |
| Middle Ceramic | MC | A.D. 1150-1540 |
| Protohistoric | PH | A.D. $1540-1840$ |
| Type |  | Type name in which temporal age is based upon |
|  | Clovis |  |
|  | Folsom |  |
|  | Agate Basin |  |
|  | Alberta |  |
|  | Angostura |  |
|  | Cody Knife |  |
|  | Eden |  |
|  | Hell Gap |  |
|  | James Allen |  |
|  | Scottsbluff |  |
|  | Mount Albion |  |
|  | Duncan-Hanna |  |
|  | Mallory |  |
|  | McKean |  |
|  | Yonkee |  |
|  | Besant |  |
|  | Pelican Lake |  |
|  | Hogback corner-notched |  |
|  | Avonlea |  |
|  | Plains side-notched |  |
|  | Prairie side-notched |  |
|  | Upper Republican |  |
|  | Metal |  |
| Portion |  | The segment of the tool that is present/intact. If multiple portions are present list them in comma delineated format (ex. D, M) |
| Distal | D | If a tool is vertically oriented, the distal portion is the top. Distal portions are most often identified by the tip of lithics. |
| Tip | T | The extreme distal end, especially used to identify the top of a projectile point. |
| Medial | M | The medial portion is the middle of a tool. |
| Proximal | P | If a tool is vertically oriented, the proximal portion is the bottom. In lithics this is |


| Attribute | Code (if applicable) | Description |
| :--- | :--- | :--- |
| Mostly Complete | MC | identifiable by platforms, platform prepping, <br> the shape of the haft element, etc. |
| Complete | The tools are mostly complete with only few <br> parts missing, missing portions should be <br> listed in a comma delineated format in <br> parenthesis (ex. D, M) |  |
| Not determined | C | The entire tool is complete, with no missing <br> fragments. |
| Comments | ND | Portion is too incomplete to determine, or tool <br> type is not conducive to portion analysis. |
| Other Coding | n/a | Any additional relevant data. |
| Not Applicable/Available |  | Data is missing or unavailable |

APPENDIX B: CHRONOLOGY OF THE SOUTH PLATTE RIVER BASIN

| Stage Name | Period | Type | Date Range (RCYBP) |
| :---: | :---: | :---: | :---: |
| Paleoindian |  |  | 12,000-7,500 B.P. |
|  | Early Paleoindian | Clovis | 12,000-11,000 В.P. |
|  | Middle Paleoindian | Folsom | 11,000-10,000 B.P. |
|  |  | Goshen |  |
|  | Late Paleoindian |  | 10,000 - 7,500 B.P. |
|  |  | Agate Basin |  |
|  |  | Alberta |  |
|  |  | Angostura |  |
|  |  | Cody Knife |  |
|  |  | Eden |  |
|  |  | Hell Gap |  |
|  |  | James Allen |  |
|  |  | Scottsbluff |  |
| Archaic |  |  | 7,500-1,800 B.P. |
|  | Early Archaic |  | 7,500-5,000 B.P. |
|  |  | Mount Albion |  |
|  | Middle Archaic |  | 5,000-3,000 B.P. |
|  |  | Duncan-Hanna |  |
|  |  | Mallory |  |
|  |  | McKean |  |
|  | Late Archaic |  | 3,000-1,800 B.P. |
|  |  | Yonkee |  |
|  |  | Besant |  |
|  |  | Pelican Lake |  |
| Late Prehistoric | Early Ceramic |  | 1,800-800 B.P. |
|  |  | Hogback cornernotched |  |
|  | Middle Ceramic |  | 800-410 B.P. |
|  |  | Avonlea |  |
|  |  | Plains sidenotched |  |
|  |  | Prairie sidenotched |  |
|  |  | Upper <br> Republican |  |
|  |  | Unnotched |  |
| Protohistoric |  |  | 410-90 B.P. |
|  |  | Metal point |  |

Modified from Gilmore et al. (1999).

APPENDIX C: ARTIFACT PHOTOGRAPHS FROM SITES
25CH.102, 25CH.103, 5LO.1017, 5LO.1018, AND 5PL. 498


Figure C.1. Site 25CH.102, Early Paleoindian projectile points.


Figure C.2. Site 25CH.102, Late Paleoindian projectile points.


Figure C.3. Site 25CH.102, Paleoindian projectile point.


Figure C.4. Site 25CH.102, Archaic projectile points.


Figure C.5. Site 25CH.102, Late Archaic, Pelican Lake projectile points.


Figure C.6. Site 25CH.102, Early Ceramic corner-notched, Hogback projectile points.


Figure C.7. Site 25CH.102, Middle Ceramic, side-notched projectile point.


Figure C.8. Site 25CH.102, Middle Ceramic, unnotched projectile point.


Figure C.9. Site 25CH.102, preforms.


Figure C.10. Site 25CH.102, bifaces.


Figure C.11. Site 25CH.102, hafted knives.


Figure C.12. Site 25CH.102, drills.


Figure C.13. Site 25CH.102, scrapers.


Figure C.14. Site 25CH.103, Archaic projectile points.


Figure C.15. Site 25CH.102, Middle Archaic, McKean projectile points.


Figure C.16. Site 25CH.103, Middle Archaic, Duncan-Hanna projectile points.


Figure C.17. Site 25CH.103, Late Archaic, Pelican Lake projectile points.


Figure C.18. Site 25CH.103, Middle Ceramic projectile points.


Figure C.19. Site 25CH.103, Early Ceramic corner-notched, Hogback projectile points.


Figure C.20. Site 25CH.103, preforms.


Figure C.21. Site 25CH.103, hafted knives.


Figure C.22. Site 25CH.103, drills and drill tips.


Figure C.23. Site 25CH.103, scrapers.


Figure C.24. Site 5LO.1017, Late Paleoindian projectile points.


Figure C.25. Site 5LO.1017, Middle Archaic, Mallory projectile points.


Figure C.26. Site 5LO.1017, Middle Archaic, McKean projectile points.


Figure C.27. Site 5LO.1017, Late Archaic projectile points.


Figure C.28. Site 5LO.1017, Late Archaic, Pelican Lake projectile points.


Figure C.29. Site 5LO.1017, bifaces.


Figure C.30. Site 5LO.1017, large bifaces and knives.


Figure C. 31. Site 5LO.1017, drills.


Figure C.32. Site 5LO.1017, scrapers.


Figure C.33. Site 5LO.1018, Folsom preform.


Figure C.34. Site 5LO.1018, Late Paleoindian projectile points.


Figure C.35. Site 5LO.1018, Early Archaic, Mount Albion projectile points.


Figure C.36. Site 5LO.1018, Middle Archaic, Duncan-Hanna projectile points.


Figure C.37. Site 5LO.1018, Middle Archaic, McKean projectile points.


Figure C.38. Site 5LO.1018, Late Archaic, Besant projectile points.


Figure C.39. Site 5LO.1018, Late Archaic, Pelican Lake projectile points.


Figure C.40. Site 5LO.1018, Early Ceramic corner-notched projectile points.


Figure C.41. Site 5LO.1018, Middle Ceramic side-notched projectile points.


Figure C.42. Site 5LO.1018, Middle Ceramic, unnotched projectile point.


Figure C.43. Site 5LO.1018, preforms.


Figure C.44. Site 5LO.1018, bifaces.


Figure C.45. Site 5LO.1018, hafted knives.


Figure C. 46. Site 5LO.1018, drills and drill tips.


Figure C.47. Site 5LO.1018, spokeshave.


Figure C.48. Site 5LO.1018, detail of spokeshave.


Figure C.49. Site 5LO.1018, scrapers.


Figure C.50. Site 5LO.1018, hafted scraper.


Figure C.51. Site 5LO.1018, ceramic fragments.


Figure C.52. Site 5PL.498, Late Paleoindian projectile points.


Figure C.53. Site 5PL.498, Middle to Late Archaic projectile points.


Figure C.54. Site 5PL.498, Early Ceramic corner-notched projectile points.


Figure C.55. Site 5PL.498, Middle Ceramic side and tri-notched projectile points.


Figure C.56. Site 5PL.498, preforms.


Figure C.57. Site 5PL.498, bifaces.


Figure C.58. Site 5PL.498, hafted knives.


Figure C. 59. Site 5PL.498, drills.


Figure C.60. Site 5PL.498, graver.


Figure C.61. Site 5PL.498, scrapers.


Figure C.62. Site 5PL.498, ceramic fragments.

APPENDIX D: METRIC AND OBSERVATIONAL DATA FROM 18 LITHIC AND CERAMIC ASSEMBLAGES

| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass <br> (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 356 | A | 1 | CS | PRE | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P, M minus |
| 15.22 | 257 | A | 2 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C minus |
| 15.22 | 258 | A | 3 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, made on a flake blank |
| 15.22 | 259 | A | 4 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 260 | A | 5 | CS | PP | 0.7 | CH | n | MC | Plains side-notched | MC (T) minus |
| 15.22 | 261 | A | 6 | CS | PP | 0.4 | CH | n | EC | Hogback | M minus |
| 15.22 | 263 | A | 7 | CS | PP | 0.6 | PW | n | EC | Hogback | C minus |
| 15.22 | 262 | - | 8 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND minus |
| 15.22 | 264 | - | 9 | CS | PP | 0.5 | CH | n | EC | Hogback | D, M minus, made on a flake blank |
| 15.22 | 265 | A | 10 | CS | PP | 0.9 | CH | n | LA | Pelican Lake | D, M minus |
| 15.22 | 266 | A | 11 | CS | PP | 1 | CH | n | EC | Hogback | MC (T) minus |
| 15.22 | 268 | A | 12 | CS | PP | 0.9 | CH | n | EC |  | C minus |
| 15.22 | 269 | A | 13 | CS | BF | 0.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 29 | - | 14 | CS | PP | 1 | CH | n | LA | Pelican Lake | C plus |
| 15.22 | 77 | - | 15 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | MC (T) plus |
| 15.22 | 19 | - | 16 | CS | PP | 1.8 | PW | n | LA | Pelican Lake | MC (T, P ) minus |
| 15.22 | 234 | C | 17 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | C minus, made on a flake blank |
| 15.22 | 235 | A | 18 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 236 | A | 19 | CS | PP | 1.9 | CH | n | LA | Pelican Lake | MC ( $\mathrm{T}, \mathrm{P}$ ) minus |
| 15.22 | 237 | C | 20 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | MC (T, P) minus |
| 15.22 | 255 | AN | 21 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | MC (T) minus, made on a flake blank |
| 15.22 | 232 | C | 22 | CS | PP | 1 | CH | n | EC | Hogback | MC (P) minus |
| 15.22 | 240 | A | 23 | CS | PP | 1.5 | PW | n | LA | Pelican Lake | MC (T) minus |
| 15.22 | 241 | A | 24 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 242 | AE | 25 | CS | PP | 2 | CH | n | LA | Pelican Lake | M minus |
| 15.22 | 243 | C | 26 | CS | PP | 1.8 | CH | n | LA | Pelican Lake | M minus |
| 15.22 | 249 | C | 27 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | MC (T) minus |
| 15.22 | 245 | A | 28 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | M minus |
| 15.22 | 246 | A | 29 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ minus, made on a flake blank |
| 15.22 | 247 | C | 30 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 248 | A | 31 | CS | PP | 2.2 | CH | n | EA | Mount Albion | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 249 | C | 32 | CS | PP | 1.4 | CH | n | LA | Pelican Lake | D, M minus, made on a flake blank |
| 15.22 | 250 | A | 33 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | M minus, made on a flake blank |
| 15.22 | 251 | A | 34 | CS | PP | 2.4 | CH | n | LA | Pelican Lake | MC (T) minus |
| 15.22 | 239 | A | 35 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | C minus |
| 15.22 | 253 | AN | 36 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ minus, made on a flake blank |
| 15.22 | 294 | A | 37 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | MC (P) minus |
| 15.22 | 69 | - | 38 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (P) plus, made on a flake blank |


| 15.22 | 238 | G | 39 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | C minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 298 | A | 40 | CS | BF | 0.3 | CH | n | n/a | n/a | ND minus |
| 15.22 | 261 | A | 41 | CS | PP | 1.2 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | D, M minus |
| 15.22 | 271 | AN | 42 | CS | BF | 6.7 | CY | n | n/a | n/a | D, M, P minus |
| 15.22 | 272 | JE | 43 | CS | PP | 4.2 | CY | n | LA | Besant | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 233 | AE | 44 | CS | PP | 5.5 | CH | n | MA | Yonkee | D, M minus |
| 15.22 | 232 | D | 45 | CS | PP | 7.4 | CH | n | LA | Besant | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 273 | A | 46 | CS | PP | 3 | CH | n | LA | Besant | $\mathrm{P}, \mathrm{M}$ minus, made on a flake blank |
| 15.22 | 270 | B | 47 | CS | PP | 1.7 | CH | n | LP | Unnotched | C minus |
| 15.22 | 74 | A | 48 | CS | PP | 2 | PW | n | MA | McKean | C plus |
| 15.22 | 274 | E | 49 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | C minus |
| 15.22 | 275 | A | 50 | CS | PP | 0.9 | CH | n | EC | n/a | D, M minus |
| 15.22 | 206 | A | 51 | CS | PP | 4 | CH | n | EP | Clovis | P plus, "ETB", alibates |
| 15.22 | 207 | AC | 52 | CS | PP | 5.3 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | MC (T) minus |
| 15.22 | 205 | C | 53 | CS | BF | 12.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D, M minus, "T.B." |
| 15.22 | 201 | A | 54 | CS | PP | 19.4 | PW | n | EP | $\mathrm{n} / \mathrm{a}$ | M minus, overshot flakes |
| 15.22 | 202 | A | 55 | CS | HK | 13.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus, "S.T.S." |
| 15.22 | 203 | A | 56 | CS | BF | 9.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus possible knife |
| 15.22 | 204 | C | 57 | CS | PP | 5.7 | CH | n | LP | Hell Gap | C minus, small/resharpened many times |
| 15.22 | 208 | AS | 58 | CS | PP | 2.9 | CH | n | LP | n/a | P plus |
| 15.22 | 209 | A | 59 | CS | PP | 2.3 | CH | n | LP | Angostura | P minus |
| 15.22 | 22 | A | 60 | CS | PP | 2.3 | CH | n | LP | Goshen/Plainview | P plus minus, possible Folsom preform, failed flute |
| 15.22 | 210 | E | 61 | CS | PRE | 3.1 | CH | y | EP | Folsom | M present on one side |
| 15.22 | 67 | B | 62 | CS | BF | 1.7 | CH | n | n/a | n/a | D, M minus minus, no diagnostic base but grinding is |
| 15.22 | 214 | A | 63 | CS | BF | 1.6 | CH | n | n/a | n/a | M, P present--likely paleo age |
| 15.22 | 211 | B | 64 | CS | PP | 1.9 | CH | n | LP | Agate Basin | $P$ minus |
| 15.22 | 212 | E | 65 | CS | PP | 3 | CH | n | LP | Agate Basin | P minus, "T.В." |
| 15.22 | 215 | E | 66 | CS | PP | 3.4 | CH | n | LP | n/a | P minus |
| 15.22 | 213 | AE | 67 | CS | PP | 3 | QZ | n | LP | Agate Basin | $P$ minus |
| 15.22 | 231 | AE | 68 | CS | PP | 6.9 | CH | n | MA | Yonkee | C minus |
| 15.22 | 31 | - | 69 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 15.22 | 35 | - | 70 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 63 | - | 71 | CS | PRE | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |
| 15.22 | 216 | C | 72 | CS | BF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 290 | A | 73 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 66 | - | 74 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.22 | 278 | D | 75 | CS | PP | 3.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 281 | A | 76 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |


| 15.22 | 289 | A | 77 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 228 | A | 78 | CS | BF | 1.2 | CY | n | MC | $\mathrm{n} / \mathrm{a}$ | C minus, reworked projectile point |
|  |  |  |  |  |  |  |  |  |  |  | minus, possible tip of an eden point (distinct |
| 15.22 | 285 | J | 79 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D medial ridge and fine parallel lateral flaking) |
| 15.22 | 287 | C | 80 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 299 | A | 81 | CS | PP | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus, made on a flake blank |
| 15.22 | 288 | A | 82 | CS | BF | 0.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 291 | C | 83 | CS | PP | 0.9 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 294 | A | 84 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
|  |  |  |  |  |  |  |  |  |  |  | minus, possible broken preform but |
| 15.22 | 293 | E | 85 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C subsequently worked on all edges |
| 15.22 | 292 | C | 86 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 296 | A | 87 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 297 | F | 88 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 40 | - | 89 | CS | BF | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.22 | 277 | - | 90 | CS | BF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 279 | E | 91 | CS | BF | 2.6 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 280 | B | 92 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | M minus, made on a flake blank |
| 15.22 | 282 | C | 93 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 284 | A | 94 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus, patenated |
| 15.22 | 286 | C | 95 | CS | BF | 1.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, tip is crookedly worked |
| 15.22 | 220 | A | 96 | CS | BF | 6.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus |
| 15.22 | 283 | A | 97 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 2 | F | 98 | CS | BF | 13.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.22 | 295 | E | 99 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 221 | A | 100 | CS | BF | 8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus |
| 15.22 | 217 | A | 101 | CS | BF | 30.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | minus, overshot flakes, retouch on one lateral D,M side |
| 15.22 | 218 | I | 102 | CS | HK | 40.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 229 | - | 103 | CS | DR | 4.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{D}, \mathrm{M}, \mathrm{P}$ minus |
| 15.22 | 230 | B | 104 | CS | DR | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ minus |
| 15.22 | 219 | A | 105 | CS | BF | 11.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 222 | A | 106 | CS | BF | 8.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 223 | G | 107 | CS | BF | 13.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 224 | A | 108 | CS | PRE | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, made on a flake blank |
| 15.22 | 225 | E | 109 | CS | PRE | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) minus, made on a flake blank |
| 15.22 | 226 | BW | 110 | CS | PRE | 6.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 227 | A | 111 | CS | PRE | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 276 | A | 112 | CS | BF | 18.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |


| 15.22 | 13 | E | 113 | CS | EMF | 0.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 73 | - | 114 | CS | SS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 7 | A | 115 | CS | BF | 9.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.22 | 468 | A | 116 | CS | EMF | 33.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 12 | - | 117 | CS | BF | 8.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.22 | 5 | A | 118 | CS | CV | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 15.22 | 60 | A | 119 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 449 | C | 120 | CS | ES | 7.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 62 | - | 121 | CS | CV | 2.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.22 | 445 | C | 122 | CS | SS | 33.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) minus |
| 15.22 | 6 | A | 123 | CS | SS | 0.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 72 | E | 124 | CS | ES | 6.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 474 | A | 125 | CS | EMF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 473 | D | 126 | CS | SS | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 472 | A | 127 | CS | EMF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 470 | A | 128 | CS | ES | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 478 | A | 129 | CS | BF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 469 | B | 130 | CS | SM | 8.5 | PW | n | n.a | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 477 | E | 131 | CS | ES | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 476 | A | 132 | CS | SM | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 482 | A | 133 | CS | BF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 458 | E | 134 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 459 | E | 135 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 450 | A | 136 | CS | SS | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 460 | DN | 137 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 465 | - | 138 | CS | SM | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 479 | C | 139 | CS | ES | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 481 | A | 140 | CS | BF | 1.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 484 | A | 141 | CS | EMF | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 480 | A | 142 | CS | EMF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 475 | B | 143 | CS | ES | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 483 | E | 144 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus, "SE" |
| 15.22 | 471 | B- | 145 | CS | EMF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 467 | AN | 146 | CS | ES | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 464 | E | 147 | CS | CV | 3.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 461 | G | 148 | CS | CV | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) minus |
| 15.22 | 451 | - | 149 | CS | BF | 1.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 442 | AN | 150 | CS | SS | 8.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 443 | C | 151 | CS | SS | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 452 | A | 152 | CS | SM | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |


| 15.22 | 444 | A | 153 | CS | CV | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 454 | A | 154 | CS | EMF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 453 | A | 155 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 455 | A | 156 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, made on a large flake blank |
| 15.22 | 462 | A | 157 | CS | ES | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 456 | A | 158 | CS | BF | 0.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 447 | A | 159 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 448 | A | 160 | CS | SM | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 457 | E | 161 | CS | BF | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 435 | C | 162 | CS | EMF | 19.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 436 | C | 163 | CS | CV | 27.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 3 | - | 164 | CS | CV | 8.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |
| 15.22 | 61 | A | 165 | CS | SS | 18.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.22 | 437 | A | 166 | CS | BF | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 9 | - | 167 | CS | SM | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 438 | J | 168 | CS | CV | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 439 | AE | 169 | CS | ES | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 64 | - | 170 | CS | SS | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 1 | F | 171 | CS | SS | 19.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | 70 | - | 172 | CS | ES | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 71 | E | 173 | CS | SS | 2.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.22 | 33 | - | 174 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.22 | 28 | - | 175 | CS | SS | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | - | EE | 176 | CS | SS | 64.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "T.T." |
| 15.22 | - | C | 177 | CS | SM | 32 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C possible spokeshave |
| 15.22 | - | F | 178 | CS | ES | 17.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | C | 179 | CS | SM | 35.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | C | 180 | CS | CORE | 99.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | C | 181 | CS | CORE | 171 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | elongate, shaped like a blade core but lacks C repeated platform striking |
| 15.22 | - | B | 182 | CS | CORE | 16 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 183 | CS | CORE | 30.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | 58 | C | 184 | CS | CORE | 45 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | - | C | 185 | CS | CORE | 44.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | BW | 186 | CS | ES | 45.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | C | 187 | CS | SM | 19.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 188 | CS | CORE | 25.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 426 | A | 189 | CS | CV | 18.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | 428 | C | 190 | CS | ES | 12.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 427 | C | 191 | CS | ES | 6.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |


| 15.22 | 429 | J | 192 | CS | ES | 13 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, slightly serrated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 430 | EE | 193 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 431 | A | 194 | CS | CV | 15.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 432 | A | 195 | CS | CV | 10.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, "WTB" |
| 15.22 | 433 | C | 196 | CS | SS | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 424 | A | 197 | CS | SM | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 423 | A | 198 | CS | EMF | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 422 | A | 199 | CS | SM | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 421 | B | 200 | CS | CV | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 420 | A | 201 | CS | SS | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 419 | A | 202 | CS | SM | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 418 | D | 203 | CS | SS | 9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 417 | A | 204 | CS | ES | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 434 | A | 205 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 415 | E | 206 | CS | ES | 1.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, recycled PP base |
| 15.22 | 416 | A | 207 | CS | ES | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, recycled PP base |
| 15.22 | 408 | A | 208 | CS | SS | 11.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 409 | A | 209 | CS | ES | 9.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 410 | B | 210 | CS | SM | 13.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 411 | A | 211 | CS | ES | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 412 | A | 212 | CS | SM | 6.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 414 | B | 213 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 43 | - | 214 | CS | ES | 5.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 406 | A | 215 | CS | SS | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 413 | A | 216 | CS | ES | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, possible gravers |
| 15.22 | 425 | A | 217 | CS | ES | 5.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 397 | CN | 218 | CS | SS | 10.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.22 | 378 | A | 219 | CS | ES | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 398 | AS | 220 | CS | SS | 9.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 399 | E | 221 | CS | ES | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 400 | BE | 222 | CS | SM | 18.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 401 | A | 223 | CS | SS | 8.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 402 | C | 224 | CS | CV | 10.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 403 | A | 225 | CS | ES | 4.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 404 | SW | 226 | CS | BF | 2.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 405 | B | 227 | CS | ES | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 407 | A | 228 | CS | SM | 2.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 25 | - | 229 | CS | CV | 7.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 391 | A | 230 | CS | GRV | 9.5 | CH | y | EP | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 392 | C | 231 | CS | SS | 9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |


| 15.22 | 393 | B | 232 | CS | ES | 7.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 387 | E | 233 | CS | EMF | 3.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 394 | A | 234 | CS | EMF | 3.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 395 | AS | 235 | CS | EMF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 389 | A | 236 | CS | SM | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 396 | A | 237 | CS | CV | 8.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 388 | J | 238 | CS | CV | 8.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 382 | E | 239 | CS | ES | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D minus |
| 15.22 | 383 | A | 240 | CS | SM | 5.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, refits to CMPA \#241 |
| 15.22 | 384 | A | 241 | CS | SM | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus, refits to CMPA \#240 |
| 15.22 | 385 | C | 242 | CS | HK | 14.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, possibly a Cody Complex knife |
| 15.22 | 386 | C | 243 | CS | EMF | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, blade |
| 15.22 | 390 | A | 244 | CS | EMF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 374 | B | 245 | CS | ES | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 381 | AS | 246 | CS | CV | 5.9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 380 | A | 247 | CS | ES | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 379 | C | 248 | CS | CV | 7.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 377 | C | 249 | CS | CV | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 49 | - | 250 | CS | CV | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | 376 | A | 251 | CS | ES | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 378 | A | 252 | CS | ES | 2.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 373 | E | 253 | CS | ES | 15.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 372 | C | 254 | CS | CV | 11.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 371 | A | 255 | CS | ES | 18.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 370 | D | 256 | CS | ES | 21.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 369 | E | 257 | CS | ES | 7.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 368 | C | 258 | CS | CV | 10.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 367 | C | 259 | CS | ES | 13 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 308 | A | 260 | CS | CV | 10.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 307 | B | 261 | CS | CV | 10.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 306 | A | 262 | CS | ES | 12 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 305 | A | 263 | CS | ES | 8.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 304 | A | 264 | CS | CV | 19.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 303 | AS | 265 | CS | ES | 10.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 302 | A | 266 | CS | ES | 10.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 301 | C | 267 | CS | ES | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 315 | A | 268 | CS | ES | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 314 | E | 269 | CS | ES | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 313 | A | 270 | CS | ES | 10.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 312 | E | 271 | CS | ES | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |


| 15.22 | 311 | C | 272 | CS | ES | 11.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 310 | C | 273 | CS | ES | 10.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 309 | C | 274 | CS | CV | 9.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus, one graver looking piece |
| 15.22 | 317 | C | 275 | CS | SS | 15.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) minus |
| 15.22 | 318 | C | 276 | CS | SS | 18.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) minus |
| 15.22 | 319 | A | 277 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) minus |
| 15.22 | 325 | B | 278 | CS | ES | 6.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) minus |
| 15.22 | 320 | B | 279 | CS | ES | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 326 | A | 280 | CS | ES | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 31 | - | 281 | CS | ES | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 327 | A | 282 | CS | ES | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) minus |
| 15.22 | 321 | - | 283 | CS | SS | 7.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 10 | A | 284 | CS | EMF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 322 | A | 285 | CS | ES | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 328 | A | 286 | CS | ES | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 323 | C | 287 | CS | ES | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 324 | A | 288 | CS | ES | 3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 17 | DE | 289 | CS | EMF | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 329 | A | 290 | CS | EMF | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 45 | - | 291 | CS | SM | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.22 | 50 | - | 292 | CS | ES | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | 330 | AS | 293 | CS | SS | 9.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 337 | A | 294 | CS | SS | 5.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus, refits with CMPA \#294 |
| 15.22 | 331 | A | 295 | CS | SS | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, refits with CMPA \#295 |
| 15.22 | 21 | - | 296 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 332 | B | 297 | CS | EMF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 333 | A | 298 | CS | SS | 6 | PW | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 336 | C | 299 | CS | GRV | 6.6 | CH | n | EP | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 68 | - | 300 | CS | EMF | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 20 | - | 301 | CS | ES | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | 338 | A | 302 | CS | EMF | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 335 | A | 303 | CS | SM | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M minus |
| 15.22 | 338 | C | 304 | CS | SM | 7.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P , M plus |
| 15.22 | 339 | A | 305 | CS | SM | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P , M minus |
| 15.22 | 48 | G | 306 | CS | SM | 8.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | 340 | B | 307 | CS | SM | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 341 | A | 308 | CS | SS | 5.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus, blade |
| 15.22 | 334 | B | 309 | CS | SM | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 342 | B | 310 | CS | SM | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 343 | B | 311 | CS | SS | 3.1 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |


