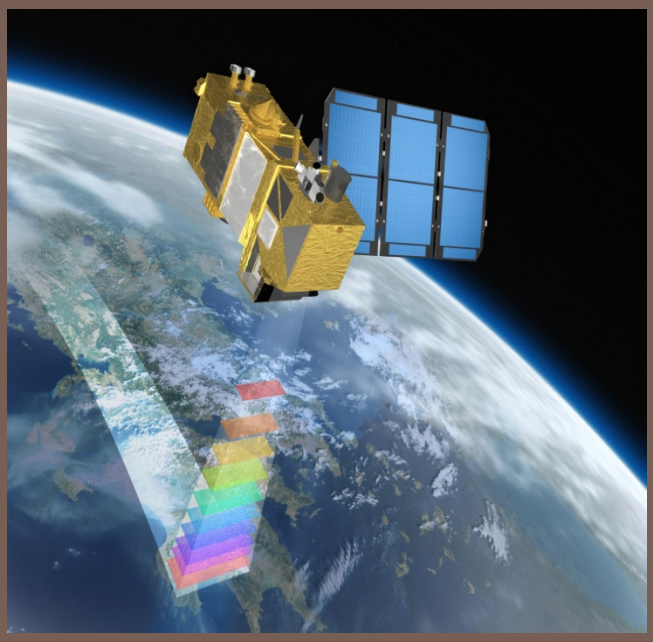
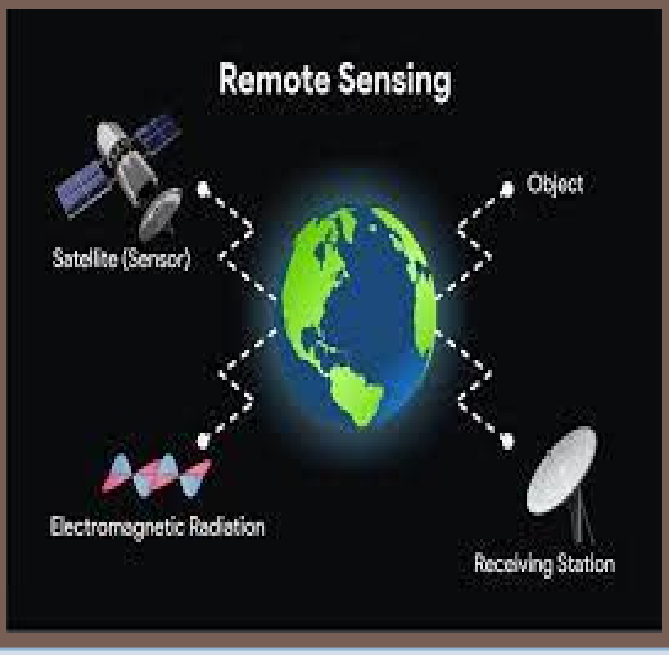
ACTION PLAN REPORT

FOR

DELINEATION SURFACE WATER BODY OF SOUTH ANDAMAN DISTRICT USING REMOTE SENSING AND GIS METHOD





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1. INTRODUCTION

The delineation of the surface water bodies is very important for the development of human life in the prospect of agriculture projects, industry development, and domestic purposes. It was estimated by different qualitative and quantitative data sources, which were collected by direct field surveys and indirect data sources such as Remote Sensing (RS) and Geo informatics. It includes skilled and trained manpower and the availability of data, which makes for more accurate data compilation as well as a reliable outcome.

This project work presents a comparative study of commonly used spectral indices that were developed for water detection for their suitability and effectiveness when applied on Landsat 8 images, raster images and tabular data. Commonly used techniques for surface water delineation from multispectral images analysis, spectral index based and spectral un mixing based methods. Commonly used spectral indices Normalized Difference Vegetation Index (NDVI), Normalized Difference Water Index (NDWI), Modified Normalized Difference Water Index (MNDWI), Water Ratio Index (WRI), Normalized Difference Forest Index (NDFI), Enhanced water Index (EWI), Weighted Normalized Difference Water Index (WNDWI), Automated Water Extraction Index (AWEI), Tasselled Cap Water Index (TCW), Global Water Index (GWI).

2. STUDY AREA

South Andaman district is located almost in the central part of the Union Territory of A&N islands and it is separated from North-Middle Andaman district by Middle Strait and Nicobar district by 100 channels in Indian Ocean. The district of South Andaman comprises one Subdivision, three blocks/ Tehsils and a Zila Parishad. Port Blair is the district and Subdivisional Headquarters of South Andaman. It is also the capital town of the union Territory of A&N Islands. Port Blair is well connected with the major cities of Indian mainland like Kolkata, Chennai and Visakhapattanam (Visag) by sea routes, while Chennai and Kolkata and New Delhi are connected to Port Blair by daily air services. Recently another direct air service from New Delhi to Port Blair via Bhubaneswar is introduced. Besides, the capital of the UT is connected to the other islands by inter island ships, Helicopter services maintained by Pawan Hans. Recenly Sea plane service is introduced which ply in the islands of North-Middle and South Andaman district.

The North Andaman and Middle Andaman Islands are separated from the South Andaman Island by narrow creeks. **The Andaman Trunk Road (ATR)** connects all these 3 islands.

As per 2011 census, population of South Andaman district is 2, 37,586, where Male population was 1, 26,804 and Female 1, 10,782. The population density is 80 per Sq. Km.Total population of primitive Tribes in the district is 2600 which comprises Jarawa (in South Andaman Island), Ongi (in Little Andaman), Great Andamanese (in Strait island) and Sentinelese (in Sentinel island).

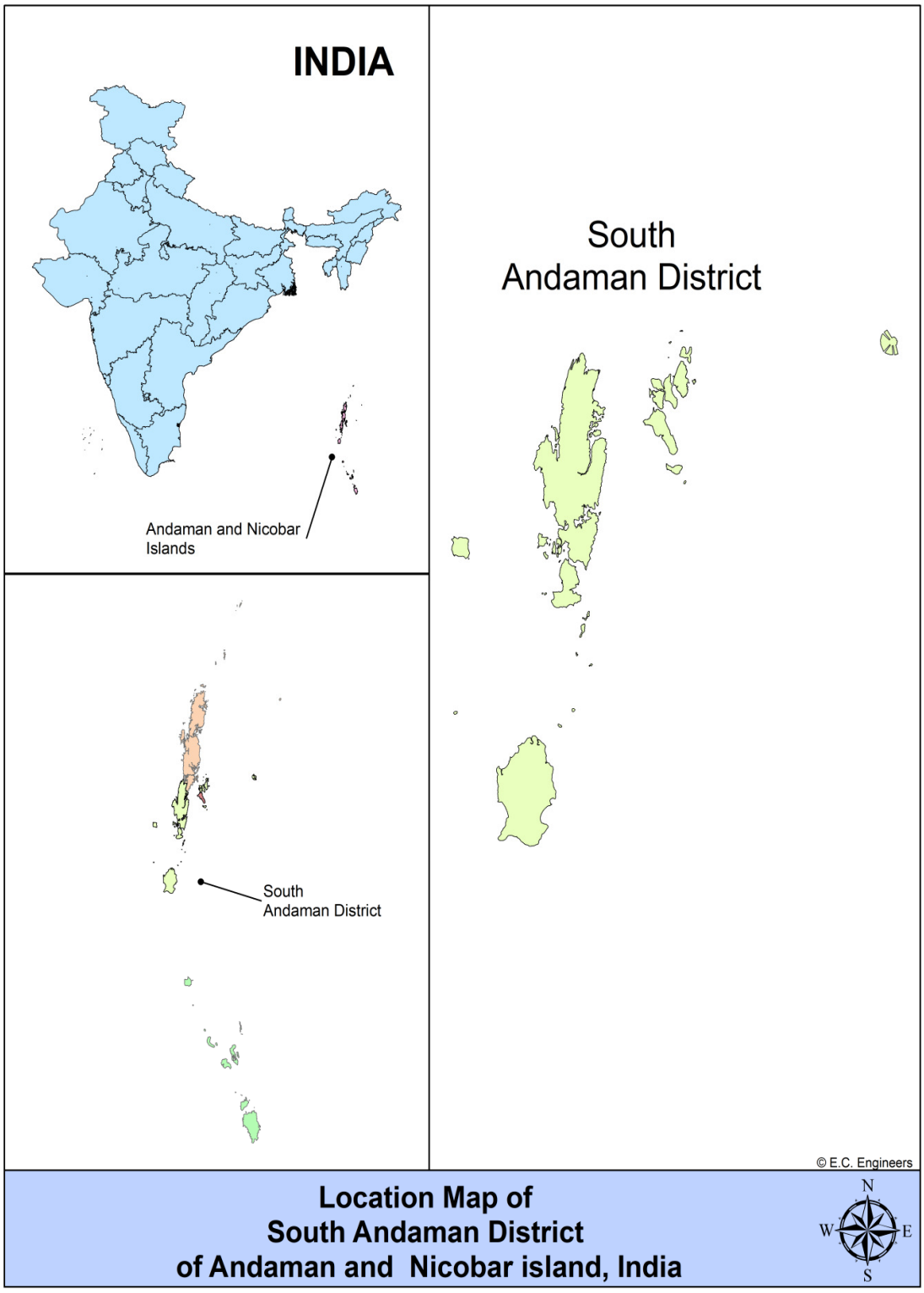


Fig:-1 Location map of South Andaman district

3. MATERIALS AND METHODS

Land features such as lithology, structural disposition, geomorphic arrangement, surface water condition, and vegetation influence surficial and sub-surficial water movement. A lake, pond, or stream is an occurrence on the surface of the earth. In order to identify it, some directly observable terrain features are analysed. Remote sensing (RS) can help in understanding them. Through the advent of Remote Sensing (RS) and Geographic information Systems (GIS), computing technology has revolutionized the way spatial data is handled and analysed, including delineating surface water bodies. Indicating surface water catchment zones through digital image analysis and visual interpretation of satellite data

1. Geological structure identification and hydrological properties analysis
2. The formation of water-bearing geological formations and the enrichment of water
3. Areas of recharge
4. Places of discharge
5. Nature of outlet of groundwater to the surface
6. Depth and conditions for the occurrence of groundwater and
7. Direction of movement etc.

The use of remote sensing (RS) data has been shown to be effective in groundwater exploration, even though it does not directly detect deeper subsurface resources. RS data aid in indirectly drawing inferences about the potential for groundwater in a given region. It is normally considered that freshwater surface resources constitute subsurface water resources. Satellite RS data can directly detect these sources of surface water because water absorbs the majority of the infrared radiation, helping in the delineation of even smaller bodies of water. Spectral reflectance can be used to detect vegetation, which is indicative of the soil's moisture and water saturation. Data from RS can be used indirectly to determine drainage catchment zones of an area by providing certain ground information.

Table:1 Thematic layers used for proposing and developing surface water body

Sl. No	**Parameters**	**Data type**	**Resolution/ Scale**	**Source**
1.	Drainage/Drainage density	To-	1:50,000	Survey of India

		posheet		
2.	Slope	SRTM DEM	30m × 30m	https://www.usgs.gov
3.	Aspect	SRTM DEM	30m × 30m	https://www.usgs.gov
4.	Geomorphology	Vector layer	1:50,000	Survey of India to-posheet
5.	Land Use Land Cover (LULC)	Sentinel-2	10m×10 m	https://www.usgs.gov
6.	Normalized Difference Vege-tation Index (NDVI)	Sentinel-2	10m×10 m	https://www.usgs.gov
7.	Existing water bodies	Vector layer		https://www.googleearth.com

The study area was surveyed using LANDSAT 8 ETM+ and SENTINAL 2 satellite images that have been enhanced digitally to determine land-use/land cover and geomorphology. Survey of India map (1:50,000) has been used to delineate the drainage and slope, aspect, and contour were analysed from the CARTOSET DEM from NRSC Bhuvan. Surface natural and manmade water bodies were digitised using GOOGLE EARTH PRO. The orders were designated for each stream following the Strahler stream ordering technique (Strahler 1964). Buffers were generated for each stream proportional to their water body prospects. The spatial database layers like geomorphology, lineament density, and slope in degrees, aspect, land use/land cover, rainfall data/maps and Normalized difference vegetation index (NDVI) type were used to delineate the surface water catchment zones. Appropriate weightage was assigned to each of the map layers based on their terrain prospects. Ranks were also assigned to each subclass of prepared maps (Table 1).

4. PRECIPITATION

An analysis of daily rainfall data over Andaman & Nicobar Islands is presented in the present study. Compared to southern latitudes of Andaman & Nicobar Islands, northern latitudes exhibit a large monthly deviation in rainfall. Additionally, all seasons except

monsoon show an increase in rainfall from north to south latitudes. The yearly rainfall and rainy days in the region have shown a statistically significant decreasing trend (confidence level 95 %).The frequencies of light rain (2.5–7.5 mm), and very heavy rain (124.5 mm) have been declining over the region in recent years based on an analysis of daily rainfall intensity for each year. The Andaman & Nicobar Islands region is often affected by cyclonic disturbances that cause heavy rain events. In the region, the trend of cyclonic disturbances is declining more significantly than in other regions. This is one of the reasons for a decrease in.

Climate

The islands in South Andaman district enjoy tropical humid climate because of their location in the equatorial zone surrounded by the Andaman Sea. The islands have only two seasons viz. Rainy Season and Summer Season Winter is virtually absent. The mean relative humidity is 79%.The mean maximum temperature is 30.2°C and means minimum temperature is 23.8°C. The relative humidity varies from 79% to 89% and wind speed varies from 7 km/hr to 10km/hr. The maximum and minimum temperatures in the islands fluctuate between 27 to 330 °c and 21 to 250 °c. Daily evaporation rate in the island is fairly high which cumulatively ranges from 1500-1800 mm. per annum. The geographical localization is responsible for high average evaporation rate to the tune of 1500-1800mm per annum. Climatic aberration is highly effective for the availability of surface water and ground water in the islands. In few years in the past decade in 2002 and 2007 the situation was so worsened that the Andaman and Nicobar Administration had to curtail the water supply in Port Blair and it was supplied only once in a week. The Dhanikhari Dam, the backbone of water supply to Port Blair was almost dried up during the years of rainfall aberration.

In water scarce 2002, at the behest of Hon'ble Lt. Governor of A&N Islands, an urgent survey in the contiguous Rutland Island was carried out by CGWB (Kar,2002). Based upon the recommendation of CGWB, the project of Inter Island transfer Island of spring water was approved in 2009. To mitigate the water supply problem in Port Blair town, as a short term measure, the water supply through barges was started in 2002 itself. Gently Sloping Coastal Tract, that nearly 36,54,722 Gallons of water per day may be available from Spring sources as also through tapping of base flow which can be obtained from the Rutland Island which is flowing to the sea .The water is currently catered to the Ships by Port Management Board. The work of interisland transfer of water

is underway. In addition to this project, raising of Dhanikari dam by 5m is also approved by the A&N administration. The work is nearing completion. On completion, this will also facilitate the water supply sustainability to Port Blair town.

5. PROCEDURE

A) Linear

B) Aerial

C) Relief

A) Linear aspects

Perimeter (P)

The perimeter of the studied basin was calculated to be 18.51 km. Basin ID 19 was recorded to have the minimum value of 1.3 km, whereas Basin ID 14 has the maximum value of 7.6 km among all the sub-basins.

Basin length (Lb)

The length of the basin of fourth-order watershed is 5.2 km. In case of sub-basins, it ranges from 0.28 km (Basin ID 19) to 3.58 km (Basin ID 14). Basin ID 14 is relatively elongated and it covers the maximum area (1.5 km2). Hence, in this case, headward erosion plays the key role in making the channels lengthy and forms an elongated basin.

Stream order (Su)

Strahler method has been followed in this current case study to determine the stream ordering. There are a total of 74 channels linked to form the fourth-order watershed. It is found that the maximum frequency is in the case of frstorder streams (77.02%, maximum proportion) and with the increasing order, the frequency decreased. Thus, the law, the lower the order, the higher the frequency and vice versa, is implied throughout the basin.

Total stream length (Lu)

The stream length of various orders has been calculated. It is found that the total stream length decreases with the increasing order. It is observed that first-order stream constitutes 58.62% of the total stream length, secondorder stream constitutes 19.04% and third-order stream has 18.14% and fourth order has 4.19%.

Mean stream length (Lum)

In this study, it is found that the mean length increases with increasing order, but an exception has been observed in the fourth order. Here, the mean stream length is lower than that of lower order.

Stream length ratio (Rl)

The Rl is found to vary arbitrarily, that is, 0.32, 0.95 and 0.23 which indicates the late youth to early maturity stage of geometric development.

Bifurcation ratio (Rb)

Theoretically, when the value ranges from 3 to 5, it seems geologic structure does not distort the drainage pattern (Strahler 1964). In the concerned study area, the Rb values vary from 3 to 4.75 with a mean bifurcation ratio of 3.92. The relatively higher value of bifurcation ratio is an indication of structural disturbances and high overland fow due to the presence of hilly, less permeable underlying rocks.

B) Areal aspects

Area (a)

The area of the fourth-order watershed is 11.73 km^2. Among all the 19 sub-basins, the area of Basin 11 is lowest (A=0.2 km2) and Basin 14 is recorded to be the largest (A=1.5 km2).

Drainage density (Dd)

Drainage density refects the spacing of the drainage ways and interaction between geology and climate. Drainage density for the main watershed is calculated as 3.52 km/km^2. The density for the sub-basins indicates the terrain is an impervious and highly dissected one. This low value of drainage density is an indication of resistant surface material and widely spread streams.

Stream frequency (Fs)

The stream frequency of Burma Nala basin is 9.63. In the sub-basin, the frequency varies from 5 to 13.04. The stream frequency exhibits a positive correlation with drainage density values in the study area.

Drainage texture (t)

The density factor is also related to a parameter known as texture. The texture value calculated for the sub-basins varies between 0.45 in Basin ID 11 and 2.43 in Basin ID 16. In general, a region with a coarse texture has a mean value less than 4, medium texture 4–10 and fne texture greater than 10. Thus, the present study area has very coarse to coarse texture. From an equation derived by Jacob (1944), transmissibility which is the

measure of the permeability of the terrain varies inversely with the square of the drainage density. “Thus, as transmissibility increases, drainage density would decrease and vice-versa” (Carlston 1963). Thus, the law of high infltration, low density and low infltration high drainage density is implied in the study area.

Length of overland fow (Lg)

Lg value for the entire basin area is 0.14, which is quite low. The length of the overland fow varies within the sub-basins. It ranges from 0.12 to 0.25 km. The minimum value of Lg indicates the surface runof of the basin is low but in case of Basin IDs 2, 6, 9, 11, 13, 15, 17, it is relatively higher.

Constant of channel maintenance (Cc)

As stated by Schumn, drainage network develops in an orderly way since meter-by-meter growth of a drainage system is only possible if sufcient area is available to maintain the expanding channels. The Cc value for the Burma Nala watershed is 0.28. Low value of Cc indicates high drainage density, and thus less area is required to sustain 1 km channel. Here, the Cc value 0.28 indicates 0.28 Km2 basin area is needed to sustain a channel of 1 km. In the subbasins, Cc value varies between 0.23 KM2 (Basin 5) and 0.5 Km2 (Basin 19).

Form factor (Ff)

The form factor value for the Burma Nala watershed is 0.43 which is a less elongated basin. The Ff value for the sub-basins varies from 0.03 to 1.01. The low Ff value indicates elongated basin which will have a fatter peak of fow for long duration. Elongation ratio (Re) The Burma Nala watershed is less elongated (0.7–0.8), i.e., the Re value is 0.74. And among the sub-watersheds, Basins 1, 2, 3, 5, 6, 14, 15, 16, 18 are less elongated (value ranges between 0.70 and 0.80) and basins 9, 10, 11, 12, 13, 14 are elongated (value less than 0.5) in nature.

Circularity ratio (Rc)

The Rc value can attain a maximum of 1.0 where the outline of the watershed is approaching near-circularity. The Rc of the watershed is 0.43 which indicates elongated shape. In the sub-basins, it varies from 0.29 (Basin 7) to 0.67 (Basin 2).

Shape index (Sw)

The Sw of the watershed is 2.32, and the subbasins are mainly within the range of 0.99–4.74. Although there are exceptions in Basins 10, 11, 12, 13, 14, their corresponding Sw values are 10.88, 25.38, 11.64, 29.18 and 8.53.