| 15.22 | 345 | B | 312 | CS | EMF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | 344 | A | 313 | CS | SM | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 345 | C | 314 | CS | SM | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 346 | A | 315 | CS | SM | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 347 | A | 316 | CS | SM | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 18 | AB | 317 | CS | SS | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P , M plus |
| 15.22 | 75 | - | 318 | CS | ES | 9.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.22 | 348 | - | 319 | CS | SM | 6.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 350 | C | 320 | CS | SM | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 351 | C | 321 | CS | SM | 13.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P minus |
| 15.22 | 352 | C | 322 | CS | ES | 9.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 359 | AS | 323 | CS | EMF | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 360 | B | 324 | CS | EMF | 9.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 353 | A | 325 | CS | EMF | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 361 | A | 326 | CS | ES | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 354 | A | 327 | CS | SS | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M minus |
| 15.22 | 362 | AN | 328 | CS | SM | 7.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 355 | A | 329 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 363 | AN | 330 | CS | EMF | 5.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND minus |
| 15.22 | 364 | C | 331 | CS | SS | 13.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ minus |
| 15.22 | 356 | A | 332 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 365 | C | 333 | CS | SS | 13.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 357 | A | 334 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C minus |
| 15.22 | 366 | A | 335 | CS | SM | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D minus |
| 15.22 | 86 | C | 336 | CS | SM | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.22 | - | A | 337 | GS | MAN | 467 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M 2 ground lateral edges |
| 15.22 | - | A | 338 | GS | MAN | 244 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 339 | GS | MAN | 125 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | A | 340 | GS | MET | 144.2 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND 1 ground edge |
| 15.22 | - | E | 341 | GS | MAN | 1189 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C 3 lateral ground edges |
| 15.22 | 4 | F | 342 | GS | MAN | 43.3 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | F | 343 | GS | MAN | 88 | ND | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | F | 344 | GS | MAN | 48.7 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 345 | CS | EMF | 4.2 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 346 | CS | SM | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | E | 347 | CS | BF | 11 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | E | 348 | CS | EMF | 7.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | E | 349 | CS | BF | 9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND possible base of a tool based on morphology |
| 15.22 | - | E | 350 | CS | BF | 11.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.22 | - | E | 351 | CS | EMF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 15.22 | - | E | 352 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | - | E | 353 | CS | CORE | 11.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 354 | CS | EMF | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 355 | CS | EMF | 11.3 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 356 | CS | EMF | 5.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 357 | CS | EMF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | E | 358 | CS | BF | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | E | 359 | CS | EMF | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | D | 360 | CS | EMF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | G | 361 | CS | BF | 23.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.22 | - | G | 362 | CS | EMF | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | G | 363 | CS | BF | 7.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.22 | - | G | 364 | CS | SM | 9.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | G | 365 | CS | BF | 8.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | AE | 366 | CS | EMF | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | AE | 367 | CS | SS | 5.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | J | 368 | CS | EMF | 6.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | A | 369 | CS | CORE | 33.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | J | 370 | CS | EMF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M possible spokeshave |
| 15.22 | - | J | 371 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | F | 372 | CS | CORE | 13.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "V.A.R." |
| 15.22 | - | J | 373 | CS | SS | 17.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "V.A.R." |
| 15.22 | - | - | 374 | CS | EMF | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "V.A.R." |
| 15.22 | - | A | 375 | CS | CORE | 51.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "SHSC" |
| 15.22 | - | A | 376 | CS | CORE | 21.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "SHSC" |
| 15.22 | - | A | 377 | CS | CORE | 44.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | A | 378 | CS | CORE | 19.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | A | 379 | CS | CORE | 17.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | A | 380 | CS | CORE | 15.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | A | 381 | CS | CORE | 8.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | A | 382 | CS | BF | 14.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "PMG" |
| 15.22 | - | A | 383 | CS | CORE | 21.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 384 | CS | CORE | 23 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 385 | CS | CORE | 15.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 386 | CS | CORE | 22.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | F | 387 | CS | BF | 16.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | C | 388 | CS | BF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | C | 389 | CS | BF | 16.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | C | 390 | CS | BF | 71.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | C | 391 | CS | BF | 15.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 15.22 | - | C | 392 | CS | BF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.22 | - | C | 393 | CS | BF | 23.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | C | 394 | CS | EMF | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | C | 395 | CS | EMF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 396 | CS | BF | 21.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | B | 397 | CS | BF | 14.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 398 | CS | EMF | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | EN | 399 | CS | CORE | 19.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | A | 400 | CS | BF | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | A | 401 | CS | BF | 7.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | A | 402 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | A | 403 | CS | BF | 6.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND HV" |
| 15.22 | - | A | 404 | CS | EMF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | A | 405 | CS | CORE | 13.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "HV" |
| 15.22 | - | A | 406 | CS | BF | 48.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | A | 407 | CS | BF | 24.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "HV" |
| 15.22 | - | C | 408 | CS | CORE | 17.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 409 | CS | EMF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 410 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 411 | CS | BF | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | B | 412 | CS | BF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.22 | - | B | 413 | CS | CORE | 16.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.22 | - | B | 414 | CS | CORE | 17 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | - | B | 415 | CS | CORE | 11.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.22 | 83 | - | 416 | CS | EMF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | B | 1 | CR | NAP | 9.6 | O | n | EC | n/a | n/a clay, cord marked, slightly oxidized, "D" |
| 38.264 | - | B | 2 | CR | NAP | 3.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | n/a clay, cord marked |
| 38.264 | 44 | - | 3 | CR | NAP | 2.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ clay, cord marked, plus |
| 38.264 | - | - | 4 | CR | NAP | 3.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ clay, cord marked, interior is burned |
| 38.264 | - | - | 5 | CR | NAP | 5.7 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ clay, cord marked, interior is burned |
| 38.264 | - | - | 6 | CR | NAP | 1 | O | n | EC | n/a | n/a clay, cord marked |
| 38.264 | - | B | 7 | CR | NAP | 2.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | n/a clay, cord marked, "D" |
| 38.264 | - | - | 8 | CR | NAP | 1.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | n/a clay, cord marked |
| 38.264 | - | B | 9 | CR | NAP | 2.8 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ clay, cord marked, interior is burned clay, cord marked, exterior and interior is |
| 38.264 | - | A | 10 | CR | NAP | 1.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ burned |
| 38.264 | 35 | - | 11 | CR | NAP | 4.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 12 | CR | NAP | 4.8 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 13 | CR | NAP | 3.8 | O | n | EC | n/a | BO clay, cord marked, plus, interior is burned |
| 38.264 | 35 | - | 14 | CR | NAP | 5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus, oxidized |
| 38.264 | 35 | - | 15 | CR | NAP | 8.7 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus, obliterated |
| 38.264 | 35 | - | 16 | CR | NAP | 1.2 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 17 | CR | NAP | 4.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 18 | CR | NAP | 3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, slightly eroded cord marked, plus, clay, interior and exterior burned, plus, no |
| 38.264 | 35 | - | 19 | CR | NAP | 4.4 | O | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior decoration |
| 38.264 | 35 | - | 20 | CR | NAP | 3.7 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus, interior is burned |
| 38.264 | 35 | - | 21 | CR | NAP | 1.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 22 | CR | NAP | 4.1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus clay, cord marked, plus, lateral portion is |
| 38.264 | 35 | - | 23 | CR | NAP | 4.1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO burned |
| 38.264 | 35 | - | 24 | CR | NAP | 2.3 | O | n | EC | n/a | BO clay, cord marked, plus, oxidized |
| 38.264 | 35 | - | 25 | CR | NAP | 3.8 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 26 | CR | NAP | 1.6 | O | n | EC | n/a | BO clay, cord marked, plus |
| 38.264 | 35 | - | 27 | CR | NAP | 2.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus |
| 38.264 | 35 | - | 28 | CR | NAP | 2.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus, interior is burned |
| 38.264 | 35 | - | 29 | CR | NAP | 3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus clay, cord marked, plus, lateral portion is |
| 38.264 | 35 | - | 30 | CR | NAP | 4 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO burned clay, cord marked, plus, lateral portion is |
| 38.264 | 35 | - | 31 | CR | NAP | 3.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO burned and interior is oxidized |
| 38.264 | 35 | - | 32 | CR | NAP | 3.2 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO clay, cord marked, plus, |
| 38.264 | 35 | - | 33 | CR | NAP | 3.5 | O | n | EC | n/a | BO clay, cord marked, plus |


| 38.264 | 35 | - | 34 | CR | NAP | 2.1 | O | n | EC | n/a | clay, plus, no exterior decoration, interior is BO oxidized |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | 35 | - | 35 | CR | NAP | 0.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ clay, plus, no exterior decoration |
| 38.264 | - | B | 36 | CS | PP | 0.9 | CH | n | EC | Hogback | C |
| 38.264 | - | A | 37 | CS | PP | 3 | CH | n | LA | Besant | C |
| 38.264 | - | B | 38 | CS | PP | 1.1 | CH | n | EC | Hogback | C made on a flake blank |
| 38.264 | - | C | 39 | CS | PP | 3.1 | CH | n | MA | Yonkee | C |
| 38.264 | - | - | 40 | CS | ES | 16.3 | PW | n | n/a | n/a | C |
| 38.264 | - | B | 41 | CS | PRE | 0.8 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 42 | CS | PP | 0.4 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | 12 | - | 43 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | - | BN | 44 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{M})$ |
| 38.264 | 4 | - | 45 | CS | PP | 1.3 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | 46 | - | 46 | CS | PP | 1 | QZ | n | EC | Hogback | C plus, serrated |
| 38.264 | - | A | 47 | CS | PP | 1 | QZ | n | EC | n/a | MC (D) |
| 38.264 | - | B | 48 | CS | PP | 0.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M, D |
| 38.264 | 0 | B | 49 | CS | PP | 0.7 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (M) |
| 38.264 | 37 | - | 50 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.264 | 27 | - | 51 | CS | PP | 0.6 | PW | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 38.264 | - | C | 52 | CS | PP | 2.7 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.264 | - | B | 53 | CS | PP | 2.4 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | 38 | - | 54 | CS | PP | 5.1 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | M plus, "D" |
| 38.264 | 28 | - | 55 | CS | PP | 2.1 | CH | n | MA | McKean | C plus |
| 38.264 | - | - | 56 | CS | PP | 1.4 | CH | n | MA | Duncan-Hanna | C |
| 38.264 | - | B | 57 | CS | PP | 2.1 | QZ | n | MA | McKean | P |
| 38.264 | - | B | 58 | CS | BF | 3 | CH | n | n/a | n/a | P, M |
| 38.264 | 20 | - | 59 | CS | PP | 2.7 | CH | y | MA | McKean | $\mathrm{P}, \mathrm{M}$ plus |
| 38.264 | 54 | - | 60 | CS | BF | 2 | CH | n | n/a | n/a | M plus |
| 38.264 | - | A | 61 | CS | PP | 2.9 | CH | n | MA | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 62 | CS | PP | 2.1 | CY | n | EA | Mount Albion | C |
| 38.264 | - | AN | 63 | CS | BF | 2.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | - | 64 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | C | 65 | CS | BF | 1.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | 31 | - | 66 | CS | PP | 2.8 | CH | n | MA | Duncan-Hanna | P plus, "D" |
| 38.264 | - | B | 67 | CS | PP | 1.4 | CH | n | MA | Duncan-Hanna | P |
| 38.264 | - | B | 68 | CS | BF | 2.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | 2 | - | 69 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | A | 70 | CS | ES | 2.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 71 | CS | ES | 1.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | B | 72 | CS | PRE | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |


| 38.264 | 7 | - | 73 | CS | BF | 1.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | 8 | - | 74 | CS | BF | 1.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | 11 | - | 75 | CS | BF | 1.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.264 | - | - | 76 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) a question mark is next to the site \# |
| 38.264 | - | - | 77 | CS | BF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | B | 78 | CS | BF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.264 | 29 | - | 79 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.264 | 18 | - | 80 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.264 | - | B | 81 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | A | 82 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D made on a flake blank |
| 38.264 | 53 | - | 83 | CS | BF | 2.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.264 | - | A | 84 | CS | BF | 10.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C in 2 pieces |
| 38.264 | 49 | - | 85 | CS | BF | 2.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus, "D" |
| 38.264 | - | BN | 86 | CS | BF | 7.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | 25 | - | 87 | CS | BF | 1.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.264 | - | B | 88 | CS | BF | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D", possible PP base |
| 38.264 | - | B | 89 | CS | BF | 9.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | - | 90 | CS | BF | 0.9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | - | 91 | CS | BF | 2.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M possible McKean base? |
| 38.264 | - | - | 92 | CS | EMF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 93 | CS | BF | 1.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | A | 94 | CS | MS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | - | 95 | CS | MS | 4.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | B | 96 | CS | EMF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | 57 | - | 97 | CS | BF | 7.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.264 | 5 | - | 98 | CS | EMF | 7.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.264 | 9 | - | 99 | CS | BF | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.264 | 52 | - | 100 | CS | BF | 19.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 38.264 | - | A | 101 | CS | BF | 14.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M "D", raw material has lots of inclusions |
| 38.264 | 27 | - | 102 | CS | BF | 13.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.264 | - | A | 103 | CS | DR | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M refits with CMPA \#104 |
| 38.264 | - | B | 104 | CS | DR | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M refits with CMPA \#103 |
| 38.264 | 21 | - | 105 | CS | BF | 4.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 106 | CS | BF | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 107 | CS | BF | 7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 108 | CS | MS | 9.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | - | 109 | CS | MS | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.264 | - | B | 110 | CS | BF | 4.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 111 | CS | MS | 2.4 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.264 | - | A | 112 | CS | MS | 6.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 38.264 | 6 | - | 113 | CS | BF | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | BN | 114 | CS | SS | 5.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 38.264 | 40 | - | 115 | CS | ES | 3.5 | CH | n | n/a | n/a | C plus |
| 38.264 | - | A | 116 | CS | BF | 7.1 | CH | n | n/a | n/a | P |
| 38.264 | - | - | 117 | CS | ES | 17.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | 10 | - | 118 | CS | ES | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | 13 | - | 119 | CS | ES | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | 3 | - | 120 | CS | MS | 18 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | 47 | - | 121 | CS | ES | 4.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | 32 | - | 122 | CS | BF | 3.5 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 38.264 | - | B | 123 | CS | MS | 5.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND a question mark is next to the site \# |
| 38.264 | 50 | - | 124 | CS | SS | 3.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.264 | - | A | 125 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | B | 126 | CS | SS | 22.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.264 | - | A | 127 | CS | ES | 11.2 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | 58 | - | 128 | CS | ES | 10.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 38.264 | - | B | 129 | CS | ES | 3.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | 17 | - | 130 | CS | EMF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus |
| 38.264 | - | A | 131 | CS | EMF | 4.3 | CH | n | n/a | n/a | P |
| 38.264 | - | B | 132 | CS | GRV | 7.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 133 | CS | HK | 20.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | 51 | - | 134 | CS | GRV | 2.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |
| 38.264 | - | A | 135 | CS | CORE | 25.9 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 136 | CS | BF | 16.7 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | A | 137 | CS | BF | 12.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | A | 138 | CS | BF | 25.9 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | A | 139 | CS | BF | 16.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | A | 140 | CS | BF | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | C | 141 | CS | CORE | 12.4 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 142 | CS | CORE | 16.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 143 | CS | CORE | 29.3 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | C | 144 | CS | CORE | 37.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 145 | CS | CORE | 25.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 146 | CS | EMF | 41.5 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | R | 147 | CS | BF | 32.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | X | 148 | CS | EMF | 20.9 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | - | 149 | CS | BF | 8.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 150 | CS | EMF | 8.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 38.264 | - | B | 151 | CS | CORE | 106.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 152 | CS | BF | 78.4 | QZ | n | n/a | n/a | C |


| 38.264 | - | B | 153 | CS | BF | 8.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | B | 154 | CS | BF | 12.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 155 | CS | BF | 6.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | A | 156 | CS | BF | 44.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | A | 157 | CS | BF | 26.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{D}, \mathrm{M})$ |
| 38.264 | - | A | 158 | CS | BF | 18.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | A | 159 | CS | BF | 25.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | A | 160 | CS | CORE | 36.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | 24 | A | 161 | CS | EMF | 9.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "plus" |
| 38.264 | - | A | 162 | CS | MS | 42 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.264 | - | C | 163 | CS | BF | 15.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | C | 164 | CS | BF | 14.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | C | 165 | CS | MS | 37.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 166 | CS | BF | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 167 | CS | CORE | 12 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 168 | CS | CORE | 30.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 169 | CS | CORE | 63.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 170 | CS | CORE | 114.8 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 171 | CS | CORE | 70.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 172 | CS | BF | 20.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | A | 173 | CS | CORE | 17.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 |  | A | 174 | CS | CORE | 117.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 175 | CS | CORE | 21.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | A | 176 | CS | CORE | 35.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 177 | CS | CORE | 46.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 178 | CS | CORE | 21.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | A | 179 | CS | CORE | 42.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 180 | CS | CORE | 83.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C likely just a tested cobble |
| 38.264 | - | B | 181 | CS | BF | 12.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 182 | CS | BF | 47.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 183 | CS | BF | 28.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | B | 184 | CS | CORE | 36.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 185 | CS | CORE | 71 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 186 | CS | CORE | 77.8 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 187 | CS | CORE | 89.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 188 | CS | CORE | 280 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 189 | CS | BF | 83.9 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 190 | CS | CORE | 52.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 191 | CS | CORE | 29.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 192 | CS | BF | 9.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |


| 38.264 | - | B | 193 | CS | BF | 10.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | B | 194 | CS | BF | 18.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 195 | CS | BF | 20.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | B | 196 | CS | BF | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | B | 197 | CS | CORE | 18.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | B | 198 | CS | BF | 37.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 199 | CS | CORE | 29.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | B | 200 | CS | BF | 20 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 201 | CS | BF | 37.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | B | 202 | CS | BF | 15.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.264 | - | - | 203 | CS | EMF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.264 | - | - | 204 | CS | BF | 9.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | - | 205 | CS | BF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | - | 206 | CS | BF | 6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | - | 207 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | - | 208 | CS | BF | 19.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | - | 209 | CS | CORE | 24.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | - | 210 | CS | CORE | 45.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | - | 211 | CS | CORE | 67.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | A | 212 | CS | ES | 56.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "W" |
| 38.264 | - | B | 213 | CS | ES | 30.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.264 | - | B | 214 | CS | BF | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.264 | - | A | 215 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 216 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 217 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 218 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 219 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 220 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 221 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 222 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 223 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 224 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 225 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 226 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 227 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 228 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 229 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 230 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 231 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 232 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.264 | - | A | 233 | GS | MET | - | SA | n | n/a | n/a | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | A | 234 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 235 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 236 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 237 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 238 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 239 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 240 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 241 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 242 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 243 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 244 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 245 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 246 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 247 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 248 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 249 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 250 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 38.264 | - | A | 251 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 252 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 253 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 254 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 255 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 256 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 257 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 258 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 259 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | A | 260 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | A | 261 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 262 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 263 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 264 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 265 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 266 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 267 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 268 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 269 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 270 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 271 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 272 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |


| 38.264 | - | C | 273 | GS | MET | - | SA | n | n/a | n/a | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | C | 274 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | C | 275 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | C | 276 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 277 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 278 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 279 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 280 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 281 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 282 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 283 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 284 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 285 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 286 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 287 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 288 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 289 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 290 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 38.264 | - | B | 291 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 292 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 293 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 294 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 295 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 296 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 297 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 298 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 299 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 300 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 301 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 302 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 303 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 304 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 305 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 306 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 307 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 308 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 309 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 310 | GS | MAN | - | SA | n | n/a | n/a | D |
| 38.264 | - | B | 311 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 312 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |


| 38.264 | - | B | 313 | GS | MISC | - | SA | n | n/a | n/a | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.264 | - | B | 314 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 315 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 316 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 317 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 318 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 319 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | B | 320 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 321 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 322 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 323 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 324 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 325 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 326 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 327 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 328 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 329 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 330 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 331 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 332 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 333 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 334 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 335 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 336 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 337 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 338 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 339 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 340 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 341 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 342 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 343 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 344 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 345 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 346 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 347 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 348 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 349 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 350 | GS | MISC | - | SA | n | n/a | n/a | L |
| 38.264 | - | - | 351 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 352 | GS | MISC | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |


| 38.264 | - | - | 353 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :--- | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 38.264 | 26 | B | 354 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 355 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 356 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | - | 357 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 358 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | - | B | 359 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 63 | - | 360 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 56 | - | 361 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 61 | - | 362 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.264 | 48 | - | 363 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 62 | - | 364 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 66 | - | 365 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 26 | - | 366 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 59 | - | 367 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.264 | 42 | - | 368 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass $(\mathrm{g})$ | Raw Material | Cortex | Temporal Age | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 84 | C | 1 | CS | EMF | 3 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus |
| 15.24 | 496 | - | 2 | CS | PP | 0.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 498 | - | 3 | CS | PP | 0.7 | CY | n | MC | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 524 | - | 4 | CS | BF | 0.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 5 | CS | BF | 1.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M no IDs on tool |
| 15.24 | 86 | - | 6 | CS | BF | 1.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 494 | - | 7 | CS | PP | 1.5 | CH | n | MC | $\mathrm{n} / \mathrm{a}$ | C plus, squat corner-notched point |
| 15.24 | 508 | - | 8 | CS | PP | 2.4 | CH | n | MC | $\mathrm{n} / \mathrm{a}$ | M, P plus, only the tip is missing |
| 15.24 | 517 | - | 9 | CS | BF | 1.6 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 213 | - | 10 | CS | PP | 0.4 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 15.24 | - | - | 11 | CS | PP | 5.4 | CH | n | MA | Duncan-Hanna | C |
| 15.24 | 510 | - | 12 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 515 | - | 13 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 509 | - | 14 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 504 | - | 15 | CS | SS | 6.9 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 519 | - | 16 | CS | PP | 7.8 | CH | n | MA | Duncan-Hanna | C plus |
| 15.24 | 528 | - | 17 | CS | BF | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.24 | 503 | - | 18 | CS | SS | 1.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 511 | - | 19 | CS | PP | 0.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 507 | - | 20 | CR | NAP | 0.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 520 | - | 21 | CS | GRV | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus, paleo |
| 15.24 | 518 | - | 22 | CS | MS | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 493 | - | 23 | CS | BF | 2.8 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 500 | - | 24 | CR | NAP | 1.4 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 521 | - | 25 | CS | EMF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 492 | - | 26 | CS | MS | 8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 495 | - | 27 | CS | EMF | 9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 505 | - | 28 | CS | CORE | 32.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus |
| 15.24 | 523 | - | 29 | GS | MET | 19.9 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 514 | - | 30 | CS | CORE | 8.1 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 499 | - | 31 | CS | GRV | 2.5 | CY | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus, paleo? |
| 15.24 | 81 | - | 32 | CS | PP | 2.8 | PW | n | LA | Besant/Outlook | C plus |
| 15.24 | - | - | 33 | CS | PP | 2 | QZ | n | MA | McKean | C |
| 15.24 | 392 | - | 34 | CS | PP | 1.2 | CH | n | MA | McKean | P plus <br> plus, no site number is found on tool but found within the same frame as all 15.24 |
| 15.24 | 104 | - | 35 | CS | PP | 1.8 | CH | n | MA | McKean | $\mathrm{P}, \mathrm{M}$ tools |
| 15.24 | 113 | - | 36 | CS | PP | 1.4 | CH | n | MA | McKean | C plus |
| 15.24 | 334 | - | 37 | CS | PP | 2.7 | QZ | n | MA | n/a | C plus |


| 15.24 | 63 | - | 38 | CS | PP | 2 | CH | n | MA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 443 | - | 39 | CS | HK | 14.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 455 | - | 40 | CS | HK | 9.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (P) plus |
| 15.24 | 108 | - | 41 | CS | PP | 3 | CH | n | MA | McKean | C plus |
| 15.24 | - | - | 42 | CS | BF | 3.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 304 | - | 43 | CS | PP | 3 | CH | n | MA | McKean | C plus |
| 15.24 | 54 | - | 44 | CS | PP | 4.5 | CH | n | LP | Angostura | C plus, in 2 pieces |
| 15.24 | 295 | - | 45 | CS | ES | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus, recycled McKean point |
| 15.24 | 117 | - | 46 | CS | ES | 1.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, recycled McKean point |
| 15.24 | - | - | 47 | CS | PP | 2.6 | CH | n | MA | McKean | C |
| 15.24 | - | - | 48 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 15.24 | 186 | - | 49 | CS | PP | 1.9 | CH | n | MA | McKean | P, M plus |
| 15.24 | 326 | - | 50 | CS | PP | 0.8 | PW | n | MA | McKean | P plus |
| 15.24 | - | - | 51 | CS | PP | 1.6 | CH | n | MA | McKean | P, M |
| 15.24 | - | - | 52 | CS | MS | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $D, M$ could be a broken point? |
| 15.24 | - | - | 53 | CS | BF | 2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 54 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C recycled Mount Albion? |
| 15.24 | - | - | 55 | CS | PP | 2.2 | PW | n | EA | Mount Albion | C |
| 15.24 | - | - | 56 | CS | PP | 2.7 | CH | n | MA | McKean | C made on a flake blank |
| 15.24 | - | - | 57 | CS | PP | 2.2 | PW | n | MA | McKean | C |
| 15.24 | 137 | - | 58 | CS | HK | 6.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (D) plus, in two pieces |
| 15.24 | - | - | 59 | CS | BF | 8.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C Angostura biface? |
| 15.24 | 461 | - | 60 | CS | PP | 1.2 | CH | n | MC | n/a | MC (P) made on a flake blank |
| 15.24 | - | - | 61 | CS | PP | 1.3 | QZ | n | LA | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | - | - | 62 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 75 | - | 63 | CS | BF | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | plus, likely the distal end of a PP, completely D, M patinated |
| 15.24 | 457 | - | 64 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 65 | CS | PP | 1.9 | CH | n | EA | Mount Albion | M |
| 15.24 | 296 | - | 66 | CS | BF | 1.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 307 | - | 67 | CS | PP | 1 | CH | n | MA | McKean | C plus |
| 15.24 | 201 | - | 68 | CS | PRE | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 198 | - | 69 | CS | PRE | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, made on a flake blank |
| 15.24 | - | - | 70 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 15.24 | - | - | 71 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 15.24 | 366 | - | 72 | CS | PRE | 2.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | C made on a flake blank |
| 15.24 | - | - | 73 | CS | PRE | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 15.24 | 152 | - | 74 | CS | PRE | 1.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{MC}(\mathrm{P})$ |
| 15.24 | - | - | 75 | CS | PRE | 1.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) made on a flake blank |
| 15.24 | - | - | 76 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC made on a flake blank |
| 15.24 | 408 | - | 77 | CS | BF | 1.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ |


| 15.24 | - | - | 78 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P made on a flake blank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | A | 79 | CS | DR | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D drill tip |
| 15.24 | 15 | - | 80 | CS | DR | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, drill tip, made on a flake blank |
| 15.24 | 105 | - | 81 | CS | DR | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 178 | - | 82 | CS | DR | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 83 | CS | DR | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 107 | - | 84 | CS | DR | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 174 | - | 85 | CS | DR | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 406 | - | 86 | CS | BF | 6.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 87 | CS | PRE | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 15.24 | - | - | 88 | CS | BF | 1.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 456 | - | 89 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |
| 15.24 | 171 | - | 90 | CS | BF | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) plus, "NW" |
| 15.24 | 87 | - | 91 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 460 | - | 92 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 15.24 | 169 | - | 93 | CS | PRE | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 94 | CS | PRE | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ |
| 15.24 | 84 | - | 95 | CS | PRE | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |
| 15.24 | 175 | - | 96 | CS | PRE | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 445 | - | 97 | CS | PP | 0.3 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 98 | CS | PP | 0.3 | CH | n | MC | $\mathrm{n} / \mathrm{a}$ | P only one notch is present |
| 15.24 | - | - | 99 | CS | PP | 0.9 | CH | n | MC | Plains side-notched | C |
| 15.24 | - | - | 100 | CS | PP | 0.8 | QZ | n | MC | Plains side-notched | MC (D) |
| 15.24 | - | - | 101 | CS | PP | 0.6 | CH | n | MC | Plains side-notched | MC (D) |
| 15.24 | - | - | 102 | CS | PP | 0.6 | CH | n | MC | Plains side-notched | P, M |
| 15.24 | 441 | - | 103 | CS | PP | 0.3 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 438 | - | 104 | CS | PP | 0.5 | CH | n | MC | Tri-notched | P plus |
| 15.24 | - | - | 105 | CS | PP | 0.4 | CH | n | MC | Avonlea | P made on a flake blank |
| 15.24 | 55 | - | 106 | CS | BF | 0.4 | CH | n | n/a | n/a | P plus |
| 15.24 | - | - | 107 | CS | PP | 0.3 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 422 | - | 108 | CS | PP | 0.3 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 109 | CS | BF | 0.8 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 110 | CS | PP | 0.3 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 71 | - | 111 | CS | PP | 0.4 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 29 | - | 112 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 113 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | 83 | - | 114 | CS | PP | 0.2 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 115 | CS | PP | 0.7 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 11 | - | 116 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 15.24 | 8 | - | 117 | CS | PP | 0.8 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |
| 15.24 | 133 | - | 118 | CS | PP | 0.9 | CY | n | EC | $\mathrm{n} / \mathrm{a}$ | P, M plus |


| 15.24 | 166 | - | 119 | CS | PP | 0.3 | CH | n | MC | Prairie side-notched | C plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | - | 120 | CS | PP | 0.6 | QZ | n | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 340 | - | 121 | CS | PP | 0.4 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 122 | CS | PP | 0.4 | CH | n | EC | Hogback | P, M |
| 15.24 | 446 | - | 123 | CS | PP | 0.5 | QZ | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 203 | - | 124 | CS | PP | 0.5 | QZ | n | EC | n/a | C plus, made on a flake blank |
| 15.24 | 101 | - | 125 | CS | PP | 0.6 | CH | n | EC | Hogback | C plus |
| 15.24 | - | - | 126 | CS | PP | 0.5 | CH | n | EC | Hogback | M |
| 15.24 | - | - | 127 | CS | PP | 0.5 | CH | n | EC | n/a | M |
| 15.24 | 199 | - | 128 | CS | PP | 0.5 | QZ | n | EC | Hogback | M plus |
| 15.24 | 94 | - | 129 | CS | PP | 0.4 | PW | n | EC | Hogback | P, M plus |
| 15.24 | 97 | - | 130 | CS | PP | 0.4 | CH | n | EC | n/a | P, M plus |
| 15.24 | 76 | - | 131 | CS | PP | 0.6 | CH | n | EC | n/a | M plus |
| 15.24 | 141 | - | 132 | CS | PP | 0.7 | CH | n | EC | Hogback | M plus |
| 15.24 | 196 | - | 133 | CS | PP | 0.6 | CH | n | EC | n/a | C plus, made on a flake blank |
| 15.24 | 69 | - | 134 | CS | PP | 0.6 | CH | n | EC | Hogback | C plus |
| 15.24 | - | - | 135 | CS | PP | 0.7 | CH | n | EC | Hogback | M |
| 15.24 | 377 | - | 136 | CS | PP | 0.7 | CH | n | EC | Hogback | M plus |
| 15.24 | 53 | - | 137 | CS | PP | 0.8 | CH | n | EC | Hogback | MC (D) plus |
| 15.24 | - | - | 138 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 139 | CS | PP | 0.5 | QZ | n | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 45 | - | 140 | CS | PP | 0.5 | CH | n | EC | Hogback | C plus |
| 15.24 | - | - | 141 | CS | PP | 0.5 | PW | n | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 142 | CS | PP | 0.6 | CH | n | EC | n/a | MC (M) plus |
| 15.24 | 411 | - | 143 | CS | PP | 0.9 | CY | n | EC | Hogback | MC (D) plus, serrated |
| 15.24 | 44 | - | 144 | CS | PP | 1.3 | QZ | n | EC | Hogback | MC (M) plus |
| 15.24 | 148 | - | 145 | CS | PP | 0.8 | CH | n | EC | Hogback | C plus |
| 15.24 | 176 | - | 146 | CS | PP | 0.9 | CH | n | EC | Hogback | C plus |
| 15.24 | - | S | 147 | CS | PP | 0.7 | CH | n | EC | Hogback | C |
| 15.24 | 163 | - | 148 | CS | PP | 0.9 | CH | n | EC | Hogback | MC (M) plus |
| 15.24 | 64 | - | 149 | CS | PP | 0.9 | CY | n | EC | Hogback | MC (D) plus |
| 15.24 | 28 | - | 150 | CS | PP | 0.7 | CH | n | EC | n/a | MC (M) plus |
| 15.24 | 418 | - | 151 | CS | PP | 1.2 | QZ | n | EC | $\mathrm{n} / \mathrm{a}$ | C plus, made on a flake blank |
| 15.24 | 39 | - | 152 | CS | PP | 0.8 | CH | n | EC | n/a | MC (M) plus |
| 15.24 | - | - | 153 | CS | PP | 1 | CH | n | EC | Hogback | MC (M) |
| 15.24 | 41 | - | 154 | CS | PP | 1.1 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 15.24 | 65 | - | 155 | CS | PP | 0.8 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 156 | CS | PP | 0.7 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 157 | CS | PP | 0.5 | CH | n | EC | n/a | P, M made on a flake blank |
| 15.24 | 214 | - | 158 | CS | PP | 0.7 | CH | n | EC | Hogback | M plus, "D" |
| 15.24 | 212 | - | 159 | CS | PP | 0.5 | CH | n | EC | Hogback | P, M plus, "D", refits with CMPA\# 160 |