C) Relief aspects

Basin relief (R)

Basin relief is a parameter that determines the stream gradient and the volume of sediment that can be transported (Hadley and Schumm 1961). The relief of the Burma Nala watershed is 192 m, and in the subbasin, it varies largely from 30 to 170 m.

Relief ratio (Rr)

The Rr value for the Burma Nala watershed is 0.04. In the sub-basins, the Rr was calculated and found to be low, ranging from 0.02 to 0.12. This value of Rr is mainly due to resistant sandstone underlying the basin and low degree of slope.

Ruggedness number (Rn)

The value of Rn for the watershed is 0.67, and for the sub-basins 4, 6, 9, 10, 16, 18, Rn is relatively higher and the corresponding values are 0.43, 0.41, 0.50, 0.54, 0.50 and 0.43, respectively. As per Strahler's (1956) observation, Rn increases directly with the drainage density and relative relief of the area fts into this drainage basin also. When drainage density increases, the relative height remains constant. The average horizontal distance from divide to adjacent channels is reduced with an increase in slope steepness. On the other hand, when the relative height increases, the drainage density remains constant. The elevation diference between divides and adjacent channel will also increase, and thus the slope steepness also increases.

Dissection index (Di)

Dissection index for the Burma Nala watershed was calculated as 0.99. The index of the sub-basins varies from 0.55 (Basin 7) to 0.99 (Basin 17, 18). The maximum Di value for the basin and sub-basins (6, 9, 10, 11, 12, 14, 16, 17, 18 and 19) implies that the watershed is a highly dissected one with vertical escarpment and hill slope.

Melton ruggedness number (mrn)

Melton ruggedness number is used to identify the hydrogeomorphic process which is dominant in a particular watershed. Generally, Melton ratio less than 0.30 are the characteristic of water food. Values ranging from 0.30 to 0.6 are debris food and greater than 0.6 represent debris fow. Though the Melton ratio is higher (0.05) for the entire watershed, the ratio for the sub-watersheds varies from 0.07 to 0.18 which is water-food-prone basin.

Texture ratio (Rt)

Texture ratio depends on the underlying lithology, infltration capacity and the relief aspect of the terrain. The texture ratio for the watershed is 3.08 which are categorized as moderate in nature.

Drainage intensity (Di)

The watershed value is 1.79 which indicates a lower range. The drainage density value implies that drainage density and stream frequency have little efect on the extent to which the surface has been covered by agents of denudation.

Infltration number (I f)

The infltration of Burma Nala waterfall is 22.2. If for the sub-watersheds varies from 10.25 to 51.61. The higher value of infltration number indicates that the infltration capacity is very low due to impermeable surface material, resulting into high runof.

Lemniscate's (k)

Chorley et al. (1957) expressed another parameter named lemniscate's value to determine the slope of the basin. The lemniscate's value for Burma Nala basin is 0.22.

Compactness coefcient (Cc)

The value varies from 1.23 (Basin 2) to 1.88 (Basin 7). The statistical analysis of interrelationships of morphometric parameters helps in understanding the terrain characteristics of watershed management and planning. From the Pearson's correlation matrix for Burma Nala watershed, total length of the stream (Lu) is positively correlated with the area (A) (0.98). Mean stream length (Lsm) is positively correlated with stream frequency (Fs) (0.11) though the relationship is insignifcant. Drainage density (Dd) is negatively correlated with the length of overland fow (Lg) (−0.969) and negatively correlated with constant of channel maintenance (C) (−0.971). The length of overland fow has a signifcant positive correlation with constant of channel maintenance (C) (0.995).

6. DRAINAGE/DRAINAGE DENSITY

Because of relatively less areal extent and paucity of catchments, the islands of South Andaman district are devoid of river systems. However, a few perennial streams such as Mithakhari, Portharepore nala, Burma nala, Pema nala, Dhanikhari, Chandan nala etc. drain the South Andaman district. All the nalas meet the sea in Bays. The general drainage pattern of the islands varies from dendritic to sub-dendritic. However, land subsi-

dence post-tsunami has facilitated the tidal ingress along the streams of South Andaman Island.

South Andaman district is endowed with sufficient rainfall. However, perennial springs and base flow are facilitating the perennial flow in some of the streams. In many islands, surface 16 runoff occurs rapidly after rainfall and recedes to little or no flow within hours. On low islands (i.e. Neil), surface water resources, if at all present, are likely to be in the form of shallow lakes. In South Andaman district, drainage density is high, while in Havelock, Neil and Little Andaman Islands drainage systems are either absent or poor. However, potential springs are developed in such islands because of cavernous condition in Limestone. At places copious emanation from springs also give rise to potential drainage in Little Andaman Island.

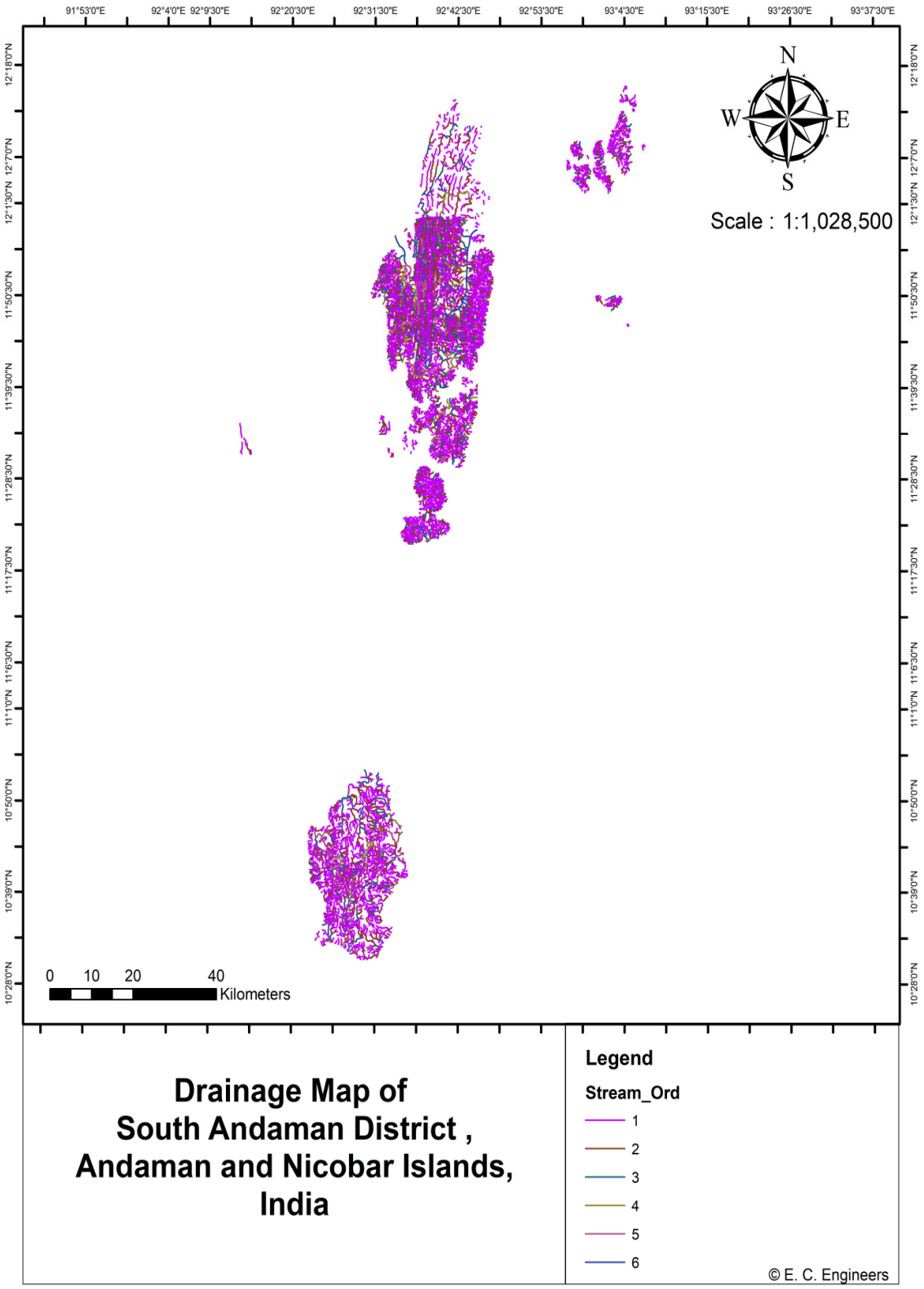


Fig:-2 Drainage map of South Andaman district

7. SLOPE

Inclination of the water surface, expressed as the difference in elevation of two points divided by their distance. Steep slopes are found in the area of South Andaman.

Elevation:-**Minimum elevation**: -1 m

Maximum elevation: 459 m

Cordinates of the elevation:- 11°50'45.60"N 92°40'05.52"E

Calculation method for any area Slope:-

1. Q = (1.49/n)A(Rh^2/3)S^1/2.
2. Q = the discharge.
3. A = is the area of the cross-section.
4. S = the slope of the waterway.
5. n = Mannings Roughness Coefficient.
6. Rh = the hydraulic radius of the cross-section.
7. A = the area of the cross section.
8. S = the slope of the water.

   Slope map of the 40 km area of the South Andaman describe the value of the surface water slope.

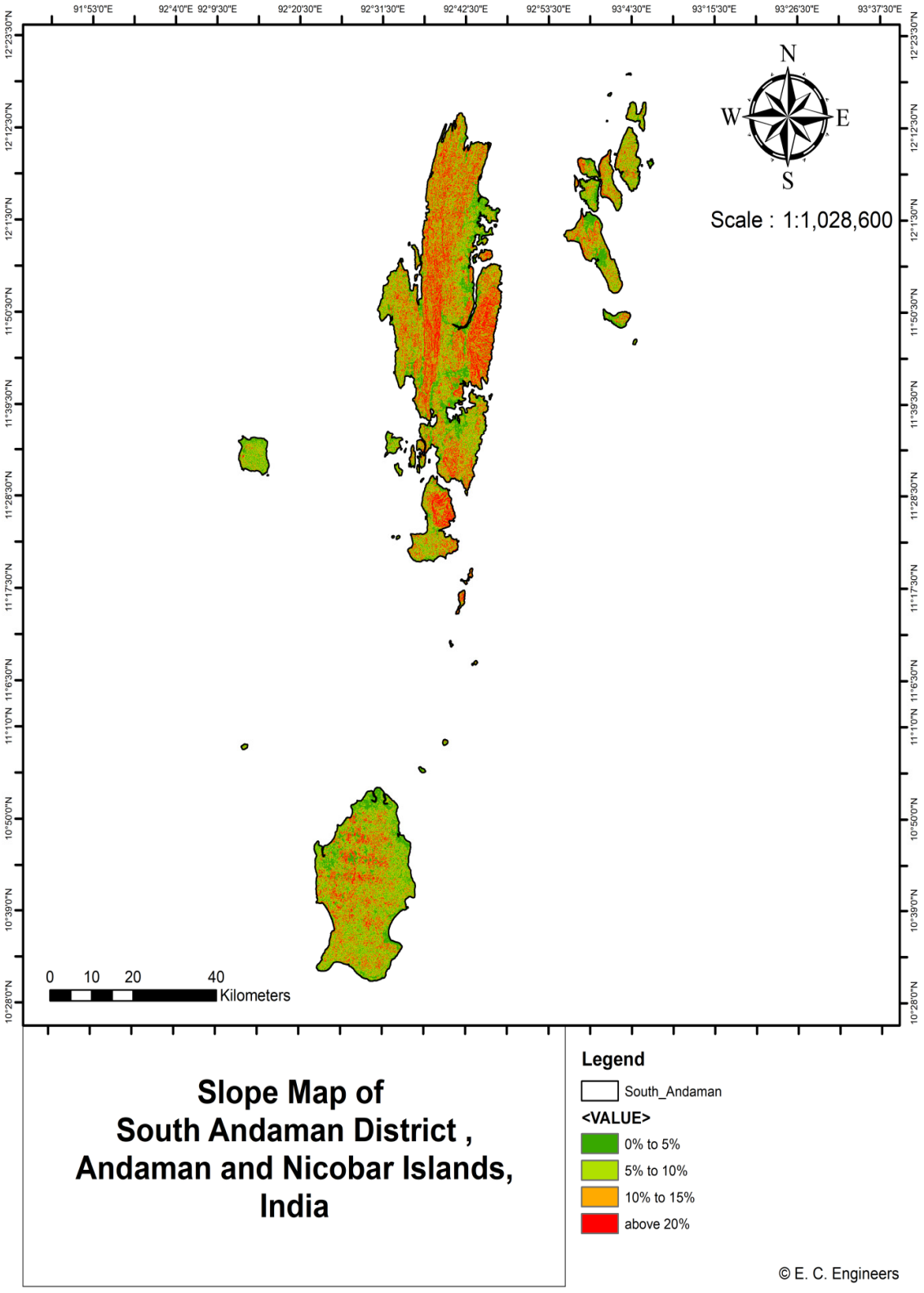


Fig:-3 Slope map of the South Andaman district

8. ASPECT

Multispectral and hyper spectral images captured by remote sensing satellites or airborne sensors contain abundant information that can be used to study and analyze objects of interest on the surface of earth and their properties. The potential of remotely sensed images for studying natural resources like water has been studied by researchers over the past many years. As water is an important natural resource that needs to be conserved, such studies have been of great interest to the scientific community. By employing appropriate digital image processing techniques on images taken from remote sensing satellites or airborne sensors, an effective system can be developed to study the quantitative and qualitative changes happening to surface water bodies over a period of time. Surface water detection and mapping is a crucial and necessary step in such studies and different automated and semi-automated methods have been developed over the years for mapping water in remotely sensed images. Remote sensing sensors capture images at multiple bands corresponding to different wavelength ranges in the EM spectrum. Digital image processing based techniques for water mapping falls predominantly into four categories; (i) single band based methods, (ii) spectral index based methods, (iii) machine learning based methods and (iv) spectral mixture analysis based methods. This paper presents a review of techniques, methods, algorithms and the sensors/satellites that have been developed and experimented with to perform surface water body detection and delineation from remote sensing images.

Aspect map of the South Andaman showing the slope of the surface water in different areas.

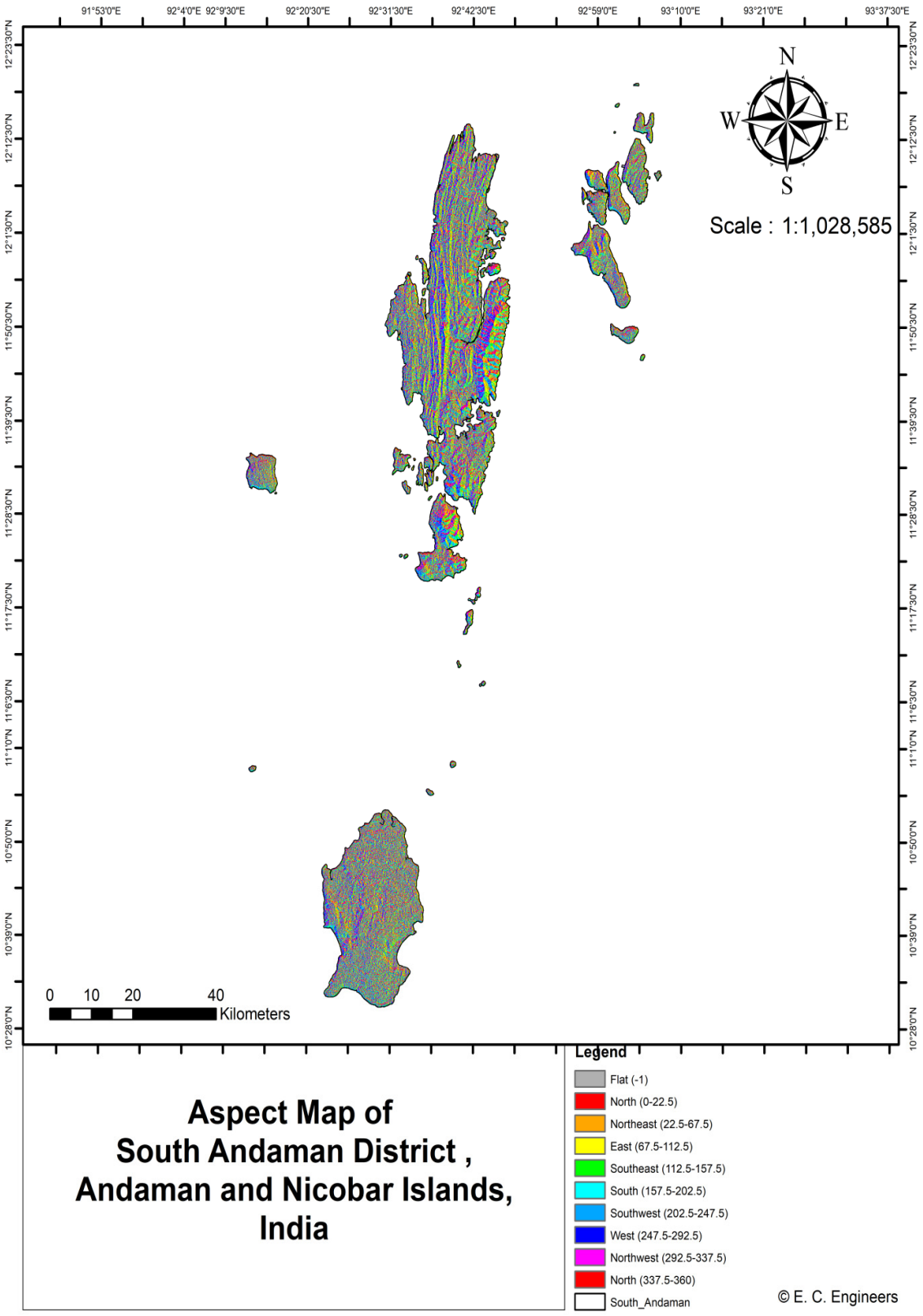


Fig:-4 Aspect map of South Andaman

9. GEOMORPHOLOGY

The size, shape and elevation of an islands control the occurrence and movement of both surface and ground water resources to a considerable extent. Either or both types of water resources are likely to be available in larger quantities in wider and larger islands when compared to smaller and narrower islands. The width of a small island has major influence on the occurrence of ground water in basal aquifers. The islands in South Andaman District have varied topographical features. In general, barring a few small Islands, all the others have undulating terrain with main ridges running North-South. There are also spurs running East – West in between the main ridges. Deep inlets and creeks are formed by the submerged valleys. Flat lands are few. Coral reefs surround most of the Islands.

The islands generally feature a hilly terrain with long ranges of hills and narrow valleys. The maximum altitude of these islands is at Mount Kavab, which is 460m above mean sea level. Mount Ford (435m, amsl) of Rutland Island, and Mount Harriet (365m, amsl) are some of the high peaks in South Andaman district. The peaks i.e. Mount Kavab and Mount Harriet, are formed of marine sedimentary rocks, while Mount ford is made of Ophiolites (igneous). Geomorphology of South Andaman district is controlled by the geology and weathering characteristics of the rock types underlain.

Geomorphologically, the South Andaman district can be divided into the following five broad units:

1. **Moderate to steep hill ranges having low to moderate heights:-** This type of geomorphology could be seen in the islands underlain by Marine Sedimentary group of rocks 14 and Igneous Ophiolites rocks. Examples are South Andaman, Rutland etc. Because of low infiltration capacity of Marine sedimentary rocks, many streams are generated in the tracts underlain by such rocks. While drainage density is high in such areas, ground water potential is low and springs although preponderant lose perenniality in lean periods causing water scarcity in rural areas of South Andaman with recession of monsoon. The islands with Ophiolites i.e. Rutland on the other hand have good ground water potential with perennial springs and drainage.

2. **Narrow intermountain valleys:-**This type of landform is formed in between the hills and could be seen in the aforesaid islands as mentioned under Sl. No. 1. In general the valleys are formed in the structurally weak planes i.e. along the lineaments and may be termed as structural valleys.

3. **Narrow, gently sloping coastal tracts including swamps:-** This type of coastal landform could be seen in the islands underlain by Marine Sedimentary, which contain mostly fine sand, silt and clays. Since, the length of the streams from hill to sea is less, the fluvial action on the rocks and sediments in their courses becomes less powerful. Consequently, owing to both the reasons larger clastics (sands, gravels and boulders) are not brought to the coast. Hence, in majority of the cases the beaches in such islands remain swampy and slender with low ground water potential in the low-lying areas. However, in cases where coral reefs are luxuriant around such islands, wide sandy beaches also could be seen. Example the Mahuadera (North Wandoor) beach in the western coast of South Andaman Island etc.

4. Islands basically are made of Coralline material (atoll) or having Clay-mudstone-chalk stone sequence in higher elevations with preponderance of coralline deposit in the low lying areas with very gentle slope and relatively wide coast encircling the islands. The uplifted atolls form low lying islands. Since, the coral reefs are being denudated constantly in the shallower part of the sea because of wave action, huge quantity of coralline sands are produced. They give rise to the formation of wider beaches. Examples of such islands are Neil, Jolly buoy, Havelock etc. In the higher elevations good springs are generated in Chalk stone, which gives rise to few perennial streams as could be seen in Krishnanagar, Radhanagar and Vijay Nagar on the way to Kalapahar village in Havelock Island. The Coralline limestones in the low lying areas form good repositories of ground water.

5. Rugged coast devoid of beaches. This type of coastal landform is visible in the islands or parts of the islands, which are underlain by Ophioliticigneous rocks. Examples are Cinque Island, Rutland Island, Barren (active) and Norcondom (dead) volcanic islands, parts of South Andaman in between Chidiyatapu to Brookshabad. As the Ophiolites are highly fractured having good potential of ground water, highly perennial as also potential springs are generated in such rocks, which finally gives rise to many perennial streams like Burma Nala, Chidiyatapu nala, Lalmitty Nala at Beadnabad, streams of Rutland etc.

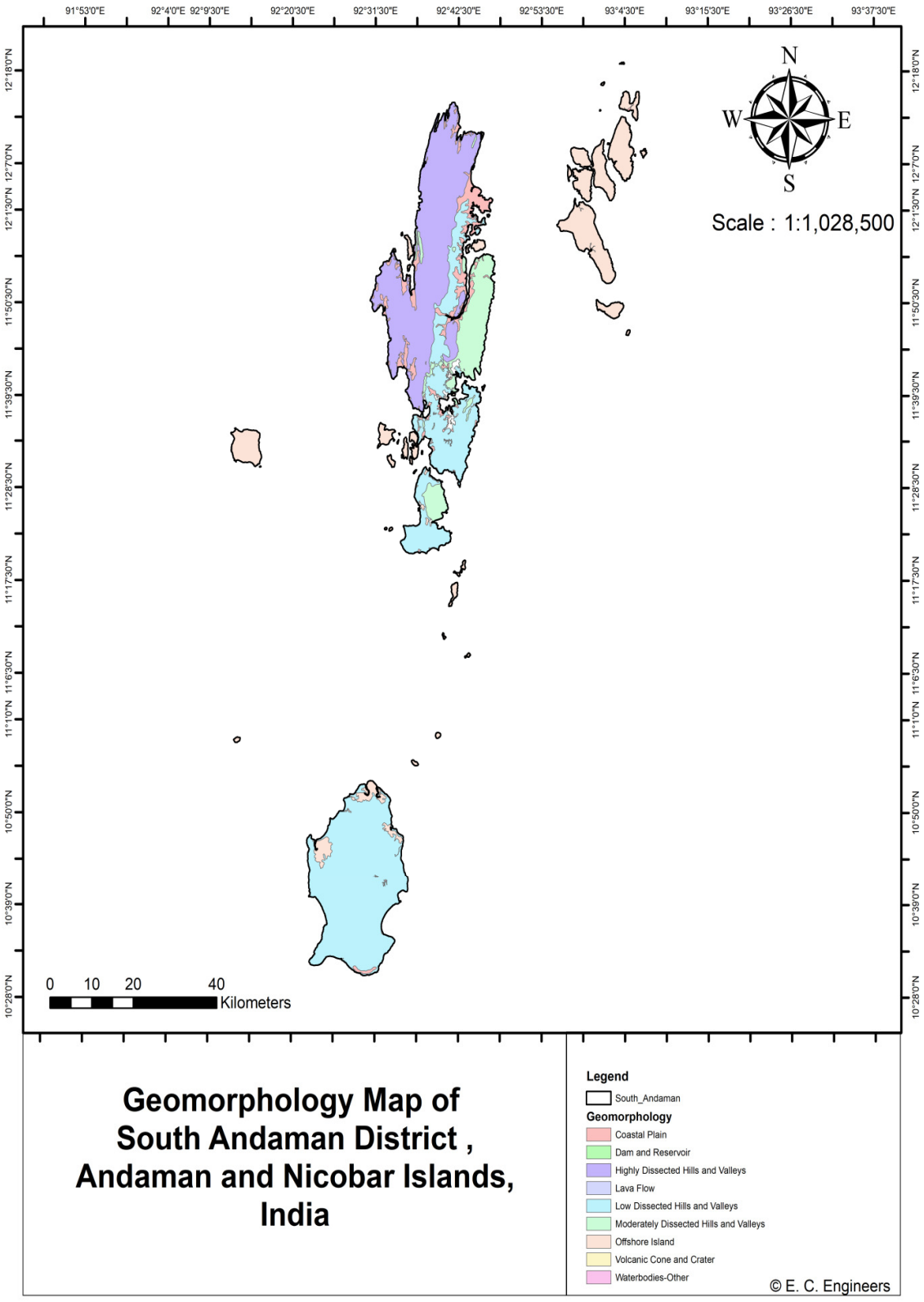


Fig:-5 Geomorphology map of South Andaman

10. NORMALIZED DIFFERENCE VEGETATION INDEX (NDVI)

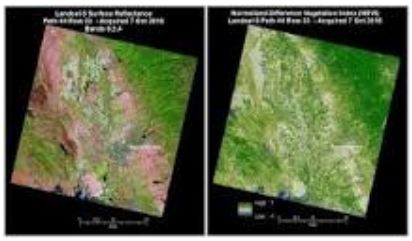
The normalized difference vegetation index (NDVI) is a simple graphical indicator that can be used to analyze remote sensing measurements, often from a space platform, assessing whether or not the target being observed contains live green vegetation.

The Normalized Difference Water Index (NDWI) is used to highlight open water features in a satellite image, allowing a water body to "stand out" against the soil and vegetation.

The NDWI equation:-

NDWI = (Green – NIR)/(Green + NIR)

For Sentinel 2 data: NDWI= **(Band 3 – Band 8)/(Band 3 + Band 8)**



Landsat Normalized Difference Vegetation Index (NDVI) is used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in plant health.

Study

The present study site, is one of the important district of Andaman & Nicobar archipelago, a group of green islands, found floating in deep blue Indian Ocean.They are located between 12°.95' N and 92°.86' E, constituting about 70 large and small islands. The terrain is rough with hills enclosing narrow longitudinal valleys formed of territory sand stone, lime stone and shale. Soils are derived from sandstones, serpentines, conglomerates and are acidic non calcareous with low organic matter and high nitrogen content. Lush forest vegetation is found in these islands due to continuous rainfall brought by monsoons with a short dry period. As per the champion & Seth (1968), the study area has been classified as Andaman evergreen (1A/C2), Andaman semi evergreen (2A/C1), Andaman moist deciduous (3A/C1), Littoral (4A/L1) and Mangrove forest (4B/TS2).

Results

The ultimate result of the classification is to distinguish the area into various forest and non-forest categories. Important vegetation types of the study area include evergreen, semi evergreen, moist deciduous, littoral, dense, degraded and open mangrove. Water class was excluded from the total area statistics. Semi evergreen forest observed as do-

minant vegetation type of the north Andaman by both the interpretation methods. Visual technique helped in the delineation of additional stunted evergreen / southern hill top evergreen forest class (later merged with evergreen), and various sub classes within mangrove forest based on their species composition as Rhizophora, Brugeria community etc., due to the variation in spectral values and prior knowledge of the area which could not be achieved by digital method.

The accuracy as well as delineation of various classes in visually interpreted map was found to be high (85%) and this was achieved mainly by the supportive information obtained from the digital technique. The hybrid classification approach using both digital and visual methods along with the ground phytosociological data aided in producing better vegetation map of the study area. Accuracy assessment was performed only for the predominant vegetation types, since coastal vegetation (Mangroves and littoral) are easily separable.

Observations

- Overall there was a difference of 35 Sq.km in area between the two methods adopted for classification.
- A comparison of area statistics in visual and digital classification methods showed that the extent of total forest area is nearly similar. But for non-forest classes higher area interpretation was observed (about 40 sq.km) by visual method.
- There is also a wide range difference in the moist deciduous class.

Table- Interpretation Key for Visual Interpretation of predominant vegetation types:-

Vegetation classes	**Tone**	**Texture**	**Association**
Andaman tropical evergreen forest	Deep red	coarse	Mostly on hill tops
Southern tropical evergreen forest	Reddish	Smooth/hazy	Aspect based vegetation class
Tropical semi evergreen forest	Pinkish red	Smooth/ coarse	On the slopes of hill
Tropical moist deciduous forest	Bluish /blackish blue	coarse	On hill slopes and lowland area
mangroves	Dark red velvety	smooth	Fringing muddy

			creeks
Littoral forests	Bluish pink/pinkish	Less coarse	Along seashores and Fringing sandy beaches.

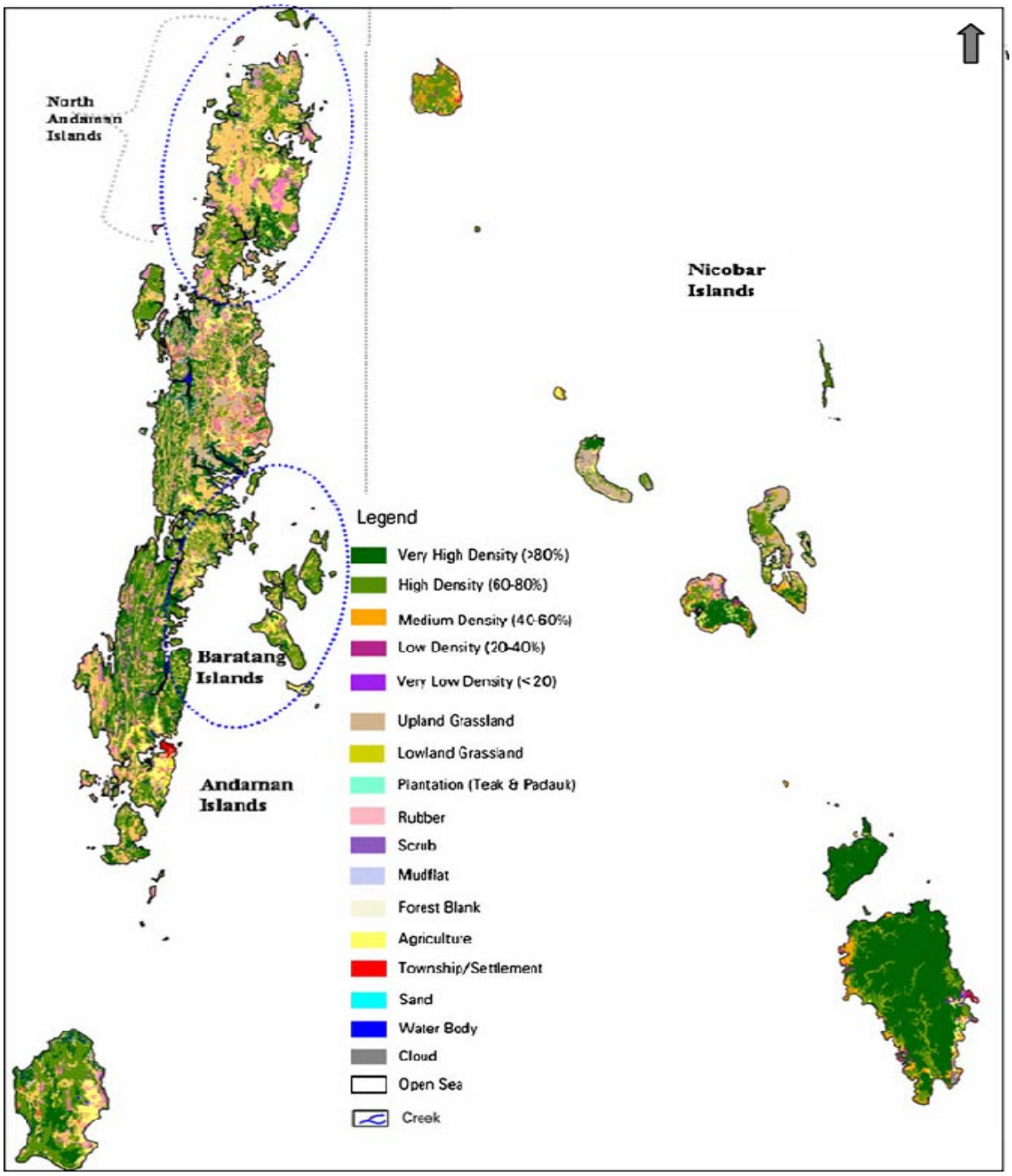


Fig:-6 NORMALIZED DIFFERENCE VEGETATION MAP

11. LAND-USE/LAND COVER (LULC)

Forest covers a major part of the district. Since inception of the colonial British Raj, the forests in and around Port Blair and in parts of South Andaman island were cut to make room for establishments for Penal settlement and agriculture. After fifties there had been considerable loss of forestry for settlement of the refugees from East Pakistan now Bangladesh in South Andaman, Neil, Havelock and Little Andaman islands of the South Andaman district. Gradually, the land use for settlement has been increased in the past few decades because of exodus of people from all over main land in search of livelihood. The low lying lands, mostly under 7 utilisation for settlement and agriculture, were submerged under sea water due to the subsidence of many parts of South Andaman island after the mega earthquake (M=9.3) on 26.12.2004. The land use of South Andaman district is enumerated below

Table- Land use in South Andaman District

ITEM	LAND USE IN HECTARE
Total geographical area	3106.00
Reporting area for land utilization	2814.32
Forest area	2694.00
Not available for cultivation	27.29
Other uncultivated land excluding follow land	28.41
Current fallow	3.43
Fallow lands other than current fallows	13.21
Net area sown	69.03
Area sown more than once	2.47
Area submerged after post-tsunami	12.79

As such there is no land earmarked for fodder production. Yet livestock largely thrive on grazing alone on fallow land, wasteland, community land or grazing lands in absence of stall-feeding practice. Most of the hilly lands are present in the bigger islands such as North, Middle and South Andaman, Little Andaman, Car Nicobar, Katchal and Great Nicobar islands and are generally used for coco nut and areca nut plantation. Out of 36 inhabited islands 4 islands viz Curlew, John Lawrance, Peel and North Sentinel have no area under coconut cultivation. Car Nicobar, katchal, South Andaman, Great Nicobar,

Middle and North Andaman, Little Andaman have more than 1000 ha under coconut. Car Nicobar has maximum area (9188 ha) and Stewart Island has (0.6 ha) under coconut cultivation. Rest of the islands has less than 100 ha area under coconut cultivation. This area could be used for growing fodders and could support 6 cattle per year on a mixed 1:1 grass legume fodders. Paddy is predominantly grown in Andaman group of islands and only North, Middle and South Andaman have more than 1000 ha area under paddy.

Land use and land cover map:-

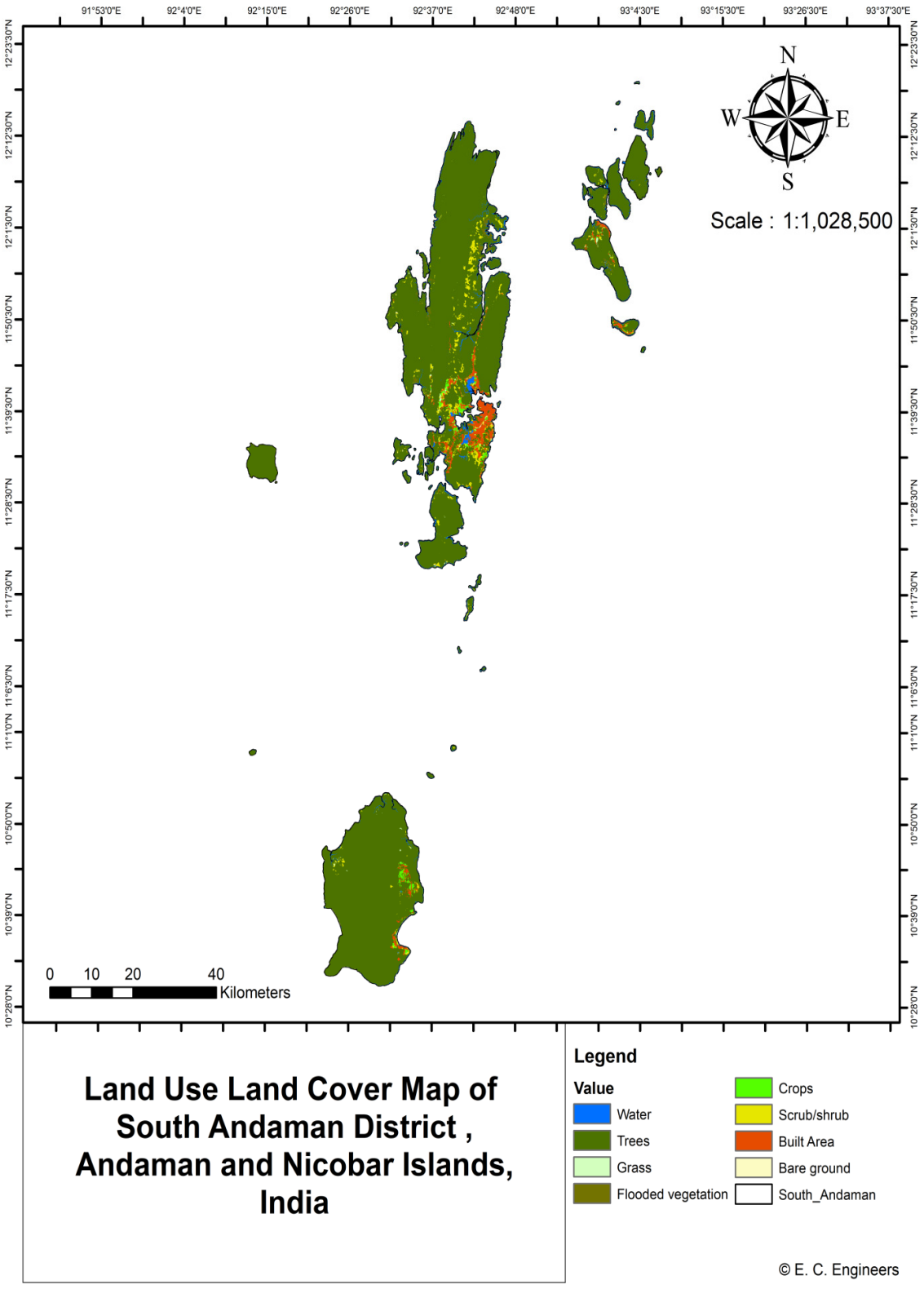


Fig:-7 Land use and land cover map

12. EXISTING WATER BODIES

Table-Water Quality of existing water bodies of South Andaman is as below:

id	Colour	Odour	Taste	Turbidity	pH	Total-Hardness mg/l	Iron mg/l	Chloride mg/l	Fluoride mg/l	TDS_Max mg/l	Calcium mg/l	Copper mg/l	Sulphate mg/l	Nitrate mg/l	Area_ha
1667.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	155	0.04	8	0.02	300	94	0.01	6	4	0.04626489332
1668.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	160	0.01	8.2	0.02	335	90	0.02	7	4	0.19156841572
1669.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	165	0.03	8.4	0.02	400	87	0.04	5	2	0.04249778232
1670.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	167	0.02	8.5	0.02	425	85	0.05	4	2	0.01480562379
1671.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	170	0.04	8.6	0.01	295	90	0.03	2	1	0.02252412580
1672.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	172	0.01	8.9	0.01	256	78	0.04	3	1	0.04565369249
1673.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	180	0.03	9	0.01	280	77	0.05	6	4	0.04613113588
1674.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	183	0.02	9.2	0.01	300	108	0.01	7	3	0.02571169891
1675.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	185	0.04	9.3	0.02	336	105	0.02	5	2	0.02207668751
1676.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	188	0.01	9.6	0.02	340	110	0.03	4	1	0.06828994335
1677.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	190	0.03	9.2	0.01	345	105	0.01	3	1	0.06117337927
1678.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	192	0.02	10	0.01	350	102	0.04	2	1	0.05909326706
1679.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	193	0.01	8.5	0.01	356	100	0.05	7	4	0.03703010477
1680.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	200	0.03	8.6	0.02	358	95	0.02	6	4	0.08791731280
1681.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	185	0.02	8.7	0.02	366	90	0.03	5	3	0.02802371605
1682.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	186	0.04	0.3	0.01	367	83	0.01	3	2	0.04379757241
1683.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	189	0.03	9.5	0.01	369	85	0.05	5	3	0.01863859467
1684.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	192	0.02	9.4	0.02	380	80	0.04	4	2	0.01887163582
1685.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	155	0.01	9.6	0.01	378	75	0.02	2	1	0.03370150038
1686.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	170	0.02	8	0.02	370	90	0.02	5	2	0.01265479548
1687.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	174	0.03	8.2	0.01	367	100	0.03	6	4	0.00941993562
1688.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	175	0.01	8.3	0.01	356	102	0.01	5	3	0.01047500466
1689.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	178	0.04	8.5	0.02	355	104	0.05	2	1	0.03460129435