| 15.24 | 471 | - | 160 | CS | PP | 0.2 | CH | n | EC | Hogback | D plus, refits with CMPA \#159 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 209 | - | 161 | CS | PP | 0.5 | PW | n | EC | Hogback | D plus |
| 15.24 | 136 | - | 162 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 138 | - | 163 | CS | PP | 0.4 | QZ | n | EC | n/a | P, M plus |
| 15.24 | 35 | - | 164 | CS | PP | 0.5 | QZ | n | EC | n/a | D plus |
| 15.24 | - | - | 165 | CS | PP | 3 | CH | n | LA | Pelican Lake | MC (D) |
| 15.24 | - | - | 166 | CS | PP | 2.8 | CH | n | LA | Pelican Lake | C |
| 15.24 | 19 | - | 167 | CS | PP | 2.4 | CH | y | LA | Pelican Lake | MC (D) plus |
| 15.24 | 195 | - | 168 | CS | PP | 3.7 | CH | n | LA | Pelican Lake | C plus |
| 15.24 | - | - | 169 | CS | PP | 2 | QZ | n | LA | Besant/Outlook | MC (D) |
| 15.24 | 1 | - | 170 | CS | PP | 1.2 | CH | n | LA | Besant/Outlook | MC (D) plus, made on a flake blank |
| 15.24 | - | - | 171 | CS | PP | 2.9 | CY | n | LA | Pelican Lake | MC (D) |
| 15.24 | - | - | 172 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | P |
| 15.24 | - | S | 173 | CS | PP | 3.2 | CH | n | LA | Pelican Lake | C |
| 15.24 | 72 | - | 174 | CS | PP | 1.8 | CH | n | LA | Pelican Lake | MC (D) plus |
| 15.24 | 189 | - | 175 | CS | PP | 3.3 | CH | n | LA | Pelican Lake | MC (D) plus |
| 15.24 | 331 | - | 176 | CS | PP | 2.9 | PW | n | LA | Besant/Outlook | P plus |
| 15.24 | 344 | - | 177 | CS | PP | 3.5 | CH | n | LA | Besant/Outlook | P , M plus |
| 15.24 | - | - | 178 | CS | PP | 2.2 | CH | n | LA | Besant/Outlook | P |
| 15.24 | - | - | 179 | CS | PP | 2.4 | CY | n | LA | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 332 | - | 180 | CS | PP | 0.3 | CH | n | EC | n/a | P plus |
| 15.24 | 217 | - | 181 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | P plus |
| 15.24 | 356 | - | 182 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | P, M plus |
| 15.24 | 91 | - | 183 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | P plus |
| 15.24 | 215 | - | 184 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 15.24 | 129 | - | 185 | CS | PP | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 5 | - | 186 | CS | PP | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 187 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | 210 | - | 188 | CS | PP | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 116 | - | 189 | CS | PP | 3.1 | CH | n | LA | Besant/Outlook | MC (P) plus, made on a flake blank |
| 15.24 | 350 | - | 190 | CS | PP | 2.1 | CH | n | LA | Besant/Outlook | C plus, made on a flake blank |
| 15.24 | 128 | - | 191 | CS | PP | 0.6 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 300 | - | 192 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | MC (D) plus |
| 15.24 | 191 | - | 193 | CS | PP | 1.1 | CH | n | LA | Besant/Outlook | P plus |
| 15.24 | - | - | 194 | CS | PP | 3.6 | CH | y | LA | Pelican Lake | MC (D) made on a flake blank |
| 15.24 | 205 | - | 195 | CS | PP | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 90 | - | 196 | CS | PP | 2.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 4 | - | 197 | CS | PP | 3.9 | CH | n | LA | Pelican Lake | MC (D) plus, made on a flake blank |
| 15.24 | 157 | - | 198 | CS | PP | 1.2 | CH | n | MC | Prairie side-notched | P plus |
| 15.24 | 381 | - | 199 | CS | PP | 0.5 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 139 | - | 200 | CS | PP | 2.2 | CH | n | EC | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |


| 15.24 | - | - | 201 | CS | PP | 2.2 | QZ | n | EA | Mount Albion | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 424 | - | 202 | CS | PP | 0.3 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 95 | - | 203 | CS | PP | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 364 | - | 204 | CS | PP | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 52 | - | 205 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | P plus |
| 15.24 | 397 | - | 206 | CS | PP | 1 | CY | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 423 | - | 207 | CS | PP | 0.7 | CH | n | MC | Prairie side-notched | P plus |
| 15.24 | - | - | 208 | CS | PP | 2.2 | CH | n | EA | Mount Albion | $\mathrm{P}, \mathrm{M}$ |
| 15.24 | 454 | - | 209 | CS | PP | 1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 36 | - | 210 | CS | PP | 3.6 | CH | n | LA | Pelican Lake | MC (D) plus |
| 15.24 | - | - | 211 | CS | PP | 6.5 | CH | y | LA | Pelican Lake | C |
| 15.24 | 50 | - | 212 | CS | PP | 1 | CH | n | MA | McKean | C plus |
| 15.24 | - | - | 213 | CS | PP | 1.4 | CH | n | MA | McKean | C |
| 15.24 | - | - | 214 | CS | PP | 2.1 | CH | n | EA | Mount Albion | MC (D) |
| 15.24 | 130 | - | 215 | CS | PP | 1.7 | CH | y | MC | Prairie side-notched | C plus |
| 15.24 | - | - | 216 | CS | BF | 1.7 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C possible preform |
| 15.24 | - | - | 217 | CS | SS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 218 | CS | SPV | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND |
| 15.24 | - | - | 219 | CS | EMF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 220 | CS | MS | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 221 | CS | MS | 1.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 222 | CS | EMF | 1.3 | CY | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 288 | - | 223 | CS | EMF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 224 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 15.24 | - | - | 225 | CS | MS | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND |
| 15.24 | - | - | 226 | CS | EMF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 150 | - | 227 | CS | EMF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 228 | CS | EMF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 229 | CS | ES | 0.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 7 | - | 230 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 231 | CS | SS | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | - | - | 232 | CS | EMF | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 93 | - | 233 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.24 | - | - | 234 | CS | EMF | 2 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 235 | CS | CV | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 15.24 | - | - | 236 | CS | EMF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 237 | CS | EMF | 2.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 207 | - | 238 | CS | EMF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 79 | - | 239 | CS | EMF | 2.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 240 | CS | EMF | 1.6 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 123 | - | 241 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |


| 15.24 | - | - | 242 | CS | EMF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 42 | - | 243 | CS | ES | 10.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 244 | CS | MS | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 245 | CS | EMF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 74 | - | 246 | CS | EMF | 8.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 247 | CS | EMF | 7.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 248 | CS | EMF | 5.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 20 | - | 249 | CS | EMF | 6.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 250 | CS | MS | 13 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 302 | - | 251 | CS | MS | 1.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 252 | CS | MS | 9.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 14 | - | 253 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 115 | - | 254 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 85 | - | 255 | CS | EMF | 4.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 256 | CS | SS | 14.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 257 | CS | MS | 12.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 15.24 | 220 | - | 258 | CS | ES | 1.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | S | 259 | CS | EMF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | N | 260 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 452 | - | 261 | CS | ES | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 325 | - | 262 | CS | EMF | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 348 | - | 263 | CS | EMF | 12.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 264 | CS | ES | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 265 | CS | EMF | 9.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | S | 266 | CS | CV | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 15.24 | - | - | 267 | CS | ES | 9.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 268 | CS | EMF | 5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 173 | - | 269 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 270 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 271 | CS | EMF | 9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 272 | CS | ES | 7.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 273 | CS | ES | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) |
| 15.24 | 142 | - | 274 | CS | ES | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 62 | - | 275 | CS | EMF | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 276 | CS | ES | 1.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 277 | CS | MS | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 128 | - | 278 | CS | ES | 2.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 281 | - | 279 | CS | SS | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 280 | CS | ES | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 281 | CS | ES | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 15.24 | - | - | 282 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |


| 15.24 | - | - | 283 | CS | ES | 10.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | - | 284 | CS | ES | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{D}, \mathrm{M})$ |
| 15.24 | - | - | 285 | CS | ES | 4.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| 15.24 | 290 | - | 286 | CS | SS | 15.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 287 | CS | ES | 11.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 14 | - | 288 | CS | ES | 11.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 289 | CS | ES | 14.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 122 | - | 290 | CS | ES | 12.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 312 | - | 291 | CS | ES | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 205 | - | 292 | CS | EMF | 5.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 293 | CS | EMF | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 24 | - | 294 | CS | MS | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 131 | - | 295 | CS | MS | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 297 | - | 296 | CS | ES | 5.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 15.24 | 291 | - | 297 | CS | ES | 8.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 370 | - | 298 | CS | ES | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 299 | CS | ES | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 300 | CS | EMF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 301 | CS | ES | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 282 | - | 302 | CS | ES | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 303 | CS | ES | 4.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 304 | CS | ES | 4.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 305 | CS | ES | 4.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 34 | - | 306 | CS | ES | 9.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 49 | - | 307 | CS | ES | 1.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 308 | CS | ES | 3.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 58 | - | 309 | CS | ES | 1.4 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 310 | CS | ES | 2.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 180 | - | 311 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 70 | - | 312 | CS | ES | 1.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 313 | CS | ES | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 111 | - | 314 | CS | ES | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 168 | - | 315 | CS | MS | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 15.24 | - | - | 316 | CS | ES | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 208 | - | 317 | CS | MS | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 314 | - | 318 | CS | ES | 1.1 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 219 | - | 319 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 320 | CS | ES | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 146 | - | 321 | CS | ES | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 322 | CS | ES | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 68 | - | 323 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |


| 15.24 | - | - | 324 | CS | ES | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 92 | - | 325 | CS | ES | 3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 182 | - | 326 | CS | ES | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 16 | - | 327 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 15.24 | 362 | - | 328 | CS | ES | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 329 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 330 | CS | ES | 2.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 25 | - | 331 | CS | MS | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 440 | - | 332 | CS | ES | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 333 | CS | ES | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 427 | - | 334 | CS | ES | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 156 | - | 335 | CS | MS | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 336 | CS | ES | 2.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 315 | - | 337 | CS | ES | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 15.24 | 177 | - | 338 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 339 | CS | ES | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 340 | CS | ES | 1.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 134 | - | 341 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 112 | - | 342 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 400 | - | 343 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 170 | - | 344 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 218 | - | 345 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 396 | - | 346 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 444 | - | 347 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 370 | - | 348 | CS | BF | 1.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 164 | - | 349 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 369 | - | 350 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 351 | CS | BF | 2.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 352 | CS | BF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 349 | - | 353 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 169 | - | 354 | CS | BF | 0.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 394 | - | 355 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 433 | - | 356 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 118 | - | 357 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 51 | - | 358 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 18 | - | 359 | CS | BF | 2.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 60 | - | 360 | CS | BF | 12.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 17 | - | 361 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 362 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 184 | - | 363 | CS | BF | 11.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, in 2 pieces |
| 15.24 | 145 | - | 364 | CS | BF | 0.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |


| 15.24 | - | - | 365 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 192 | - | 366 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 106 | - | 367 | CS | BF | 0.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 368 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 147 | - | 369 | CS | PP | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 31 | - | 370 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 410 | - | 371 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 372 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 144 | - | 373 | CS | PP | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 374 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 375 | CS | MS | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 56 | - | 376 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 98 | - | 377 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 378 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 379 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 126 | - | 380 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 26 | - | 381 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 382 | CS | BF | 0.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 158 | - | 383 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 318 | - | 384 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 179 | - | 385 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 371 | - | 386 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 387 | CS | BF | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 388 | CS | BF | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 15.24 | 181 | - | 389 | CS | BF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 390 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 391 | CS | BF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M, D |
| 15.24 | 159 | - | 392 | CS | BF | 0.4 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 293 | - | 393 | CS | BF | 2.6 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 187 | - | 394 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 102 | - | 395 | CS | BF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 303 | - | 396 | CS | MS | 5.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 96 | - | 397 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 398 | CS | ES | 7.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 15.24 | 61 | - | 399 | CS | BF | 10.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 172 | - | 400 | CS | BF | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus, "NN" |
| 15.24 | - | - | 401 | CS | BF | 1.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 402 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| 15.24 | 125 | - | 403 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 204 | - | 404 | CS | BF | 0.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 405 | CS | BF | 0.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 15.24 | 33 | - | 406 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | - | 407 | CS | BF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 10 | - | 408 | CS | EMF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 46 | - | 409 | CS | MS | 2.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 339 | - | 410 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 48 | - | 411 | CS | BF | 18.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 140 | - | 412 | CS | BF | 0.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 413 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | 294 | - | 414 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 372 | - | 415 | CS | MS | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 199 | - | 416 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 103 | - | 417 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 418 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 301 | - | 419 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 420 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D made on a flake blank |
| 15.24 | - | - | 421 | CS | BF | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 425 | - | 422 | CS | BF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 79 | - | 423 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | - | 424 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "S" |
| 15.24 | 197 | - | 425 | CS | MS | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MD |
| 15.24 | - | - | 426 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 427 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D made on a flake blank |
| 15.24 | 299 | - | 428 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 429 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ |
| 15.24 | 183 | - | 430 | CS | BF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 322 | - | 431 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 127 | - | 432 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 284 | - | 433 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 120 | - | 434 | CS | BF | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 435 | CS | BF | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 389 | - | 436 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 382 | - | 437 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 66 | - | 438 | CS | BF | 0.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 283 | - | 439 | CS | BF | 1.6 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 15.24 | 43 | - | 440 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 441 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 375 | - | 442 | CS | BF | 4.5 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | - | 443 | CS | BF | 4.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 444 | CS | BF | 10.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 445 | CS | BF | 7.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | 12 | - | 446 | CS | BF | 9.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |


| 15.24 | 67 | - | 447 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 124 | - | 448 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 449 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 450 | CS | MS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 451 | CS | MS | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 452 | CS | EMF | 1.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 162 | - | 453 | CS | EMF | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 454 | CS | SS | 10.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 455 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 57 | - | 456 | CS | BF | 5.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 337 | - | 457 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 318 | - | 458 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | - | - | 459 | CS | SS | 14.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 15.24 | 384 | - | 460 | CS | SS | 8.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 194 | - | 461 | CS | SS | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 15.24 | 420 | - | 462 | CS | SS | 6.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 188 | - | 463 | CS | ES | 5.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 319 | - | 464 | CS | SS | 14.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | 110 | - | 465 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 114 | - | 466 | CS | BF | 1.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 462 | - | 467 | CS | BF | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 501 | - | 468 | CS | PP | 2.2 | CH | n | MA | McKean | C plus <br> plus, a question mark is next to the specimen |
| 15.24 | 38 | - | 469 | CS | PP | 4.5 | CH | n | MA | McKean | C \# |
| 15.24 | 88 | - | 470 | CS | PP | 3.5 | CH | n | MA | McKean | C plus |
| 15.24 | - | - | 471 | CS | PP | 7.9 | CH | n | LP | James Allen | MC (D) "D" |
| 15.24 | - | A | 472 | CS | PP | 2.2 | CH | n | MA | McKean | P plus |
| 15.24 | 488 | - | 473 | CS | ES | 5.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 522 | - | 474 | CS | EMF | 3.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 442 | - | 475 | CS | ES | 9.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | 9 | - | 476 | CS | SS | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 486 | - | 477 | CS | EMF | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 357 | - | 478 | CS | SS | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | N | 479 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | 354 | - | 480 | CS | SS | 15.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 15.24 | - | N | 481 | CS | SS | 2.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 38 | - | 482 | CS | PP | 1.3 | CH | n | MA | McKean | P plus |
| 15.24 | 135 | - | 483 | CS | PP | 1.6 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | - | S | 484 | CS | EMF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 398 | - | 485 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | S | 486 | CS | EMF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | na/ | C |


| 15.24 | - | - | 487 | CS | ES | 15.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | - | 488 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND possibly a graver |
| 15.24 | - | - | 489 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 469 | - | 490 | CS | MS | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.24 | - | N | 491 | CS | EMF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.24 | - | - | 492 | CS | MS | 7.5 | CH | n | n/a | n/a | P, M |
| 15.24 | - | - | 493 | CS | PP | 2.8 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | P |
| 15.24 | 324 | - | 494 | CS | PP | 3.7 | QZ | n | LP | n/a | P plus |
| 15.24 | 342 | - | 495 | CS | PP | 2.3 | CH | n | LP | n/a | P plus |
| 15.24 | 328 | - | 496 | CS | PP | 0.7 | CH | n | LP | n/a | P plus |
| 15.24 | - | - | 497 | CS | SS | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 15.24 | 386 | - | 498 | CS | ES | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus, "D" |
| 15.24 | - | - | 499 | CS | SS | 14.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | - | - | 500 | CS | PP | 11 | CH | n | LP | Alberta | C |
| 15.24 | 448 | - | 501 | CS | EMF | 3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | A | 502 | CS | EMF | 3.6 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 503 | CS | ES | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 306 | - | 504 | CS | DR | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus, refits with CMPA \#138 |
| 15.24 | 83 | - | 505 | CS | DR | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus, refits with CMPA \#137 |
| 15.24 | - | - | 506 | CS | BF | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 15.24 | 498 | - | 507 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | C |
| 15.24 | - | N | 508 | CR | NAP | 1 | O | n | EC | n/a | BO exterior is cord-marked |
| 15.24 | - | N | 509 | CR | NAP | 1.5 | O | n | EC | n/a | BO exterior is cord-marked |
| 15.24 | - | N | 510 | CR | NAP | 0.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 165 | - | 511 | CR | NAP | 3.4 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 512 | CR | NAP | 2.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 160 | - | 513 | CR | NAP | 3.4 | O | n | EC | n/a | BO exterior is cord-marked, plus |
| 15.24 | - | - | 514 | CR | NAP | 2.4 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 515 | CR | NAP | 2.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 40 | - | 516 | CR | NAP | 2.6 | O | n | EC | n/a | BO exterior is cord-marked, plus |
| 15.24 | - | - | 517 | CR | NAP | 7.1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 317 | - | 518 | CR | NAP | 1.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 180 | - | 519 | CR | NAP | 1.5 | O | n | EC | n/a | BO exterior is cord-marked, plus |
| 15.24 | 159 | - | 520 | CR | NAP | 0.8 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 132 | - | 521 | CR | NAP | 2.3 | O | n | EC | n/a | BO exterior is cord-marked, plus |
| 15.24 | 202 | - | 522 | CR | NAP | 1.9 | O | n | EC | n/a | BO exterior is cord-marked, plus |
| 15.24 | - | - | 523 | CR | NAP | 3.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 338 | - | 524 | CR | NAP | 1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 525 | CR | NAP | 2.7 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 100 | - | 526 | CR | NAP | 2.4 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 385 | - | 527 | CR | NAP | 2.9 | O | n | EC | n/a | BO exterior is cord-marked, plus |


| 15.24 | 6 | - | 528 | CR | NAP | 2.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | 59 | - | 529 | CR | NAP | 1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 530 | CR | NAP | 0.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 380 | - | 531 | CR | NAP | 1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 289 | - | 532 | CR | NAP | 1.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 533 | CR | NAP | 2.6 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | 285 | - | 534 | CR | NAP | 1.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 535 | CR | NAP | 1.1 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked exterior is eroded and difficult to identify, |
| 15.24 | 22 | - | 536 | CR | NAP | 0.8 | O | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plus |
| 15.24 | 385 | - | 537 | CR | NAP | 1.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord marked, plus exterior is eroded and difficult to identify, |
| 15.24 | 333 | - | 538 | CR | NAP | 0.8 | O | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plus |
| 15.24 | 417 | - | 539 | CR | NAP | 1.5 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 99 | - | 540 | CR | NAP | 0.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 415 | - | 541 | CR | NAP | 0.8 | O | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is eroded and difficult to identify |
| 15.24 | 80 | - | 542 | CR | NAP | 2.2 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 47 | - | 543 | CR | NAP | 1.7 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | - | - | 544 | CR | NAP | 1.3 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked |
| 15.24 | - | - | 545 | CR | NAP | 0.9 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | R exterior is cord-marked |
| 15.24 | - | - | 546 | CR | NAP | 0.6 | O | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is eroded and difficult to identify exterior is eroded and difficult to identify, |
| 15.24 | 23 | - | 547 | CR | NAP | 0.4 | O | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plus |
| 15.24 | 59 | - | 548 | CR | NAP | 2.2 | O | n | EC | $\mathrm{n} / \mathrm{a}$ | BO exterior is cord-marked, plus |
| 15.24 | 193 | - | 549 | CS | BF | 1.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | - | - | 550 | GR | GRD | 58.8 | B | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 551 | CS | PP | 2.7 | CH | n | EP | n/a | P |
| 15.24 | - | S | 552 | CS | PP | 3 | CH | n | LP | James Allen | P |
| 15.24 | 472 | - | 553 | CS | MS | 3.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.24 | - | - | 554 | CS | PP | 1.3 | CH | n | LA | Pelican Lake | C |
| 15.24 | 529 | - | 555 | CS | EMF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 119 | - | 556 | CS | BF | 0.5 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 190 | - | 557 | CS | EMF | 4.2 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.24 | 185 | - | 558 | CS | BF | 1.7 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.24 | 82 | - | 559 | CS | BF | 1.6 | OB | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.24 | 153 | - | 560 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 15.24 | 474 | - | 561 | CS | HAM | - | ND | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 562 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 3 | - | 563 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 564 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 565 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 15.24 | 287 | - | 566 | GS | MAN | - | AN | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.24 | - | - | 567 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 15.24 | - | - | 568 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 569 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 570 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 571 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 572 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 573 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | 321 | - | 574 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 575 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 383 | - | 576 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 577 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 15.24 | 403 | - | 578 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 579 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 580 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 581 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 582 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 526 | - | 583 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 465 | - | 584 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.24 | - | - | 585 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 15.24 | 476 | - | 586 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 512 | - | 587 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | 516 | - | 588 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | N | 589 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 346 | - | 590 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | 81 | - | 591 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | 436 | - | 592 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | 473 | - | 593 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 594 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | 413 | - | 595 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 15.24 | - | - | 596 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.24 | - | - | 597 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 598 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 599 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.24 | - | - | 600 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | $\begin{gathered} \hline \text { Collection } \\ \text { Zone } \\ \hline \end{gathered}$ | CMPA \# | Class | Element | Mass $(\mathrm{g})$ | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | D | 1 | CS | PP | 2.6 | CH | n | LP | James Allen | P |  |
| 48.16 | - | - | 2 | CS | PP | 2.9 | QZ | n | LP | James Allen | P |  |
| 48.16 | - | A | 3 | CS | PP | 2 | CH | n | LP | Eden | P |  |
| 48.16 | - | - | 4 | CS | PP | 1.4 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | P |  |
| 48.16 | - | C | 5 | CS | PP | 3.6 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | P |  |
| 48.16 | - | - | 6 | CS | PP | 0.7 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 7 | CS | PP | 0.7 | CH | n | MC | Plains side-notched | C |  |
| 48.16 | - | - | 8 | CS | PP | 0.4 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | A | 9 | CS | PP | 0.3 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 10 | CS | PP | 0.3 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 11 | CS | PP | 0.5 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 12 | CS | PP | 0.4 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 13 | CS | PP | 0.4 | CH | n | MC | Plains side-notched | P |  |
| 48.16 | - | - | 14 | CS | PP | 0.8 | CH | y | EC | Hogback | P, M |  |
| 48.16 | - | - | 15 | CS | PP | 0.8 | CH | n | EC | Hogback | P, M |  |
| 48.16 | - | - | 16 | CS | PP | 0.5 | CH | n | EC | Hogback | C |  |
| 48.16 | - | A | 17 | CS | PP | 0.5 | CH | n | EC | Hogback | C |  |
| 48.16 | - | - | 18 | CS | PP | 0.5 | CH | n | EC | Hogback | P |  |
| 48.16 | - | - | 19 | CS | PP | 0.6 | QZ | n | EC | Hogback | $\mathrm{P}, \mathrm{M}$ |  |
| 48.16 | - | A | 20 | CS | PP | 0.2 | CH | n | EC | Hogback | P |  |
| 48.16 | - | A | 21 | CS | PP | 0.6 | CH | n | EC | Hogback | P, M |  |
| 48.16 | - |  | 22 | CS | PP | 0.3 | CH | n | EC | Hogback | P, M |  |
| 48.16 | - | - | 23 | CS | PP | 0.4 | CH | n | EC | Hogback | P, M | blank |
| 48.16 | - | A | 24 | CS | PP | 7.8 | CH | n | EA | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.16 | - | - | 25 | CS | PP | 6 | PW | n | EA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ |  |
| 48.16 | - | A | 26 | CS | PP | 3 | CH | n | EA | $\mathrm{n} / \mathrm{a}$ | P |  |
| 48.16 | - | - | 27 | CS | PP | 1.9 | CH | n | EA | $\mathrm{n} / \mathrm{a}$ | P |  |
| 48.16 | - | - | 28 | CS | PP | 2.5 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ |  |
| 48.16 | - | - | 29 | CS | PP | 1 | CH | n | LA | Pelican Lake | P |  |
| 48.16 | - | - | 30 | CS | PP | 1.9 | CH | n | LA | Pelican Lake | C |  |
| 48.16 | - | - | 31 | CS | PP | 1.1 | CH | n | LA | Besant | C |  |
| 48.16 | - | A | 32 | CS | PP | 1.4 | CH | n | LA | Besant | MC (T) |  |
| 48.16 | - | - | 33 | CS | PP | 1.6 | PW | n | LA | Besant | C |  |
| 48.16 | - | A | 34 | CS | PP | 1.3 | CH | n | LA | Besant | C |  |
| 48.16 | - | A | 35 | CS | PP | 1.4 | CH | n | LA | Besant | C |  |
| 48.16 | - | - | 36 | CS | PP | 0.8 | CH | n | LA | Besant |  | blank |
| 48.16 | - | D | 37 | CS | PP | 1.5 | CH | n | MA | Duncan-Hanna | C |  |
| 48.16 | - | A | 38 | CS | PP | 2 | CH | n | MA | Duncan-Hanna | C |  |