1690.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.02	8.6	0.01	455	90	0.04	7	4	0.01488838217
1691.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	188	0.03	8.4	0.02	456	92	0.02	5	2	0.06191663895
1692.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	190	0.01	8.7	0.01	455	95	0.03	4	3	0.36772516901
1693.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	195	0.04	8.8	0.01	425	98	0.01	2	1	0.03639881142
1694.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	188	0.02	8.9	0.01	420	100	0.05	6	4	0.05568168819
1695.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	187	0.03	9	0.01	417	93	0.04	4	2	0.03553411701
1696.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	188	0.01	9.1	0.01	412	96	0.05	2	1	0.05434673320
1697.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	182	0.04	9.2	0.02	410	94	0.02	7	4	0.03125401775
1698.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	183	0.02	9.3	0.02	405	80	0.03	5	3	0.06828388899
1699.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	186	0.03	9.4	0.02	444	75	0.01	4	2	0.01497209104
1700.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	184	0.01	9.5	0.01	410	88	0.04	3	1	0.15354189465
1701.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	155	0.02	9.6	0.01	408	90	0.05	7	4	0.08239348318
1702.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	156	0.03	9.7	0.01	407	95	0.02	4	2	3.81442653044
1703.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	167	0.04	9.8	0.01	405	100	0.03	3	1	0.02585730825
1704.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	180	0.01	9.9	0.02	400	102	0.01	6	4	0.07490551507
1705.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	182	0.02	10	0.02	390	104	0.04	5	3	0.01379824150
1706.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	184	0.03	10	0.02	375	105	0.05	4	2	0.00946720446
1707.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	189	0.01	8	0.01	370	90	0.02	6	1	0.08975257786
1708.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	167	0.04	8.2	0.01	358	92	0.03	7	4	0.02574188553
1709.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	182	0.02	8.3	0.01	355	96	0.01	2	1	0.03416943292
1710.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	188	0.03	8.4	0.02	350	94	0.04	4	2	0.02535173548
1711.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	183	0.01	8.5	0.02	300	97	0.02	5	3	0.20821376581
1712.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	175	0.02	8.7	0.02	378	75	0.02	7	4	0.01204524263
1713.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	178	0.01	8.6	0.01	370	78	0.03	4	2	0.00968419054
1714.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	170	0.03	8.5	0.02	369	80	0.01	3	1	0.03917423455
1715.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	167	0.04	8.4	0.02	367	85	0.04	2	1	0.08284248424
1716.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	168	0.02	8.1	0.01	368	86	0.05	5	2	0.05969537583
1717.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	165	0.03	8.2	0.02	365	90	0.02	7	4	0.06469426247
1718.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	160	0.01	8.3	0.01	366	94	0.03	6	3	0.05944574291
1719.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	177	0.04	10	0.02	380	95	0.01	4	2	0.04994358232

1720.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	175	0.02	8.8	0.01	395	92	0.04	5	2	0.07563490924
1721.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	174	0.03	8.7	0.02	400	93	0.05	2	1	0.04955260438
1722.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	182	0.01	8.4	0.01	390	96	0.02	3	1	0.02692329545
1723.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	180	0.04	8.3	0.02	386	91	0.03	7	4	0.04653921292
1724.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	179	0.02	8.2	0.02	350	98	0.01	2	1	0.04844773490
1725.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	177	0.03	10	0.02	345	100	0.04	4	2	0.04555400806
1726.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	178	0.01	9.7	0.01	400	102	0.05	5	3	0.03029128213
1727.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	176	0.04	9.8	0.02	390	105	0.02	7	4	0.04679190847
1728.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	175	0.02	9.3	0.01	388	106	0.03	6	4	0.02798474839
1729.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.03	9.6	0.02	387	104	0.01	5	3	0.03423439889
1730.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	182	0.01	9.4	0.01	386	107	0.04	4	2	0.02324512874
1731.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	192	0.04	9.3	0.02	385	95	0.05	3	1	0.06094603594
1732.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	190	0.02	9.2	0.01	380	80	0.02	4	2	0.02066707062
1733.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	188	0.03	9.1	0.02	377	82	0.03	2	1	0.03251611344
1734.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	180	0.01	9	0.02	370	83	0.01	5	3	0.03296877355
1735.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	178	0.04	8.9	0.02	367	84	0.04	3	2	0.07929256672
1736.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	172	0.02	8.8	0.01	364	85	0.05	6	4	0.03371998880
1737.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	170	0.03	8.7	0.01	360	75	0.02	7	4	0.07697921866
1738.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	164	0.01	8.5	0.01	355	80	0.03	5	3	0.08048034746
1739.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	165	0.04	8.3	0.02	345	86	0.01	4	2	0.05915097485
1740.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	155	0.02	8	0.01	350	88	0.04	2	1	0.05198359133
1741.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	160	0.03	8.2	0.01	369	90	0.05	4	2	0.03192484023
1742.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	162	0.01	8.3	0.02	370	75	0.02	6	4	0.03458331473
1743.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	163	0.04	8.4	0.02	375	80	0.03	2	1	0.06250784310
1744.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	165	0.02	8.5	0.01	380	82	0.01	5	3	0.04538815444
1745.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	164	0.03	8.6	0.02	345	86	0.04	7	4	0.05035854247
1746.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	167	0.01	8.7	0.01	360	88	0.05	3	2	0.14520758211
1747.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	170	0.04	8.8	0.02	362	89	0.02	3	1	0.05253598819
1748.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	171	0.02	8.9	0.02	363	90	0.03	6	4	0.21402187256
1749.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	172	0.03	9	0.01	400	92	0.01	5	2	0.00907328978

1750.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	180	0.01	9	0.02	405	94	0.04	4	3	0.00954403942
1751.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	185	0.04	10	0.01	406	95	0.02	5	2	0.03909024262
1752.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	182	0.02	10	0.02	408	93	0.03	2	1	0.00794862732
1753.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	186	0.03	9.3	0.01	410	96	0.01	6	4	0.00235732962
1754.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	189	0.01	9.2	0.01	411	100	0.05	3	1	0.00635498332
1755.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	170	0.04	9.4	0.02	415	102	0.02	4	2	0.03182442837
1756.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	174	0.02	9.5	0.01	416	105	0.03	7	4	0.10927771862
1757.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	175	0.03	9.6	0.02	417	106	0.01	2	1	0.01751089173
1758.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	177	0.01	9.7	0.02	418	107	0.04	5	3	0.00798068223
1759.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	178	0.04	9.8	0.02	419	108	0.02	4	2	0.10058548853
1760.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	180	0.02	9.9	0.01	420	95	0.03	3	1	0.00212602341
1761.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	183	0.03	10	0.02	380	98	0.01	6	4	0.00427248977
1762.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	184	0.01	9.8	0.01	385	99	0.04	4	2	0.02848069231
1763.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	186	0.04	9.3	0.02	386	100	0.05	3	1	0.07696060609
1764.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	174	0.02	8.5	0.01	389	102	0.02	7	4	0.00471443277
1765.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	160	0.03	8.2	0.02	390	104	0.03	5	3	0.00429483184
1766.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	165	0.01	8.6	0.02	395	101	0.01	4	2	0.04346212750
1767.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	166	0.04	8.4	0.02	370	103	0.04	4	2	0.16065053647
1768.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	168	0.02	8.7	0.02	380	106	0.05	5	3	0.34602014983
1769.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	167	0.03	8.8	0.01	388	107	0.02	2	1	0.12256987165
1770.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	170	0.01	8.2	0.01	390	108	0.03	6	4	0.10199873475
1771.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	159	0.04	8.9	0.01	392	109	0.01	2	1	0.04195243794
1772.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	162	0.02	9	0.01	400	110	0.04	4	2	0.05548560345
1773.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	155	0.03	8	0.02	395	75	0.02	2	1	0.02497989002
1774.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	162	0.01	10	0.02	386	78	0.03	5	3	0.03434201145
1775.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	160	0.04	8.2	0.02	380	80	0.01	6	4	0.03709879930
1776.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	164	0.02	8.3	0.01	378	82	0.05	5	2	0.06015857111
1777.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	163	0.03	8.4	0.01	360	83	0.04	2	1	0.02328727025
1778.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	165	0.01	8.6	0.01	405	84	0.02	7	4	0.06242555978
1779.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	170	0.04	8.5	0.02	410	85	0.03	5	3	0.05469910121

1780.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	175	0.02	8.7	0.02	412	86	0.01	4	2	0.17491738775
1781.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	171	0.03	8.8	0.02	415	88	0.04	2	1	0.20516149008
1782.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.01	8.9	0.02	416	90	0.05	6	4	0.05724366737
1783.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	180	0.02	9	0.01	418	92	0.02	5	2	0.05081665357
1784.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.03	9.2	0.01	417	96	0.03	2	1	0.04911813609
1785.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	183	0.01	9.3	0.01	420	99	0.01	7	4	0.05143847322
1786.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	186	0.04	9.4	0.02	423	100	0.04	5	3	0.04057496966
1787.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	190	0.02	9.5	0.02	390	102	0.05	4	2	0.04424886275
1788.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	200	0.03	9.6	0.02	395	105	0.02	2	1	0.05058950311
1789.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	156	0.01	9.7	0.02	396	106	0.03	6	4	0.06896207159
1790.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	168	0.04	9.8	0.01	400	104	0.01	5	2	0.01801272979
1791.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	167	0.02	9.9	0.01	358	105	0.04	5	3	0.02552772968
1792.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	170	0.03	10	0.01	369	88	0.05	2	1	0.04938506185
1793.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	172	0.01	8.2	0.01	370	90	0.02	6	4	0.29004210469
1794.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	178	0.04	8.3	0.02	380	95	0.03	4	2	0.04596122675
1795.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	180	0.02	8.4	0.02	385	97	0.01	2	1	0.01851130921
1796.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	182	0.03	8.5	0.02	386	100	0.04	5	3	0.02504368591
1797.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	183	0.01	8.6	0.02	388	102	0.05	6	4	0.10982009529
1798.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	186	0.02	8.7	0.01	390	104	0.02	5	2	0.12153525418
1799.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	159	0.03	8.8	0.01	392	105	0.01	2	1	0.01696353177
1800.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	160	0.04	8.9	0.01	399	106	0.03	7	4	0.03565031006
1801.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	164	0.01	9	0.02	400	103	0.02	5	3	0.16373354493
1802.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	168	0.02	9.2	0.02	401	102	0.03	6	4	4.21313010016
1803.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	167	0.03	9.3	0.02	405	104	0.01	2	1	0.08081146239
1804.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	170	0.01	9.4	0.01	400	107	0.05	5	3	0.03537610166
1805.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	175	0.04	10	0.01	395	90	0.02	4	2	0.03057897133
1806.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	178	0.02	8.4	0.02	380	75	0.01	5	3	0.06245301363
1807.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	177	0.01	8.2	0.02	377	80	0.03	2	1	0.03934063594
1808.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	184	0.03	10	0.02	372	78	0.02	4	2	0.02571245364
1809.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	186	0.04	8.5	0.01	370	82	0.05	7	4	0.05558691628

1810.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	183	0.02	9.2	0.01	367	83	0.04	3	1	0.04674880551
1811.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	182	0.01	9.3	0.01	364	84	0.01	6	3	0.04937568455
1812.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	184	0.03	9.7	0.02	360	85	0.03	4	2	0.05862847836
1813.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	183	0.02	9.8	0.02	366	90	0.02	2	1	0.03959091239
1814.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	180	0.03	9.9	0.01	380	86	0.05	5	2	0.03468091647
1815.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	181	0.01	9.5	0.02	382	97	0.04	3	1	0.07725995148
1816.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	182	0.04	9.6	0.02	385	99	0.01	7	4	0.00556930092
1817.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	180	0.02	9.4	0.01	384	100	0.03	6	4	0.11704759509
1818.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	178	0.03	9.3	0.01	387	102	0.05	2	1	0.02185619048
1819.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	174	0.01	9.2	0.01	388	104	0.04	4	2	0.03046325572
1820.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	171	0.01	9	0.02	390	103	0.02	5	3	0.10265412031
1821.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	172	0.04	8.9	0.02	387	105	0.01	7	4	0.07764148825
1822.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	170	0.02	8.8	0.02	386	90	0.03	6	4	0.01758436536
1823.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	165	0.03	9	0.01	380	95	0.02	3	1	0.05575701343
1824.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	162	0.01	8.4	0.01	375	96	0.04	2	1	0.00367616674
1825.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	160	0.04	8.3	0.01	395	98	0.05	4	2	0.03606446464
1826.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	156	0.02	8.2	0.02	440	97	0.03	5	3	0.05313383285
1827.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	155	0.03	8	0.02	420	99	0.01	7	4	0.01323948627
1828.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	175	0.03	8.2	0.01	390	100	0.03	4	2	0.02670578425
1829.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	172	0.02	8.1	0.01	388	102	0.02	2	1	0.03376475849
1830.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	180	0.01	8.3	0.02	390	104	0.01	6	4	0.39769138650
1831.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	182	0.04	8.4	0.02	392	105	0.04	5	3	0.11094816979
1832.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	183	0.02	8.6	0.02	395	106	0.05	4	2	0.00693864449
1833.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	174	0.03	8.5	0.01	400	103	0.02	2	1	0.06712346649
1834.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	180	0.01	8.7	0.01	402	107	0.03	6	4	0.06813973239
1835.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	176	0.04	8.8	0.01	401	99	0.01	2	1	0.05366026585
1836.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	175	0.02	10	0.02	405	100	0.04	4	2	0.00882794903
1837.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.03	8.9	0.01	407	102	0.02	5	3	0.02203762789
1838.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	174	0.01	9.1	0.01	408	104	0.03	6	4	0.00890800883
1839.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	170	0.04	9.2	0.01	410	105	0.01	2	1	0.04462757098

1840.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	167	0.02	9.3	0.01	444	98	0.04	4	2	0.02981667766
1841.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	168	0.03	9.4	0.01	420	99	0.05	7	4	0.06122703590
1842.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	156	0.02	9.5	0.02	430	100	0.02	2	1	0.03231104143
1843.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	190	0.01	9.6	0.02	380	85	0.03	5	3	0.05954708527
1844.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	188	0.04	9.7	0.01	386	86	0.01	4	2	0.04993906387
1845.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	184	0.02	9.8	0.01	389	87	0.04	2	1	0.03617277803
1846.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	186	0.03	9.9	0.01	390	88	0.05	4	2	0.04799343317
1847.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	181	0.01	10	0.02	320	90	0.02	5	3	0.06538700393
1848.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	182	0.04	9.6	0.02	350	93	0.03	6	4	0.04965406494
1849.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	180	0.02	9.7	0.01	358	98	0.01	5	2	0.07303487017
1850.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	178	0.03	9.3	0.01	360	97	0.04	6	4	0.07646107659
1851.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	175	0.01	9.2	0.02	366	99	0.05	2	1	0.04064691614
1852.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	170	0.04	9.8	0.02	370	85	0.02	5	3	0.00979242373
1853.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	167	0.02	9.8	0.02	375	86	0.03	5	2	0.06326093154
1854.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	164	0.03	9.7	0.01	377	80	0.01	7	4	0.04628901178
1855.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	162	0.01	9.4	0.01	380	84	0.03	5	3	0.06793448690
1856.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	160	0.02	9	0.01	360	82	0.03	5	2	0.06936532702
1857.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	165	0.03	9.2	0.02	380	90	0.03	6	4	0.05013699283
1858.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	162	0.02	10	0.01	385	109	0.04	7	4	0.24290340973
1859.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	190	0.01	9	0.01	386	108	0.05	5	3	0.25542364642
1860.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	187	0.04	8.9	0.01	377	107	0.01	4	2	0.30344689803
1861.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	186	0.02	8.8	0.01	375	104	0.05	2	1	0.02715051259
1862.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	185	0.03	8.7	0.01	368	106	0.03	3	1	0.03846074910
1863.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	184	0.01	8.6	0.02	350	105	0.01	6	4	0.06910733975
1864.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	183	0.04	8.5	0.02	345	102	0.04	7	4	0.05840647332
1865.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	181	0.02	8.4	0.01	342	102	0.02	4	2	0.07141157485
1866.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	182	0.03	8.3	0.01	357	100	0.03	5	3	0.04374553176
1867.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	180	0.01	9	0.01	368	98	0.01	6	4	0.03621229113
1868.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	175	0.04	9.1	0.02	372	94	0.04	3	1	0.05119343034
1869.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	174	0.02	9.4	0.02	380	93	0.02	2	1	0.08396507995

1870.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.03	9.6	0.01	381	92	0.03	4	2	0.07250939072
1871.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	171	0.01	9.7	0.01	392	90	0.01	5	3	0.35084360635
1872.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	170	0.04	9.9	0.02	396	87	0.04	7	4	0.01389802516
1873.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	167	0.02	9.8	0.02	400	86	0.05	6	4	0.07476088540
1874.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	165	0.03	9.5	0.02	368	85	0.02	5	3	0.04218487544
1875.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	164	0.01	9.3	0.01	378	100	0.03	3	1	0.06041001947
1876.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	162	0.04	9.2	0.01	380	98	0.01	4	2	0.04588512600
1877.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	161	0.03	10	0.01	392	95	0.05	2	1	0.03220078449
1878.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	165	0.04	8	0.02	398	100	0.02	4	2	0.04070960205
1879.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	168	0.02	8.1	0.02	390	95	0.03	6	4	0.06584439730
1880.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	167	0.04	8.2	0.02	397	94	0.01	2	1	0.07796948070
1881.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	168	0.01	8.3	0.01	400	115	0.05	5	3	0.02187465298
1882.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	170	0.02	8.4	0.01	402	104	0.04	4	2	0.02335792493
1883.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	171	0.03	8.5	0.02	405	102	0.02	2	1	0.02012667764
1884.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.02	8.6	0.02	408	100	0.03	7	4	0.10246798256
1885.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	174	0.04	8.7	0.02	410	98	0.01	4	2	0.04462414800
1886.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	178	0.01	8.8	0.01	413	91	0.05	2	1	0.05490421872
1887.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	180	0.02	8.9	0.01	416	95	0.02	6	4	0.06563913992
1888.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	166	0.03	9	0.01	398	94	0.03	5	3	0.05690587562
1889.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	169	0.02	10	0.01	397	92	0.01	4	2	0.14795462415
1890.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	168	0.01	9.1	0.02	392	90	0.04	2	1	0.04228993861
1891.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	170	0.02	9.2	0.02	390	89	0.05	7	4	0.00836447072
1892.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	171	0.03	9.5	0.02	398	87	0.03	4	2	0.04352971062
1893.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	172	0.04	9.6	0.02	396	86	0.02	2	1	0.20552195286
1894.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	180	0.02	9.3	0.01	394	83	0.01	5	3	0.09131649199
1895.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	183	0.01	9.7	0.01	399	82	0.03	4	2	0.03879493307
1896.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	184	0.02	9.8	0.01	400	84	0.04	6	4	0.00948970991
1897.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	190	0.02	9.2	0.01	402	80	0.05	2	1	0.02432208461
1898.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	188	0.03	9.9	0.01	401	75	0.02	4	2	0.06041541296
1899.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	194	0.04	10	0.02	406	88	0.03	5	3	0.05113970683