| 48.16 | - | - | 39 | CS | PP | 1 | CH | n | MA | Duncan-Hanna | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | - | 40 | CS | PP | 1.2 | CH | n | MA | Duncan-Hanna | P |
| 48.16 | - | - | 41 | CS | PP | 1.7 | CH | n | MA | Duncan-Hanna | C |
| 48.16 | - | - | 42 | CS | PP | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C unnotched pp? |
| 48.16 | - | - | 43 | CS | PP | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 44 | CS | PP | 2.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| 48.16 | - | - | 45 | CS | PP | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 48.16 | - | - | 46 | CS | PP | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 47 | CS | DR | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | A | 48 | CS | DR | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | A | 49 | CS | ES | 11.6 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 50 | CS | ES | 7.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 51 | CS | ES | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 52 | CS | ES | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{MC}(\mathrm{P})$ |
| 48.16 | - | - | 53 | CS | ES | 12.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 48.16 | - | A | 54 | CS | ES | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 55 | CS | ES | 11.3 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 56 | CS | ES | 7.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 57 | CS | ES | 5.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ |
| 48.16 | - | N | 58 | CS | ES | 6.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 59 | CS | ES | 6.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 60 | CS | ES | 5.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| 48.16 | - | - | 61 | CS | ES | 4.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 62 | CS | CV | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | A | 63 | CS | MS | 2.76 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 64 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 65 | CS | ES | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| 48.16 | - | A | 66 | CS | ES | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 67 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | A | 68 | CS | ES | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 69 | CS | ES | 6.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 70 | CS | ES | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 71 | CS | ES | 2.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 72 | CS | MS | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | A | 73 | CS | ES | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 74 | CS | ES | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 75 | CS | MS | 3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 76 | CS | ES | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 77 | CS | ES | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 78 | CS | MS | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 48.16 | - | - | 79 | CS | MS | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | - | 80 | CS | ES | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 81 | CS | ES | 2.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) |
| 48.16 | - | - | 82 | CS | MS | 1.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 83 | CS | ES | 4.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 84 | CS | ES | 3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 85 | CS | MS | 3.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 86 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 87 | CS | ES | 2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 88 | CS | ES | 2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 89 | CS | MS | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 90 | CS | ES | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 91 | CS | ES | 2.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 92 | CS | ES | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 93 | CS | MS | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 94 | CS | MS | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 95 | CS | ES | 1.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 96 | CS | MS | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 97 | CS | ES | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "SE" |
| 48.16 | - | - | 98 | CS | MS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n /a | ND |
| 48.16 | - | A | 99 | CS | DR | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P |
| 48.16 | - | - | 100 | CS | MS | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 101 | CS | MS | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 102 | CS | ES | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 103 | CS | MS | 1.2 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 104 | CS | PP | 0.4 | CH | n | EC | Hogback | $\mathrm{MC}(\mathrm{T}, \mathrm{P})$ |
| 48.16 | - | - | 105 | CS | HK | 3.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 106 | CS | GRV | 2.6 | CH | n | EP | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 107 | CS | EMF | 3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | A | 108 | CS | EMF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 109 | CS | EMF | 4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | A | 110 | CS | EMF | 0.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 111 | CS | EMF | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 112 | CS | MS | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 113 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 114 | CS | EMF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 115 | CS | EMF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 116 | CS | ES | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 117 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 118 | CS | EMF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 48.16 | - | - | 119 | CS | EMF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | - | 120 | CS | BF | 0.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 121 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 122 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 123 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 124 | CS | BF | 7.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 125 | CS | BF | 5.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | A | 126 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | B | 127 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "SE" |
| 48.16 | - | - | 128 | CS | BF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 129 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 130 | CS | BF | 1.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | A | 131 | CS | BF | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 132 | CS | BF | 0.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | A | 133 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 134 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 135 | CS | BF | 5.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 136 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 137 | CS | BF | 1.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 138 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 139 | CS | BF | 1.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 140 | CS | BF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 141 | CS | BF | 2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 142 | CS | BF | 3.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 48.16 | - | - | 143 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 144 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M heavily patinated |
| 48.16 | - | - | 145 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 146 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 147 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | A | 148 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 149 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 150 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | A | 151 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 152 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 153 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 154 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 155 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 156 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 157 | CS | BF | 1.2 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) |
| 48.16 | - | A | 158 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 48.16 | - | - | 159 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | A | 160 | CS | BF | 0.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 161 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 162 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 163 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 164 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 165 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 166 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 167 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 168 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 169 | CS | BF | 0.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 170 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 171 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | A | 172 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 173 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | A | 174 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 175 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 176 | CS | BF | 1.3 | ND | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) heavily patinated |
| 48.16 | - | - | 177 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 178 | CS | BF | 1.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 179 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 180 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | A | 181 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C possible point? |
| 48.16 | - | A | 182 | CS | BF | 3.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 183 | CS | PRE | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 184 | CS | PRE | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 185 | CS | PRE | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | A | 186 | CS | PRE | 1.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 187 | CS | EMF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 188 | CS | EMF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 189 | CS | EMF | 6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 190 | CS | MS | 20.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 191 | CS | MS | 13.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 192 | CS | MS | 8.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 193 | CS | MS | 18.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 194 | CS | MS | 28.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 195 | CS | MS | 18.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 196 | CS | MS | 10.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 48.16 | - | - | 197 | CS | BF | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 198 | CS | BF | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 48.16 | - | - | 199 | CS | BF | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.16 | - | - | 200 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 201 | CS | BF | 12.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 202 | CS | BF | 6.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 203 | CS | BF | 6.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 204 | CS | BF | 4.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 205 | CS | BF | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 206 | CS | BF | 5.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 207 | CS | BF | 5.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 208 | CS | BF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 209 | CS | BF | 32.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 210 | CS | CORE | 23.1 | QZT | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 211 | CS | CORE | 13 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 212 | CS | CORE | 37.4 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 213 | CS | CORE | 19.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 214 | CS | CORE | 21.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 215 | CS | CORE | 14.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.16 | - | - | 216 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO plainware, oxidized |
| 48.16 | - | - | 217 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is completely eroded |
| 48.16 | - | - | 218 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | n | EC | $\mathrm{n} / \mathrm{a}$ | BO light cord-marking, oxidized |
| 48.16 | - | - | 219 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is completely eroded |
| 48.16 | - | - | 220 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plainware, oxidized |
| 48.16 | - | - | 221 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n | EC | $\mathrm{n} / \mathrm{a}$ | BO light cord-marking |
| 48.16 | - | - | 222 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | n | n/a | $\mathrm{n} / \mathrm{a}$ | R plainware |
| 48.16 | - | - | 223 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | n | EC | $\mathrm{n} / \mathrm{a}$ | BO cord-marked, interior is oxidized |
| 48.16 | - | - | 224 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plainware |
| 48.16 | - | - | 225 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO plainware |
| 48.16 | - | - | 226 | CR | NAP | 0.7 | n/a | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plainware, oxidized |
| 48.16 | - | - | 227 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | $\mathrm{n} / \mathrm{a}$ | BO light cord-marking |
| 48.16 | - | - | 228 | CR | NAP | 0.6 | n/a | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plainware, oxidized |
| 48.16 | - | - | 229 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | n | EC | $\mathrm{n} / \mathrm{a}$ | BO eroded cord-marking, exterior is oxidized |
| 48.16 | - | - | 230 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO plainware |
| 48.16 | - | - | 231 | CR | NAP | 1.5 | n/a | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO plainware |
| 48.16 | - | - | 232 | CR | NAP | 0.9 | n/a | n | n/a | $\mathrm{n} / \mathrm{a}$ | BO plainware, oxidized |
| 48.16 | - | - | 233 | CS | BF | 4.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 234 | CS | BF | 3.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 48.16 | - | - | 235 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 48.16 | - | - | 236 | GS | MAN | 420 | AN | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 48.16 | - | - | 237 | GS | MET | 80 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 48.16 | - | - | 238 | GS | MAN | 40 | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |


| 48.16 | - | - | 239 | GS | MET | 20 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- |
| 48.16 | - | - | 240 | GS | MAN | 280 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.16 | - | - | 241 | GS | MAN | 20 | SA | n | $\mathrm{n} / \mathrm{a}$ | L |  |
| 48.16 | - | - | 242 | CS | HAM | 100 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n | n |
| 48.16 | - | - | 243 | GS | MET | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.16 | - | - | 244 | GS | MAN | 120 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 48.16 | - | - | 245 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | L |  |
|  |  |  |  |  |  |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |  |


| Site | $\begin{aligned} & \text { Specimen } \end{aligned}$ \# | Collection Zone | CMPA \# | Class | Element | Mass <br> (g) | Raw Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.15 | - | - | 1 | CS | BF | 0.7 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 48.15 | - | - | 2 | CS | BF | 1.1 | BA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | M |  |
| 48.15 | - | - | 3 | CS | BF | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P possible PP base |  |
| 48.15 | - | A | 4 | CS | BF | 3.3 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 48.15 | - | - | 5 | CS | BF | 2.8 | QZ | n/a | n/a | n/a | D |  |
| 48.15 | - | S | 6 | CS | BF | 23.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 48.15 | - | - | 7 | CS | DR | 2.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |  |
| 48.15 | - | - | 8 | CS | CF | 1.8 | CH | $\mathrm{n} / \mathrm{a}$ | MP | Folsom | P, M |  |
| 48.15 | - | - | 9 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 48.15 | - | - | 10 | CS | CV | 5.4 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | C |  |
| 48.15 | - | - | 11 | CS | ES | 3.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |  |
| 48.15 | - | - | 12 | CS | ES | 4.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | C |  |
| 48.15 | - | - | 13 | CS | ES | 10.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.15 | - | - | 14 | CS | ES | 1 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |  |
| 48.15 | - | - | 15 | CS | ES | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C spurred |  |
| 48.15 | - | - | 16 | CS | ES | 6.4 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |  |
| 48.15 | - | - | 17 | CS | CV | 15.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.15 | - | - | 18 | CS | ES | 2.6 | CY | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |  |
| 48.15 | - | - | 19 | CS | CV | 6.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.15 | - | - | 20 | CS | MS | 2.8 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |  |
| 48.15 | - | - | 21 | CS | ES | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.15 | - | - | 22 | CS | ES | 4.7 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | MC (L) |  |
| 48.15 | - | - | 23 | CS | ES | 1.9 | CY | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 48.15 | - | - | 24 | CS | ES | 1.9 | CH | n/a | n/a | n/a | C |  |
| 48.15 | - | - | 25 | CS | ES | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 48.15 | - | - | 26 | CS | ES | 2.8 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |  |
| 48.15 | - | - | 27 | CS | ES | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 48.15 | - | - | 28 | CS | ES | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | D |  |
| 48.15 | - | - | 29 | CS | MS | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 48.15 | - | - | 30 | CS | MS | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | ND |  |
| 48.15 | - | - | 31 | CS | SS | 4.8 | CH | n/a | n/a | n/a | M |  |
| 48.15 | - | - | 32 | CS | SS | 2.6 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | M |  |
| 48.15 | - | - | 33 | CS | SS | 12.3 | QZ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 48.15 | - | - | 34 | CS | MS | 2.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 48.15 | - | - | 35 | CS | SS | 3.1 | QZ | n/a | n/a | n/a | M |  |
| 48.15 | - | - | 36 | CS | GRV | 3.5 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D, M |  |
| 48.15 | - | - | 37 | CS | EMF | 2 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | ND |  |


| 48.15 | - | - | 38 | CS | EMF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.15 | - | - | 39 | CS | EMF | 0.8 | PW | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.15 | - | - | 40 | CS | PP | 2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | P |
| 48.15 | - | - | 41 | CS | PP | 3.6 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | C |
| 48.15 | - | - | 42 | CS | PP | 2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | P, M |
| 48.15 | - | - | 43 | CS | PP | 5.3 | BA | $\mathrm{n} / \mathrm{a}$ | MA | Duncan-Hanna | C |
| 48.15 | - | - | 44 | CS | HK | 8.2 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | P, M |
| 48.15 | - | - | 45 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Corner-notched | C |
| 48.15 | - | - | 46 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Corner-notched | C |
| 48.15 | - | - | 47 | CS | PP | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Side-notched | P |
| 48.15 | - | - | 48 | CR | NAP | 2.1 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO |
| 48.15 | - | - | 49 | GS | MET | 100 | SA | $\mathrm{n} / \mathrm{a}$ | n /a | $\mathrm{n} / \mathrm{a}$ | L |
| 48.15 | - | - | 50 | GS | MAN | 300 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.15 | - | - | 51 | GS | MISC. | 40 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 48.15 | - | - | 52 | GS | MAN | 380 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | C |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | $\begin{gathered} \text { Temporal } \\ \text { Age } \\ \hline \end{gathered}$ | Type |  | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.7 | 37 | - | 1 | CS | CORE | 22.1 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 28 | - | 2 | CS | CORE | 25.9 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 36 | - | 3 | CS | ES | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.7 | 33 | - | 4 | CS | ES | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 30 | - | 5 | CS | ES | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 26 | - | 6 | CS | ES | 4.1 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |  |
| 15.7 | 31 | - | 7 | CS | ES | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 24 | - | 8 | CS | ES | 14.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ plus |  |
| 15.7 | - | - | 9 | CS | ES | 12 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.7 | 23 | - | 10 | CS | ES | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.7 | - | - | 11 | CS | ES | 9.6 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.7 | 25 | - | 12 | CS | ES | 14.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |  |
| 15.7 | 1 | - | 13 | CS | ES | 13.6 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 22 | - | 14 | CS | ES | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 14 | - | 15 | CS | ES | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 38 | - | 16 | CS | ES | 7.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 52 | - | 17 | CS | ES | 5.5 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.7 | 16 | - | 18 | CS | MS | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus, "D" |  |
| 15.7 | - | - | 19 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.7 | 39 | - | 20 | CS | MS | 4.2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.7 | - | - | 21 | CS | MS | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 15.7 | 11 | - | 22 | CS | EMF | 3.7 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | MC (L) plus |  |
| 15.7 | - | - | 23 | CS | MS | 4.4 | PW | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P "D" |  |
| 15.7 | 8 | - | 24 | CS | MS | 8.7 | PW | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |  |
| 15.7 | 49 | - | 25 | CS | MS | 4.7 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 15.7 | - | - | 26 | CS | EMF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M |  |
| 15.7 | - | - | 27 | CS | EMF | 1.2 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M |  |
| 15.7 | 9 | - | 28 | CS | EMF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 15.7 | 13 | - | 29 | CS | EMF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 15.7 | - | - | 30 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.7 | - | - | 31 | CS | BF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.7 | 51 | - | 32 | CS | BF | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.7 | 48 | - | 33 | CS | BF | 2.6 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.7 | 29 | - | 34 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 15.7 | - | - | 35 | CS | BF | 1.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.7 | 59 | - | 36 | CS | BF | 15.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 15.7 | 43 | - | 37 | CS | BF | 10.1 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |


| 15.7 | 2 | - | 38 | CS | BF | 9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.7 | 20 | - | 39 | CS | BF | 2.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| 15.7 | 41 | - | 40 | CS | BF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.7 | - | - | 41 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D |
| 15.7 | 44 | - | 42 | CS | BF | 16.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.7 | - | - | 43 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.7 | 17 | - | 44 | CS | BF | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |
| 15.7 | - | - | 45 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.7 | 7 | - | 46 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.7 | 6 | - | 47 | CS | BF | 4.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.7 | 40 | - | 48 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.7 | - | - | 49 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.7 | - | - | 50 | CS | BF | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.7 | - | - | 51 | CS | BF | 3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.7 | - | - | 52 | CS | BF | 2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.7 | 56 | - | 53 | CS | BF | 1.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.7 | 32 | - | 54 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.7 | 57 | - | 55 | CS | BF | 1.7 | CH | n | n/a | n/a | M plus |
| 15.7 | - | - | 56 | CS | PP | 1 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P |
| 15.7 | 21 | - | 57 | CS | PP | 2.1 | CH | n | EA | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 15.7 | 18 | - | 58 | CS | PP | 2.6 | CH | n | LA | n/a | $\mathrm{MC}(\mathrm{T})$ plus |
| 15.7 | 19 | - | 59 | CS | PP | 2.2 | CH | n | LA | Pelican Lake | M plus, "D" |
| 15.7 | 42 | - | 60 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | C plus |
| 15.7 | - | - | 61 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | C |
| 15.7 | 10 | - | 62 | CS | PP | 0.7 | CH | n | LA | Pelican Lake | P plus, "D" |
| 15.7 | 12 | - | 63 | CS | PP | 3.9 | CH | n | LA | Pelican Lake | C plus |
| 15.7 | 15 | - | 64 | CS | PP | 4.4 | CH | n | LA | Pelican Lake | MC (T) plus |
| 15.7 | - | - | 65 | CS | PP | 3.9 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | C |
| 15.7 | 9 | - | 66 | CS | PP | 4.4 | CH | n | LA | Pelican Lake | M, P plus |
| 15.7 | - | - | 67 | CS | PP | 1.2 | CH | n | MC | Avonlea | MC (T) |
| 15.7 | - | - | 68 | CS | PP | 1.1 | CH | n | MC | Side-notched | MC (T) |
| 15.7 | - | - | 69 | CS | PP | 1.2 | CH | n | MC | Side-notched | MC (T) |
| 15.7 | - | - | 70 | CS | PP | 0.7 | CH | n | MC | Unnotched | MC (T) |
| 15.7 | 32 | - | 71 | CS | PP | 0.7 | CH | n | EC | Corner-notched | M, P plus |
| 15.7 | - | - | 72 | CS | PP | 0.8 | CH | n | EC | Corner-notched | MC (L) plus |
| 15.7 | - | - | 73 | GS | MAN | 40 | SA | n | n/a | n /a | L |
| 15.7 | - | - | 74 | GS | GRD | 8 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.7 | 46 | - | 75 | GS | MAN | 340 | SA | n | n/a | n/a | L |
| 15.7 | 47 | - | 76 | GS | MAN | 220 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |

$\begin{array}{lllllll}15.7 & 5 & - & 77 & \text { GS } & \text { GRD } & 160\end{array}$
B n n/a
n/a C

| Site | Specimen \# | Collection <br> Zone | CMPA \# | Class |  | Mass <br> (g) | Raw Material |  | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.59 | 61 | - | 1 | CS | ES | 6.9 | CH | n | n/a | n/a | D plus |  |
| 58.59 | 66 | - | 2 | CS | ES | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |  |
| 58.59 | 64 | - | 3 | CS | ES | 9.9 | PW | y | $\mathrm{n} / \mathrm{a}$ | n/a | D, M plus |  |
| 58.59 | 67 | - | 4 | CS | SS | 5.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | MC (P) plus |  |
| 58.59 | 44 | - | 5 | CS | CV | 41.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |  |
| 58.59 | 91 | - | 6 | CS | CV | 26.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus, "D" |  |
| 58.59 | 37 | - | 7 | CS | ES | 14.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |  |
| 58.59 | 90 | - | 8 | CS | ES | 11.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus, "D" |  |
| 58.59 | 41 | - | 9 | CS | EMF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus, "D" |  |
| 58.59 | 17 | - | 10 | CS | EMF | 4.9 | CH | n | n/a | n/a | M plus |  |
| 58.59 | 11 | - | 11 | CS | EMF | 3.4 | B | y | n/a | n/a | P plus |  |
| 58.59 | 27 | - | 12 | CS | EMF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |  |
| 58.59 | 33 | C | 13 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |  |
| 58.59 | 42 | - | 14 | CS | EMF | 1.2 | CH | n | n/a | n/a | ND plus |  |
| 58.59 | 63 | - | 15 | CS | ES | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |  |
| 58.59 | 59 | - | 16 | CS | ES | 21.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |  |
| 58.59 | 54 | - | 17 | CS | ES | 18.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |  |
| 58.59 | 20 | - | 18 | CS | MS | 5.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |  |
| 58.59 | 15 | - | 19 | CS | ES | 15.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |  |
| 58.59 | 78 | - | 20 | CS | ES | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus, "D" |  |
| 58.59 | 21 | - | 21 | CS | MS | 9.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P, M plus |  |
| 58.59 | 19 | - | 22 | CS | MS | 22.4 | CH | n | n/a | n/a | P, M plus |  |
| 58.59 | 39 | - | 23 | CS | SS | 12.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (P) plus |  |
| 58.59 | 57 | - | 24 | CS | MS | 4.1 | CH | n | n/a | n/a | M plus |  |
| 58.59 | 70 | - | 25 | CS | MS | 10.7 | CH | n | n/a | n/a | C plus |  |
| 58.59 | 98 | - | 26 | CS | EMF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |  |
| 58.59 | 93 | - | 27 | CS | EMF | 7.6 | CH | n | n/a | n/a | C plus, "D" |  |
| 58.59 | 69 | - | 28 | CS | MS | 4.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M plus, "D" |  |
| 58.59 | 68 | - | 29 | CS | MS | 9.6 | CH | n | n/a | n/a | M plus |  |
| 58.59 | 83 | - | 30 | CS | MS | 4 | CH | n | n/a | n/a | M plus |  |
| 58.59 | 84 | - | 31 | CS | HK | 12.8 | CH | n | n/a | n/a | M plus |  |
| 58.59 | - | - | 32 | CS | HK | 13 | CH | n | n/a | n/a | M |  |
| 58.59 | 35 | C | 33 | CS | HK | 12 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |  |
| 58.59 | 5 | - | 34 | CS | BF | 3.2 | CH | n | n/a | n/a | D plus |  |
| 58.59 | 25 | - | 35 | CS | BF | 0.8 | QZ | n | n/a | n/a | D plus |  |
| 58.59 | 11 | - | 36 | CS | BF | 3.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 58.59 | 13 | - | 37 | CS | BF | 2.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |  |


| 58.59 | 38 | - | 38 | CS | BF | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.59 | 74 | - | 39 | CS | BF | 14.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 58.59 | 69 | - | 40 | CS | BF | 15.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 73 | - | 41 | CS | BF | 25.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 65 | - | 42 | CS | BF | 15.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 58.59 | 47 | - | 43 | CS | DR | 3.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 58.59 | 88 | - | 44 | CS | BF | 9.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |
| 58.59 | 51 | - | 45 | CS | BF | 7.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 1 | B | 46 | CS | BF | 7.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) plus |
| 58.59 | 43 | - | 47 | CS | BF | 2.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus, "D" |
| 58.59 | 89 | - | 48 | CS | BF | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus, "D" |
| 58.59 | - | AE | 49 | CS | BF | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.59 | 46 | - | 50 | CS | BF | 7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus, "D" |
| 58.59 | 22 | - | 51 | CS | PRE | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 58.59 | 18 | - | 52 | CS | BF | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 81 | - | 53 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 58.59 | 16 | - | 54 | CS | BF | 5.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 96 | - | 55 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 58.59 | 4 | - | 56 | CS | BF | 5.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 58.59 | 82 | - | 57 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 40 | - | 58 | CS | BF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ plus, "D" |
| 58.59 | 62 | - | 59 | CS | PP | 1 | CY | n | MA | Duncan-Hanna | P plus, "D" |
| 58.59 | 56 | - | 60 | CS | PP | 2.6 | CH | n | MA | Duncan-Hanna | C plus |
| 58.59 | 50 | - | 61 | CS | PP | 4.7 | CY | n | LA | Pelican Lake | C plus |
| 58.59 | 30 | - | 62 | CS | PP | 2 | CH | n | LA | Pelican Lake | P plus |
| 58.59 | 87 | - | 63 | CS | PP | 4 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |
| 58.59 | 1 | - | 64 | CS | PP | 2.2 | CH | n | LA | Pelican Lake | M plus |
| 58.59 | 53 | - | 65 | CS | PP | 1.5 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 49 | - | 66 | CS | PP | 6.5 | CH | n | LA | Pelican Lake | MC (T) plus |
| 58.59 | 29 | - | 67 | CS | PP | 4.9 | CH | n | LA | Pelican Lake | C plus, two refitting pieces |
| 58.59 | 36 | C | 68 | CS | PP | 0.8 | CH | n | MC | Side-notched | C plus |
| 58.59 | 2 | - | 69 | CS | PP | 1.1 | CH | n | MC | Side-notched | C plus |
| 58.59 | 95 | - | 70 | CS | PP | 1 | CH | n | MC | Avonlea | P plus |
| 58.59 | 28 | - | 71 | CS | PP | 1.2 | CH | n | EC | Corner-notched | D, M plus |
| 58.59 | 58 | - | 72 | CS | PP | 1 | CH | n | MC | Side-notched | C plus |
| 58.59 | 60 | - | 73 | CS | PP | 1.6 | CH | n | EC | Corner-notched | MC (L) plus, "D" |
| 58.59 | 92 | - | 74 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 58.59 | 32 | - | 75 | GS | MAN | 140 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.59 | 85 | - | 76 | GS | MAN | 160 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 58.59 | 75 | - | 77 | GS | MAN | 400 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| 58.59 | 14 | - | 78 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | L |
|  | 14 |  |  |  | L |  |  |  |  |  |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass <br> (g) | Raw <br> Material | Cortex | $\begin{gathered} \text { Temporal } \\ \text { Age } \\ \hline \end{gathered}$ | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 2 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 3 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 4 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 5 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 6 | CR | NAP | 3.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 7 | CR | NAP | 3.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 8 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 9 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 10 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 11 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 12 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 13 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 14 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 15 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | 28 | A | 16 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO plus |
| 38.428 | - | A | 17 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 18 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 19 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 20 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 21 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 22 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 23 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 24 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 25 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 26 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 27 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 28 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 29 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 30 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 31 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 32 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 33 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 34 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 35 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 36 | CR | NAP | 1.3 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 37 | CS | PP | 2.7 | CH | $\mathrm{n} / \mathrm{a}$ | LP | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 38 | CS | PP | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | LP | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | C | 39 | CS | HK | 2.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 38.428 | 88 | - | 40 | CS | HK | 6.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |  | D, M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 41 | CS | HK | 10.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | A | 42 | CS | BF | 3.1 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D possible paleo base |
| 38.428 | 105 | - | 43 | CS | PP | 3.2 | QZ | $\mathrm{n} / \mathrm{a}$ | EA | Mount Albion | D, M plus |
| 38.428 | - | AS | 44 | CS | PP | 5.5 | CH | $\mathrm{n} / \mathrm{a}$ | EA | Mount Albion | D, M |
| 38.428 | - | A | 45 | CS | PP | 3.7 | QZ | $\mathrm{n} / \mathrm{a}$ | EA | Mount Albion | D, M |
| 38.428 | - | A | 46 | CS | PP | 1.9 | QZ | $\mathrm{n} / \mathrm{a}$ | MA | Duncan-Hanna | D |
| 38.428 | - | A | 47 | CS | PP | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | MA | Duncan-Hanna | D |
| 38.428 | - | A | 48 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | MA | Duncan-Hanna | D |
| 38.428 | - | A | 49 | CS | PP | 3.5 | QZ | $\mathrm{n} / \mathrm{a}$ | MA | Duncan-Hanna | MC (T) |
| 38.428 | - | A | 50 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | MA | McKean | D |
| 38.428 | - | AS | 51 | CS | PP | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | MA | McKean | D |
| 38.428 | 169 | - | 52 | CS | PP | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | MA | McKean | MC (L) plus |
| 38.428 | - | AS | 53 | CS | PP | 3.4 | QZ | $\mathrm{n} / \mathrm{a}$ | MA | McKean | C |
| 38.428 | - | A | 54 | CS | PP | 3.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | D | 55 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | D "AN" |
| 38.428 | - | - | 56 | CS | PP | 2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Besant | C "AN" |
| 38.428 | - | B | 57 | CS | PP | 1.9 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | A | 58 | CS | PP | 3.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 59 | CS | PP | 4.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 60 | CS | PP | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | - | A | 61 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | - | B | 62 | CS | PP | 1.6 | PW | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M |
| 38.428 | - | D | 63 | CS | PP | 0.8 | CY | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D |
| 38.428 | - | A | 64 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C |
| 38.428 | - | A | 65 | CS | PP | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | 121 | - | 66 | CS | PP | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C plus |
| 38.428 | - | B | 67 | CS | PP | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D |
| 38.428 | - | B | 68 | CS | PP | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C |
| 38.428 | - | AS | 69 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | - | A | 70 | CS | PP | 3 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M |
| 38.428 | - | A | 71 | CS | PP | 2.6 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | - | B | 72 | CS | PP | 3.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C |
| 38.428 | - | - | 73 | CS | PP | 5.1 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | 31 | - | 74 | CS | PP | 7.5 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C plus |
| 38.428 | - | A | 75 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C |
| 38.428 | - | A | 76 | CS | PP | 2.1 | QZ | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M |
| 38.428 | - | B | 77 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | 9 | - | 78 | CS | PP | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M plus |
| 38.428 | - | D | 79 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D "AS" |
| 38.428 | - | A | 80 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) made a flake blank |


| 38.428 | - | AN | 81 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 82 | CS | PP | 1.8 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M |
| 38.428 | - | B | 83 | CS | PP | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M "D" |
| 38.428 | - | A | 84 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | C |
| 38.428 | - | A | 85 | CS | PP | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | $\mathrm{MC}(\mathrm{T}, \mathrm{L})$ |
| 38.428 | - | A | 86 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | MC (T) |
| 38.428 | - | A | 87 | CS | PP | 2.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | D, M "D", "N" |
| 38.428 | - | AS | 88 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | MC flake blank |
| 38.428 | 81 | D | 89 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | MC (L) plus |
| 38.428 | - | AS | 90 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AS | 91 | CS | PP | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C flake blank |
| 38.428 | - | A | 92 | CS | PP | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C flake blank |
| 38.428 | - | A | 93 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (L) |
| 38.428 | - | A | 94 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (L) |
| 38.428 | - | A | 95 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) flake blank |
| 38.428 | - | A | 96 | CS | PP | 0.9 | QZ | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) |
| 38.428 | 90 | A | 97 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) plus |
| 38.428 | - | A | 98 | CS | PP | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (L) |
| 38.428 | - | A | 99 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | C flake blank |
| 38.428 | - | A | 100 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | $\mathrm{MC}(\mathrm{L}, \mathrm{T})$ |
| 38.428 | - | A | 101 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | C |
| 38.428 | - | - | 102 | CS | PP | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | C |
| 38.428 | 115 | - | 103 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M plus |
| 38.428 | - | B | 104 | CS | PP | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | $\mathrm{MC}(\mathrm{D}, \mathrm{T})$ |
| 38.428 | - | AN | 105 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | C |
| 38.428 | - | BM | 106 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) |
| 38.428 | - | A | 107 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) |
| 38.428 | 70 | - | 108 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T) plus |
| 38.428 | - | A | 109 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (L) |
| 38.428 | 124 | - | 110 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (D) plus |
| 38.428 | - | A | 111 | CS | PP | 0.5 | QZ | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M |
| 38.428 | - | A | 112 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | A | 113 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (D) flake blank |
| 38.428 | - | BE | 114 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (M) |
| 38.428 | - | A | 115 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M "D" |
| 38.428 | - | A | 116 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (T, M) slightly serrated |
| 38.428 | - | AS | 117 | CS | PP | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (D) |
| 38.428 | - | A | 118 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | C |
| 38.428 | - | B | 119 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | D, M "D" |
| 38.428 | - | A | 120 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | MC (M) |
| 38.428 | - | B | 121 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | $\mathrm{MC}(\mathrm{T}, \mathrm{M})$ |


| 38.428 | - | A | 122 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | T, M "D" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 123 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | T, M |
| 38.428 | - | AS | 124 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | M |
| 38.428 | - | B | 125 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | EC | Hogback | M |
| 38.428 | 137 | - | 126 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | MC (D) plus |
| 38.428 | - | B | 127 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | 86 | - | 128 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M plus |
| 38.428 | - | A | 129 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | B | 130 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.428 | - | A | 131 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 132 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 133 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M |
| 38.428 | - | B | 134 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | MC (D) flake blank |
| 38.428 | - | A | 135 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M |
| 38.428 | - | A | 136 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 137 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 138 | CS | PP | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 139 | CS | PP | 1 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | MC (T) "D" |
| 38.428 | - | A | 140 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | MC (T) |
| 38.428 | - | A | 141 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | D, M |
| 38.428 | - | B | 142 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| 38.428 | - | B | 143 | CS | PP | 1 | OB | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 144 | CS | PP | 1 | QZ | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | $\mathrm{MC}(\mathrm{T}, \mathrm{D})$ |
| 38.428 | - | A | 145 | CS | PP | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | D |
| 38.428 | - | A | 146 | CS | PP | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | C |
| 38.428 | - | A | 147 | CS | PP | 0.5 | QZ | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | D |
| 38.428 | - | A | 148 | CS | PP | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | C |
| 38.428 | - | A | 149 | CS | PP | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | C |
| 38.428 | - | A | 150 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | C |
| 38.428 | - | A | 151 | CS | PP | 1.1 | PW | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n /a | M |
| 38.428 | - | A | 152 | CS | PP | 1.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | T, M |
| 38.428 | - | A | 153 | CS | BF | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | M |
| 38.428 | - | B | 154 | CS | PP | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | M |
| 38.428 | - | B | 155 | CS | PP | 2.7 | CH | $\mathrm{n} / \mathrm{a}$ | EA | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.428 | - | A | 156 | CS | PP | 3.8 | CH | $\mathrm{n} / \mathrm{a}$ | A | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.428 | - | B | 157 | CS | PP | 3.3 | CH | $\mathrm{n} / \mathrm{a}$ | EA | n/a | D, M |
| 38.428 | - | B | 158 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | EC | n/a | P, M |
| 38.428 | - | A | 159 | CS | PP | 3.6 | CH | $\mathrm{n} / \mathrm{a}$ | A | n/a | M |
| 38.428 | - | A | 160 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 161 | CS | PP | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Plains side-notched | D, M |
| 38.428 | 11 | - | 162 | CS | PP | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | A | $\mathrm{n} / \mathrm{a}$ | D |