1900.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	195	0.01	9.4	0.02	408	82	0.01	2	1	0.22338474339
1901.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	168	0.02	9.8	0.02	399	75	0.04	5	3	0.02361086222
1902.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	166	0.03	10	0.01	400	82	0.03	2	1	0.06682851432
1903.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	170	0.01	9.3	0.01	402	83	0.02	7	4	0.05166254500
1904.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.04	9.2	0.01	403	84	0.01	6	4	0.07603187772
1905.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	173	0.02	9.4	0.02	405	86	0.03	5	3	0.17877039064
1906.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	175	0.03	9.5	0.02	407	87	0.04	3	1	0.08906158976
1907.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	178	0.01	9.6	0.02	395	88	0.02	2	1	0.05701740351
1908.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	180	0.03	9.7	0.01	398	89	0.03	5	3	0.09515781010
1909.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	190	0.02	9.8	0.01	397	90	0.01	7	4	0.12679734922
1910.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	194	0.01	9.9	0.02	394	95	0.02	2	1	0.10147244773
1911.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	184	0.04	10	0.01	396	100	0.03	4	2	0.06033429176
1912.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	185	0.02	8.2	0.01	395	102	0.01	3	1	0.05544804841
1913.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	186	0.01	8.1	0.02	345	103	0.05	5	3	0.06214329694
1914.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	187	0.03	8	0.02	350	104	0.05	4	2	0.04278963220
1915.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	190	0.04	8.3	0.01	356	107	0.05	2	1	0.07551797369
1916.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	192	0.02	8.4	0.01	368	108	0.02	7	4	0.03613910138
1917.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	193	0.03	8.5	0.02	367	110	0.03	6	4	0.02232484272
1918.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	186	0.01	8.6	0.01	370	90	0.01	2	1	0.11647781490
1919.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	156	0.04	8.7	0.02	372	92	0.05	3	1	0.01853909128
1920.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	168	0.02	8.8	0.02	375	95	0.04	4	2	0.01637234351
1921.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	167	0.03	8.9	0.02	376	98	0.02	2	1	0.02825719875
1922.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	169	0.01	9	0.01	377	100	0.03	5	3	0.00468793056
1923.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	170	0.02	10	0.01	378	102	0.01	7	4	0.04205854478
1924.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	172	0.04	8.2	0.01	380	104	0.04	3	1	0.02209458984
1925.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	171	0.03	8.5	0.01	388	107	0.05	6	4	0.05579765516
1926.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	175	0.02	8.6	0.02	385	90	0.02	5	2	0.07524589781
1927.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	180	0.01	8.3	0.02	400	98	0.03	4	2	0.06622858809
1928.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	182	0.04	8.7	0.02	405	88	0.04	2	1	0.05519206395
1929.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	205	0.02	8	0.01	450	100	0.02	4	2	0.04075082308

1930.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	210	0.03	9	0.01	458	120	0.03	6	4	0.05736363823
1931.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	230	0.01	10	0.01	467	130	0.05	2	1	0.07306010883
1932.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	225	0.04	9.9	0.02	470	140	0.04	5	3	0.04929205023
1933.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.02	9.8	0.02	472	145	0.02	4	2	0.06245345491
1934.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	245	0.03	9.8	0.02	475	150	0.03	6	4	0.06860535489
1935.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	250	0.01	9.7	0.01	448	156	0.01	2	1	0.03788182826
1936.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	223	0.04	9.6	0.01	480	167	0.05	4	2	0.04777515223
1937.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	228	0.02	9.4	0.01	458	168	0.02	2	1	0.08245763936
1938.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	227	0.03	9.2	0.01	460	170	0.03	6	4	0.05109242443
1939.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	230	0.01	9.3	0.02	462	172	0.04	5	3	0.07728903247
1940.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	234	0.04	9.4	0.02	468	175	0.01	4	2	0.09063359715
1941.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	241	0.02	9.5	0.02	469	180	0.02	2	1	0.01555490903
1942.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	228	0.03	9.7	0.01	470	182	0.03	6	4	0.04536942354
1943.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	214	0.01	9.8	0.01	472	183	0.05	2	1	0.00827855125
1944.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	218	0.02	9.2	0.01	475	145	0.02	4	2	0.01082344046
1945.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	220	0.04	9.1	0.02	480	156	0.03	5	3	0.04367999415
1946.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	226	0.02	8.5	0.01	480	168	0.01	4	2	0.03748905878
1947.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	225	0.01	8.6	0.01	483	167	0.04	2	1	0.02843512801
1948.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	240	0.03	8.7	0.02	450	166	0.05	7	4	0.07823211214
3881.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.01	8.8	0.01	468	171	0.02	2	1	1.28377875081
3882.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	250	0.04	8.2	0.01	470	172	0.03	4	2	0.68680622650
3883.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	224	0.02	8.3	0.01	475	178	0.01	5	3	0.12712180948
3957.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	230	0.03	8.4	0.01	478	180	0.04	4	2	0.09257771660
3958.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	221	0.01	8.5	0.02	488	182	0.05	2	1	0.01851872234
3959.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.02	8.6	0.02	480	181	0.02	6	4	0.01985421325
3960.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	221	0.04	10	0.02	458	156	0.04	2	1	0.05283819256
3961.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.01	9	0.01	466	170	0.05	4	2	0.11158296846
3962.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.03	10	0.02	478	175	0.02	2	1	0.04996924918
3963.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	225	0.01	8.2	0.01	475	180	0.03	4	2	0.03365178828
3964.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	230	0.04	8.3	0.01	456	182	0.01	6	4	0.04143910854

3965.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	245	0.02	8.4	0.02	468	184	0.05	5	3	0.12648288687
3966.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	250	0.03	8.5	0.02	467	177	0.04	4	2	0.03958494944
3967.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	214	0.01	8.6	0.01	482	178	0.02	2	1	7.84396842973
3968.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	217	0.04	8.7	0.01	483	180	0.03	6	4	0.15559520605
3969.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	218	0.02	8.8	0.01	450	181	0.01	4	2	0.26051319242
3970.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	8.9	0.02	456	156	0.05	2	1	0.07262909137
3971.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	223	0.01	9	0.01	467	162	0.02	6	4	0.03369653645
3972.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	9.1	0.01	468	164	0.03	5	3	0.04533844470
3973.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.04	9.2	0.02	470	167	0.01	4	2	0.04307378651
3974.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	233	0.02	9.3	0.02	472	168	0.04	2	1	0.07348275702
3975.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.4	0.01	475	170	0.05	7	4	0.05131639935
3976.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.03	9.5	0.02	476	171	0.02	2	1	0.06134657765
3977.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	9.6	0.02	478	172	0.03	4	2	0.05523325332
3978.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	241	0.04	9.7	0.01	480	175	0.01	5	3	0.04021618993
3979.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	230	0.02	9.8	0.01	482	180	0.05	7	4	0.02058806662
3980.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	234	0.03	9.9	0.02	481	182	0.04	2	1	0.01944509246
3981.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	235	0.01	10	0.01	486	183	0.02	4	2	0.02810521464
3982.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	236	0.02	8.2	0.02	487	184	0.03	6	4	0.02904115127
3983.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	237	0.04	8	0.02	488	190	0.01	5	3	0.06555516832
3984.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.01	8.1	0.01	489	185	0.05	4	2	0.04763596673
3985.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	230	0.04	8.3	0.01	490	186	0.04	2	1	0.06069306502
3986.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	225	0.02	8.4	0.02	485	183	0.02	7	4	0.04959717019
3987.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	224	0.03	8.7	0.02	486	184	0.03	4	2	0.05511670755
3988.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	227	0.01	8.5	0.02	455	178	0.01	2	1	0.02071538898
3989.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.02	8.6	0.01	458	180	0.02	5	3	0.02153318667
3990.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	214	0.04	8.9	0.01	475	165	0.03	5	3	0.04190479165
3991.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	217	0.01	8.7	0.02	477	164	0.01	6	4	0.04727991261
3992.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	159	0.04	8.9	0.01	392	109	0.01	2	1	0.05436529259
3993.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	162	0.02	9	0.01	400	110	0.04	4	2	0.05681137243
3994.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	155	0.03	8	0.02	395	75	0.02	2	1	0.06056041764

3995.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	162	0.01	10	0.02	386	78	0.03	5	3	0.09229062098
3996.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	160	0.04	8.2	0.02	380	80	0.01	6	4	0.04776061741
3997.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	164	0.02	8.3	0.01	378	82	0.05	5	2	0.06373179330
3998.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	163	0.03	8.4	0.01	360	83	0.04	2	1	0.08028113868
3999.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	165	0.01	8.6	0.01	405	84	0.02	7	4	0.07127788423
4000.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	170	0.04	8.5	0.02	410	85	0.03	5	3	0.06427164313
4001.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	175	0.02	8.7	0.02	412	86	0.01	4	2	0.10445406775
4002.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	171	0.03	8.8	0.02	415	88	0.04	2	1	0.08258801766
4003.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.01	8.9	0.02	416	90	0.05	6	4	0.04299589764
4004.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	180	0.02	9	0.01	418	92	0.02	5	2	0.03882296043
4005.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.03	9.2	0.01	417	96	0.03	2	1	0.04863228130
4006.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	183	0.01	9.3	0.01	420	99	0.01	7	4	0.08406445851
4007.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	186	0.04	9.4	0.02	423	100	0.04	5	3	0.03909411824
4008.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	190	0.02	9.5	0.02	390	102	0.05	4	2	0.05614134443
4009.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	200	0.03	9.6	0.02	395	105	0.02	2	1	0.12728714350
4010.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	156	0.01	9.7	0.02	396	106	0.03	6	4	0.04715214672
4011.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	168	0.04	9.8	0.01	400	104	0.01	5	2	0.03803875564
4012.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	167	0.02	9.9	0.01	358	105	0.04	5	3	0.05821172332
4013.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	170	0.03	10	0.01	369	88	0.05	2	1	0.03036069667
4014.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	172	0.01	8.2	0.01	370	90	0.02	6	4	0.03361462271
4015.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	178	0.04	8.3	0.02	380	95	0.03	4	2	0.07020529133
4016.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	180	0.02	8.4	0.02	385	97	0.01	2	1	0.09718615210
4017.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	182	0.03	8.5	0.02	386	100	0.04	5	3	0.02071389416
4018.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	183	0.01	8.6	0.02	388	102	0.05	6	4	0.05124092704
4019.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	164	0.01	9.3	0.01	378	100	0.03	3	1	0.06533003528
4020.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	162	0.04	9.2	0.01	380	98	0.01	4	2	0.05229473280
4021.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	161	0.03	10	0.01	392	95	0.05	2	1	0.04826539600
4022.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	165	0.04	8	0.02	398	100	0.02	4	2	0.14608789646
4023.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	168	0.02	8.1	0.02	390	95	0.03	6	4	0.06080025221
4024.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	167	0.04	8.2	0.02	397	94	0.01	2	1	0.04409469372

4025.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	168	0.01	8.3	0.01	400	115	0.05	5	3	0.04059069411
4026.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	170	0.02	8.4	0.01	402	104	0.04	4	2	0.04315125180
4027.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	171	0.03	8.5	0.02	405	102	0.02	2	1	0.14944281647
4028.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.02	8.6	0.02	408	100	0.03	7	4	0.08948842737
4029.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	174	0.04	8.7	0.02	410	98	0.01	4	2	0.04405252876
4030.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	178	0.01	8.8	0.01	413	91	0.05	2	1	0.06193118761
4031.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	180	0.02	8.9	0.01	416	95	0.02	6	4	0.02838154474
4032.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	166	0.03	9	0.01	398	94	0.03	5	3	0.20427996406
4033.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	169	0.02	10	0.01	397	92	0.01	4	2	0.78523348556
4034.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	168	0.01	9.1	0.02	392	90	0.05	2	1	0.06220126396
4035.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	225	0.02	8	0.01	450	110	0.04	4	2	0.02983977289
4036.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	222	0.03	8.2	0.01	455	120	0.01	5	3	0.06407530584
4037.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	245	0.01	8.3	0.01	468	125	0.03	7	4	0.04601006082
4038.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	241	0.04	8.1	0.02	470	130	0.02	6	4	0.13758109868
4039.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	236	0.02	8.5	0.01	472	132	0.02	2	1	0.03454323919
4040.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	230	0.03	8.6	0.01	475	134	0.03	3	2	0.06131026073
4041.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	225	0.01	9	0.01	480	135	0.02	6	4	0.07204991489
4042.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	10	0.02	485	140	0.05	2	1	0.10590010309
4043.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	9.3	0.02	486	145	0.04	4	2	0.08078763974
4044.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	215	0.04	9.6	0.01	488	141	0.01	5	3	0.05217820753
4045.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.02	9.4	0.01	450	142	0.03	6	4	0.02469195394
4046.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	240	0.01	9.8	0.02	455	140	0.02	7	4	0.01364334673
4047.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.03	10	0.02	452	135	0.05	2	1	0.08347766087
4048.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	250	0.01	9.3	0.02	458	138	0.04	3	1	0.11990614210
4049.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.02	9.2	0.01	456	132	0.01	4	2	0.01358298783
4050.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	220	0.03	9.4	0.01	459	135	0.03	7	4	0.06150416283
4051.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.04	9.7	0.01	460	138	0.02	5	3	0.06250104643
4052.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.02	8.2	0.02	462	120	0.04	6	4	0.12920895026
4053.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	210	0.01	8.3	0.01	465	122	0.05	3	1	0.74936391922
4054.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	205	0.03	8.4	0.01	473	132	0.03	2	1	0.06264481562

4055.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	200	0.02	8.5	0.01	455	134	0.01	7	4	0.02271755106
4056.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	210	0.04	9	0.02	468	136	0.02	5	3	0.34280066709
4057.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	222	0.04	8	0.02	466	140	0.02	2	1	0.19324470031
4058.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	225	0.02	8.2	0.01	489	145	0.01	4	2	0.03312910132
4059.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	224	0.03	8.3	0.01	455	133	0.05	6	4	0.12411325091
4060.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	212	0.01	8.4	0.01	472	135	0.04	5	3	0.34211972770
4061.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	210	0.02	8.5	0.01	455	138	0.02	4	2	0.04154724915
4062.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	215	0.02	8.6	0.02	440	137	0.05	2	1	0.03138817319
4063.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	218	0.03	8.8	0.01	445	104	0.03	6	4	0.46464919755
4064.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	220	0.01	9	0.01	450	110	0.01	4	2	0.10209813495
4065.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	226	0.04	9.2	0.01	412	120	0.04	2	1	0.07142091295
4066.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	229	0.02	9.3	0.02	423	125	0.05	6	4	0.02864075678
4067.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.03	9.4	0.01	425	128	0.02	5	3	0.03631398337
4068.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	234	0.01	9.5	0.01	422	127	0.03	4	2	0.04732833291
4069.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	235	0.02	10	0.01	456	122	0.01	2	1	0.08182711376
4070.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	238	0.04	9.6	0.02	468	120	0.04	7	4	0.03354292964
4071.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.02	9.7	0.02	467	118	0.05	4	2	0.08801918176
4072.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	224	0.03	9.8	0.01	470	115	0.02	5	3	0.05843379268
4073.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	225	0.01	9.9	0.01	475	124	0.03	4	2	0.03893907259
4074.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	215	0.04	10	0.02	485	126	0.01	2	1	0.23503280986
4075.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	218	0.02	9.5	0.02	455	123	0.04	6	4	0.02756269746
4076.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	228	0.03	8.6	0.02	462	122	0.02	4	2	0.02793607440
4077.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	230	0.01	8.3	0.01	468	114	0.05	2	1	0.01855587011
4078.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	234	0.04	8.2	0.01	467	100	0.03	7	4	0.05696367694
4079.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	235	0.02	8.1	0.01	466	105	0.01	5	3	0.05952572329
4080.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	237	0.03	8	0.02	422	106	0.04	4	2	0.02979977161
4081.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	224	0.01	10	0.01	425	108	0.02	2	1	0.06149971113
4082.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	247	0.04	9.2	0.01	430	114	0.05	6	4	0.05666258916
4083.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	215	0.02	9.4	0.01	435	115	0.03	4	2	0.18518438345
4084.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	218	0.03	9.8	0.02	438	120	0.01	5	3	0.08560882078

4085.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	226	0.01	9.9	0.01	440	130	0.04	4	2	0.04294347224
4086.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	235	0.04	10	0.01	445	125	0.05	7	4	0.07840933227
4087.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	238	0.02	8.2	0.02	450	136	0.02	2	1	0.02096902938
4088.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	244	0.03	8.3	0.01	456	140	0.03	4	2	0.03465586490
4089.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	250	0.01	8.5	0.01	468	145	0.01	2	1	0.04932488126
4090.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	247	0.04	8.8	0.01	470	150	0.04	6	4	0.05151784038
4091.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	225	0.02	8.9	0.02	477	112	0.05	5	3	0.04541279475
4092.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.03	9	0.01	455	115	0.02	2	1	0.08526639988
4093.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	216	0.01	10	0.01	468	118	0.03	4	2	0.08098533738
4094.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	219	0.04	9.6	0.01	469	122	0.05	6	4	0.04097074273
4095.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	221	0.02	9.4	0.02	470	120	0.02	5	3	0.06233461986
4096.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	210	0.03	10	0.01	455	126	0.04	6	4	0.05263649982
4097.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	214	0.03	8	0.01	410	122	0.05	4	2	0.03095885433
4098.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	220	0.03	8.2	0.02	425	123	0.02	5	3	0.05899696635
4099.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	225	0.02	8.4	0.02	422	125	0.03	2	1	0.04455518348
4100.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	226	0.01	8.6	0.02	415	122	0.01	4	2	0.01201982490
4101.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	228	0.04	8.8	0.01	423	142	0.04	7	4	0.04745806177
4102.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	230	0.02	8.9	0.02	436	132	0.05	3	1	0.04088770976
4103.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	235	0.03	9	0.02	440	133	0.02	6	3	0.03020345782
4104.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	240	0.01	9.2	0.02	445	140	0.03	5	3	0.08432687266
4105.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	215	0.04	9.4	0.01	418	141	0.01	4	2	0.08334407921
4106.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	216	0.02	9.5	0.01	420	145	0.04	2	1	0.04902150602
4107.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	218	0.03	9.6	0.01	415	122	0.02	7	4	0.06537553473
4108.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	220	0.01	10	0.01	418	128	0.03	3	2	0.06955806816
4109.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	223	0.02	10	0.02	426	135	0.05	2	1	0.03346035891
4110.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	225	0.03	9.3	0.02	425	134	0.02	6	4	0.10273599392
4111.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.04	9.5	0.02	428	137	0.03	5	3	0.03541193800
4112.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	228	0.02	9.4	0.01	426	140	0.01	4	2	0.07865959849
4113.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	230	0.02	9.6	0.01	439	142	0.04	7	4	0.04994444296
4114.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	235	0.01	8.2	0.01	440	145	0.02	2	1	0.04090825413

4115.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	238	0.03	8.3	0.02	415	142	0.03	3	1	0.05319537363
4116.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.02	8.7	0.02	447	141	0.05	5	2	0.04938011404
4117.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	245	0.04	8.8	0.01	478	123	0.05	4	2	0.03204335479
4118.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	226	0.01	8.9	0.01	470	136	0.05	7	4	0.06956208833
4119.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	242	0.02	9	0.01	465	140	0.05	6	4	0.04492930545
4120.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	215	0.03	9.2	0.02	462	125	0.02	3	1	0.05822106858
4121.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	216	0.01	9.5	0.02	463	128	0.03	5	3	0.06025646646
4122.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	219	0.04	9.6	0.01	466	129	0.01	2	1	0.02446413749
4123.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	223	0.02	9.8	0.01	465	130	0.04	4	2	0.04401028811
4124.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	225	0.03	9.9	0.01	470	132	0.02	7	4	0.11580233143
4125.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.01	10	0.02	478	135	0.03	2	1	0.09439345761
4126.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.02	8.2	0.02	455	136	0.01	3	1	0.04159897035
4127.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	232	0.04	8.4	0.02	456	144	0.04	5	2	0.04992181125
4128.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.03	8.6	0.01	470	127	0.05	4	2	0.06299872873
4129.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	225	0.03	10	0.02	480	122	0.02	2	1	0.07097320750
4130.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	230	0.01	8.2	0.01	485	125	0.03	6	4	0.10544450541
4131.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.04	8.3	0.01	476	124	0.01	4	2	0.06599500756
4132.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.02	8.5	0.01	435	140	0.04	5	3	0.03573712817
4133.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	220	0.03	8.6	0.02	448	145	0.02	7	4	0.07757373984
4134.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	225	0.01	8.4	0.01	450	123	0.03	2	1	0.05653149472
4135.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	218	0.04	8.7	0.01	468	136	0.01	4	2	0.08514535050
4136.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	226	0.02	8.8	0.02	477	138	0.04	7	4	0.06954263506
4137.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	230	0.03	8.9	0.02	485	141	0.05	5	3	0.06515785765
4138.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	235	0.01	8.5	0.02	462	147	0.02	4	2	0.06729930086
4139.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	236	0.04	10	0.01	466	120	0.03	2	1	0.04619700851
4140.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	240	0.02	9.5	0.02	461	110	0.01	6	4	0.01383971519
4141.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	245	0.03	9.6	0.02	450	112	0.04	4	2	0.05829659223
4142.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	215	0.01	9.3	0.02	440	115	0.05	2	1	0.06197257714
4143.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	219	0.04	9.8	0.01	442	118	0.02	5	3	0.01064587458
4144.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	220	0.02	9.9	0.01	447	95	0.03	6	4	0.01760718580