| 38.428 | - | B | 163 | CS | PP | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 164 | CS | PP | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 165 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 166 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 167 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 168 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 169 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R |
| 38.428 | - | A | 170 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 171 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 172 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 173 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 174 | CR | NAP | 3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 175 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 176 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 177 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 178 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 179 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 180 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 181 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 182 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 183 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 184 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 185 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 186 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 187 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 188 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 189 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 190 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 191 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 192 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 193 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 194 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 195 | CR | NAP | 3.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 196 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 197 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 198 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 199 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 200 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 201 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 202 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 203 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |


| 38.428 | - | A | 204 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 205 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 206 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 207 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 208 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 209 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 210 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 211 | CR | NAP | 3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 212 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 213 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 214 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 215 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 216 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 217 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 218 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 219 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 220 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 221 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 222 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 223 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 224 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 225 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 226 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 227 | CR | NAP | 2.5 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 228 | CS | CV | 11.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 229 | CS | ES | 12.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) |
| 38.428 | - | AN | 230 | CS | ES | 11 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AN | 231 | CS | ES | 4.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | - | 232 | CS | ES | 4.4 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 233 | CS | ES | 11.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 234 | CS | ES | 10.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 235 | CS | CV | 10.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 236 | CS | CV | 13 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AN | 237 | CS | ES | 8.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 238 | CS | ES | 22.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 77 | - | 239 | CS | ES | 11.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 240 | CS | ES | 5.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 241 | CS | ES | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 242 | CS | ES | 4.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 243 | CS | ES | 6.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 244 | CS | MS | 7.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 38.428 | - | A | 245 | CS | ES | 11.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | AN | 246 | CS | CV | 8.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AS | 247 | CS | SS | 9.8 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | AN | 248 | CS | ES | 5.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 249 | CS | SS | 7.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 250 | CS | ES | 4.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 251 | CS | ES | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 252 | CS | ES | 3.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 253 | CS | ES | 8.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 254 | CS | MS | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 255 | CS | CV | 5 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 131 | - | 256 | CS | ES | 10.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.428 | - | A | 257 | CS | ES | 4.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 89 | - | 258 | CS | ES | 6.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (M) plus |
| 38.428 | - | AN | 259 | CS | MS | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 84 | - | 260 | CS | CV | 7 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.428 | - | A | 261 | CS | EMF | 7.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 262 | CS | ES | 5.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) "D" |
| 38.428 | - | A | 263 | CS | EMF | 4.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 264 | CS | ES | 4 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | - | 265 | CS | MS | 8.3 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.428 | - | A | 266 | CS | EMF | 2.8 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 267 | CS | ES | 5 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 128 | - | 268 | CS | ES | 3.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, spurred |
| 38.428 | - | A | 269 | CS | ES | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | BN | 270 | CS | ES | 5.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | BE | 271 | CS | EMF | 2.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 127 | - | 272 | CS | EMF | 8.2 | QZ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.428 | - | A | 273 | CS | SS | 3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 274 | CS | ES | 4.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 275 | CS | ES | 9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 276 | CS | EMF | 7.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 277 | CS | ES | 3.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 278 | CS | EMF | 3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 279 | CS | EMF | 2.9 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 280 | CS | MS | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 281 | CS | SS | 4.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 282 | CS | MS | 38 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AN | 283 | CS | MS | 5.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 284 | CS | SS | 10.9 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | BS | 285 | CS | EMF | 2.6 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 38.428 | - | B | 286 | CS | ES | 2.3 | PW | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 287 | CS | EMF | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 288 | CS | MS | 4.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M, P |
| 38.428 | - | A | 289 | CS | EMF | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 290 | CS | SS | 4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 291 | CS | EMF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 292 | CS | MS | 6.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 293 | CS | MS | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | BE | 294 | CS | EMF | 2.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | C | 295 | CS | ES | 3.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 296 | CS | EMF | 3.5 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | C | 297 | CS | MS | 4.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 298 | CS | MS | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 299 | CS | EMF | 3.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | B | 300 | CS | EMF | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 87 | - | 301 | CS | SS | 11.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | 78 | - | 302 | CS | SS | 13.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.428 | - | A | 303 | CS | EMF | 10.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 304 | CS | ES | 9.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AN | 305 | CS | SPV | 10 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 306 | CS | MS | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 307 | CS | EMF | 1.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 308 | CS | ES | 4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P recycled into a spokeshave? |
| 38.428 | 104 | - | 309 | CS | EMF | 5.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus, possible spokeshave |
| 38.428 | - | A | 310 | CS | MS | 4.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 311 | CS | EMF | 7.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | C | 312 | CS | EMF | 11.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | AS | 313 | CS | EMF | 14.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | 130 | - | 314 | CS | EMF | 10.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | - | - | 315 | CS | EMF | 16.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "D" |
| 38.428 | 135 | - | 316 | CS | EMF | 3.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.428 | - | A | 317 | CS | MS | 2.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 318 | CS | SS | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M "D" |
| 38.428 | - | B | 319 | GS | MAN | 240 | B | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | AS | 319 | CS | MS | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 320 | CS | MS | 5.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 321 | CS | EMF | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | B | 322 | CS | ES | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 323 | CS | EMF | 4.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | B | 324 | CS | EMF | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 325 | CS | EMF | 3.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 38.428 | - | A | 326 | CS | MS | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | 107 | - | 327 | CS | EMF | 4.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.428 | - | B | 328 | CS | MS | 1.6 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 329 | CS | EMF | 1 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | AS | 330 | CS | EMF | 1.4 | CH | n/a | n/a | n/a | P "D" |
| 38.428 | 129 | - | 331 | CS | EMF | 3.7 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | P plus |
| 38.428 | - | A | 332 | CS | EMF | 2.3 | CH | n/a | n/a | n/a | M |
| 38.428 | - | B | 333 | CS | EMF | 2.3 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | - | 334 | CS | EMF | 0.5 | CH | n/a | n/a | n/a | ND |
| 38.428 | - | A | 335 | CS | EMF | 1.5 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 336 | CS | EMF | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | ND |
| 38.428 | - | A | 337 | CS | EMF | 0.9 | CH | n/a | n/a | n/a | ND |
| 38.428 | - | A | 338 | CS | EMF | 1.9 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | ND |
| 38.428 | - | A | 339 | CS | PRE | 2 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | C made on a flake blank, |
| 38.428 | - | A | 340 | CS | PRE | 1.7 | CH | n/a | n/a | n/a | C 2 refitting pieces, made on a flake blank |
| 38.428 | - | A | 341 | CS | PRE | 1 | CH | n/a | n/a | n/a | C |
| 38.428 | - | A | 342 | CS | PRE | 2 | CH | n/a | n/a | n/a | C |
| 38.428 | - | A | 343 | CS | PRE | 2.3 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | C made on a flake blank, 2 refitting pieces |
| 38.428 | - | A | 344 | CS | PRE | 4.9 | CH | n/a | n/a | n/a | C made on a flake blank |
| 38.428 | 74 | - | 345 | CS | PRE | 2.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.428 | - | B | 346 | CS | PRE | 1.1 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| 38.428 | - | A | 347 | CS | PRE | 1.9 | CH | n/a | n/a | n/a | C |
| 38.428 | - | AN | 348 | CS | PRE | 1.3 | CH | n/a | n/a | n/a | C |
| 38.428 | - | C | 349 | CS | BF | 2.2 | CH | n/a | n/a | n/a | C made on a flake blank, 2 refitting pieces |
| 38.428 | - | A | 350 | CS | BF | 2.2 | CH | n/a | n/a | n/a | C |
| 38.428 | - | B | 351 | CS | BF | 0.5 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | D |
| 38.428 | - | A | 352 | CS | BF | 2.1 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | P |
| 38.428 | - | A | 353 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 354 | CS | BF | 0.3 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | ND |
| 38.428 | - | B | 355 | CS | BF | 0.7 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | D |
| 38.428 | - | B | 356 | CS | BF | 1.1 | CH | n/a | n/a | n/a | M |
| 38.428 | - | B | 357 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 358 | CS | PP | 2.2 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Unnotched | MC (T) |
| 38.428 | - | A | 359 | CS | BF | 0.1 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.428 | - | C | 360 | CS | BF | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 361 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 362 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.428 | - | A | 363 | CS | BF | 0.3 | CH | n/a | n/a | n/a | D |
| 38.428 | - | A | 364 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | M |
| 38.428 | - | B | 365 | CS | BF | 1.1 | CH | n/a | n/a | n/a | M |
| 38.428 | - | A | 366 | CS | BF | 0.3 | CH | n/a | n/a | n/a | M |


| 38.428 | - | B | 367 | CS | BF | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | AN | 368 | CS | BF | 0.5 | PW | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 369 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 370 | CS | BF | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 371 | CS | BF | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 372 | CS | BF | 1.4 | PW | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 373 | CS | BF | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 374 | CS | BF | 0.08 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | A | 375 | CS | BF | 3.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C 2 refitting pieces |
| 38.428 | - | - | 376 | CS | BF | 1.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 377 | CS | BF | 3.4 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 378 | CS | BF | 1.3 | B | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 379 | CS | BF | 1.6 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 380 | CS | BF | 0.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 381 | CS | BF | 2.8 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 382 | CS | BF | 2.6 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.428 | - | A | 383 | CS | BF | 2.4 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.248 | - | B | 384 | CS | BF | 3.4 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 385 | CS | BF | 2.4 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 386 | CS | PRE | 1.3 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 387 | CS | BF | 1.8 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 388 | CS | BF | 0.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 389 | CS | BF | 2.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 390 | CS | PP | 2.8 | CY | $\mathrm{n} / \mathrm{a}$ | MC | Unnotched | MC (M) |
| 38.428 | - | A | 391 | CS | PRE | 2.1 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) "D" |
| 38.428 | - | A | 392 | CS | BF | 1.5 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | - | B | 393 | CS | BF | 1 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | P |
| 38.428 | - | A | 394 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.428 | - | B | 395 | CS | BF | 1.2 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 396 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 397 | CS | BF | 1.8 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 398 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AS | 399 | CS | BF | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 400 | CS | BF | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 401 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 402 | CS | BF | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | AS | 403 | CS | BF | 3.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 404 | CS | BF | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 405 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 406 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 407 | CS | BF | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |


| 38.428 | - | A | 408 | CS | PRE | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 409 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 410 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 411 | CS | BF | 0.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AN | 412 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 413 | CS | BF | 1.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 414 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 415 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 416 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 417 | CS | BF | 2.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 418 | CS | PRE | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | ASW | 419 | CS | BF | 3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 420 | CS | BF | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 421 | CS | BF | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.428 | 122 | - | 422 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | - | A | 423 | CS | BF | 0.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 424 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AS | 425 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 426 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.428 | - | A | 427 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.428 | - | A | 428 | CS | BF | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 429 | CS | BF | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 430 | CS | PRE | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.428 | - | A | 431 | CS | BF | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 432 | CS | BF | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 433 | CS | BF | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 434 | CS | PRE | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M "D" |
| 38.428 | - | B | 435 | CS | BF | 3.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 6 | - | 436 | CS | BF | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.428 | - | A | 437 | CS | PRE | 1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 438 | CS | BF | 0.9 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 439 | CS | BF | 1.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AS | 440 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 441 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 442 | CS | BF | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 443 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.428 | - | AS | 444 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 445 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 446 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | AN | 447 | CS | BF | 3.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.428 | - | B | 448 | CS | BF | 2.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 38.428 | 2 | - | 449 | CS | BF | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 450 | CS | BF | 3.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | C | 451 | CS | BF | 3.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 452 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 453 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 454 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AN | 455 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 456 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 457 | CS | BF | 2.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 458 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 459 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 460 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 75 | - | 461 | CS | PRE | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) plus |
| 38.428 | - | A | 462 | CS | PRE | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 463 | CS | BF | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 464 | CS | BF | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 465 | CS | BF | 1 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 466 | CS | BF | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 467 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 468 | CS | BF | 0.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 469 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 470 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AN | 471 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.428 | - | A | 472 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 473 | CS | PRE | 1.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 474 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 475 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | 115 | - | 476 | CS | BF | 3.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.428 | - | B | 477 | CS | BF | 3.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 478 | CS | BF | 0.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 479 | CS | BF | 0.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 4 | - | 480 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.428 | - | A | 481 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.248 | - | A | 482 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 483 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 484 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 485 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 486 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 487 | CS | BF | 0.8 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 488 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 489 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |


| 38.428 | - | A | 490 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | AN | 491 | CS | BF | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 492 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | 91 | - | 493 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | - | A | 494 | CS | BF | 3.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 495 | CS | PRE | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 496 | CS | BF | 0.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 497 | CS | BF | 0.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 498 | CS | BF | 0.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.428 | - | B | 499 | CS | BF | 0.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 500 | CS | BF | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AS | 501 | CS | BF | 1.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 502 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 503 | CS | PRE | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 504 | CS | BF | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 505 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | BE | 506 | CS | BF | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | AS | 507 | CS | BF | 0.9 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.428 | - | A | 508 | CS | BF | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 509 | CS | BF | 2.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 510 | CS | BF | 0.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 511 | CS | BF | 0.5 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| 38.428 | - | A | 512 | CR | NAP | 1.8 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | R |
| 38.428 | - | A | 513 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | R |
| 38.428 | - | A | 514 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | R |
| 38.428 | 10 | - | 515 | CR | NAP | 6.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | R plus |
| 38.428 | - | AS | 516 | CR | NAP | 12.7 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R both interior and exterior are cord-marked |
| 38.428 | - | AN | 517 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R |
| 38.428 | - | - | 518 | CR | NAP | 3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R |
| 38.428 | - | A | 519 | CR | NAP | 1.4 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R |
| 38.428 | - | A | 520 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | R |
| 38.428 | - | - | 521 | CR | NAP | 3.5 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 522 | CR | NAP | 3.5 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 523 | CR | NAP | 3.9 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 524 | CR | NAP | 5.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 525 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 526 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 527 | CR | NAP | 4.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 528 | CR | NAP | 2.4 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 529 | CR | NAP | 4.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |


| 38.428 | - | - | 530 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 531 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 532 | CR | NAP | 4.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 533 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 534 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 535 | CR | NAP | 4.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | 59 | - | 536 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 537 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 538 | CR | NAP | 3.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 539 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 540 | CR | NAP | 4.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 541 | CR | NAP | 4.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 542 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 543 | CR | NAP | 6.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 544 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 545 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 546 | CR | NAP | 5.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 547 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 548 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 549 | CR | NAP | 3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 550 | CR | NAP | 7.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 551 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 552 | CR | NAP | 6.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 553 | CR | NAP | 3.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 554 | CR | NAP | 4.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 555 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 556 | CR | NAP | 4.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 557 | CR | NAP | 4.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 558 | CR | NAP | 6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 559 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 560 | CR | NAP | 5.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 561 | CR | NAP | 4.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 562 | CR | NAP | 4.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | AN | 563 | CR | NAP | 13.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 564 | CR | NAP | 23.1 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BA |
| 38.428 | - | A | 565 | CR | NAP | 7.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 566 | CR | NAP | 11.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 567 | CR | NAP | 3.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 568 | CR | NAP | 5.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 569 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 570 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |


| 38.428 | - | - | 571 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | - | 572 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 573 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | n/a | BO |
| 38.428 | - | - | 574 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 575 | CR | NAP | 5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 576 | CR | NAP | 7.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 577 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 578 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | n/a | BO |
| 38.428 | - | - | 579 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 580 | CR | NAP | 6.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BA |
| 38.428 | - | - | 581 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 582 | CR | NAP | 3.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 583 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | n/a | BO |
| 38.428 | - | - | 584 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | - | 585 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 38.428 | - | A | 586 | CS | DR | 4.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 587 | CS | DR | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | BE | 588 | CS | DR | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 589 | CS | DR | 2.3 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 590 | CS | BF | 12.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | M |
| 38.428 | - | A | 591 | CS | BF | 3.6 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | C | 592 | CS | BF | 10.2 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.428 | - | A | 593 | CS | BF | 3.8 | B | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 594 | CS | BF | 19.7 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 595 | CS | BF | 9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) "D" |
| 38.428 | - | A | 596 | CS | BF | 8.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | AN | 597 | CS | BF | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | D |
| 38.428 | - | AS | 598 | CS | BF | 6.5 | PW | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ |
| 38.428 | - | A | 599 | CS | BF | 8.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AS | 600 | CS | BF | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 601 | CS | DR | 1.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 602 | CS | BF | 4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | M |
| 38.428 | - | B | 603 | CS | BF | 6.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 126 | - | 604 | CS | BF | 7.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.428 | - | B | 605 | CS | BF | 4.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | AS | 606 | CS | BF | 3.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 607 | CS | BF | 17.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 428 | - | 608 | CS | BF | 10.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 609 | CS | BF | 6.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P , M 2 refitting pieces |
| 38.428 | - | A | 610 | CS | BF | 11.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 611 | CS | BF | 30.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |


| 38.428 | 65 | - | 612 | CS | BF | 10.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 613 | CS | BF | 8.4 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 1 | - | 614 | CS | BF | 4.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | - | AS | 615 | CS | BF | 9.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | - | 616 | CS | BF | 11.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.428 | - | AN | 617 | CS | BF | 15.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 133 | - | 618 | CS | BF | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.428 | - | A | 619 | CS | BF | 9.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 620 | CS | BF | 5.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "NE" |
| 38.428 | - | A | 621 | CS | BF | 18.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 622 | CS | BF | 4.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 623 | CS | BF | 3.5 | CY | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 624 | CS | BF | 3.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 625 | CS | BF | 3.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 626 | CS | BF | 3.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 627 | CS | BF | 5.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 628 | CS | BF | 6 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 629 | CS | BF | 10.3 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |
| 38.428 | - | A | 630 | CS | BF | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | B | 631 | CS | BF | 10 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 632 | CS | BF | 9.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 633 | CS | BF | 2.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | A | 634 | CS | BF | 3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 635 | CS | BF | 11.4 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | AS | 636 | CS | BF | 6.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 637 | CS | BF | 4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 638 | CS | BF | 5.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 639 | CS | BF | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 640 | CS | BF | 3.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 641 | CS | BF | 2.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.428 | - | A | 642 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 643 | CS | BF | 0.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 644 | CS | BF | 0.8 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | B | 645 | CS | BF | 6.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 646 | CS | BF | 3.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 647 | CS | BF | 12.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.428 | - | ASS | 648 | CS | BF | 9.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 113 | - | 649 | CS | BF | 8.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.428 | - | AS | 650 | CS | BF | 8.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | 138 | - | 651 | CS | BF | 24.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.428 | - | A | 652 | CS | BF | 5.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |


| 38.428 | - | A | 653 | CS | BF | 5.3 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | - | 654 | CS | BF | 4.3 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 38.428 | - | A | 655 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 656 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 657 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 658 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 659 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 660 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 661 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 662 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 663 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 664 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 665 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 666 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 667 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 668 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 669 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 670 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 671 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 672 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 673 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 674 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 675 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 676 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 677 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 678 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 679 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 680 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 681 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 682 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 683 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 684 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 685 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 686 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 687 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 688 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 689 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 690 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 691 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 692 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |
| 38.428 | - | A | 693 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | n/a | EC | Cord-marked | BO |


| 38.428 | - | A | 694 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 695 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 696 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 697 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 698 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 699 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 700 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 701 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 702 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 703 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 704 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 705 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 706 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 707 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 708 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 709 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 710 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 711 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 712 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 713 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 714 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 715 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 716 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 717 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO |
| 38.428 | - | A | 718 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 719 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 720 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 721 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 722 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 723 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 724 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 725 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 726 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 727 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 728 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 729 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 730 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 731 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 732 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 733 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 734 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |


| 38.428 | - | A | 735 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 736 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 737 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 738 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 739 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 740 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 741 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 742 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 743 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 744 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 745 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 746 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 747 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 748 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 749 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 750 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 751 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 752 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 753 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 754 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 755 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 756 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 757 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 758 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 759 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 760 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 761 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 762 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 763 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 764 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 765 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 766 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 767 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 768 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 769 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 770 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 771 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 772 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 773 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 774 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 775 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |


| 38.428 | - | A | 776 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 777 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 778 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 779 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 780 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 781 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 782 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 783 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 784 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 785 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 786 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 787 | CR | NAP | 0.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 788 | CR | NAP | 13.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO two refitted fragments |
| 38.428 | - | A | 789 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 790 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 791 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 792 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 793 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 794 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 795 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 796 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 797 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 798 | CR | NAP | 5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 799 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 800 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 801 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 802 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 803 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 804 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 805 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 806 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 807 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 808 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 809 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 810 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 811 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 812 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 813 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 814 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 815 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 816 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |


| 38.428 | - | A | 817 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 818 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 819 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 820 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 821 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 822 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 823 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 824 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 825 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 826 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 827 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 828 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 829 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 830 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 831 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 832 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 833 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 834 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 835 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 836 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 837 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 838 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 839 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 840 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 841 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 842 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 843 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 844 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 845 | CR | NAP | 5.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 846 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 847 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 848 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 849 | CR | NAP | 3.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 850 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 851 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 852 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 853 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 854 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 855 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 856 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 857 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |


| 38.428 | - | A | 858 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 859 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 860 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 861 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 862 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 863 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 864 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 865 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 866 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 867 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 868 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 869 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 870 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 871 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 872 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 873 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 874 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 875 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 876 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 877 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 878 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 879 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 880 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 881 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 882 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 883 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 884 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | R |
| 38.428 | - | A | 885 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 886 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 887 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 888 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 889 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 890 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 891 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 892 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 893 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 894 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 895 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 896 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 897 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 898 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |


| 38.428 | 33 | - | 899 | CR | NAP | 13.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO "D", plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | 76 | - | 900 | CR | NAP | 4.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | - | - | 901 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | 40 | - | 902 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO plus |
| 38.428 | 10 | - | 903 | CR | NAP | 3.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BA plus |
| 38.428 | 67 | - | 904 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | 67 | - | 905 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | 42 | - | 906 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | 79 | - | 907 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | 36 | - | 908 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | - | AE | 909 | CR | NAP | 6.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 910 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 911 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 912 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 913 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AE | 914 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AE | 915 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AE | 916 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 917 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 918 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AE | 919 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AE | 920 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AE | 921 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 922 | CR | NAP | 6.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 923 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 924 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 925 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 926 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 927 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 928 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 929 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 930 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 931 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 932 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 933 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | R |
| 38.428 | - | A | 934 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 935 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 936 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 937 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 938 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 939 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |


| 38.428 | - | A | 940 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 941 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 942 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | A | 943 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 944 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 945 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 946 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 947 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 948 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 949 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 950 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 951 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 952 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 953 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 954 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 955 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 956 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | A | 957 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 958 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 959 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 960 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 961 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 962 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 963 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 964 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 965 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 966 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 967 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 968 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 969 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASS | 970 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | AS | 971 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 972 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 973 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 974 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 975 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AS | 976 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AS | 977 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | ASW | 978 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 979 | CR | NAP | 5.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 980 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |


| 38.428 | - | A | 981 | CR | NAP | 5.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 982 | CR | NAP | 10.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 983 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 984 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 985 | CR | NAP | 4.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AS | 986 | CR | NAP | 5.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 987 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 988 | CR | NAP | 11.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASW+A | 989 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | ASW+A | 990 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | 5 | ASW+A | 991 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AW | 992 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | A | 993 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | A | 994 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | 8 | - | 995 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 38.428 | - | AS | 996 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 997 | CR | NAP | 4.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BA |
| 38.428 | - | AN | 998 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 999 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1000 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BA |
| 38.428 | - | AN | 1001 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1002 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1003 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1004 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1005 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1006 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1007 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1008 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1009 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1010 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | BO exterior is deteriorated |
| 38.428 | - | AN | 1011 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AN | 1012 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1013 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1014 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | AN | 1015 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1016 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | AN | 1017 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1018 | CR | NAP | 1,7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1019 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1020 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1021 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |


| 38.428 | - | AN | 1022 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | AN | 1023 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1024 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1025 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1026 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | BO exterior is deteriorated |
| 38.428 | - | AN | 1027 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1028 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1029 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1030 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BA |
| 38.428 | - | AN | 1031 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1032 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1033 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1034 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1035 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1036 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1037 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1038 | CR | NAP | 3.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1039 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1040 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1041 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1042 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1043 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | R |
| 38.428 | - | AN | 1044 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1045 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BA |
| 38.428 | - | AN | 1046 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1047 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | AN | 1048 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1049 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1050 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1051 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1052 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1053 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1054 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1055 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1056 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | R |
| 38.428 | - | AN | 1057 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1058 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1059 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1060 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1061 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1062 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |


| 38.428 | - | AN | 1063 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | AN | 1064 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1065 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1066 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1067 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1068 | CR | NAP | 1.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1069 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1070 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1071 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1072 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1073 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1074 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1075 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | AN | 1076 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1077 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1078 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1079 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1080 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | AN | 1081 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1082 | CR | NAP | 7.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1083 | CR | NAP | 19.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1084 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1085 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1086 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1087 | CR | NAP | 4.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1088 | CR | NAP | 5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1089 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1090 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1091 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1092 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1093 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1094 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1095 | CR | NAP | 5.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1096 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1097 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1098 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1099 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1100 | CR | NAP | 1.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1101 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1102 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1103 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |


| 38.428 | - | B | 1104 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 1105 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1106 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1107 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1108 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1109 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BA |
| 38.428 | - | B | 1110 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1111 | CR | NAP | 0.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1112 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1113 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1114 | CR | NAP | 0.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1115 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1116 | CR | NAP | 1.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1117 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1118 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1119 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1120 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1121 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1122 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1123 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1124 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1125 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1126 | CR | NAP | 0.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1127 | CR | NAP | 0.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1128 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1129 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1130 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1131 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1132 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1133 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1134 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1135 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1136 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1137 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1138 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1139 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | BO exterior is deteriorated |
| 38.428 | - | B | 1140 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1141 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | Plainware | BO |
| 38.428 | - | B | 1142 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| 38.428 | - | B | 1143 | CR | NAP | 0.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 38.428 | - | B | 1144 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |


| 38.428 | - | B | 1145 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | Plainware | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | - | 1146 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1147 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1148 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1149 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1150 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1151 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1152 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1153 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1154 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1155 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1156 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1157 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1158 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1159 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1160 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1161 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1162 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1163 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1164 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1165 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1166 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1167 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1168 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1169 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1170 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1171 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1172 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1173 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1174 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1175 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1176 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1177 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1178 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1179 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1180 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1181 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1182 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1183 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1184 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | - | 1185 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |


| 38.428 | - | A | 1186 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1187 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1188 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1189 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1190 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1191 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1192 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1193 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1194 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1195 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1196 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1197 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1198 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1199 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1200 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1201 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1202 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1203 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1204 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1205 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1206 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1207 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1208 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1209 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1210 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1211 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1212 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1213 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1214 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1215 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1216 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1217 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1218 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1219 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1220 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1221 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1222 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1223 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1224 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1225 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1226 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1227 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1228 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1229 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1230 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1231 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1232 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1233 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1234 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1235 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1236 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1237 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1238 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1239 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1240 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1241 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1242 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1243 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1244 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | C | 1245 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 73 | - | 1246 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | - | 1247 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1248 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1249 | GS | MET | - | SA | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1250 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1251 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1252 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1253 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1254 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1255 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1256 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1257 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1258 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1259 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1260 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1261 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1262 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1263 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1264 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1265 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1266 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1267 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | B | 1268 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 1269 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1270 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1271 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1272 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1273 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1274 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1275 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1276 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1277 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1278 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1279 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1280 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1281 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1282 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1283 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1284 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1285 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1286 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1287 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1288 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1289 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1290 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1291 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1292 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1293 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1294 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1295 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1296 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1297 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1298 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1299 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1300 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1301 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1302 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1303 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1304 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1305 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1306 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1307 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1308 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | B | 1309 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 1310 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1311 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1312 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1313 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1314 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1315 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1316 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1317 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1318 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1319 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1320 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1321 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1322 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1323 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1324 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1325 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1326 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1327 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1328 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1329 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1330 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1331 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1332 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1333 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1334 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1335 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1336 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1337 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1338 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1339 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1340 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1341 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1342 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1343 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1344 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1345 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1346 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1347 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1348 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1349 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | B | 1350 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | B | 1351 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1352 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1353 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1354 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1355 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1356 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1357 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1358 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 61 |  | 1359 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 66 |  | 1360 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 14 |  | 1361 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | B | 1362 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | B | 1363 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | B | 1364 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | B | 1365 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | B | 1366 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | A | 1367 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | A | 1368 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | A | 1369 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | A | 1370 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 |  | A | 1371 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1372 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1373 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1374 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1375 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1376 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1377 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1378 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1379 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1380 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1381 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1382 | CS | HAM | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1383 | CS | HAM | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1384 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1385 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1386 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1387 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1388 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1389 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1390 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1391 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1392 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1393 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1394 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1395 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1396 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1397 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1398 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1399 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1400 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1401 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1402 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1403 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1404 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1405 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1406 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1407 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1408 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1409 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1410 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1411 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1412 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1413 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1414 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1415 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1416 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1417 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1418 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1419 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1420 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1421 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1422 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1423 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1424 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1425 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1426 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1427 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1428 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1429 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | - | 1430 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | - | 1431 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | - | 1432 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | - | 1433 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1434 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1435 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1436 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1437 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1438 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1439 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - |  | 1440 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1441 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1442 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1443 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1444 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1445 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1446 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1447 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1448 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1449 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1450 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1451 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1452 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1453 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1454 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1455 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1456 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1457 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1458 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1459 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1460 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1461 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1462 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1463 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1464 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1465 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1466 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1467 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1468 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1469 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1470 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1471 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1472 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1473 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1474 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1475 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1476 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1477 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1478 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1479 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1480 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1481 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1482 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1483 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1484 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1485 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1486 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1487 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1488 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1489 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1490 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1491 | GS | MAN | - | ND | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1492 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1493 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1494 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1495 | GS | MAN | - | SA | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1496 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1497 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1498 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 1499 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1500 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1501 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1502 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 1503 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 1504 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1505 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1506 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1507 | GS | MAN | - | SA | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1508 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1509 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1510 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1511 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1512 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 12 |  | 1513 | GS | MAN | - | MQ | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | D |