4145.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.03	10	0.01	448	96	0.01	2	1	0.03775815932
4146.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	225	0.01	8.2	0.01	456	98	0.04	4	2	0.06947617669
4147.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	226	0.04	8.4	0.02	463	100	0.05	7	4	0.05552043064
4148.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	230	0.02	8.6	0.02	468	102	0.02	5	3	0.04018500673
4149.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	241	0.01	8.7	0.02	470	106	0.03	2	1	0.03856748884
4150.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	215	0.03	8.8	0.01	452	108	0.01	4	2	0.06540536759
4151.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.04	10	0.01	455	113	0.04	2	1	0.11171253144
4152.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	220	0.02	9.2	0.01	462	118	0.05	7	4	0.03565108681
4153.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	226	0.03	9.4	0.02	465	126	0.02	5	3	0.04811818170
4154.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	227	0.01	9.5	0.02	441	128	0.03	4	2	0.07368968169
4155.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	213	0.04	9.8	0.01	425	125	0.01	2	1	1.45522412792
4156.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	218	0.02	9.9	0.01	430	130	0.05	6	4	0.02333682340
4157.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	200	0.03	9.7	0.01	438	135	0.04	4	2	0.22940242661
4158.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	210	0.02	9.3	0.02	440	136	0.02	2	1	2.55960128662
4159.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	205	0.01	10	0.02	452	138	0.03	7	4	0.17743845269
4160.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	208	0.04	8.7	0.01	457	140	0.01	5	3	0.22180251807
4161.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	200	0.04	8.8	0.01	458	142	0.04	4	2	0.12146337482
4162.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	195	0.02	8.9	0.01	460	145	0.05	2	1	0.11126505144
4163.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	198	0.03	8.6	0.02	465	123	0.02	6	4	0.54273975072
4164.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	200	0.01	8.3	0.02	468	122	0.03	4	2	2.33485068841
4165.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	206	0.04	8.4	0.02	470	136	0.01	2	1	13.47454348650
4166.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.02	8.7	0.01	472	133	0.04	5	3	0.08805545220
4167.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	218	0.03	8.8	0.01	475	135	0.05	4	2	0.01862926187
4168.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	223	0.01	8.2	0.01	456	134	0.02	2	1	0.01415753679
4169.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	228	0.04	8.4	0.01	462	137	0.01	7	4	0.07613527789
4170.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	230	0.02	8.6	0.02	468	140	0.03	4	2	0.04121425661
4171.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	236	0.03	8.9	0.02	469	122	0.05	2	1	0.03912308684
4172.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.01	9	0.01	470	123	0.04	5	3	0.13482673255
4173.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	240	0.04	10	0.01	472	136	0.02	6	4	0.05119378935
4174.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	244	0.02	8	0.01	446	133	0.05	2	1	0.02297573380

4175.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	216	0.03	9.2	0.02	463	135	0.03	4	2	0.06156959869
4176.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.01	9.4	0.02	468	138	0.01	4	2	0.06344800546
4177.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	228	0.02	9.7	0.02	469	132	0.04	5	3	0.63451198083
4178.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	230	0.04	9.6	0.01	472	134	0.02	2	1	0.12237840237
4179.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.03	9.8	0.01	475	136	0.05	7	4	0.09019245106
4180.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	215	0.02	9.9	0.02	453	123	0.01	5	3	0.84037913235
4181.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	217	0.01	10	0.02	466	140	0.03	2	1	0.58223962891
4182.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	219	0.04	9.6	0.02	477	138	0.02	6	4	0.06046126960
4183.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.02	9.5	0.01	448	132	0.05	5	3	0.05231230399
4184.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	222	0.03	8.3	0.02	492	164	0.02	7	4	0.06452705669
4185.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	8	0.02	496	167	0.01	6	4	0.04426520546
4186.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.04	8.3	0.02	497	168	0.04	3	1	0.02336382619
4187.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	245	0.02	8.4	0.02	488	171	0.05	2	1	2.64587365320
4188.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.03	8.6	0.01	489	172	0.01	4	2	0.27060113009
4189.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	247	0.04	8.7	0.01	490	145	0.03	7	4	0.15098605634
4190.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	248	0.01	8.8	0.01	493	151	0.02	5	2	2.02579125045
4191.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	250	0.02	8.9	0.02	495	152	0.04	6	4	0.05608254813
4192.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	230	0.03	9	0.02	492	156	0.05	3	2	0.06035992776
4193.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	232	0.04	9.1	0.02	491	163	0.01	2	1	0.06356187324
4194.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	233	0.01	9.3	0.01	490	164	0.03	4	2	0.06244121594
4195.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	235	0.02	9.5	0.01	450	167	0.02	5	3	0.01516647268
4196.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.03	9.4	0.02	456	168	0.05	7	4	0.02843827157
4197.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	240	0.01	9.6	0.02	468	171	0.04	6	4	0.37998102494
4198.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	241	0.04	9.8	0.02	467	172	0.01	3	2	0.12190981574
4199.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	231	0.02	9.9	0.01	488	174	0.03	2	1	0.46592846115
4200.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.03	10	0.01	468	178	0.02	5	3	3.78274389391
4201.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	237	0.01	10	0.01	467	156	0.04	4	2	0.57789225725
4202.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	239	0.04	8.6	0.02	477	161	0.01	7	4	0.22852458376
4203.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	230	0.02	8.4	0.02	488	162	0.03	5	3	0.31923692300
4204.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.03	8.7	0.02	489	161	0.05	2	1	0.15314776090

4205.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.04	8.8	0.01	466	145	0.02	4	2	0.06160302152
4206.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	228	0.01	8.9	0.01	472	152	0.05	6	4	0.05624277574
4207.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	229	0.02	9	0.01	478	158	0.04	7	4	0.05873943916
4208.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	230	0.04	9.2	0.02	490	160	0.03	3	2	0.06337706448
4209.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	231	0.03	9.3	0.02	492	170	0.01	2	1	0.04843694971
4210.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	232	0.02	9.6	0.01	455	172	0.02	5	3	0.07274654325
4211.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	241	0.02	8.8	0.02	482	158	0.03	7	4	0.03083599483
4212.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	244	0.03	8.9	0.01	483	155	0.01	4	2	0.08026339486
4213.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	250	0.04	9	0.02	486	192	0.04	5	3	0.05369614045
4214.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	250	0.02	9.2	0.01	488	190	0.02	2	1	0.06153654102
4215.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	245	0.03	9.3	0.02	489	189	0.03	6	4	0.07368073337
4216.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	9.6	0.01	497	183	0.05	3	2	0.15526929142
4217.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	239	0.02	9.7	0.01	488	182	0.01	7	4	0.03730297113
4218.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	238	0.03	9.8	0.01	485	178	0.04	4	2	0.04011644493
4219.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	237	0.04	9.9	0.02	482	171	0.05	5	3	0.11670407433
4220.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	234	0.02	10	0.02	483	167	0.02	2	1	0.05831762829
4221.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	236	0.03	10	0.02	486	168	0.03	7	4	0.10578350049
4222.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.01	9.5	0.02	462	164	0.05	6	2	0.02301676307
4223.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	245	0.04	9.6	0.01	465	165	0.01	5	3	0.37798084285
4224.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.02	9.7	0.01	457	162	0.04	3	1	0.04917792731
4225.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	242	0.03	9	0.01	458	161	0.02	4	2	0.02466918846
4226.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	245	0.01	10	0.01	469	158	0.03	5	3	0.06878686376
4227.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	240	0.04	8.2	0.02	470	155	0.05	2	1	0.01979673108
4228.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	230	0.02	8	0.01	477	167	0.02	4	2	0.02809650940
4229.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	235	0.03	8.3	0.02	482	178	0.01	7	4	0.03320569062
4230.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.04	8.4	0.01	485	181	0.05	3	1	0.08845281390
4231.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.01	8.8	0.02	486	182	0.04	6	3	1.34986097201
4232.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	247	0.02	8.9	0.02	487	183	0.05	3	2	0.09884312261
4233.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	244	0.03	9	0.01	489	178	0.03	2	1	0.03112179880
4234.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	250	0.01	10	0.01	491	181	0.04	5	4	0.05609925616

4235.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	222	0.04	9.2	0.02	492	178	0.05	4	2	0.06578498308
4236.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	221	0.02	9.4	0.01	495	191	0.02	2	1	0.08100705008
4237.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	223	0.03	9.7	0.02	465	190	0.03	7	4	0.06981827241
4238.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	240	0.01	10	0.01	475	162	0.01	4	2	0.04828912291
4239.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	242	0.04	8.6	0.02	472	164	0.05	7	4	0.12775882724
4240.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	245	0.02	8.7	0.02	468	167	0.04	6	4	0.05674881664
4241.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	240	0.03	8.5	0.01	467	168	0.02	3	1	0.08301412514
4242.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	238	0.01	9.2	0.01	456	172	0.03	2	1	0.08793474675
4243.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.04	9.5	0.02	452	170	0.01	5	3	0.06897568178
4244.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	235	0.02	9.6	0.01	448	174	0.04	4	2	0.05774906078
4245.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	230	0.03	9.7	0.01	486	145	0.05	7	4	0.10181394023
4246.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	225	0.01	9.8	0.02	493	152	0.02	2	1	0.07480460799
4247.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.04	10	0.02	492	156	0.03	5	3	0.06567395063
4248.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	8.3	0.01	489	123	0.01	3	2	0.09489908623
4249.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	8.4	0.01	486	136	0.04	6	4	0.01028431448
4250.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	218	0.04	8.6	0.02	485	140	0.05	4	2	0.02883483516
4251.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	214	0.02	8.8	0.01	482	145	0.02	7	4	0.18280450723
4252.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.03	8.9	0.01	480	158	0.03	2	1	0.07630048343
4253.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	210	0.01	9	0.02	478	162	0.01	5	3	0.06115654377
4254.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	206	0.02	10	0.01	467	172	0.04	4	2	0.05294131044
4255.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	205	0.04	8.2	0.01	456	171	0.02	7	4	0.07995680261
4256.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	202	0.04	8.5	0.02	445	178	0.03	2	1	0.09539109680
4257.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	208	0.03	8	0.01	444	182	0.01	3	2	0.02545162342
4258.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	210	0.02	8.5	0.01	445	162	0.05	6	4	0.05724370583
4259.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	213	0.01	8.2	0.01	458	165	0.02	4	2	0.01915735252
4260.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.02	8.3	0.01	465	164	0.03	2	1	0.01916882388
4261.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	242	0.04	9	0.01	493	145	0.03	5	3	0.25509536019
4262.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	243	0.02	9.2	0.02	455	152	0.01	2	1	0.08110668157
4263.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	246	0.03	9.3	0.01	468	156	0.04	4	2	0.07352349018
4264.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	222	0.01	10	0.01	467	167	0.02	5	3	0.07304402656

4265.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	218	0.04	9.6	0.02	478	171	0.05	7	4	0.02295426866
4266.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	223	0.02	9.5	0.01	477	172	0.03	6	4	0.23259319080
4267.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.03	9.8	0.01	489	178	0.02	3	2	1.83901088706
4268.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	231	0.01	9.9	0.02	492	180	0.01	2	1	0.60720168359
4269.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	233	0.04	9.4	0.01	491	188	0.04	5	3	0.05675593924
4270.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	234	0.02	9.6	0.02	488	192	0.02	4	2	0.25805068377
4271.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	235	0.03	9.3	0.01	490	123	0.03	7	4	0.04974827270
4272.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.04	9.7	0.01	492	122	0.01	4	2	0.06379398263
4273.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.01	9	0.02	488	125	0.03	2	1	0.06136240915
4274.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	240	0.02	8	0.01	490	128	0.02	7	4	0.06620980073
4275.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.03	8.2	0.02	480	126	0.04	5	3	0.11103885305
4276.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	245	0.04	8.3	0.01	470	155	0.05	4	2	0.07798474572
4277.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.01	8.4	0.02	460	145	0.03	2	1	0.03593816875
4278.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	247	0.02	8.5	0.02	455	142	0.01	6	4	0.08835239397
4279.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	222	0.03	8.6	0.01	458	147	0.04	5	3	0.01378206722
4280.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	223	0.01	8.7	0.01	469	170	0.02	4	2	0.03388858557
4281.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.04	8.8	0.01	472	171	0.03	2	1	0.20694065904
4282.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	250	0.02	8.9	0.02	475	172	0.01	7	4	0.04219146769
4283.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	212	0.03	9	0.02	485	173	0.04	4	2	0.03285669307
4284.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	219	0.01	9.2	0.01	486	142	0.02	5	3	0.02944189729
4285.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	223	0.02	9.3	0.02	483	141	0.05	2	1	0.67397981701
4286.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	220	0.03	9.4	0.01	486	140	0.01	6	4	0.02688910158
4287.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	214	0.04	9.5	0.01	482	150	0.04	4	2	0.08275484204
4288.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.02	9.6	0.02	490	160	0.05	2	1	0.08043319172
4289.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.03	9.7	0.02	492	170	0.03	5	3	0.08670397953
4290.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	234	0.01	9.8	0.02	495	180	0.01	7	4	0.05896388936
4291.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.04	9.9	0.01	499	133	0.04	4	2	0.05041746791
4292.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	236	0.02	10	0.01	500	125	0.02	5	3	0.05562805492
4293.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	240	0.03	9.6	0.01	486	128	0.03	2	1	0.08206330210
4294.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	241	0.01	9.3	0.02	467	135	0.01	6	4	0.09198123676

4295.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	233	0.04	9.5	0.02	478	140	0.04	4	2	0.00459156512
4296.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	236	0.02	9.8	0.02	488	145	0.02	5	3	0.06937101745
4297.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	235	0.03	9.2	0.01	489	156	0.03	2	1	0.05069514601
4298.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.01	8.5	0.01	492	162	0.04	6	4	0.06900212197
4299.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	222	0.04	8.6	0.01	495	161	0.02	4	2	0.04089803275
4300.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	221	0.04	8.3	0.01	485	164	0.02	5	3	0.04868952107
4301.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	219	0.02	8.4	0.02	486	152	0.03	2	1	0.13452750340
4302.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	223	0.03	10	0.02	487	158	0.04	6	4	0.06683333534
4303.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	226	0.01	9	0.02	477	160	0.01	5	2	0.08956296010
4304.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	235	0.04	8.6	0.01	491	164	0.02	2	1	0.04603448494
4305.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	189	0.03	8.8	0.01	492	168	0.03	6	4	0.08066885379
4306.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	188	0.01	10	0.02	458	171	0.05	2	1	15.72896317620
4307.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.04	8.5	0.02	458	178	0.02	4	2	0.08110868799
4308.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	200	0.02	10	0.01	468	180	0.01	5	2	0.10046657085
4309.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	235	0.01	8	0.01	456	181	0.04	3	2	0.04435624164
4310.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	170	0.04	8.4	0.02	326	90	0.03	5	3	0.04549152720
4311.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.03	8.1	0.02	333	86	0.04	3	2	0.07978205135
4312.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	175	0.02	9	0.01	320	84	0.02	2	4	0.02706497732
4313.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	178	0.01	9.3	0.01	345	82	0.01	2	4	0.03606821839
4314.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.04	9.6	0.02	325	80	0.05	4	1	0.07845444484
4315.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	150	0.03	9.9	0.02	326	75	0.02	5	2	0.04325233871
4316.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	152	0.02	10	0.01	330	95	0.03	6	3	0.04712515757
4317.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	156	0.01	10	0.01	340	100	0.04	7	4	0.08056031480
4318.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	8.7	0.02	395	95	0.05	6	4	0.01632519836
4319.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.03	8.4	0.02	425	100	0.03	4	1	0.01565764431
4320.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	230	0.01	8.2	0.01	410	125	0.02	5	2	0.01327542027
4321.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.02	8.5	0.02	470	128	0.01	2	1	0.05920309303
4322.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	8	0.01	478	136	0.01	5	3	0.04921724153
4323.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.03	9.3	0.02	460	154	0.04	6	4	0.05566853269
4324.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.04	9.2	0.01	444	163	0.03	7	3	0.05974118976

4325.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.02	8	0.01	450	162	0.03	6	4	0.05891754611
4326.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	250	0.01	8.2	0.02	458	158	0.02	6	4	0.04859181414
4327.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.01	8.1	0.01	499	162	0.03	4	2	0.04806812611
4328.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	221	0.03	8.2	0.02	498	164	0.02	3	1	0.11014366955
4329.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.03	8.3	0.01	447	147	0.01	5	2	0.05497911000
4330.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	214	0.01	8.5	0.01	475	152	0.05	7	4	0.08082314050
4331.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	215	0.04	8.6	0.02	462	158	0.03	2	1	0.07237224517
4332.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	216	0.02	8.7	0.02	465	160	0.04	5	3	0.28152988830
4333.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.03	8.8	0.02	468	163	0.05	4	2	0.17378786706
4334.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	219	0.01	8.9	0.01	472	164	0.02	2	1	0.07459616536
4335.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	236	0.04	9	0.02	473	167	0.03	5	4	0.00486632147
4336.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	235	0.02	9.1	0.01	476	178	0.01	4	2	0.69855659943
4337.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	241	0.01	10	0.01	486	178	0.02	4	2	0.11603988017
4338.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	222	0.02	9	0.02	497	182	0.01	2	1	0.05349296812
4339.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	210	0.03	9.1	0.01	493	192	0.05	3	1	0.05483356178
4340.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	216	0.04	9.8	0.02	492	200	0.04	5	2	0.05696877457
4341.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	213	0.01	9.7	0.01	489	156	0.05	4	2	2.37720367849
4342.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	212	0.04	9.4	0.01	456	168	0.03	6	4	0.41927901386
4343.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	225	0.02	9.2	0.01	500	200	0.02	7	4	0.10449484503
4344.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	210	0.03	9.3	0.02	493	159	0.01	3	1	0.10631393310
4345.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	250	0.01	8.6	0.02	482	163	0.05	2	1	0.04800975677
4346.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	245	0.04	10	0.02	478	175	0.04	4	2	0.02412152648
4347.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	245	0.01	9	0.01	469	182	0.03	7	4	0.06847568082
4348.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	243	0.02	8.9	0.01	459	196	0.02	6	4	0.06065033335
4349.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	238	0.03	8.8	0.02	485	179	0.01	5	3	0.02088213592
4350.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	214	0.03	8.2	0.01	450	174	0.02	2	1	0.03065737789
4351.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	215	0.01	8.1	0.02	456	172	0.01	3	2	0.04647714060
4352.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	248	0.04	8.5	0.01	460	184	0.03	5	3	0.05724522125
4353.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	225	0.02	8.4	0.02	465	181	0.05	6	4	0.07571308019
4354.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	237	0.03	9.2	0.01	477	167	0.04	5	2	0.01679254904

4355.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.04	9.3	0.02	455	178	0.02	2	1	0.04062122198
4356.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.01	9.5	0.02	452	182	0.03	7	4	0.04785276631
4357.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	245	0.02	9.6	0.02	453	183	0.01	5	3	0.15877746673
4358.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	255	0.03	9.8	0.02	456	190	0.02	3	2	0.04440917776
4359.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	245	0.04	9.7	0.01	458	192	0.05	2	1	0.02169638184
4360.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	241	0.01	9.9	0.01	469	194	0.03	7	4	0.06600472617
4361.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	247	0.02	10	0.01	471	155	0.04	4	2	0.03334968287
4362.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	223	0.03	8.2	0.01	472	156	0.02	5	3	0.04518563992
4363.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	225	0.01	8.3	0.01	475	162	0.01	2	1	0.03417930523
4364.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	256	0.04	8.6	0.02	458	164	0.03	6	4	0.01820019746
4365.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.02	8.4	0.02	456	167	0.02	5	3	0.01464620174
4366.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	240	0.01	9.4	0.02	496	168	0.04	7	4	0.01113233712
4367.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	241	0.02	9.8	0.01	495	172	0.05	4	2	0.03719231942
4368.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	244	0.03	10	0.01	488	173	0.02	7	3	0.03521225602
4369.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	218	0.01	9.9	0.01	452	145	0.03	2	1	0.07500957396
4370.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	216	0.04	8.2	0.02	441	152	0.01	5	2	0.05665396911
4371.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	206	0.04	8.3	0.02	471	116	0.04	2	1	0.06225112818
4372.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	205	0.01	8.4	0.02	475	120	0.02	5	3	0.04011717629
4373.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	202	0.02	8.5	0.01	478	118	0.03	4	2	0.03991289323
4374.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	210	0.03	8	0.02	450	118	0.02	5	3	0.04706350430
4375.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	222	0.03	8.1	0.01	455	120	0.02	3	2	0.07771986184
4376.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	225	0.01	8.2	0.01	452	121	0.03	2	1	0.06362112959
4377.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.04	8.3	0.02	458	123	0.01	7	4	0.06476700511
4378.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	210	0.03	10	0.02	462	125	0.05	5	3	0.05777835128
4379.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	223	0.01	8.4	0.02	463	100	0.04	4	2	0.09257918494
4380.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	228	0.02	8.6	0.01	467	152	0.02	2	1	0.05968530636
4381.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.01	8.3	0.02	410	125	0.02	5	4	0.01494463101
4382.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	210	0.04	8.6	0.02	405	110	0.03	4	2	0.04366768847
4383.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	201	0.03	8.4	0.01	403	96	0.04	3	1	0.03195885422
4384.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	205	0.02	8.1	0.01	408	92	0.05	2	1	0.05001682315

4385.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	163	0.01	9.7	0.02	410	125	0.04	4	2	0.01412068934
4386.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	175	0.03	10	0.02	390	170	0.04	6	3	0.01918963695
4387.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	168	0.04	10	0.01	399	167	0.03	7	3	0.03617384892
4388.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	218	0.02	10	0.01	396	161	0.03	6	4	0.03919254553
4389.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	216	0.01	9.8	0.02	394	158	0.02	6	4	0.04679829154
4390.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	160	0.02	8.6	0.01	320	100	0.04	6	2	0.03319154115
4391.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	162	0.01	8.2	0.01	321	96	0.01	5	3	0.02551572434
4392.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	168	0.02	8.3	0.02	325	92	0.02	6	4	0.04882542979
4393.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	170	0.04	8.4	0.02	326	90	0.03	5	3	0.02164999980
4394.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.03	8.1	0.02	333	86	0.04	3	2	0.01698178239
4395.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	175	0.02	9	0.01	320	84	0.02	2	4	0.02210140181
4396.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	178	0.01	9.3	0.01	345	82	0.01	2	4	0.01788446563
4397.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.04	9.6	0.02	325	80	0.05	4	1	0.00760917827
4398.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	150	0.03	9.9	0.02	326	75	0.02	5	2	0.02178157740
4399.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	152	0.02	10	0.01	330	95	0.03	6	3	0.08463704800
4400.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	156	0.01	10	0.01	340	100	0.04	7	4	0.02484114943
4401.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	8.7	0.02	395	95	0.05	6	4	0.07027685113
4402.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.03	8.4	0.02	425	100	0.03	4	1	0.06940459445
4403.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	230	0.01	8.2	0.01	410	125	0.02	5	2	0.10671237953
4404.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.02	8.5	0.02	470	128	0.01	2	1	0.08748235892
4405.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	8	0.01	478	136	0.01	5	3	0.22804572883
4406.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.03	9.3	0.02	460	154	0.04	6	4	0.05873948572
4407.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	190	0.02	9	0.02	345	102	0.05	2	1	0.08800545557
4408.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	178	0.03	9.2	0.02	321	105	0.03	5	4	0.05757677807
4409.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	172	0.01	9.1	0.01	352	150	0.02	6	3	0.10270537455
4410.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	175	0.04	9.3	0.02	362	114	0.01	2	1	0.08087484749
4411.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	168	0.02	9.5	0.02	336	121	0.03	4	2	0.07274824430
4412.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	185	0.01	9.4	0.01	342	90	0.02	7	4	0.06326914226
4413.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	184	0.03	9.6	0.02	345	96	0.04	5	3	0.01575209969
4414.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	194	0.04	9.8	0.01	358	100	0.05	2	1	0.06777897599

4415.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	192	0.02	9.7	0.02	360	102	0.01	4	2	0.02457446738
4416.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	190	0.03	9.8	0.01	300	103	0.03	7	4	0.03063438957
4417.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	186	0.01	9.9	0.02	312	107	0.02	5	3	0.02518647346
4418.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	183	0.04	10	0.01	315	75	0.04	2	1	0.00822896173
4419.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	182	0.02	10	0.02	319	86	0.05	5	3	0.04643800069
4420.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	178	0.03	9.8	0.01	3205	88	0.01	5	3	0.03424866260
4421.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	175	0.01	9.6	0.02	325	84	0.03	4	2	0.00778221285
4422.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	172	0.04	9.3	0.01	326	82	0.02	2	1	0.03828540551
4423.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	169	0.02	9.2	0.02	345	83	0.04	6	4	0.20893823102
4424.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	168	0.02	8.5	0.01	375	88	0.03	5	2	0.06285703603
4425.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	156	0.03	8.2	0.02	312	90	0.05	5	3	0.19270379413
4426.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	166	0.01	8.1	0.02	300	91	0.01	2	1	0.30344813328
4427.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	162	0.04	10	0.01	342	95	0.02	7	4	0.03600784403
4428.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	169	0.02	10	0.02	345	100	0.04	2	1	0.04966380768
4429.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	172	0.02	9.2	0.01	355	102	0.03	4	2	0.00749414959
4430.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	169	0.01	9.5	0.02	364	95	0.04	5	3	0.01587207143
4431.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	165	0.03	10	0.01	358	100	0.03	2	1	0.04377232279
4432.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.04	8.1	0.01	370	102	0.04	7	4	0.04939943903
4433.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	200	0.02	10	0.01	333	125	0.05	5	3	0.04110286845
4434.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	190	0.01	10	0.02	340	124	0.02	3	2	0.03047586667
4435.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	186	0.02	9.9	0.01	345	85	0.01	2	1	0.60352961876
4436.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	183	0.03	9.5	0.02	352	93	0.03	6	4	0.01796915661
4437.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.04	9.2	0.01	356	106	0.05	7	4	0.02984672003
4438.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	178	0.04	9.3	0.02	325	105	0.02	4	2	0.03418665337
4439.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	172	0.02	9	0.01	345	102	0.01	2	1	0.01332115910
4440.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	166	0.01	8.3	0.02	365	107	0.03	3	2	0.01330064827
4441.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	162	0.03	8.6	0.01	366	104	0.01	6	4	0.17649548421
4442.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.04	8.7	0.02	362	100	0.02	7	4	0.08539308693
4443.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	183	0.02	8.5	0.02	312	98	0.03	5	2	0.27460478081
4444.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	182	0.01	8.4	0.02	314	92	0.01	4	2	0.04867515658

4445.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	176	0.03	8.2	0.01	318	95	0.05	2	1	0.33984234081
4446.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	177	0.02	8.2	0.02	320	98	0.02	4	2	0.15220428884
4447.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	178	0.01	8.6	0.01	310	100	0.01	5	3	0.99363833256
4448.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	185	0.03	8.5	0.02	320	102	0.03	6	4	0.24104902912
4449.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	182	0.04	8.4	0.02	315	104	0.04	2	1	0.04215056704
4450.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	156	0.02	8.3	0.01	326	105	0.05	4	2	0.02212361804
4451.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	166	0.03	8.7	0.01	333	98	0.02	2	1	0.45621992929
4452.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	169	0.01	8.8	0.02	336	97	0.03	7	4	0.03252908709
4453.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	170	0.02	8.9	0.02	340	95	0.01	6	3	0.05525745913
4454.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	172	0.04	9	0.02	342	96	0.04	2	1	0.11993317489
4455.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	173	0.02	9.3	0.01	345	93	0.05	3	2	0.03876048447
4456.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	182	0.01	9.6	0.01	355	85	0.02	5	4	0.03433353805
4457.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	180	0.03	9.8	0.01	356	84	0.03	5	2	0.04794877575
4458.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	186	0.01	9.7	0.02	360	82	0.01	2	1	0.02016393127
4459.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	168	0.02	8.8	0.01	366	98	0.05	2	1	0.02503420976
4460.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	175	0.03	8.6	0.01	360	99	0.01	7	4	0.02687487107
4461.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	172	0.01	9.2	0.02	356	104	0.03	2	1	0.32529572192
4462.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	166	0.04	9.8	0.02	350	107	0.04	4	2	0.07232256986
4463.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	162	0.03	9.4	0.01	347	106	0.01	7	4	0.05472792672
4464.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	156	0.01	9.3	0.01	341	117	0.05	5	3	0.03591603482
4465.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	162	0.04	9.7	0.02	340	113	0.05	2	1	0.02739485437
4466.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	188	0.02	9.9	0.02	325	120	0.02	6	4	0.04001225080
4467.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	185	0.04	9.2	0.01	333	95	0.01	3	1	0.03087988224
4468.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	182	0.01	9.6	0.01	356	110	0.02	7	4	0.04036948903
4469.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	155	0.02	9.1	0.02	364	105	0.03	5	2	0.03765770431
4470.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	168	0.03	8.5	0.01	367	104	0.05	4	2	0.23411600914
4471.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	172	0.04	8.2	0.01	370	102	0.04	2	1	0.05561477739
4472.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	178	0.02	8.3	0.02	325	100	0.04	6	4	0.01045845802
4473.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	162	0.01	8	0.01	328	97	0.05	5	2	0.05673881328
4474.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	163	0.03	8.7	0.02	336	98	0.03	7	4	0.05127904536

4475.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.04	10	0.01	340	95	0.02	4	2	0.01868097776
4476.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	165	0.02	9.5	0.01	312	100	0.01	2	1	0.07834129187
4477.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	158	0.01	9.6	0.02	322	125	0.02	3	1	0.06978037676
4478.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.02	9.9	0.01	325	123	0.01	4	2	0.06533125801
4479.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	155	0.04	9.6	0.02	328	140	0.02	2	1	0.02263079773
4480.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	165	0.01	9.3	0.01	330	120	0.03	7	4	0.02779061291
4481.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	158	0.03	9.2	0.02	335	118	0.04	5	3	0.06581905888
4482.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	163	0.02	9.1	0.01	340	115	0.05	5	2	0.01566431228
4483.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	172	0.04	9	0.02	342	112	0.02	2	1	0.03756450367
4484.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	175	0.01	10	0.01	345	126	0.01	6	4	0.01101072233
4485.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	178	0.03	8.5	0.02	350	125	0.03	5	3	0.02715175888
4486.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.03	8.6	0.01	495	189	0.02	7	4	0.02320616207
4487.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.02	8	0.02	485	200	0.03	6	4	0.01522365701
4488.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	8.2	0.01	480	169	0.02	2	1	0.02056077324
4489.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	250	0.01	8.5	0.02	500	200	0.01	4	2	0.00937682633
4490.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.03	8.2	0.02	480	190	0.02	5	3	0.02434984739
4491.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	240	0.02	8.4	0.01	485	192	0.03	2	1	0.01148942914
4492.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	241	0.04	8.6	0.02	482	182	0.04	5	4	0.10192881109
4493.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	248	0.02	8.7	0.01	475	184	0.01	4	2	0.10608144561
4494.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	236	0.01	8.8	0.01	496	195	0.02	2	1	0.01534651789
4495.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.03	8.9	0.01	492	188	0.03	5	3	0.05628474273
4496.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	237	0.02	9	0.02	490	175	0.05	5	4	0.01287843059
4497.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	235	0.04	9.2	0.01	458	185	0.04	3	2	0.01172026245
4498.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	222	0.01	9.3	0.02	467	184	0.01	2	1	0.02046254397
4499.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	220	0.03	9.5	0.01	462	182	0.05	5	3	0.06674358266
4500.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	214	0.02	10	0.01	475	196	0.02	7	4	0.13713341037
4501.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	215	0.04	9.6	0.02	478	192	0.03	2	1	0.07813994755
4502.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.01	9.3	0.01	479	182	0.01	3	2	0.02843667762
4503.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	220	0.03	9.4	0.02	480	175	0.04	6	3	0.03765225372
4504.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	230	0.02	10	0.01	455	172	0.02	7	4	0.08531174316

4505.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	240	0.01	9.9	0.02	459	185	0.02	6	4	0.02010871668
4506.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	237	0.02	8.3	0.01	480	196	0.02	5	3	0.05309986958
4507.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	236	0.03	8.6	0.02	478	200	0.02	2	1	0.00403972400
4508.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	244	0.04	8.8	0.01	468	198	0.05	3	1	0.00833174891
4509.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	250	0.01	8.7	0.02	475	175	0.04	4	2	0.03195311009
4510.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	246	0.02	8.5	0.01	470	182	0.03	7	4	0.00604555338
4511.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	245	0.03	9.3	0.02	468	184	0.02	6	4	0.03665210590
4512.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	222	0.04	9	0.01	467	186	0.04	7	4	0.02253919901
4513.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.01	8	0.02	466	183	0.01	4	2	0.03671935446
4514.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	162	0.02	8.3	0.01	308	82	0.05	3	2	0.02476411310
4515.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	166	0.04	8.6	0.02	390	132	0.02	2	1	0.01718656878
4516.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	180	0.01	8.9	0.02	400	127	0.02	4	2	0.04977243863
4517.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.03	9.2	0.01	410	125	0.03	7	4	0.05200416739
4518.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	190	0.02	10	0.01	420	168	0.01	6	4	0.05812225440
4519.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	202	0.01	9.6	0.02	435	175	0.04	3	2	0.02737012539
4520.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	205	0.04	9.8	0.02	465	185	0.05	4	3	0.04148326068
4521.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	210	0.03	8.2	0.01	477	180	0.05	2	1	0.03689411610
4522.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	222	0.02	8.6	0.02	428	125	0.02	7	3	0.03896856589
4523.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	206	0.01	8.9	0.01	431	110	0.01	5	4	0.04062159735
4524.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	210	0.02	8.6	0.02	436	141	0.02	7	3	0.04176763069
4525.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.04	9.2	0.02	439	139	0.03	6	2	0.01451114910
4526.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	235	0.03	9.3	0.02	440	138	0.05	5	1	0.04742476123
4527.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	189	0.02	9.5	0.01	445	132	0.01	2	1	0.06467446464
4528.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	190	0.01	10	0.02	458	128	0.04	6	4	0.05543236176
4529.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	250	0.04	10	0.01	461	123	0.02	7	4	0.02664928712
4530.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	250	0.04	8	0.01	462	125	0.03	5	3	0.02545143041
4531.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	245	0.03	9	0.02	463	110	0.01	5	2	0.02218748396
4532.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	236	0.02	8.7	0.01	468	175	0.04	6	4	0.01726759533
4533.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	238	0.01	8.8	0.02	467	172	0.05	2	1	0.01418242016
4534.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	231	0.03	9.9	0.02	470	168	0.02	4	3	0.01166861729

4535.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	210	0.01	9.6	0.02	478	162	0.03	3	1	0.06347931635
4536.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	168	0.02	9.1	0.01	488	158	0.01	6	4	0.01490147461
4537.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	192	0.04	9.7	0.01	490	146	0.04	4	2	0.01785108353
4538.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	199	0.03	10	0.02	500	135	0.05	4	3	0.02413401007
4539.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	200	0.01	10	0.02	487	125	0.03	2	1	0.05212208548
4540.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	205	0.02	8	0.01	420	120	0.05	6	4	0.04488434698
4541.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	215	0.02	8.6	0.02	452	100	0.02	3	2	0.03951204233
4542.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.02	10	0.01	307	86	0.05	6	4	0.06156493745
4543.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	170	0.01	10	0.02	310	89	0.04	6	3	0.04345854015
4544.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	156	0.03	9.6	0.02	326	91	0.03	5	3	0.03555504425
4545.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	159	0.02	9.8	0.01	329	93	0.01	3	1	0.05011388044
4546.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	162	0.01	9.7	0.01	333	96	0.02	3	1	0.05347492794
4547.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	163	0.01	9.4	0.02	334	100	0.03	5	2	0.02021238572
4548.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	168	0.03	8.5	0.02	337	102	0.04	5	3	0.05441197646
4549.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	170	0.02	8.6	0.01	340	96	0.05	7	3	0.04212892198
4550.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	150	0.02	8.3	0.01	345	95	0.02	7	3	0.04184696313
4551.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	155	0.01	8.2	0.01	310	99	0.03	6	4	0.03673690272
4552.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.04	8.1	0.02	309	93	0.04	5	4	0.03113058287
4553.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	162	0.04	8	0.02	300	305	0.01	4	1	0.07436031974
4554.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	166	0.03	8.4	0.01	308	90	0.04	3	2	0.02292771766
4555.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	168	0.01	8.9	0.01	315	84	0.02	6	4	0.02975116103
4556.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	170	0.02	8.1	0.01	342	86	0.03	5	3	0.02748222593
4557.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	172	0.01	9.4	0.02	342	88	0.01	6	4	0.03859382463
4558.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	178	0.02	9.6	0.02	346	75	0.02	2	1	0.00876619745
4559.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	171	0.04	8.5	0.02	312	76	0.04	4	2	0.01186307961
4560.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	172	0.03	8.2	0.01	350	80	0.05	3	1	0.02068655875
4561.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	167	0.03	9.3	0.01	325	82	0.05	7	4	0.02308087344
4562.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	166	0.01	9.9	0.01	320	84	0.05	6	4	0.02306175113
4563.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	163	0.04	9.8	0.02	315	89	0.04	3	1	0.03213860323
4564.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.04	9.6	0.02	326	90	0.03	4	1	0.01545832363

4565.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.01	9.2	0.01	317	95	0.02	2	1	0.02325707148
4566.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.02	10	0.01	328	96	0.01	5	2	0.02154998958
4567.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	156	0.02	9	0.02	325	78	0.04	6	4	0.05159629167
4568.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	152	0.01	8	0.01	345	90	0.03	7	4	0.05408240689
4569.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	155	0.02	8.2	0.02	400	100	0.02	2	1	0.00820046789
4570.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	200	0.02	8.3	0.02	405	105	0.01	4	2	0.02367248492
4571.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	198	0.01	8.4	0.01	410	107	0.05	5	3	0.03411630356
4572.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	205	0.04	8.6	0.02	420	110	0.03	7	4	0.01423553816
4573.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	210	0.02	8.8	0.01	426	112	0.02	6	4	0.00873751963
4574.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.03	9	0.02	428	115	0.01	2	1	0.00923410012
4575.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.02	10	0.02	430	116	0.04	3	2	0.03767914179
4576.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	220	0.01	9.2	0.01	435	120	0.05	4	2	0.02974809484
4577.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	9.5	0.01	440	125	0.02	5	3	0.01835412109
4578.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	225	0.03	9.3	0.02	445	130	0.03	7	4	0.03494331173
4579.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	228	0.01	9.6	0.02	450	132	0.01	6	4	0.01192870241
4580.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.04	9.8	0.01	458	122	0.04	4	2	0.02040226744
4581.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	235	0.02	9.9	0.01	456	105	0.05	5	2	0.04788940243
4582.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	236	0.03	9.7	0.01	459	108	0.02	2	1	0.01285925058
4583.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	238	0.01	9.4	0.02	460	110	0.03	7	4	0.06618171081
4584.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.04	9.1	0.02	467	112	0.05	3	1	0.02672044653
4585.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	241	0.02	10	0.01	478	118	0.01	2	1	0.02419681574
4586.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	245	0.03	9.3	0.01	488	123	0.04	5	3	0.01316148341
4587.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	246	0.01	9.5	0.01	490	126	0.02	4	2	0.09374251552
4588.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	248	0.04	9.7	0.02	455	124	0.03	7	4	0.01367214564
4589.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	231	0.02	9.8	0.02	468	125	0.01	6	4	0.04799024600
4590.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.03	9.9	0.02	467	128	0.04	3	1	0.02455343602
4591.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.01	10	0.01	470	127	0.05	2	1	0.05267016772
4592.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	231	0.04	9.3	0.01	472	130	0.02	5	2	0.06281352969
4593.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	234	0.02	9.5	0.01	475	135	0.03	4	2	0.03336835709
4594.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.03	9.6	0.02	478	136	0.01	7	4	0.04909426539