| 38.428 | 52 |  | 1514 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | 53 |  | 1515 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 93 |  | 1516 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 34 |  | 1517 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | 63 |  | 1518 | GS | MAN | - | MQ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1519 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1520 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1521 | GS | MAN | - | ND | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1522 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | B | 1523 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1524 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1525 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1526 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1527 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1528 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1529 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1530 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1531 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 18 | - | 1532 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | 71 | - | 1533 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | A | 1534 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 1535 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 1536 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.428 | - | A | 1537 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1538 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1539 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1540 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1541 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1542 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1543 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1544 | GS | MAN | - | MQ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1545 | GS | MAN | - | MQ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | B | 1546 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1547 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 1548 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | A | 1549 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | A | 1550 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | A | 1551 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 38.428 | - | A | 1552 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.428 | 23 | - | 1553 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 38.428 | 142 | - | 1554 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | 80 | - | 1555 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | 24 | - | 1556 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 106 | - | 1557 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 110 | - | 1558 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 96 | - | 1559 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 55 | - | 1560 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 47 | - | 1561 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 22 | - | 1562 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 62 | - | 1563 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 27 | - | 1564 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 46 | - | 1565 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 45 | - | 1566 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 43 | - | 1567 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 49 | - | 1568 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 93 | - | 1569 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 145 | - | 1570 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 72 | - | 1571 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 111 | - | 1572 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 123 | - | 1573 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 37 | - | 1574 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 5 | - | 1575 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 3 | - | 1576 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1577 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1578 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1579 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1580 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1581 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1582 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1583 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1584 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1585 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1586 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1587 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1588 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1589 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1590 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1591 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1592 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1593 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1594 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1595 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1596 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1597 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1598 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1599 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1600 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1601 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1602 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1603 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1604 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1605 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1606 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1607 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1608 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1609 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1610 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1611 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1612 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1613 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1614 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1615 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1616 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1617 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1618 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1619 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1620 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1621 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1622 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1623 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1624 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1625 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1626 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1627 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1628 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1629 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1630 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1631 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1632 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1633 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1634 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1635 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1636 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1637 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1638 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1639 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1640 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1641 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1642 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1643 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1644 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1645 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1646 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1647 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1648 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1649 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1650 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1651 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1652 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1653 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1654 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1655 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1656 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1657 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1658 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1659 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1660 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1661 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1662 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1663 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1664 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1665 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1666 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1667 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1668 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1669 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1670 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1671 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1672 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1673 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1674 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1675 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1676 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1677 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1678 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1679 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1680 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1681 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1682 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1683 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1684 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1685 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1686 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1687 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1688 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1689 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1690 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1691 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1692 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1693 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1694 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1695 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1696 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1697 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1698 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1699 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1700 | GS | MET | - | SA | $n / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1701 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1702 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1703 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1704 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1705 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1706 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1707 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1708 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1709 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1710 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1711 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1712 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1713 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1714 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1715 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1716 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1717 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1718 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1719 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1720 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1721 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1722 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1723 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1724 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1725 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1726 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1727 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1728 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1729 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1730 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1731 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1732 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1733 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1734 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1735 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1736 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1737 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1738 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1739 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1740 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1741 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1742 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1743 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1744 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1745 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1746 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1747 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1748 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1749 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1750 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1751 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1752 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1753 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1754 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | C | 1755 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1756 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1757 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1758 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1759 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | C | 1760 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | C | 1761 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1762 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1763 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1764 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1765 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | C | 1766 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | 15 | - | 1767 | CR | NAP | - | n | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | B |
| 38.428 | - | A | 1768 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1769 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 38.428 | - | A | 1770 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1771 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1772 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1773 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1774 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | B | 1775 | CS | HAM | - | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.428 | - | B | 1776 | CS | BF | - | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1777 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1778 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1779 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1780 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1781 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 38.428 | - | A | 1782 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1783 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1784 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1785 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1786 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1787 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1788 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1789 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1790 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1791 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1792 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1793 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 38.428 | - | A | 1794 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1795 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | D | 1796 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1797 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1798 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1799 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1800 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.428 | - | A | 1801 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.428 | - | A | 1802 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1803 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1804 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1805 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1806 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1807 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1808 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1809 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1810 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1811 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1812 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1813 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1814 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1815 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1816 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1817 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1818 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1819 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1820 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1821 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1822 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1823 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1824 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1825 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1826 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1827 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.428 | - | A | 1828 | GS | GRD | - | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.343 | - | S | 1 | CS | EMF | 5.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BI | 2 | CS | ES | 8.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | A2E | 3 | CS | ES | 14.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BLN | 4 | CS | ES | 13 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BI | 5 | CS | ES | 10.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BI | 6 | CS | CV | 7.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | B | 7 | CS | BF | 2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |  |
| 38.343 | - | BZ | 8 | CS | EMF | 3.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | A2 | 9 | CS | BF | 4.5 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | B3S | 10 | CS | ES | 6.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.343 | - | A2 | 11 | CS | EMF | 13.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | - | 12 | CS | SS | 19.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BI | 13 | CS | EMF | 9.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | A3 | 14 | CS | EMF | 11 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BIE | 15 | CS | EMF | 14.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | AI | 16 | CS | EMF | 5.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | BI | 17 | CS | EMF | 8.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | A3 | 18 | CS | BF | 40.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | B3S | 19 | CS | EMF | 6.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | A2 | 20 | CS | EMF | 5.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | A3 | 21 | CS | MS | 4.8 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.343 | - | B | 22 | CS | EMF | 3.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | AZW | 23 | CS | BF | 3.8 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.343 | - | AI | 24 | CS | BF | 4.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | B2 | 25 | CS | EMF | 4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | BE | 26 | CS | MS | 4.3 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | AIE | 27 | CS | EMF | 7.7 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BI | 28 | CS | EMF | 6.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.343 | - | BI | 29 | CS | MS | 6.1 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.343 | - | A2 | 30 | CS | BF | 10.6 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.343 | - | BI | 31 | CS | BF | 21 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.343 | - | BIS | 32 | CS | MS | 2.2 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.343 | - | A2 | 33 | CS | EMF | 2.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | B | 34 | CS | SS | 3.9 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 38.343 | - | B2 | 35 | CS | PP | 0.7 | CH | $\mathrm{n} / \mathrm{a}$ | MC | Tri-notched | P |  |
| 38.343 | - | BI | 36 | CS | DR | 1.4 | CH | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |


| 38.343 | - | BI | 37 | CS | DR | 6.7 | CH | n/a | n/a | n/a | P, M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.343 | - | BI | 38 | CS | DR | 5.3 | CH | n/a | n/a | n/a | P, M |
| 38.343 | - | BIW | 39 | CS | DR | 4 | CH | n/a | n/a | n/a | P, M |
| 38.343 | - | A2 | 40 | CS | DR | 2.1 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.343 | - | BI | 41 | CS | PP | 8.1 | CH | $\mathrm{n} / \mathrm{a}$ | MA | Yonkee | C |
| 38.343 | - | A | 42 | GS | MET | - | SA | n/a | n/a | n/a | MC (D) |
| 38.343 | - | A | 43 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.343 | - | A | 44 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.343 | - | A | 45 | GS | MAN | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |
| 38.343 | - | A | 46 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |
| 38.343 | - | A | 47 | GS | MAN | - | SA | n/a | n/a | n/a | D |
| 38.343 | - | A | 48 | GS | MAN | - | SA | n/a | n/a | n/a | C |
| 38.343 | - | A | 49 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |
| 38.343 | - | D | 50 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.343 | - | B | 51 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.343 | - | B | 52 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D |
| 38.343 | - | B | 53 | GS | MAN | - | GR | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | - | 54 | CS | HAM | - | QZ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | C |
| 38.343 | - | A | 55 | GS | MISC | - | Shale | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 56 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 57 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 58 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 59 | GS | MISC | - | SA | n/a | n/a | n/a | L |
| 38.343 | - | A | 60 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 61 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 62 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 63 | GS | MISC | - | SA | n/a | n/a | n/a | L |
| 38.343 | - | A | 64 | GS | MISC | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 65 | GS | MET | - | SA | n/a | n/a | n/a | L |
| 38.343 | - | A | 66 | GS | MET | - | SA | n/a | n/a | n/a | L |
| 38.343 | - | A | 67 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 68 | GS | MET | - | SA | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | L |
| 38.343 | - | A | 69 | GS | MET | - | SA | n/a | n/a | n/a | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.9 | - | - | 1 | CS | PRE | 3.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | - | 2 | CS | PRE | 2.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | - | 3 | CS | PRE | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | - | 4 | CS | PRE | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) |  |
| 58.9 | - | - | 5 | CS | PRE | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | A | 6 | CS | PRE | 0.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | - | 7 | CS | DR | 0.7 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.9 | - | - | 8 | CS | PP | 2 | PW | n | MP | $\mathrm{n} / \mathrm{a}$ |  |  |
| 58.9 | - | - | 9 | CS | PP | 4.6 | CH | n | EA | n/a | MC (T) |  |
| 58.9 | - | - | 10 | CS | PP | 1.8 | PW | n | EA | $\mathrm{n} / \mathrm{a}$ | P, M |  |
| 58.9 | - | - | 11 | CS | PP | 1.9 | QZ | n | EA | $\mathrm{n} / \mathrm{a}$ | P, M |  |
| 58.9 | - | - | 12 | CS | PP | 0.6 | CH | n | EA | $\mathrm{n} / \mathrm{a}$ | P |  |
| 58.9 | - | - | 13 | CS | PP | 1.3 | CH | n | EA | Mount Albion | P |  |
| 58.9 | - | - | 14 | CS | PP | 2.1 | CY | n | MA | Duncan Hanna | C |  |
| 58.9 | - | - | 15 | CS | PP | 1.1 | CH | n | MA | Duncan Hanna | MC (T) |  |
| 58.9 | - | - | 16 | CS | PP | 2.1 | CY | n | EA | n/a | C |  |
| 58.9 | - | - | 17 | CS | PP | 3.9 | QZ | n | LA | Pelican Lake | MC (T) |  |
| 58.9 | - | - | 18 | CS | PP | 1.4 | QZ | n | LA | Pelican Lake | P |  |
| 58.9 | - | - | 19 | CS | PP | 2.8 | CH | n | LA | Besant | C |  |
| 58.9 | - | - | 20 | CS | PP | 1.4 | CH | n | LA | Besant | C |  |
| 58.9 | - | - | 21 | CS | PP | 1.2 | PW | n | LA | Besant | P |  |
| 58.9 | - | - | 22 | CS | PP | 1.1 | CH | n | LA | Besant | P |  |
| 58.9 | - | - | 23 | CS | PP | 0.7 | CH | n | EC | Hogback | P, M |  |
| 58.9 | - | - | 24 | CS | PP | 0.4 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 25 | CS | PP | 0.5 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 26 | CS | PP | 0.4 | CY | n | EC | Hogback | MC (L) |  |
| 58.9 | - | - | 27 | CS | PP | 0.6 | CH | n | EC | Hogback | C |  |
| $58.9$ | - | - | 28 | CS | PP | 0.9 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 29 | CS | PP | 1 | CH | n | EC | Hogback | C |  |
| $58.9$ | - | - | 30 | CS | PP | 0.7 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 31 | CS | PP | 0.6 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 32 | CS | PP | 0.5 | CH | n | EC | Hogback | C |  |
| 58.9 | - | - | 33 | CS | PP | 0.7 | CH | n | EC | Corner-notched | C |  |
| 58.9 | - | - | 34 | CS | PP | 0.2 | CY | n | EC | Corner-notched | C |  |
| 58.9 | - | - | 35 | CS | PP | 0.6 | CY | n | EC | Corner-notched | C |  |
| 58.9 | - | - | 36 | CS | PP | 0.8 | CH | n | EC | Corner-notched | C |  |
| 58.9 | - | - | 37 | CS | PP | 0.6 | PW | n | EC | Corner-notched | C |  |
| 58.9 | - | - | 38 | CS | PP | 0.4 | CY | n | EC | Corner-notched | D, M |  |
| 58.9 | - | - | 39 | CS | PP | 0.5 | CH | n | EC | Corner-notched | MC (T) |  |


| 58.9 | - | - | 40 | CS | PP | 0.5 | CH | n | EC | Hogback | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.9 | - | - | 41 | CS | PP | 0.6 | CH | n | EC | Side-notched | MC (L) |
| 58.9 | - | - | 42 | CS | PP | 0.5 | CH | n | EC | Hogback | MC (T) |
| 58.9 | - | - | 43 | CS | PP | 0.5 | CH | n | EC | Corner-notched | MC (T) |
| 58.9 | - | - | 44 | CS | PP | 0.3 | PW | n | EC | Corner-notched | M, P |
| 58.9 | - | - | 45 | CS | PP | 0.2 | CH | n | EC | Hogback | P |
| 58.9 | - | - | 46 | CS | PP | 0.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 47 | CS | PP | 0.7 | CH | n | MC | Side-notched | P |
| 58.9 | - | - | 48 | CS | PP | 0.5 | CH | n | MC | Side-notched | C |
| 58.9 | - | - | 49 | CS | PP | 0.4 | CH | n | MC | Side-notched | MC (T) |
| 58.9 | - | - | 50 | CS | PP | 0.5 | CH | n | MC | Unnotched | C |
| 58.9 | - | - | 51 | CS | ES | 10.1 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 52 | CS | ES | 7.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 53 | CS | ES | 5.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 54 | CS | ES | 2.1 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (L) |
| 58.9 | - | - | 55 | CS | ES | 1.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |
| 58.9 | - | - | 56 | CS | MS | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 58.9 | - | - | 57 | CS | ES | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 58 | CS | SS | 11.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | M |
| 58.9 | - | - | 59 | CS | ES | 7.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 60 | CS | ES | 1.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 61 | CS | ES | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 62 | CS | MS | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 63 | CS | EMF | 2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 64 | CS | EMF | 0.4 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 58.9 | - | - | 65 | CS | EMF | 0.8 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 66 | CS | EMF | 2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 67 | CS | EMF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 58.9 | - | - | 68 | CS | EMF | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 69 | CS | EMF | 0.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 70 | CS | EMF | 1.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 71 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 72 | CS | EMF | 0.6 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 58.9 | - | - | 73 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 74 | CS | BF | 0.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 75 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 76 | CS | BF | 2.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 77 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 78 | CS | BF | 9.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C possible knife |
| 58.9 | - | - | 79 | CS | BF | 7.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 80 | CS | BF | 5.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |


| 58.9 | - | - | 81 | CS | BF | 4.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.9 | - | - | 82 | CS | BF | 2.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 83 | CS | BF | 5.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 84 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 85 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 86 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 87 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 88 | CS | BF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 89 | CS | BF | 0.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 90 | CS | BF | 3.2 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 91 | CS | BF | 0.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 92 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | A | 93 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | A | 94 | CS | BF | 4.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 95 | CS | BF | 1 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 96 | CS | BF | 0.6 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 97 | CS | BF | 2.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 98 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 99 | CS | BF | 3.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 100 | CS | BF | 1.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 101 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 102 | CS | PRE | 1.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 103 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 104 | CS | PRE | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 58.9 | - | - | 105 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 106 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 107 | CS | BF | 0.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 108 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 109 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 110 | CS | BF | 0.5 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 111 | CS | BF | 0.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 112 | CS | BF | 0.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 113 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 114 | CS | BF | 0.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 115 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 116 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 117 | CS | BF | 1 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 58.9 | - | - | 118 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 119 | CS | BF | 0.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 58.9 | - | - | 120 | CS | EMF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 58.9 | - | - | 121 | CR | NAP | 4 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO |


| 58.9 | - | - | 122 | CR | NAP | 4.3 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.9 | - | - | 123 | GS | MET | 5 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 124 | GS | MAN | 100 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 58.9 | - | - | 125 | GS | MAN | 120 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 126 | GS | MAN | 340 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 127 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 128 | GS | MET | 180 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 129 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 130 | GS | MET | 120 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 58.9 | - | - | 131 | GS | MAN | 140 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 132 | GS | MAN | 140 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 133 | GS | MET | 20 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 134 | GS | MAN | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 135 | GS | MET | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 136 | GS | MET | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 137 | GS | MAN | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 138 | GS | MISC | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 139 | GS | MAN | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 58.9 | - | - | 140 | CS | HAM | 120 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.9 | - | - | 141 | GS | HAM | 200 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC |
| 58.9 | - | - | 142 | GS | MAN | 80 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 143 | GS | MAN | 420 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 58.9 | - | - | 144 | GS | MAN | 720 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC |
| 58.9 | - | - | 145 | GS | MAN | 220 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 146 | GS | MAN | 160 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 147 | GS | MAN | 260 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 148 | GS | MAN | 200 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.9 | - | - | 149 | GS | MAN | 420 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 58.9 | - | - | 150 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 151 | GS | MAN | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.9 | - | - | 152 | GS | MAN | 980 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.178 | - | - | 1 | CS | ES | 16.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D |  |
| 38.178 | - | F | 2 | CS | ES | 13.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.178 | - | - | 3 | CS | ES | 12.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.178 | - | D | 4 | CS | SS | 5.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | 7 | - | 5 | CS | MS | 6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 38.178 | - | B | 6 | CS | EMF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |  |
| 38.178 | - | C | 7 | CS | MS | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.178 | 5 | - | 8 | CS | BF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | C | 9 | CS | BF | 5.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.178 | - | - | 10 | CS | BF | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.178 | - | - | 11 | CS | BF | 4.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.178 | - | - | 12 | CS | BF | 1.6 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | - | 13 | CS | BF | 8.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{D})$ |  |
| 38.178 | 3 | - | 14 | CS | BF | 10.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus, "D" |  |
| 38.178 | - | A | 15 | CS | BF | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{MC}(\mathrm{P})$ |  |
| 38.178 | - | - | 16 | CS | BF | 10.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |  |
| 38.178 | - | - | 17 | CS | BF | 1.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.178 | - | E | 18 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.178 | - | - | 19 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | - | 20 | CS | BF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | C | 21 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | M | 22 | CS | BF | 1.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | E | 23 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | E | 24 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | E | 25 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | - | 26 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.178 | - | M | 27 | CS | BF | 1.3 | CH | n | n/a | n/a | D |  |
| 38.178 | - | C | 28 | CS | PP | 3.7 | CH | n | LP | Angostura | P |  |
| 38.178 | - | A | 29 | CS | PP | 1.9 | CH | n | LA | n/a | C |  |
| 38.178 | - | E | 30 | CS | PP | 2.5 | CH | n | LA | Pelican Lake | C |  |
| 38.178 | - | A | 31 | CS | PP | 3.7 | CH | n | LA | Pelican Lake | C |  |
| 38.178 | - | F | 32 | CS | PP | 3.1 | CH | n | LA | Pelican Lake | MC (P) |  |
| 38.178 | - | - | 33 | CS | PP | 3 | CH | n | LA | Pelican Lake | C |  |
| 38.178 | - | - | 34 | CS | PP | 3.1 | CH | n | LA | Pelican Lake | C |  |
| 38.178 | - | - | 35 | CS | PP | 3.3 | CH | n | LA | Pelican Lake | $\mathrm{MC}(\mathrm{T})$ |  |
| 38.178 | - | C | 36 | CS | PP | 4 | CH | n | LA | Pelican Lake | M |  |
| 38.178 | - | C | 37 | CS | PP | 5.2 | QZ | n | LA | Pelican Lake | M |  |
| 38.178 | - | C | 38 | CS | PP | 4.8 | QZ | n | LA | Pelican Lake | M |  |


| 38.178 | - | C | 39 | CS | PP | 2.7 | CH | n | LA | Pelican Lake | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.178 | - | C | 40 | CS | PP | 2.9 | CH | n | LA | Pelican Lake | MC (T) |
| 38.178 | - | C | 41 | CS | PP | 0.4 | CH | 1 | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 38.178 | - | D | 42 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | C |
| 38.178 | 2 | - | 43 | CS | PP | 0.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 38.178 | - | C | 44 | CS | DR | 4.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.178 | - | A | 45 | CS | DR | 10.6 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.178 | - | D | 46 | CS | PP | 1.5 | CY | n | EC | Corner-notched | MC (T) |
| 38.178 | - | C | 47 | CS | PP | 1.2 | CH | n | EC | Corner-notched | MC (T) |
| 38.178 | - | A | 48 | CS | PP | 0.7 | CH | n | EC | Corner-notched | M, P |
| 38.178 | - | C | 49 | CS | PP | 0.8 | CH | n | MC | Side-notched | MC (T) |
| 38.178 | 6 | - | 50 | CS | PP | 0.6 | CH | n | MC | Side-notched | MC (T) |
| 38.178 | - | - | 51 | CS | PP | 0.8 | QZ | n | EC | Corner-notched | M, P |
| 38.178 | - | C | 52 | CS | PP | 0.7 | CH | n | EC | Corner-notched | M, P |
| 38.178 | - | E | 53 | CS | PP | 1.2 | QZ | n | MC | Side-notched | MC (T) |
| 38.178 | - | D | 54 | CS | HAM | - | QZ | n | n/a | n/a | C |
| 38.178 | - | D | 55 | CS | HAM | - | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.178 | 4 | - | 56 | GS | MAN | - | SA | n | n/a | n/a | D |
| 38.178 | - | C | 57 | GS | MAN | - | SA | n | n/a | n/a | D |
| 38.178 | - | C | 58 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | C | 59 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.178 | - | D | 60 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 61 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 62 | GS | GRD | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 63 | GS | MAN | - | MQ | n | n/a | n/a | D |
| 38.178 | - | - | 64 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 65 | GS | MET | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 66 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 67 | GS | MET | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 68 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 69 | GS | GRD | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 70 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 71 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 72 | GS | GRD | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 73 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 74 | GS | GRD | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 75 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 76 | GS | GRD | - | SA | n | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 77 | GS | GRD | - | SA | n | n/a | n/a | L |
| 38.178 | - | - | 78 | GS | GRD | - | SA | n | n/a | n/a | L |


| 38.178 | - | - | 79 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 38.178 | - | - | 80 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 81 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 82 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 83 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 84 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 85 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 86 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 87 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 88 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 89 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 90 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 91 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 92 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | - | 93 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | 1 | - | 94 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | C | 95 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | D | 96 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.178 | - | D | 97 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58.16 | - | - | 1 | CR | NAP | 2.5 | n/a | n | EC | Plainware | BO |  |
| 58.16 | - | - | 2 | CS | MS | 1.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |  |
| 58.16 | - | - | 3 | CS | MS | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 58.16 | - | - | 4 | CS | ES | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 58.16 | - | - | 5 | CS | SS | 7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |  |
| 58.16 | - | - | 6 | CS | ES | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | - | 7 | CS | ES | 14.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | - | 8 | CS | ES | 5.5 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 58.16 | - | - | 9 | CS | ES | 16.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | B | 10 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 58.16 | - | - | 11 | CS | EMF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 58.16 | - | - | 12 | CS | EMF | 4.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | - | 13 | CS | SS | 5.5 | SS | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | 3 | - | 14 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 58.16 | - | - | 15 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 58.16 | - | - | 16 | CS | PRE | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | - | 17 | CS | PRE | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 58.16 | - | - | 18 | CS | BF | 2.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 58.16 | 2 | - | 19 | CS | BF | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 58.16 | - | - | 20 | CS | BF | 9.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M |  |
| 58.16 | - | - | 21 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 58.16 | - | - | 22 | CS | BF | 5.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |  |
| 58.16 | - | - | 23 | CS | PP | 4 | CH | n | LP | Angostura | P |  |
| 58.16 | - | - | 24 | CS | PP | 2.1 | CH | n | LA | Besant | C |  |
| 58.16 | - | - | 25 | CS | PP | 2.4 | CH | n | MA | Duncan-Hanna | P, M |  |
| 58.16 | - | - | 26 | CS | PP | 1.9 | CH | n | LA | Pelican Lake | M |  |
| 58.16 | - | - | 27 | CS | PP | 3.7 | CH | n | MA | Duncan-Hanna | $\mathrm{MC}(\mathrm{T})$ |  |
| 58.16 | - | - | 28 | CS | PP | 0.7 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P |  |
| 58.16 | - | - | 29 | CS | PP | 1 | CH | n | LA | Pelican Lake | P |  |
| 58.16 | - | - | 30 | CS | PP | 1.1 | CH | n | LA | Pelican Lake | P, M |  |
| 58.16 | - | - | 31 | CS | PP | 0.6 | CY | n | EC | Corner-notched | P, M |  |
| 58.16 | - | - | 32 | CS | PP | 0.7 | CY | n | EC | Corner-notched | C |  |
| 58.16 | - | - | 33 | CS | PP | 0.5 | CH | n | MC | Side-notched | M |  |
| 58.16 | - | - | 34 | CS | PP | 0.8 | CH | n | MC | Unnotched | C |  |
| 58.16 | - | - | 35 | CS | PP | 0.8 | CH | n | EC | Corner-notched | $\mathrm{MC}(\mathrm{P})$ |  |
| 58.16 | - | - | 36 | CS | PP | 0.9 | CH | n | EC | Corner-notched | C |  |
| 58.16 | - | - | 37 | CS | PP | 0.4 | CH | n | EC | Corner-notched | MC (L) |  |


| 58.16 | - | - | 38 | CS | PP | 1.4 | CH | n | EC | Corner-notched | MC (P) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 58.16 | - | - | 39 | CS | PP | 1.5 | CH | n | EC | Corner-notched | MC (T) |
| 58.16 | - | - | 40 | CS | PP | 0.7 | CY | n | EC | Corner-notched | MC (T) |
| 58.16 | - | - | 41 | CS | HK | 13.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.16 | - | - | 42 | GS | MAN | 900 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 58.16 | - | - | 43 | GS | MAN | 60 | SA | n | $\mathrm{n} / \mathrm{a}$ | n | L |
| 58.16 | - | - | 44 | GS | MAN | 160 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{L}, \mathrm{D}$ |
| 58.16 | - | - | 45 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.16 | - | - | 46 | GS | MAN | 140 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 58.16 | - | - | 47 | GS | MAN | 140 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.16 | - | - | 48 | GS | MAN | 140 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.16 | - | - | 49 | GS | MAN | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.16 | - | - | 50 | GS | MET | 8 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 58.16 | - | - | 51 | GS | MET | 40 | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass <br> (g) | Raw Material | Cortex | Temporal Age | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.54 | 7 | - | 1 | CS | PP | 0.2 | OB | n/a | MC | Side-notched | P, M plus |
| 48.54 | 12 | - | 2 | CS | PP | 0.5 | CH | n/a | MC | Side-notched | P, M plus |
| 48.54 | 28 | - | 3 | CS | PP | 1.1 | CH | n/a | EC | Corner-notched | MC (T) plus |
| 48.54 | 44 | - | 4 | CS | PP | 0.5 | CH | n/a | EC | Corner-notched | MC (T) plus |
| 48.54 | 50 | - | 5 | CS | PP | 1.9 | CH | n/a | LA | n/a | C plus |
| 48.54 | 3 | - | 6 | CS | PP | 2.1 | CH | n/a | LA | $\mathrm{n} / \mathrm{a}$ | C plus |
| 48.54 | - | - | 7 | CS | PP | 4.6 | CH | n/a | MA | Duncan-Hanna | C plus |
| 48.54 | 2 | - | 8 | CS | PRE | 1.5 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |
| 48.54 | 37 | - | 9 | CS | PP | 1.9 | CH | n/a | LA | Pelican Lake | M plus |
| 48.54 | 6 | - | 10 | CS | PP | 1.9 | QZ | n/a | LA | Pelican Lake | P plus |
| 48.54 | 1 | - | 11 | CS | PP | 1.2 | CH | $\mathrm{n} / \mathrm{a}$ | LA | Pelican Lake | P plus |
| 48.54 | - | - | 12 | CS | BF | 1.4 | CH | n/a | n/a | n/a | M |
| 48.54 | 39 | - | 13 | CS | BF | 1.4 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |
| 48.54 | 24 | - | 14 | CS | BF | 0.9 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | D plus |
| 48.54 | 17 | - | 15 | CS | BF | 0.7 | CH | n/a | n/a | n/a | D plus |
| 48.54 | 2 | - | 16 | CS | BF | 1.7 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 48.54 | 47 | - | 17 | CS | BF | 10.6 | CH | n/a | n/a | n/a | P plus, possible base of knife |
| 48.54 | - | - | 18 | CS | BF | 1.6 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | M |
| 48.54 | 5 | - | 19 | CS | BF | 2.2 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | MC (P) plus, possible preform |
| 48.54 | - | - | 20 | CS | EMF | 1.7 | CH | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | ND |
| 48.54 | 54 | - | 21 | CS | EMF | 0.3 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 48.54 | 10 | - | 22 | CS | EMF | 0.7 | QZ | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 48.54 | 23 | - | 23 | CS | ES | 3.5 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 48.54 | 25 | - | 24 | CS | EMF | 2.5 | CH | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 48.54 | 53 | - | 25 | CS | MS | 4.2 | CH | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 48.54 | 8 | - | 26 | CR | NAP | 6.6 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 8 | - | 27 | CR | NAP | 8.5 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 52 | - | 28 | CR | NAP | 6.5 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 13 | - | 29 | CR | NAP | 4.1 | n/a | n/a | EC | Cord-marked | R plus |
| 48.54 | 15 | - | 30 | CR | NAP | 2.1 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 21 | - | 31 | CR | NAP | 2.1 | n/a | n/a | EC | Plainware | BO plus |
| 48.54 | 26 | - | 32 | CR | NAP | 2 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 34 | - | 33 | CR | NAP | 1.4 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 52 | - | 34 | CR | NAP | 2.9 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO partial drill hole is present, plus |
| 48.54 | 52 | - | 35 | CR | NAP | 1.4 | n/a | n/a | EC | Cord-marked | BO plus |
| 48.54 | 35 | - | 36 | GS | O | 9.4 | B | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | M plus |
| 48.54 | 31 | - | 37 | CR | NAP | 2.4 | n/a | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |


| 48.54 | 11 | - | 38 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 48.54 | 9 | - | 39 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO plus |
| 48.54 | 43 | - | 40 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 33 | - | 41 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 18 | - | 42 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 9 | - | 43 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 15 | - | 44 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 40 | - | 45 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 4 | - | 46 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 45 | - | 47 | CR | NAP | 1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO plus |
| 48.54 | 381 | - | 48 | CR | NAP | 1.2 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 30 | - | 49 | CR | NAP | 0.7 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | 48 | - | 50 | CR | NAP | 1.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO plus |
| 48.54 | - | - | 51 | CR | NAP | 2.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 52 | CR | NAP | 4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 53 | CR | NAP | 4.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 54 | CR | NAP | 5.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 55 | CR | NAP | 0.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 56 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 57 | CR | NAP | 2.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 58 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 59 | CR | NAP | 0.5 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 60 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 48.54 | - | - | 61 | CR | NAP | 1.4 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Cord-marked | BO |
| 48.54 | - | - | 62 | CR | NAP | 0.1 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | $\mathrm{n} / \mathrm{a}$ | BO |
| 48.54 | - | - | 63 | CR | NAP | 0.3 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | EC | Plainware | BO |
| 48.54 | 42 | - | 64 | GS | MAN | 700 | AN | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.54 | 20 | - | 65 | GS | MAN | 300 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 48.54 | - | - | 66 | GS | MAN | 80 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 48.54 | 46 | - | 67 | GS | MAN | 300 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 48.54 | 51 | - | 68 | GS | MAN | 260 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 48.54 | 29 | - | 69 | GS | MISC. | 940 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 48.54 | 55 | - | 70 | GS | MAN | 540 | QZ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | AE | 1 | CS | ES | 40.5 | PW | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.320 | 22 | - | 2 | CS | CORE | 51.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.320 | - | AE | 3 | CS | CORE | 31.9 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.320 | - | A | 4 | CS | PP | 2.5 | M | n | PH | Metal | D, M |  |
| 38.320 | - | A | 5 | CS | HK | 33.5 | PW | n | n/a | n/a | MC (L) |  |
| 38.320 | - | C | 6 | CS | PP | 2.3 | CH | n | EA | Mount Albion | P |  |
| 38.320 | - | A | 7 | CS | PP | 5.5 | O | n | EA | Mount Albion | P, M "D" |  |
| 38.320 | - | D | 8 | CS | BF | 17.4 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | D, M |  |
| 38.320 | - | AS | 9 | CS | BF | 2.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | MC (L) |  |
| 38.320 | - | B | 10 | CS | BF | 5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |  |
| 38.320 | - | A | 11 | CS | BF | 8.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.320 | - | A | 12 | CS | BF | 7.3 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |  |
| 38.320 | - | A | 13 | CS | BF | 15.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.320 | 23 | - | 14 | CS | BF | 14.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 38.320 | - | - | 15 | CS | BF | 21 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.320 | 9 | - | 16 | CS | BF | 11.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 38.320 | 98 | - | 17 | CS | BF | 9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 38.320 | - | A | 18 | CS | BF | 13.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ |  |
| 38.320 | 105 | C | 19 | CS | BF | 1.3 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 38.320 | - | B | 20 | CS | BF | 1.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.320 | 17 | - | 21 | CS | BF | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 38.320 | 94 | - | 22 | CS | BF | 1.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 38.320 | 63 | - | 23 | CS | BF | 7.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus, "D" |  |
| 38.320 | - | C | 24 | CS | BF | 1.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.320 | - | D | 25 | CS | BF | 13.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |  |
| 38.320 | 11 | - | 26 | CS | BF | 13.6 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |  |
| 38.320 | 114 | - | 27 | CS | BF | 13.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus, "A" |  |
| 38.320 | - | B | 28 | CS | BF | 12.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.320 | - | B | 29 | CS | BF | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |  |
| 38.320 | - | B | 30 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M |  |
| 38.320 | - | A | 31 | CS | BF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.320 | - | A | 32 | CS | BF | 1.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.320 | - | A | 33 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |  |
| 38.320 | - | A | 34 | CS | BF | 3.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.320 | - | C | 35 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |  |
| 38.320 | - | A | 36 | CS | BF | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |  |
| 38.320 | 67 | - | 37 | CS | BF | 4.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |  |


| 38.320 | - | B | 38 | CS | BF | 1.5 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | A | 39 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 40 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | B | 41 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 80 | - | 42 | CS | PRE | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |
| 38.320 | - | A | 43 | CS | PRE | 1.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | A | 44 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | B | 45 | CS | PRE | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | A | 46 | CS | BF | 5.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 38 | - | 47 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.320 | 71 | - | 48 | CS | BF | 7.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 49 | CS | BF | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 12 | - | 50 | CS | BF | 9.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | D | 51 | CS | BF | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M "D" |
| 38.320 | - | A | 52 | CS | BF | 5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 53 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | AN | 54 | CS | BF | 2.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 108 | - | 55 | CS | BF | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 38.320 | - | A | 56 | CS | BF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 57 | CS | BF | 3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 58 | CS | PRE | 2.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 49 | - | 59 | CS | BF | 2.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | 101 | - | 60 | CS | BF | 5.7 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus, "D" |
| 38.320 | - | A | 61 | CS | BF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.320 | - | A | 62 | CS | BF | 8.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | 33 | - | 63 | CS | BF | 5.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | B | 64 | CS | BF | 2.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | - | A | 65 | CS | BF | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | - | A | 66 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | B | 67 | CS | BF | 1.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | 83 | - | 68 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 38.320 | 103 | - | 69 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | A | 70 | CS | BF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | D | 71 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.320 | 30 | - | 72 | CS | PP | 1.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.320 | - | A | 73 | CS | BF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | - | B | 74 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | SW | 75 | CS | BF | 4.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | D | 76 | CS | PRE | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ |


| 38.320 | - | A | 77 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | 42 | - | 78 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | 86 | - | 79 | CS | PRE | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 38.320 | - | B | 80 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | 89 | - | 81 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 38.320 | - | A | 82 | CS | DR | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.320 | - | AS | 83 | CS | DR | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 84 | CS | DR | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 85 | CS | PRE | 0.9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ "D" |
| 38.320 | 2 | - | 86 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.320 | - | B | 87 | CS | PP | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | 32 | - | 88 | CS | PP | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |
| 38.320 | - | A | 89 | CS | PP | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | A | 90 | CS | PP | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (T) "D" |
| 38.320 | 92 | - | 91 | CS | PP | 3.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 38.320 | - | B | 92 | CS | PP | 0.8 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | - | B | 93 | CS | PP | 1.1 | CY | n | MA | McKean | P |
| 38.320 | - | A | 94 | CS | PP | 2.2 | CH | n | MA | McKean | P, M |
| 38.320 | - | B | 95 | CS | PP | 1.5 | CY | n | MA | McKean | P, M |
| 38.320 | - | A | 96 | CS | PP | 2.5 | CH | n | MA | Yonkee | P |
| 38.320 | 60 | - | 97 | CS | PP | 2.2 | CH | n | MA | Duncan-Hanna | C plus |
| 38.320 | - | A | 98 | CS | PP | 2.2 | CH | n | MA | McKean | C |
| 38.320 | - | B | 99 | CS | PP | 3.8 | CH | n | MA | McKean | $\mathrm{MC}(\mathrm{T})$ "D" |
| 38.320 | - | B | 100 | CS | PP | 3.1 | CH | n | MA | McKean | MC (T) |
| 38.320 | 19 | - | 101 | CS | PP | 3.1 | CH | n | MA | McKean | MC (L) plus |
| 38.320 | - | - | 102 | CS | PP | 4.2 | QZ | n | MA | McKean | P |
| 38.320 | 39 | - | 103 | CS | PP | 1.7 | CH | n | MA | Duncan-Hanna | P plus |
| 38.320 | 65 | - | 104 | CS | PP | 1.5 | CY | n | MA | Duncan-Hanna | P , M plus |
| 38.320 | - | AN | 105 | CS | PP | 4.7 | CH | n | MA | McKean | C |
| 38.320 | 31 | - | 106 | CS | PP | 1.3 | CH | n | MA | McKean | C plus |
| 38.320 | - | B | 107 | CS | PP | 2.2 | CH | y | MA | McKean | C |
| 38.320 | - | A | 108 | CS | PP | 0.9 | CH | n | MA | Duncan-Hanna | P |
| 38.320 | - | A | 109 | CS | PP | 1.1 | CH | n | MA | McKean | P "D" |
| 38.320 | - | A | 110 | CS | PP | 1.9 | CH | n | LA | Besant | $\mathrm{MC}(\mathrm{T})$ |
| 38.320 | - | A | 111 | CS | PP | 1.5 | CH | n | LA | Besant | P |
| 38.320 | 52 | - | 112 | CS | PP | 1.7 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.320 | - | A | 113 | CS | PP | 1.5 | CH | n | LA | n/a | C |
| 38.320 | - | D | 114 | CS | PP | 2.8 | CH | n | LA | Pelican Lake | P, M |
| 38.320 | 61 | - | 115 | CS | PP | 3.9 | CH | n | LA | Pelican Lake | C |


| 38.320 | 1 | - | 116 | CS | PP | 2.3 | CH | n | LA | Pelican Lake | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | B | 117 | CS | PP | 2.1 | CH | n | LA | Pelican Lake | MC (T) "D" |
| 38.320 | - | A | 118 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | $\mathrm{MC}(\mathrm{P})$ |
| 38.320 | 26 | - | 119 | CS | PP | 1.9 | CH | n | LA | Pelican Lake | MC (T) |
| 38.320 | - | A | 120 | CS | PP | 1.7 | CY | n | LA | n/a | C |
| 38.320 | - | C | 121 | CS | PP | 1.3 | CH | n | LA | Pelican Lake | MC (T) plus, "D" |
| 38.320 | - | A | 122 | CS | PP | 3 | QZ | n | LA | n/a | MC "D" |
| 38.320 | 88 | - | 123 | CS | PP | 1.4 | CH | n | LA | Pelican Lake | P, M plus |
| 38.320 | - | A | 124 | CS | PP | 2.5 | CH | n | LA | Pelican Lake | P, M |
| 38.320 | - | A | 125 | CS | PP | 2.8 | CH | y | LA | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | 8 | - | 126 | CS | PP | 1.6 | CH | n | LA | Besant | P, M "D" |
| 38.320 | - | A | 127 | CS | BF | 2.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D, M |
| 38.320 | - | A | 128 | CS | PP | 1.7 | QZ | n | LA | Pelican Lake | P, M |
| 38.320 | - | A | 129 | CS | PP | 1.3 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | M "D" |
| 38.320 | - | A | 130 | CS | HK | 4.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | 113 | - | 131 | CS | PP | 1.3 | QZ | n | EC | Corner-notched | MC (P) plus |
| 38.320 | - | A | 132 | CS | PP | 0.7 | CH | n | EC | Corner-notched | MC (T) |
| 38.320 | 55 | - | 133 | CS | PP | 0.7 | CH | n | EC | Corner-notched | $\mathrm{P}, \mathrm{M}$ plus |
| 38.320 | - | - | 134 | CS | PP | 0.5 | CH | n | EC | Corner-notched | P, M |
| 38.320 | 77 | - | 135 | CS | PP | 0.7 | QZ | n | EC | Corner-notched | MC (P) plus |
| 38.320 | - | D | 136 | CS | PP | 1.5 | QZ | n | EC | Corner-notched | M |
| 38.320 | - | B | 137 | CS | PP | 1.3 | CH | n | EC | Corner-notched | C |
| 38.320 | 62 | - | 138 | CS | PP | 0.6 | CH | n | EC | Corner-notched | C plus, "D" |
| 38.320 | - | A | 139 | CS | PP | 1.5 | CH | n | EC | Corner-notched | C |
| 38.320 | - | A | 140 | CS | PP | 0.7 | CH | n | EC | Corner-notched | MC (T) "D" |
| 38.320 | - | - | 141 | CS | PP | 1.2 | CH | n | EC | Corner-notched | C |
| 38.320 | - | A | 142 | CS | ES | 27.8 | B | n | n/a | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 36 | - | 143 | CS | ES | 13 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 38.320 | 74 | - | 144 | CS | ES | 13.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 38.320 | 6 | - | 145 | CS | ES | 23.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 146 | CS | SS | 10.2 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 147 | CS | ES | 19.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 148 | CS | ES | 14.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ |
| 38.320 | 4 | - | 149 | CS | ES | 24.3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 29 | - | 150 | CS | ES | 7.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 72 | - | 151 | CS | ES | 17.4 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | A | 152 | CS | ES | 20.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ |
| 38.320 | - | A | 153 | CS | ES | 10 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 154 | CS | ES | 19.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |


| 38.320 | 89 | - | 155 | CS | ES | 12.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | 3 | - | 156 | CS | ES | 15.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |
| 38.320 | - | B | 157 | CS | ES | 9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 39 | - | 158 | CS | ES | 15.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | B | 159 | CS | ES | 25.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 78 | - | 160 | CS | ES | 19.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | AB | 161 | CS | ES | 10.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 162 | CS | ES | 8.7 | CY | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | D | 163 | CS | ES | 18 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 164 | CS | ES | 10.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | B | 165 | CS | ES | 2.9 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | B | 166 | CS | ES | 8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{P})$ "D" |
| 38.320 | - | A | 167 | CS | ES | 8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 168 | CS | ES | 5.8 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 111 | - | 169 | CS | SS | 14.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 93 | - | 170 | CS | ES | 18.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 38.320 | 112 | - | 171 | CS | ES | 11.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 172 | CS | ES | 14.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) "D" |
| 38.320 | 79 | - | 173 | CS | ES | 14.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus, "D" |
| 38.320 | 25 | - | 174 | CS | ES | 14.6 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 13 | - | 175 | CS | ES | 15.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 176 | CS | ES | 11.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 177 | CS | ES | 21.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 41 | - | 178 | CS | ES | 16.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | A | 179 | CS | MS | 6.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 38.320 | 56 | - | 180 | CS | ES | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 68 | - | 181 | CS | ES | 14.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 182 | CS | ES | 11.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 53 | - | 183 | CS | CV | 9.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 40 | - | 184 | CS | MS | 4.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.320 | 21 | - | 185 | CS | ES | 7.5 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 38.320 | - | A | 186 | CS | ES | 11.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 57 | - | 187 | CS | ES | 15.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 188 | CS | ES | 6.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |
| 38.320 | 54 | - | 189 | CS | ES | 13.1 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |
| 38.320 | 76 | - | 190 | CS | ES | 11.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |
| 38.320 | - | A | 191 | CS | CV | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | B | 192 | CS | MS | 8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.320 | - | A | 193 | CS | ES | 18.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |


| 38.320 | - | A | 194 | CS | ES | 20.8 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | A | 195 | CS | MS | 6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ |
| 38.320 | - | A | 196 | CS | ES | 3.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 197 | CS | MS | 7.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 198 | CS | ES | 7.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 66 | - | 199 | CS | CV | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 200 | CS | ES | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 201 | CS | SS | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 202 | CS | ES | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 15 | - | 203 | CS | EMF | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus, "D" |
| 38.320 | 82 | - | 204 | CS | MS | 6.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 38.320 | - | - | 205 | CS | EMF | 8.5 | B | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | 48 | - | 206 | CS | MS | 10.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | 35 | - | 207 | CS | ES | 6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 38.320 | - | - | 208 | CS | EMF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 209 | CS | SS | 28.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | C | 210 | CS | EMF | 8.2 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M |
| 38.320 | - | A | 211 | CS | MS | 7.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M |
| 38.320 | - | B | 212 | CS | EMF | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 213 | CS | MS | 7.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 214 | CS | MS | 8.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.320 | 16 | - | 215 | CS | ES | 5.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 38.320 | - | A | 216 | CS | MS | 6.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | B | 217 | CS | MS | 5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | B | 218 | CS | ES | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 219 | CS | ES | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |
| 38.320 | - | A | 220 | CS | MS | 5.5 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 38.320 | - | A | 221 | CS | EMF | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C "D" |
| 38.320 | 104 | - | 222 | CS | ES | 5.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 38.320 | - | C | 223 | CS | MS | 11.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 224 | CS | ES | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 225 | CS | ES | 3.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D "D" |
| 38.320 | - | - | 226 | CS | ES | 4.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | - | 227 | CS | SS | 5.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 228 | CS | EMF | 3.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.320 | - | A | 229 | CS | ES | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 18 | - | 230 | CS | EMF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 38.320 | - | A | 231 | CS | MS | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 38.320 | - | A | 232 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND "D" |


| 38.320 | - | A | 233 | CS | HAM | 240 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | A | 234 | CS | HAM | 320 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 235 | GS | HAM | 120 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 236 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 237 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 238 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 239 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 240 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 241 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 242 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 243 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 244 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 245 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 246 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 247 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 248 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 249 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 115 | - | 250 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 251 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 252 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 253 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 254 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 255 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 256 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 257 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 258 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 259 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | C | 260 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 106 | - | 261 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 37 | - | 262 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 64 | - | 263 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 47 | - | 264 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 265 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | B | 266 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 267 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | B | 268 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 269 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | E | 270 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 85 | - | 271 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |


| 38.320 | 84 | - | 272 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | 309 | - | 273 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 274 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 96 | - | 275 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 81 | - | 276 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 277 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | 97 | - | 278 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 279 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 90 | - | 280 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 281 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 282 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | - | 283 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | B | 284 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | 91 | - | 285 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 286 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | B | 287 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 288 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 289 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 38.320 | - | A | 290 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 291 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 38.320 | - | A | 292 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 293 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 294 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 295 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 296 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 297 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 298 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 299 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | A | 300 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | 5 | - | 301 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 302 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 303 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 304 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 305 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 306 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 307 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 308 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 309 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 38.320 | - | B | 310 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 38.320 | - | B | 311 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38.320 | - | B | 312 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 313 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 314 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 315 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 316 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 317 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |
| 38.320 | - | B | 318 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw Material | Cortex | Temporal Age | Type |  | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 62.96 | - | A | 1 | CS | MS | 38.4 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 62.96 | 86 | - | 2 | CS | BF | 69.9 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 86 | - | 3 | CS | BF | 89.4 | CH | y | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 86 | - | 4 | CS | BF | 187.6 | CH | y | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 86 | - | 5 | CS | BF | 130.9 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 86 | - | 6 | CS | BF | 63.8 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 29 | - | 7 | CS | ES | 4.8 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 16 | - | 8 | CS | ES | 18.8 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 92 | - | 9 | CS | SS | 6.3 | QZ | y | n/a |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 50 | - | 10 | CS | CV | 19.2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 34 | - | 11 | CS | ES | 8.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 7 | - | 12 | CS | ES | 6.2 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | MC (T) plus |  |
| 62.96 | 84 | - | 13 | CS | ES | 16.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 15 | - | 14 | CS | ES | 13 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 72 | A | 15 | CS | ES | 11.8 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 3 | - | 16 | CS | ES | 6.8 | CY | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 59 | - | 17 | CS | ES | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 49 | - | 18 | CS | BF | 4.4 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 62.96 | 77 | - | 19 | CS | MS | 3.8 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | M plus, "D" |  |
| 62.96 | 23 | - | 20 | CS | ES | 3.1 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 63 | - | 21 | CS | ES | 6 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | D plus, "A" |  |
| 62.96 | 48 | - | 22 | CS | EMF | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 1 | - | 23 | CS | EMF | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 62.96 | 32 | - | 24 | CS | MS | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 62.96 | 69 | - | 25 | CS | EMF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus, "A" |  |
| 62.96 | 41 | - | 26 | CS | MS | 4.8 | CY | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 62.96 | 31 | - | 27 | CS | EMF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 62.96 | 30 | - | 28 | CS | EMF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 62.96 | 20 | - | 29 | CS | EMF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 62.96 | 61 | - | 30 | CS | EMF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus, "A" |  |
| 62.96 | 71 | - | 31 | CS | BF | 14.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus, "A" |  |
| 62.96 | 8 | - | 32 | CS | BF | 33.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 93 | - | 33 | CS | BF | 7.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 26 | - | 34 | CS | BF | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 62.96 | 60 | A | 35 | CS | BF | 7 | QZ | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 62.96 | 70 | A | 36 | CS | PP | 2.7 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 62.96 | 66 | - | 37 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |  |


| 62.96 | 52 | - | 38 | CS | PP | 3 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 62.96 | 35 | - | 39 | CS | PP | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 40 | - | 40 | CS | BF | 2.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 53 | - | 41 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 69 | - | 42 | CS | BF | 4.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 62.96 | 73 | A | 43 | CS | BF | 3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 62.96 | - | B | 44 | CS | BF | 8.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P "D" |
| 62.96 | 58 | A | 45 | CS | BF | 4.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus, "D" |
| 62.96 | 51 | - | 46 | CS | BF | 5.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 62.96 | 43 | - | 47 | CS | BF | 2.5 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 1 | - | 48 | CS | BF | 4.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 62.96 | 28 | - | 49 | CS | BF | 1.6 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 91 | - | 50 | CS | BF | 0.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 62.96 | 27 | - | 51 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 62.96 | 46 | - | 52 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 78 | - | 53 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 82 | - | 54 | CS | EMF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 62.96 | 28 | - | 55 | CS | BF | 0.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 62.96 | 39 | - | 56 | CS | HK | 4.4 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 62.96 | 64 | - | 57 | CS | PP | 6 | CH | n | MA | Yonkee | P, M plus, "A" |
| 62.96 | 68 | - | 58 | CS | PP | 4.2 | QZ | n | MA | Duncan-Hanna | C plus, "A" |
| 62.96 | 65 | - | 59 | CS | PP | 3 | CH | n | MA | Duncan-Hanna | C plus, "A" |
| 62.96 | 67 | - | 60 | CS | BF | 2 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus, "A" |
| 62.96 | 76 | - | 61 | CS | PP | 1.7 | CH | y | LA | Pelican Lake | M plus |
| 62.96 | 37 | - | 62 | CS | PP | 2.1 | CH | n | LA | Pelican Lake | D, M plus, two refitting pieces |
| 62.96 | 83 | - | 63 | CS | PP | 0.8 | CH | n | LA | Pelican Lake | P, M plus, "D" |
| 62.96 | 6 | - | 64 | CS | PP | 1.1 | CH | n | LA | Pelican Lake | MC (L) plus |
| 62.96 | 25 | - | 65 | CS | PP | 0.8 | CH | n | LA | Pelican Lake | MC (P) plus |
| 62.96 | 47 | - | 66 | CS | PP | 0.9 | QZ | n | EC | Corner-notched | C plus |
| 62.96 | 17 | - | 67 | CS | PP | 0.8 | QZ | n | EC | Corner-notched | C plus |
| 62.96 | 85 | - | 68 | CS | PP | 0.5 | CY | n | EC | Corner-notched | MC (T) plus |
| 62.96 | 42 | - | 69 | CS | PP | 0.9 | CH | n | EC | Corner-notched | MC (P) plus |
| 62.96 | 45 | - | 70 | CS | PP | 1 | CH | n | EC | Corner-notched | MC (L) plus |
| 62.96 | 11 | - | 71 | CS | PP | 0.4 | QZ | n | MC | Side-notched | P plus |
| 62.96 | 5 | - | 72 | CS | PP | 1.5 | QZ | n | MC | Side-notched | $\mathrm{P}, \mathrm{M}$ plus |
| 62.96 | 88 | - | 73 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 74 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | 13 | - | 75 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 62.96 | 94 | - | 76 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |


| 62.96 | - | A | 77 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 62.96 | - | A | 78 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | 38 | - | 79 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | 56 | - | 80 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 62.96 | 18 | - | 81 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 62.96 | 74 | - | 82 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) |
| 62.96 | 87 | - | 83 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | 19 | - | 84 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 62.96 | 4 | - | 85 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 86 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | 54 | - | 87 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) |
| 62.96 | - | A | 88 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 89 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 90 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 91 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 92 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 93 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 94 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 95 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 96 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 97 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 98 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 99 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 100 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 101 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 102 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 103 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 104 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 105 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 106 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 107 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 108 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 109 | GS | MISC | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 110 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 111 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 112 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 113 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 114 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 62.96 | - | A | 115 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass <br> (g) | Raw <br> Material | Cortex | Temporal Age | Type | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | 158 | - | 1 | CS | HK | 14.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (P) plus |  |
| 61.78 | 174 | - | 2 | CS | GRV | 4.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 61.78 | 75 | - | 3 | CS | PP | 2.9 | CH | n | LP | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 61.78 | 34 | - | 4 | CS | PP | 3.6 | QZ | n | EA | Mount Albion | P plus |  |
| 61.78 | 33 | - | 5 | CS | PP | 2.6 | CH | n | MA | Mallory | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 48 | - | 6 | CS | PP | 6.9 | QZ | n | MA | Duncan-Hanna | C plus |  |
| 61.78 | 51 | - | 7 | CS | PP | 3.7 | QZ | n | MA | Duncan-Hanna | MC (T) plus |  |
| 61.78 | 143 | - | 8 | CS | PP | 5.1 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 83 | - | 9 | CS | PP | 2.7 | QZ | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 130 | D | 10 | CS | PP | 0.9 | CH | n | LA | Pelican Lake | MC (L) plus |  |
| 61.78 | 140 | D | 11 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 112 | D | 12 | CS | PP | 2.5 | CH | y | LA | Besant | MC (T) plus |  |
| 61.78 | 63 | - | 13 | CS | PP | 2 | CH | n | LA | Besant | C plus |  |
| 61.78 | 54 | - | 14 | CS | PP | 3.3 | CH | n | LA | Besant | MC (T) plus |  |
| 61.78 | 145 | D | 15 | CS | PP | 3.5 | QZ | n | LA | Besant | C plus |  |
| 61.78 | 108 | - | 16 | CS | PP | 5.7 | CH | n | MA | Yonkee | MC (L) plus |  |
| 61.78 | 55 | D | 17 | CS | PP | 1 | CH | n | LA | Pelican Lake | D, M plus |  |
| 61.78 | 78 | - | 18 | CS | PP | 1.3 | CH | n | LA | Pelican Lake | C plus |  |
| 61.78 | 132 | - | 19 | CS | PP | 2.6 | B | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 19 | - | 20 | CS | PP | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 61.78 | 103 | - | 21 | CS | PP | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 61.78 | 127 | D | 22 | CS | PP | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 61.78 | 59 | - | 23 | CS | PP | 0.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 61.78 | 86 | - | 24 | CS | PP | 0.3 | CH | n | MC | Side-notched | P plus |  |
| 61.78 | 113 | D | 25 | CS | PP | 0.8 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 84 | - | 26 | CS | PP | 1.3 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |  |
| 61.78 | 98 | D | 27 | CS | PP | 0.6 | CH | n | LA | Pelican Lake | MC (T) plus |  |
| 61.78 | 113 | - | 28 | CS | PP | 1.4 | PW | n | LA | Pelican Lake | MC (T) plus |  |
| 61.78 | 144 | - | 29 | CS | PP | 0.5 | PW | n | LA | Pelican Lake | C plus |  |
| 61.78 | 91 | D | 30 | CS | PP | 0.5 | CH | n | EC | Corner-notched | MC (T) plus |  |
| 61.78 | 100 | - | 31 | CS | PP | 0.6 | CH | n | EC | Corner-notched | MC (T) plus |  |
| 61.78 | 21 | D | 32 | CS | PP | 0.4 | CH | n | EC | Corner-notched | P, M plus |  |
| 61.78 | 107 | - | 33 | CS | PP | 0.8 | CY | n | EC | Corner-notched | D, M plus |  |
| 61.78 | 46 | D | 34 | CS | PP | 1 | CH | n | EC | Corner-notched | MC (T) plus |  |
| 61.78 | 60 | D | 35 | CS | PP | 0.7 | CH | n | EC | Corner-notched | MC (L) plus |  |
| 61.78 | 65 | D | 36 | CS | PP | 0.7 | PW | n | EC | Corner-notched | MC (D) plus |  |
| 61.78 | 69 | - | 37 | CS | PP | 0.7 | CY | n | EC | Corner-notched | MC (L) plus |  |


| 61.78 | 139 | - | 38 | CS | PP | 0.5 | CH | n | EC | Corner-notched | MC (T) plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | 126 | - | 39 | CS | PP | 0.4 | CH | n | EC | Corner-notched | MC (T) plus |
| 61.78 | 114 | - | 40 | CS | PP | 0.8 | PW | n | EC | Corner-notched | MC (D) plus |
| 61.78 | 32 | - | 41 | CS | PP | 0.5 | CY | n | EC | Corner-notched | C plus |
| 61.78 | 123 | - | 42 | CS | PP | 0.3 | PW | n | EC | Corner-notched | M, P plus |
| 61.78 | 129 | D | 43 | CS | PP | 0.5 | PW | n | EC | Corner-notched | MC (L) plus |
| 61.78 | 151 | - | 44 | CS | PP | 0.6 | CH | n | EC | Corner-notched | D, M plus |
| 61.78 | 169 | - | 45 | CS | PP | 0.5 | CH | n | EC | Corner-notched | P, M plus |
| 61.78 | 38 | D | 46 | CS | PP | 0.5 | CY | n | EC | Corner-notched | MC (L) plus |
| 61.78 | 58 | - | 47 | CS | PP | 0.8 | CH | n | EC | Corner-notched | D, M |
| 61.78 | 24 | - | 48 | CS | PP | 1.3 | PW | n | EC | Corner-notched | MC (P) plus |
| 61.78 | 142 | - | 49 | CS | PP | 0.6 | CY | n | EC | Corner-notched | C plus |
| 61.78 | 1 | - | 50 | CS | PP | 0.6 | CY | n | EC | Corner-notched | C plus |
| 61.78 | 4 | D | 51 | CS | ES | 4.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 124 | - | 52 | CS | ES | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 27 | - | 53 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 104 | - | 54 | CS | ES | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 88 | - | 55 | CS | ES | 6.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 89 | D | 56 | CS | CV | 5.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 163 | D | 57 | CS | ES | 10.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 28 | - | 58 | CS | ES | 5.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | - | - | 59 | CS | ES | 4.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 96 | - | 60 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 152 | D | 61 | CS | ES | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 133 | - | 62 | CS | ES | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | - | - | 63 | CS | MS | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 61.78 | 138 | - | 64 | CS | ES | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | - | - | 65 | CS | ES | 1.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 61.78 | 97 | D | 66 | CS | ES | 3.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | 2 | - | 67 | CS | ES | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | - | - | 68 | CS | ES | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 61.78 | 66 | D | 69 | CS | ES | 2.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 101 | - | 70 | CS | SS | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 93 | - | 71 | CS | ES | 3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 148 | - | 72 | CS | ES | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.78 | 134 | - | 73 | CS | EMF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 36 | - | 74 | CS | EMF | 12.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | - | - | 75 | CS | EMF | 4.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 61.78 | 30 | - | 76 | CS | EMF | 2.9 | PW | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |


| 61.78 | - | - | 77 | CS | EMF | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | 5 | - | 78 | CS | EMF | 1.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 152 | - | 79 | CS | EMF | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | - | - | 80 | CS | EMF | 1.6 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 61.78 | 53 | D | 81 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 131 | - | 82 | CS | EMF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 17 | - | 83 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 141 | - | 84 | CS | BF | 3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 137 | - | 85 | CS | BF | 2.3 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 110 | - | 86 | CS | BF | 4.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 95 | - | 87 | CS | BF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 162 | - | 88 | CS | BF | 7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 150 | D | 89 | CS | BF | 11.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | - | - | 90 | CS | BF | 6.8 | CZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 165 | - | 91 | CS | BF | 11.5 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.78 | 41 | - | 92 | CS | BF | 8.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (L) plus |
| 61.78 | 67 | - | 93 | CS | BF | 6.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 10 | - | 94 | CS | BF | 1.6 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 56 | - | 95 | CS | BF | 1.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | - | - | 96 | CS | BF | 8.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 61.78 | 166 | - | 97 | CS | BF | 1.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 61.78 | 90 | - | 98 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 42 | - | 99 | CS | BF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 64 | - | 100 | CS | BF | 13.2 | QZ | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 155 | - | 101 | CS | BF | 1.6 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 119 | - | 102 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 61 | - | 103 | CS | BF | 2.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | - | - | 104 | CS | BF | 5.2 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 61.78 | 117 | D | 105 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 8 | - | 106 | CS | BF | 3.6 | QU | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 12 | - | 107 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 47 | - | 108 | CS | BF | 3.8 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 160 | - | 109 | CS | PRE | 1.3 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 61.78 | 52 | - | 110 | CS | BF | 0.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 74 | D | 111 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 125 | - | 112 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | - | D | 113 | CS | BF | 1.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 61.78 | 109 | - | 114 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 31 | D | 115 | CS | PRE | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |

| 61.78 | 82 | - | 116 | CS | BF | 0.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | - | - | 117 | CS | PRE | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 61.78 | 80 | - | 118 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 72 | - | 119 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 61.78 | 9 | - | 120 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 111 | D | 121 | CS | PRE | 0.7 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 25 | - | 122 | CS | BF | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| 61.78 | `116 | - | 123 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 61.78 | 128 | - | 124 | CS | BF | 0.8 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.78 | 26 | D | 125 | CS | PRE | 0.9 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.78 | 120 | - | 126 | CS | BF | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 3 | - | 127 | CS | BF | 0.4 | CY | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.78 | 20 | - | 128 | CR | NAP | 3.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 129 | CR | NAP | 4.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 130 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 131 | CR | NAP | 4.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 132 | CR | NAP | 6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 40 | - | 133 | CR | NAP | 12.5 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 134 | CR | NAP | 5.4 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 135 | CR | NAP | 5.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 136 | CR | NAP | 3.9 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 35 | - | 137 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | 147 | - | 138 | CR | NAP | 5.4 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 139 | CR | NAP | 3.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 140 | CR | NAP | 6.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 141 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 142 | CR | NAP | 2.5 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 159 | - | 143 | CR | NAP | 2.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 144 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 145 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 146 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 16 | - | 147 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 148 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 149 | CR | NAP | 1.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 168 | - | 150 | CR | NAP | 4.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 151 | CR | NAP | 4.1 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 152 | CR | NAP | 3.8 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 153 | CR | NAP | 3.2 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 154 | CR | NAP | 3.9 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |

| 61.78 | - | - | 155 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | - | - | 156 | CR | NAP | 3.7 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 157 | CR | NAP | 2.2 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 13 | - | 158 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 159 | CR | NAP | 4 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 160 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 161 | CR | NAP | 2.9 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 162 | CR | NAP | 1.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 163 | CR | NAP | 2.7 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 164 | CR | NAP | 3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 165 | CR | NAP | 3.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 15 | - | 166 | CR | NAP | 2.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 167 | CR | NAP | 2 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 20 | - | 168 | CR | NAP | 2.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO plus |
| 61.78 | - | - | 169 | CR | NAP | 0.9 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 170 | CR | NAP | 1.3 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 171 | CR | NAP | 0.6 | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 172 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 173 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 174 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 175 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 176 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 177 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 178 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 179 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 180 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 181 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | - | - | 182 | CR | NAP | - | $\mathrm{n} / \mathrm{a}$ | n | EC | Cord-marked | BO |
| 61.78 | 45 | - | 183 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 99 | - | 184 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 102 | - | 185 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 186 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 187 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 188 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 189 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 190 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 61.78 | - | - | 191 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 192 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 193 | GS | MAN | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| 61.78 | - | - | 194 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.78 | - | - | 195 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | 15 | - | 196 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | 62 | - | 197 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | 22 | - | 198 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | - | - | 199 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 200 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 201 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 202 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 203 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 204 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 205 | GS | GRD | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 206 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 207 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 208 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 209 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 210 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 211 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 212 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 213 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 214 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 215 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 216 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | - | - | 217 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 79 | - | 218 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 77 | - | 219 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 99 | - | 220 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 43 | - | 221 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 81 | - | 222 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 11 | - | 223 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 121 | - | 224 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 68 | - | 225 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 170 | - | 226 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 61.78 | 135 | - | 227 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 57 | - | 228 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 61.78 | 167 | - | 229 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 61.78 | 105 | - | 230 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.78 | 63 | - | 231 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 61.78 | 37 | - | 232 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |

$\begin{array}{llllllllllll}61.78 & 7 & - & 233 & \text { GS } & \text { MAN } & - & \text { GR } & n & n / a & \mathrm{n} / \mathrm{a} & \text { MC (D) }\end{array}$

| Site | Specimen \# | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw Material | Cortex | Temporal Age | Type | Portion Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.63 | 34 | - | 1 | CS | MS | 8.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (T) plus |
| 61.64 | 11 | - | 2 | CS | CV | 5.7 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.71 | 3 | - | 3 | CS | MS | 13.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.66 | - | - | 4 | CS | ES | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.66 | 6 | - | 5 | CS | ES | 6.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.64 | 10 | - | 6 | CS | ES | 7.3 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.67 | 5 | - | 7 | CS | ES | 6.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.68 | 5 | - | 8 | CS | ES | 5.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.68 | 3 | - | 9 | CS | ES | 6.3 | CH | n | n/a | n/a | D plus |
| 61.64 | 18 | - | 10 | CS | CV | 22.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 61.67 | 10 | - | 11 | CS | EMF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 61.64 | 17 | - | 12 | CS | EMF | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus |
| 61.70 | 2 | - | 13 | CS | EMF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus, "D" |
| 61.63 | 25 | - | 14 | CS | EMF | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.64 | 7 | - | 15 | CS | MS | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 61.63 | 18 | - | 16 | CS | MS | 15 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.63 | 32 | - | 17 | CS | MS | 10 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus, "D" |
| 61.635 | 57 | - | 18 | CS | MS | 2.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.70 | 2 | - | 19 | CS | MS | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | ND plus, "D" |
| 61.635 | 51 | - | 20 | CS | ES | 7.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.635 | 60 | - | 21 | CS | ES | 9 | CH | y | n/a | n/a | C plus, "D" |
| 61.63 | 45 | - | 22 | CS | ES | 3 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.67 | 6 | - | 23 | CS | ES | 4.2 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.68 | 2 | - | 24 | CS | ES | 9.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.635 | 59 | - | 25 | CS | ES | 4 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.64 | 2 | - | 26 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 61.64 | 23 | - | 27 | CS | ES | 3.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| 61.63 | 8 | - | 28 | CS | ES | 3.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.63 | 26 | - | 29 | CS | ES | 4.9 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | C plus |
| 61.67 | 8 | - | 30 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 61.64 | 12 | - | 31 | CS | ES | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 61.64 | 25 | N | 32 | CS | BF | 9.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| 61.63 | 20 | - | 33 | CS | BF | 9.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| 61.67 | 3 | - | 34 | CS | BF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.635 | 54 | - | 35 | CS | BF | 1.1 | CH | n | n/a | n/a | D plus |
| 61.66 | 5 | - | 36 | CS | BF | 27.8 | PW | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus, refits with CMPA \#41 |
| 61.64 | 6 | - | 37 | CS | BF | 7.2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |


| 61.63 | 11 | - | 38 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.63 | 9 | - | 39 | CS | BF | 3.4 | PW | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (D) plus |
| 61.63 | 27 | - | 40 | CS | BF | 5 | CH | n | n /a | $\mathrm{n} / \mathrm{a}$ | C plus, "D" |
| 61.66 | 4 | - | 41 | CS | BF | 29.7 | PW | n | n/a | n /a | P plus, refits with CMPA \#36 |
| 61.66 | 8 | - | 42 | CS | BF | 30 | CH | n | n/a | n /a | P plus |
| 61.66 | 1 | - | 43 | CS | BF | 2.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.68 | 6 | - | 44 | CS | BF | 13.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | MC (P) plus |
| 61.635 | 56 | - | 45 | CS | BF | 16.9 | CH | n | n/a | n /a | D plus, "D" |
| 61.68 | 1 | - | 46 | CS | BF | 11.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.63 | 17 | - | 47 | CS | BF | 7 | CH | n | n /a | n /a | P plus |
| 61.66 | 19 | - | 48 | CS | BF | 2 | CH | n | n/a | n/a | M plus |
| 61.64 | 13 | - | 49 | CS | BF | 1.2 | QZ | n | n /a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.63 | 14 | - | 50 | CS | BF | 2.5 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.63 | 12 | - | 51 | CS | BF | 3.6 | QZ | n | n/a | n/a | D plus |
| 61.64 | 14 | - | 52 | CS | BF | 4.1 | QZ | n | n/a | n /a | M plus |
| 61.66 | 2 | - | 53 | CS | BF | 2.9 | CH | n | n/a | n/a | P plus |
| 61.635 | 53 | - | 54 | CS | BF | 0.8 | QZ | n | n /a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.64 | 24 | - | 55 | CS | BF | 1.1 | CH | n | n/a | n /a | P plus |
| 61.63 | 10 | - | 56 | CS | BF | 0.5 | CH | n | n /a | n /a | ND plus |
| 61.63 | 49 | - | 57 | CS | BF | 1.2 | CH | n | n/a | n/a | P plus |
| 61.64 | 16 | - | 58 | CS | BF | 4.8 | QZ | n | n/a | n/a | P plus, "D" |
| 61.69 | 1 | - | 59 | CS | BF | 1.2 | CH | n | n/a | n/a | P plus, "D" |
| 61.71 | 1 | - | 60 | CS | BF | 0.9 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 61.67 | 16 | - | 61 | CS | PP | 0.4 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.63 | 46 | - | 62 | CS | PP | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus |
| 61.63 | 5 | - | 63 | CS | PP | 2.7 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 61.63 | 1 | - | 64 | CS | PP | 0.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 61.70 | 4 | - | 65 | CS | PP | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, M plus, "D" |
| 61.67 | 7 | - | 66 | CS | PP | 8.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P , M plus, possible paleo |
| 61.66 | 3 | - | 67 | CS | PP | 2.2 | CH | n | MA | Yonkee | P plus |
| 61.63 | 37 | - | 68 | CS | PP | 3.8 | CH | n | MA | McKean | C plus |
| 61.68 | 4 | - | 69 | CS | PP | 3.1 | CH | n | MA | Duncan-Hanna | MC (T) plus |
| 61.63 | 13 | - | 70 | CS | PP | 1.8 | CH | n | LA | Pelican Lake | M plus |
| 61.66 | 13 | - | 71 | CS | PP | 0.9 | CH | n | LA | Pelican Lake | D, M plus |
| 61.63 | 50 | - | 72 | CS | PP | 1.2 | CH | n | MA | Yonkee | P plus |
| 66.67 | 4 | - | 73 | CS | PP | 2.1 | CH | n | LA | Pelican Lake | MC plus |
| 61.63 | 47 | - | 74 | CS | PP | 0.8 | CH | n | LA | Pelican Lake | P plus |
| 61.69 | 3 | - | 75 | CS | PP | 1.2 | CH | n | LA | Pelican Lake | P plus, "D" |
| 61.63 | 2 | - | 76 | CS | PP | 2.8 | CH | n | LA | Pelican Lake | D, M plus |


| 61.63 | 3 | - | 77 | CS | PP | 5.2 | PW | n | LA | Pelican Lake | C plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61.635 | 52 | - | 78 | CS | PP | 4.2 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |
| 61.63 | 61 | - | 79 | CS | PP | 2.7 | B | n | LA | Pelican Lake | C plus |
| 61.63 | 7 | - | 80 | CS | PP | 3.1 | CH | n | LA | Pelican Lake | M plus |
| 61.64 | 5 | - | 81 | CS | PP | 2 | CH | n | LA | Pelican Lake | MC (T) plus |
| 61.70 | 3 | - | 82 | CS | PP | 1 | CH | n | LA | Pelican Lake | P plus |
| 61.64 | 22 | - | 83 | CS | PP | 2 | CH | n | LA | n/a | $\mathrm{P}, \mathrm{M}$ plus |
| 61.65 | 3 | - | 84 | CS | PP | 3.2 | CH | n | LA | n/a | MC (T) plus |
| 61.63 | 33 | - | 85 | CS | PP | 2.7 | PW | n | LA | Pelican Lake | MC (L) plus |
| 61.66 | 7 | - | 86 | CS | PP | 5.3 | CH | n | LA | Besant | MC (T) plus |
| 61.63 | 35 | - | 87 | CS | PP | 1.7 | CY | n | LA | Pelican Lake | MC (L) plus |
| 61.63 | 4 | - | 88 | CS | PP | 1.6 | CH | n | LA | Pelican Lake | P, M plus |
| 61.67 | 11 | - | 89 | CS | PP | 2.9 | CH | n | LA | Besant | C plus |
| 61.63 | 38 | - | 90 | CS | PP | 1.2 | CH | n | MC | Unnotched | C plus |
| 61.64 | 19 | - | 91 | CS | DR | 4.6 | CH | n | n/a | n/a | MC (T) plus |
| 61.64 | 20 | - | 92 | CR | NAP | 2.6 | n/a | n | EC | Plainware | BO plus |
| 61.64 | - | - | 93 | GS | MET | 5 | SA | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | L |
| 61.66 | - | - | 94 | GS | MET | 4 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.66 | - | - | 95 | GS | GRD | 8 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.66 | - | - | 96 | GS | GRD | 8 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 61.63 | 40 | - | 97 | GS | MET | 340 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 61.63 | 24 | - | 98 | GS | MET | 80 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 61.63 | 21 | - | 99 | GS | MET | 8 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.63 | 1 | B | 100 | GS | MET | 80 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 61.63 | 39 | - | 101 | GS | MET | 20 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.63 | 28 | - | 102 | GS | MET | 20 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 61.63 | 23 | - | 103 | GS | MET | 40 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 6.63 | 48 | - | 104 | GS | MAN | 200 | SA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |


| Site | $\begin{gathered} \text { Specimen } \\ \# \end{gathered}$ | Collection Zone | CMPA \# | Class | Element | Mass (g) | Raw <br> Material | Cortex | Temporal Age | Type |  | Portion | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.13 | - | - | 1 | CS | ES | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.13 | 112 | - | 2 | CS | ES | 2.2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | 59 | - | 3 | CS | ES | 2.1 | CY | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 4 | CS | ES | 3.4 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.13 | 151 | - | 5 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | 88 | - | 6 | CS | ES | 10 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | - | - | 7 | CS | ES | 12.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.13 | 49 | - | 8 | CS | ES | 5.8 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | 134 | - | 9 | CS | ES | 7.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 10 | CS | ES | 6.3 | CH | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.13 | 135 | - | 11 | CS | BF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | 107 | - | 12 | CS | BF | 3.3 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | 24 | - | 13 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | 117 | - | 14 | CS | BF | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | 131 | - | 15 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | M plus |  |
| 15.13 | 13 | - | 16 | CS | BF | 6.4 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 17 | CS | BF | 4.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P |  |
| 15.13 | 7 | - | 18 | CS | PRE | 2.2 | CH | n | n/a |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 19 | CS | BF | 6.8 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.13 | - | - | 20 | CS | BF | 21.1 | PW | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C |  |
| 15.13 | 133 | - | 21 | CS | ES | 2.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | - | - | 22 | CS | ES | 2.2 | CY | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.13 | 47 | - | 23 | CS | ES | 2.3 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D plus |  |
| 15.13 | 132 | - | 24 | CS | EMF | 2.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 25 | CS | ES | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D |  |
| 15.13 | 60 | - | 26 | CS | ES | 2.9 | QZ | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 27 | CS | MS | 10.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND |  |
| 15.13 | 19 | - | 28 | CS | MS | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.13 | 57 | - | 29 | CS | MS | 1.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D, M plus |  |
| 15.13 | 103 | - | 30 | CS | MS | 4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | D, M plus |  |
| 15.13 | 86 | - | 31 | CS | EMF | 2.9 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | P plus |  |
| 15.13 | 65 | - | 32 | CS | MS | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.13 | 8 | - | 33 | CS | MS | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.13 | 95 | - | 34 | CS | MS | 4.8 | CY | y | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.13 | 29 | - | 35 | CS | MS | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND plus |  |
| 15.13 | 3 | - | 36 | CS | SS | 5.6 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | C plus |  |
| 15.13 | - | - | 37 | CS | MS | 3.4 | CH | n | $\mathrm{n} / \mathrm{a}$ |  | $\mathrm{n} / \mathrm{a}$ | ND |  |


| 15.13 | - | - | 38 | CS | MS | 1.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.13 | 138 | - | 39 | CS | MS | 0.5 | PW | n | n/a | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.13 | 142 | - | 40 | CS | EMF | 13.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.13 | - | - | 41 | CS | EMF | 1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | - | - | 42 | CS | EMF | 2.2 | CH | n | n/a | n/a | ND |
| 15.13 | - | - | 43 | CS | EMF | 3 | CH | n | n/a | n/a | ND |
| 15.13 | 53 | - | 44 | CS | EMF | 4.9 | QZ | n | n/a | n/a | C plus |
| 15.13 | - | - | 45 | CS | EMF | 2.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | M |
| 15.13 | 124 | - | 46 | CS | EMF | 0.8 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND plus |
| 15.13 | 71 | - | 47 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 125 | - | 48 | CS | BF | 1.9 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | - | - | 49 | CS | BF | 1.6 | CH | n | n/a | n/a | P |
| 15.13 | 32 | - | 50 | CS | BF | 5.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | - | - | 51 | CS | MS | 10.5 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | P, M |
| 15.13 | - | - | 52 | CS | BF | 11.9 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | P |
| 15.13 | 145 | - | 53 | CS | BF | 5.7 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 20 | - | 54 | CS | BF | 3.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | - | - | 55 | CS | BF | 0.8 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | 123 | - | 56 | CS | BF | 4.9 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | MC (T) plus |
| 15.13 | 119 | - | 57 | CS | BF | 0.5 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | - | - | 58 | CS | BF | 4.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | 45 | - | 59 | CS | BF | 2.6 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 152 | - | 60 | CS | BF | 2.6 | CY | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.13 | - | - | 61 | CS | BF | 3.1 | CH | n | n/a | n/a | D |
| 15.13 | 99 | - | 62 | CS | BF | 0.9 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus, "D" |
| 15.13 | 20 | - | 63 | CS | BF | 5.6 | PW | y | n/a | n/a | P plus |
| 15.13 | 67 | - | 64 | CS | BF | 0.1 | CH | n | n/a | n/a | D plus |
| 15.13 | 84 | - | 65 | CS | BF | 4.1 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 108 | - | 66 | CS | BF | 0.4 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 16 | - | 67 | CS | BF | 0.4 | CH | y | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 129 | - | 68 | CS | BF | 4.3 | QZ | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 111 | - | 69 | CS | BF | 1.3 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 82 | - | 70 | CS | BF | 3.3 | CH | n | n/a | n/a | M plus, "C" |
| 15.13 | 153 | - | 71 | CS | EMF | 2 | CH | n | n/a | $\mathrm{n} / \mathrm{a}$ | C plus |
| 15.13 | - | - | 72 | CS | EMF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | ND |
| 15.13 | 27 | - | 73 | CS | BF | 3.4 | CY | n | n/a | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 35 | - | 74 | CS | BF | 1.8 | PW | n | n/a | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 51 | - | 75 | CS | BF | 1.8 | CH | y | n/a | n/a | D plus |
| 15.13 | 113 | - | 76 | CS | BF | 2.7 | CH | n | n/a | n/a | $\mathrm{MC}(\mathrm{T})$ plus |


| 15.13 | 159 | - | 77 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.13 | 40 | - | 78 | CS | BF | 3.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P plus |
| 15.13 | 73 | - | 79 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 148 | - | 80 | CS | BF | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | - | - | 81 | CS | BF | 1.3 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | 22 | - | 82 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 149 | - | 83 | CS | BF | 0.3 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 110 | - | 84 | CS | BF | 0.9 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | - | - | 85 | CS | BF | 0.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P |
| 15.13 | 26 | - | 86 | CS | BF | 1.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | M plus |
| 15.13 | 62 | - | 87 | CS | BF | 1.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 17 | - | 88 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | - | - | 89 | CS | BF | 1.1 | CH | y | $\mathrm{n} / \mathrm{a}$ | n/a | M |
| 15.13 | 80 | - | 90 | CS | BF | 0.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 58 | - | 91 | CS | BF | 0.6 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 23 | - | 92 | CS | BF | 2.7 | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | 79 | - | 93 | CS | BF | 0.8 | CH | y | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 121 | - | 94 | CS | BF | 1.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 31 | - | 95 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 41 | - | 96 | CS | BF | 4.1 | CY | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 109 | - | 97 | CS | BF | 0.3 | B | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 15.13 | 108 | - | 98 | CS | BF | 0.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D plus |
| 15.13 | 33 | - | 99 | CS | DR | 1.2 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | P, M plus |
| 15.13 | 2 | - | 100 | CS | DR | 1.1 | QZ | n | $\mathrm{n} / \mathrm{a}$ | n/a | D plus |
| 15.13 | 120 | - | 101 | CS | DR | 2 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 100 | - | 102 | CS | PP | 1.6 | CH | n | n/a | n/a | P, M plus |
| 15.13 | 87 | - | 103 | CS | PP | 1.3 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P plus |
| 15.13 | - | - | 104 | CS | PP | 0.9 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P |
| 15.13 | 5 | - | 105 | CS | BF | 0.5 | CH | n | n/a | n/a | P plus |
| 15.13 | - | AZN | 106 | CS | PP | 0.8 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | P |
| 15.13 | 72 | - | 107 | CS | PP | 2.5 | PW | n | LP | n/a | P plus |
| 15.13 | 11 | - | 108 | CS | BF | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | M plus |
| 15.13 | 66 | - | 109 | CS | BF | 3.7 | CH | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | P, M plus |
| 15.13 | 69 | - | 110 | CS | PP | 3.1 | CH | n | n/a | n/a | P plus |
| 15.13 | 123 | - | 111 | CS | PP | 2.5 | CH | n | MA | Duncan-Hanna | C plus |
| 15.13 | 143 | - | 112 | CS | PP | 2.1 | CH | n | MA | Duncan Hanna | C plus |
| 15.13 | 85 | - | 113 | CS | PP | 1.7 | CH | n | MA | Duncan-Hanna | C plus |
| 15.13 | 30 | - | 114 | CS | PP | 0.6 | CH | n | MA | Duncan-Hanna | P plus |
| 15.13 | - | - | 115 | CS | PP | 2.9 | CH | n | MA | McKean | C plus |


| 15.13 | 28 | - | 116 | CS | PP | 3.1 | CH | n | MA | McKean | P, M plus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.13 | 18 | - | 117 | CS | PP | 1.9 | CH | n | MA | McKean | C plus |
| 15.13 | 9 | - | 118 | CS | PP | 1.3 | CH | n | MA | McKean | P, M plus |
| 15.13 | - | - | 119 | CS | PP | 8.8 | CH | n | MA | Yonkee | $\mathrm{MC}(\mathrm{T})$ plus |
| 15.13 | - | - | 120 | CS | PP | 1.6 | CH | y | MA | Duncan-Hanna | $\mathrm{P}, \mathrm{M}$ |
| 15.13 | 150 | - | 121 | CS | PP | 0.8 | CH | n | MA | Duncan-Hanna | P plus |
| 15.13 | - | - | 122 | CS | BF | 3.1 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | MC (T) |
| 15.13 | - | - | 123 | CS | BF | 2.5 | CH | n | $\mathrm{n} / \mathrm{a}$ | n/a | C |
| 15.13 | 136 | - | 124 | CS | PP | 3.1 | CH | n | LA | Pelican Lake | $\mathrm{MC}(\mathrm{T})$ plus |
| 15.13 | 64 | - | 125 | CS | PP | 2 | CH | n | LA | Pelican Lake | C plus |
| 15.13 | 91 | - | 126 | CS | PP | 2.3 | CH | n | LA | Pelican Lake | MC (L) plus |
| 15.13 | - | - | 127 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |
| 15.13 | 94 | - | 128 | CS | PP | 2 | CH | n | LA | n/a | MC (T) plus |
| 15.13 | - | - | 129 | CS | PP | 5.1 | CY | n | LA | Pelican Lake | C plus |
| 15.13 | 63 | - | 130 | CS | PP | 4.8 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{P}, \mathrm{M}$ plus |
| 15.13 | 127 | - | 131 | CS | PP | 3.2 | CH | n | LA | Pelican Lake | MC (L) plus |
| 15.13 | 130 | - | 132 | CS | PP | 2.9 | QZ | n | LA | Pelican Lake | P plus |
| 15.13 | - | - | 133 | CS | PP | 3.5 | CH | n | LA | Pelican Lake | P plus |
| 15.13 | 70 | - | 134 | CS | PP | 3.7 | CH | n | LA | n/a | P , M plus |
| 15.13 | - | - | 135 | CS | PP | 1.9 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | 42 | - | 136 | CS | PP | 2.6 | CH | n | LA | $\mathrm{n} / \mathrm{a}$ | $\mathrm{MC}(\mathrm{T})$ plus |
| 15.13 | - | - | 137 | CS | PP | 2.7 | CH | n | LA | Pelican Lake | M |
| 15.13 | 126 | - | 138 | CS | PP | 2 | CH | n | LA | Pelican Lake | M plus |
| 15.13 | 118 | - | 139 | CS | PP | 2.2 | CH | n | LA | Pelican Lake | D, M plus |
| 15.13 | 78 | - | 140 | CS | PP | 2.7 | CH | n | LA | Pelican Lake | M plus |
| 15.13 | - | - | 141 | CS | PP | 3.9 | CH | n | LA | n/a | P, M |
| 15.13 | - | - | 142 | CS | PP | 1.7 | CH | n | LA | Pelican Lake | C |
| 15.13 | 52 | - | 143 | CS | PP | 2.3 | CH | n | LA | Pelican Lake | C plus |
| 15.13 | - | - | 144 | CS | PP | 0.6 | QZ | n | EC | Corner-notched | MC (L) |
| 15.13 | 106 | - | 145 | CS | PP | 0.4 | CH | n | EC | Corner-notched | P plus |
| 15.13 | 43 | - | 146 | CS | PP | 0.5 | CY | n | EC | Corner-notched | MC (T) plus |
| 15.13 | 56 | - | 147 | CS | PP | 0.6 | QZ | n | EC | Corner-notched | C plus |
| 15.13 | - | - | 148 | CS | PP | 0.8 | CH | n | EC | Corner-notched | C |
| 15.13 | 93 | - | 149 | CS | PP | 0.3 | CH | n | EC | Corner-notched | C plus |
| 15.13 | 36 | - | 150 | CS | PP | 2.1 | CH | n | MC | Tri-notched | C plus |
| 15.13 | 128 | - | 151 | CS | PP | 1.3 | CH | n | MC | Side-notched | C plus |
| 15.13 | 15 | - | 152 | CS | PP | 1.4 | CH | n | MC | Avonlea | C plus |
| 15.13 | 101 | - | 153 | CS | PP | 1.1 | CY | n | MC | Avonlea | P plus |
| 15.13 | 12 | - | 154 | CS | PP | 2.8 | CH | n | MC | Avonlea | C plus |


| 15.13 | 48 | - | 155 | CS | PP | 0.1 | CH | n | MC | Side-notched | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.13 | 6 | - | 156 | CS | PP | 0.8 | CH | n | MC | Side-notched | P plus |
| 15.13 | 146 | - | 157 | CS | PP | 0.6 | CH | n | MC | Avonlea | P plus |
| 15.13 | - | - | 158 | CS | PP | 0.5 | CH | n | MC | Side-notched | P |
| 15.13 | 89 | - | 159 | CS | PP | 1.5 | CH | n | LA | Pelican Lake | $\mathrm{P}, \mathrm{M}$ plus |
| 15.13 | 46 | - | 160 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 19 | - | 161 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | 38 | - | 162 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 405 | - | 163 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | - | - | 164 | CS | HAM | - | QZ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | - | - | 165 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | - | - | 166 | GS | MET | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 96 | - | 167 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | n/a | L |
| 15.13 | - | - | 168 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 105 | - | 169 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 33 | - | 170 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | 74 | - | 171 | GS | MET | - | ND | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | 10 | - | 172 | GS | MAN | - | GR | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | C |
| 15.13 | - | - | 173 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | - | - | 174 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | 34 | - | 175 | GS | MAN | - | MQ | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |
| 15.13 | 154 | - | 176 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | L |
| 15.13 | - | - | 177 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D |
| 15.13 | - | - | 178 | GS | MAN | - | SA | n | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | D, L |


[^0]:    *Comprised of two gravers and one preform presumed to be Early/Middle Paleoindian

[^1]:    *Comprised of one graver and one channel flake presumed to be Early/Middle Paleoindian

[^2]:    ＊Was not verified as it is part of a separate private collection and not part of the overall artifact totals．