4595.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	235	0.01	9.8	0.02	488	140	0.04	5	3	0.04948886306
4596.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	238	0.04	10	0.01	456	123	0.05	2	1	0.02908150121
4597.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	237	0.02	8.2	0.01	469	128	0.02	4	2	0.03303879503
4598.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.03	8.5	0.02	470	130	0.03	3	1	0.02332130149
4599.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	221	0.01	8.3	0.01	452	135	0.01	6	4	0.02857549620
4600.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	225	0.04	8.4	0.01	453	122	0.04	7	4	0.02334106379
4601.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	223	0.02	8.7	0.01	466	124	0.05	5	3	0.02315986410
4602.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	226	0.01	8	0.01	477	127	0.02	4	2	0.04032397216
4603.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	230	0.03	8.2	0.02	475	136	0.03	2	1	0.07094111816
4604.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	235	0.04	10	0.02	442	138	0.01	3	1	0.06408694656
4605.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	238	0.02	9.5	0.01	443	122	0.04	2	1	0.07435571866
4606.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	240	0.03	9.6	0.01	458	121	0.05	5	3	0.08673926538
4607.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	241	0.01	9.9	0.02	460	125	0.02	4	2	0.01584868421
4608.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	246	0.04	9.8	0.01	468	135	0.03	7	4	0.03718932444
4609.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	225	0.02	10	0.01	469	140	0.01	6	4	0.06943346653
4610.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	228	0.03	9.3	0.01	472	114	0.04	2	1	0.05808874561
4611.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	230	0.01	8.5	0.02	485	118	0.05	4	2	0.05471125951
4612.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.04	8.2	0.01	476	120	0.02	5	3	0.03302758283
4613.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	230	0.03	10	0.01	410	90	0.04	6	4	0.10731796252
4614.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	216	0.04	10	0.01	420	192	0.05	7	4	0.03563097612
4615.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	209	0.02	9.9	0.01	425	189	0.03	5	3	0.02048209150
4616.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	208	0.03	8	0.02	428	180	0.04	4	2	0.03532474003
4617.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	203	0.01	8.1	0.02	430	145	0.05	6	3	0.00557646500
4618.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	180	0.02	8.2	0.02	456	136	0.02	3	1	0.00937504546
4619.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	175	0.04	8.4	0.02	458	128	0.01	7	4	0.01684090366
4620.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	169	0.01	8.5	0.02	427	125	0.03	6	4	0.03750331343
4621.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.03	8.9	0.01	436	120	0.01	5	3	0.02809946824
4622.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.02	9.1	0.01	439	100	0.02	4	2	0.01318656505
4623.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	168	0.04	9.5	0.01	440	96	0.01	3	1	0.04930143823
4624.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	160	0.02	9.2	0.02	441	92	0.02	2	1	0.00926705383

4625.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	199	0.03	9.3	0.02	425	85	0.03	6	4	0.05136455410
4626.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	210	0.01	9.2	0.01	444	190	0.04	5	4	0.02936965765
4627.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	222	0.02	9.1	0.01	450	182	0.02	7	3	0.02952140384
4628.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	223	0.03	9.3	0.02	420	175	0.01	6	2	0.07866415130
4629.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	228	0.01	9.6	0.02	433	170	0.02	6	1	0.01414918888
4630.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	236	0.04	10	0.02	460	162	0.03	3	1	0.37959874662
4631.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	240	0.02	9.9	0.01	490	156	0.04	3	1	0.03007496357
4632.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	160	0.04	9.8	0.01	480	150	0.02	7	4	0.05597550378
4633.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	175	0.03	9.2	0.01	425	144	0.01	7	4	0.02231192862
4634.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	200	0.03	8.7	0.02	408	96	0.03	4	2	0.02193499040
4635.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	190	0.04	8.6	0.02	444	94	0.01	5	3	0.07795114760
4636.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	169	0.02	10	0.01	403	97	0.02	5	3	0.01025674807
4637.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	182	0.01	10	0.01	402	85	0.05	6	4	0.04283576793
4638.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	180	0.02	9.9	0.02	440	89	0.04	7	4	0.00438369330
4639.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	178	0.03	9.3	0.02	425	97	0.04	6	4	0.04715704757
4640.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	172	0.04	9.6	0.01	418	114	0.03	7	4	0.01080239048
4641.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	168	0.04	9.4	0.02	416	120	0.03	5	2	0.00610381203
4642.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	164	0.02	9.4	0.01	410	128	0.02	2	1	0.04684965930
4643.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	165	0.01	9.6	0.01	420	136	0.01	3	1	0.14844675950
4644.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	236	0.02	8.7	0.01	415	136	0.02	4	2	0.02421915248
4645.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.02	8.6	0.02	418	125	0.02	6	3	0.02006690824
4646.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	223	0.03	8.5	0.02	398	116	0.03	5	4	0.00904595701
4647.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.04	10	0.02	396	115	0.04	3	1	0.04436349834
4648.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	212	0.01	10	0.01	390	114	0.05	4	2	0.06383345797
4649.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	210	0.01	9.5	0.01	399	112	0.02	5	4	0.05942688534
4650.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	189	0.02	9.1	0.02	394	110	0.01	4	3	0.00792608677
4651.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	175	0.03	9.2	0.01	405	138	0.02	2	1	0.06135606853
4652.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	175	0.04	9.3	0.02	410	145	0.01	5	2	0.01364723509
4653.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	210	0.02	9.9	0.01	456	155	0.02	6	4	58.57821210980
4654.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	207	0.01	10	0.01	425	156	0.03	7	4	0.01965150387

4655.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	205	0.02	9.3	0.02	420	160	0.01	5	3	0.03955236938
4656.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	210	0.03	8.8	0.02	389	95	0.02	4	2	0.02686063561
4657.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	200	0.04	8.2	0.01	380	105	0.04	3	1	0.05845933137
4658.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	190	0.02	8.4	0.01	394	110	0.05	2	1	0.08380293130
4659.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	205	0.02	8.3	0.01	401	135	0.03	7	3	0.05227322099
4660.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	202	0.01	8.4	0.01	400	140	0.04	7	4	0.05493562022
4661.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	210	0.01	8.7	0.01	440	142	0.05	6	4	0.03454341130
4662.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	213	0.01	9.3	0.02	456	80	0.03	2	1	0.02846568408
4663.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	210	0.02	9.6	0.02	422	95	0.01	4	2	0.03623147698
4664.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	218	0.03	9.7	0.01	420	86	0.02	5	2	0.03860870754
4665.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	215	0.04	9.3	0.01	418	92	0.04	3	2	0.05846174161
4666.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.02	9.4	0.01	416	100	0.04	6	3	0.05348536891
4667.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	216	0.01	9.9	0.01	410	105	0.03	7	4	0.07294663956
4668.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.01	9.6	0.02	409	110	0.02	5	2	0.06616032177
4669.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	212	0.02	9.5	0.02	408	150	0.02	6	4	0.02185564716
4670.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	9.2	0.02	404	158	0.02	7	4	0.05109857492
4671.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	210	0.03	9	0.01	402	160	0.02	4	2	0.06695907610
4672.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	200	0.03	8.8	0.01	396	90	0.05	2	1	0.02119303836
4673.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	192	0.02	8.7	0.01	396	80	0.05	3	1	0.05720005544
4674.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	185	0.02	8.4	0.02	392	82	0.03	4	2	0.01210846364
4675.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	175	0.01	8.5	0.02	398	96	0.01	6	4	0.01404998382
4676.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	165	0.04	8.3	0.02	420	99	0.02	6	3	0.09484495393
4677.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	204	0.04	9	0.01	425	145	0.02	4	2	0.10137941112
4678.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	210	0.02	8.4	0.01	430	160	0.04	5	3	0.00530754084
4679.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	200	0.03	8.9	0.01	420	90	0.01	6	4	0.03805024445
4680.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	162	0.01	9.4	0.02	385	152	0.04	6	1	0.01332660511
4681.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	156	0.03	8.2	0.02	314	86	0.04	5	3	0.01981109605
4682.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	160	0.01	8.2	0.02	318	85	0.05	3	2	0.02977878952
4683.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	162	0.02	8.3	0.01	308	82	0.05	3	2	0.04171993889
4684.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	164	0.04	8.3	0.01	310	80	0.03	4	1	0.07988180466

4685.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	168	0.03	9	0.02	311	75	0.02	4	1	0.06670943198
4686.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	170	0.01	9.1	0.02	316	120	0.01	7	4	0.11774087848
4687.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.02	9.2	0.01	328	110	0.05	7	4	0.06635402369
4688.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	159	0.01	9.3	0.01	310	75	0.04	5	3	0.05140148862
4689.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	158	0.02	9.2	0.01	305	80	0.03	7	4	0.03585796499
4690.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	152	0.03	8.4	0.01	316	82	0.02	6	4	0.03432256125
4691.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	162	0.04	8.7	0.02	320	85	0.01	5	2	0.02304997677
4692.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	160	0.02	8.6	0.02	310	86	0.01	7	4	0.01011063753
4693.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	150	0.01	8.5	0.02	300	90	0.03	6	4	0.06596516813
4694.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	180	0.03	10	0.01	305	95	0.02	5	2	0.06282126734
4695.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	175	0.04	9.9	0.01	310	98	0.04	4	3	0.01645963651
4696.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	150	0.01	9.5	0.02	305	75	0.01	7	4	0.07532491405
4697.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	159	0.02	9.1	0.01	310	96	0.02	7	4	0.03059519043
4698.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	162	0.03	8.6	0.01	306	99	0.03	6	4	0.00916263007
4699.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	165	0.01	8.7	0.02	320	94	0.04	6	4	0.10513167084
4700.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	168	0.02	9.3	0.02	315	90	0.05	5	3	0.02750209367
4701.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	166	0.01	9.9	0.01	320	84	0.05	6	4	0.07107137802
4702.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	163	0.04	9.8	0.02	315	89	0.04	3	1	0.09910211790
4703.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.04	9.6	0.02	326	90	0.03	4	1	0.02793213721
4704.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.01	9.2	0.01	317	95	0.02	2	1	0.04994460967
4705.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.02	10	0.01	328	96	0.01	5	2	0.05606183040
4706.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	156	0.02	9	0.02	325	78	0.04	6	4	0.08768668932
4707.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	152	0.01	8	0.01	345	90	0.03	7	4	0.05741143426
4708.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	180	0.03	8	0.02	345	92	0.01	5	3	0.05216160688
4709.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	175	0.04	8.2	0.01	333	96	0.02	4	2	0.06762690194
4710.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	162	0.02	8	0.02	316	85	0.01	3	1	0.06868716280
4711.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.03	8.6	0.02	312	75	0.02	4	1	0.19414808608
4712.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	159	0.04	9.3	0.01	320	82	0.03	3	2	0.04794037974
4713.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	152	0.02	9.6	0.01	325	86	0.01	4	2	0.05977201698
4714.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	166	0.01	10	0.02	326	90	0.04	5	3	0.01614161946

4715.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	162	0.03	10	0.02	345	92	0.05	5	3	0.04774194560
4716.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	160	0.04	9.9	0.02	326	95	0.05	6	4	0.00897202718
4717.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	165	0.04	9.8	0.01	321	100	0.01	5	3	0.10926372961
4718.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	155	0.02	9.6	0.01	345	102	0.03	3	2	0.01714647572
4719.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	150	0.03	9.2	0.02	330	105	0.02	3	1	0.06095248330
4720.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	215	0.01	8.2	0.01	470	162	0.02	2	1	0.24424950026
4721.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	259	0.02	8.3	0.01	458	163	0.03	3	2	0.03449762565
4722.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	245	0.04	8.6	0.01	444	165	0.04	6	3	0.03657841597
4723.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	198	0.03	9.6	0.01	450	158	0.01	5	4	0.03098585770
4724.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	200	0.04	9.5	0.02	420	160	0.05	2	1	0.02025392495
4725.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	163	0.01	8.4	0.02	320	87	0.01	5	3	0.02880926930
4726.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	170	0.02	8	0.01	325	84	0.02	7	4	0.00969965307
4727.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	152	0.01	8	0.01	320	90	0.03	7	4	0.00649858508
4728.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	156	0.03	8.2	0.02	314	86	0.04	5	3	0.03021577309
4729.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	160	0.01	8.2	0.02	318	85	0.05	3	2	0.05903636795
4730.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	162	0.02	8.3	0.01	308	82	0.05	3	2	0.02523305250
4731.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	166	0.04	8.6	0.02	390	132	0.02	2	1	0.06935216968
4732.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	180	0.01	8.9	0.02	400	127	0.02	4	2	0.04938222478
4733.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.03	9.2	0.01	410	125	0.03	7	4	0.03956793111
4734.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	190	0.02	10	0.01	420	168	0.01	6	4	0.02006539540
4735.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	202	0.01	9.6	0.02	435	175	0.04	3	2	0.00632346615
4736.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	205	0.04	9.8	0.02	465	185	0.05	4	3	0.01211833750
4737.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	210	0.03	8.2	0.01	477	180	0.05	2	1	0.01901649474
4738.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	222	0.02	8.6	0.02	428	125	0.02	7	3	0.01655237496
4739.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	206	0.01	8.9	0.01	431	110	0.01	5	4	0.01806808652
4740.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	210	0.02	8.6	0.02	436	141	0.02	7	3	0.01813886351
4741.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.04	9.2	0.02	439	139	0.03	6	2	0.06516390501
4742.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	235	0.03	9.3	0.02	440	138	0.05	5	1	0.00819305940
4743.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	189	0.02	9.5	0.01	445	132	0.01	2	1	0.00596869367
4744.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	190	0.01	10	0.02	458	128	0.04	6	4	0.00268079110

4745.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	250	0.04	10	0.01	461	123	0.02	7	4	0.01848413842
4746.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	250	0.04	8	0.01	462	125	0.03	5	3	0.01435968539
4747.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	245	0.01	9.3	0.02	482	194	0.02	5	3	0.04802243572
4748.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.02	9.2	0.02	466	195	0.04	4	2	0.08978907816
4749.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.04	9.4	0.01	459	200	0.05	2	1	0.15962781947
4750.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	205	0.03	9.7	0.02	480	185	0.04	3	2	0.03152738329
4751.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	200	0.03	9.6	0.01	475	186	0.03	2	1	0.02178260157
4752.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	236	0.04	9.5	0.01	470	159	0.02	7	4	0.02547987870
4753.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	240	0.01	9.8	0.02	456	168	0.01	6	4	0.05349922379
4754.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	237	0.02	9.9	0.01	455	175	0.05	5	2	0.06005510190
4755.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	236	0.01	10	0.02	425	178	0.05	2	1	0.07390533149
4756.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	250	0.02	9	0.01	486	182	0.04	4	2	0.05556047355
4757.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	250	0.04	8.7	0.02	492	183	0.01	3	2	0.03886220974
4758.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.03	8.6	0.01	495	189	0.02	7	4	0.02654816084
4759.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.02	8	0.02	485	200	0.03	6	4	0.02257014224
4760.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	8.2	0.01	480	169	0.02	2	1	0.02211215730
4761.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	250	0.01	8.5	0.02	500	200	0.01	4	2	0.03709665144
4762.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.03	8.2	0.02	480	190	0.02	5	3	0.02011033310
4763.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	240	0.02	8.4	0.01	485	192	0.03	2	1	0.02899500240
4764.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	241	0.04	8.6	0.02	482	182	0.04	5	4	0.05489719698
4765.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	248	0.02	8.7	0.01	475	184	0.01	4	2	0.02894562235
4766.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	236	0.01	8.8	0.01	496	195	0.02	2	1	0.03237277267
4767.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.03	8.9	0.01	492	188	0.03	5	3	0.07780228441
4768.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	237	0.02	9	0.02	490	175	0.05	5	4	0.04799845593
4769.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	235	0.04	9.2	0.01	458	185	0.04	3	2	0.04233933276
4770.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	222	0.01	9.3	0.02	467	184	0.01	2	1	0.07348269070
4771.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	220	0.03	9.5	0.01	462	182	0.05	5	3	0.09292032221
4772.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	164	0.04	9.2	0.02	328	104	0.05	4	2	0.05177436078
4773.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	162	0.02	9.4	0.01	325	97	0.05	2	1	0.06986049600
4774.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	183	0.03	10	0.02	332	96	0.01	3	2	0.02206253124

4775.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	180	0.01	8.5	0.01	360	85	0.04	6	4	0.04660205381
4776.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	175	0.04	8.6	0.02	358	82	0.02	7	4	0.05862636419
4777.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.02	8.7	0.01	347	84	0.03	4	2	0.07633055307
4778.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	166	0.04	8.2	0.02	344	87	0.01	2	1	0.01976850605
4779.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	162	0.01	8.3	0.01	340	88	0.05	5	3	0.22681557278
4780.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	150	0.04	8.5	0.01	344	81	0.02	4	2	0.04457850818
4781.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.03	8.2	0.02	345	88	0.01	2	1	0.07154025734
4782.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	167	0.01	8.6	0.02	358	84	0.03	6	4	0.03519187812
4783.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	168	0.02	8.7	0.01	320	80	0.04	5	3	0.05883889787
4784.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	172	0.04	8.9	0.01	310	86	0.05	4	2	0.02601997359
4785.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	175	0.03	9	0.02	322	92	0.01	2	1	0.04361484034
4786.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	182	0.01	9.2	0.02	326	97	0.04	7	4	0.03772807615
4787.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	180	0.04	9.4	0.01	328	99	0.02	4	2	0.05147872260
4788.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	188	0.03	9.8	0.01	330	98	0.03	5	3	0.22099791579
4789.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	192	0.01	9.9	0.01	335	104	0.04	2	1	0.03051502697
4790.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	158	0.02	10	0.02	345	102	0.02	5	4	0.00882120624
4791.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	162	0.04	9.3	0.02	337	100	0.01	3	2	0.01048783800
4792.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	176	0.03	8.2	0.01	318	95	0.05	2	1	0.06037587688
4793.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	177	0.02	8.2	0.02	320	98	0.02	4	2	0.01920871666
4794.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	178	0.01	8.6	0.01	310	100	0.01	5	3	0.01877794396
4795.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	185	0.03	8.5	0.02	320	102	0.03	6	4	0.01569160029
4796.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	182	0.04	8.4	0.02	315	104	0.04	2	1	0.03925969898
4797.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	156	0.02	8.3	0.01	326	105	0.05	4	2	0.02096762327
4798.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	166	0.03	8.7	0.01	333	98	0.02	2	1	0.04035119546
4799.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	169	0.01	8.8	0.02	336	97	0.03	7	4	0.07137362959
4800.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	170	0.02	8.9	0.02	340	95	0.01	6	3	0.01215260455
4801.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	172	0.04	9	0.02	342	96	0.04	2	1	0.04402928150
4802.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	173	0.02	9.3	0.01	345	93	0.05	3	2	0.08911741825
4803.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	182	0.01	9.6	0.01	355	85	0.02	5	4	0.05946527368
4804.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	180	0.03	9.8	0.01	356	84	0.03	5	2	0.05291554141

4805.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	186	0.01	9.7	0.02	360	82	0.01	2	1	0.03638680205
4806.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	185	0.04	9.2	0.01	326	81	0.04	4	3	0.04624239784
4807.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	184	0.01	10	0.02	358	75	0.05	7	4	0.02966165948
4808.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	188	0.02	9.6	0.02	369	78	0.02	3	2	1.76449691342
4809.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	190	0.03	9.3	0.01	370	88	0.03	2	1	0.09025674718
4810.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	192	0.01	9.8	0.01	345	90	0.01	7	4	0.02083968168
4811.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	193	0.04	9.2	0.01	356	92	0.04	6	3	0.00992572841
4812.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	196	0.02	10	0.01	352	95	0.05	2	1	0.03478563620
4813.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	195	0.03	9.3	0.01	340	94	0.02	4	2	0.02847108722
4814.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	185	0.01	9.4	0.02	352	100	0.03	6	4	0.05696934564
4815.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	194	0.04	9.4	0.01	358	98	0.04	5	3	0.02386917849
4816.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	198	0.03	9.8	0.02	325	93	0.02	4	2	0.01239186983
4817.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	200	0.01	9.9	0.02	327	96	0.03	2	1	0.05435347599
4818.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	156	0.02	10	0.01	321	95	0.04	6	4	0.02887318487
4819.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	168	0.04	9.6	0.01	305	117	0.05	5	3	0.08945433164
4820.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	167	0.03	8.2	0.02	308	105	0.02	4	2	0.04194930864
4821.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	169	0.01	8.1	0.02	309	108	0.01	2	1	0.03851695515
4822.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	170	0.02	8	0.02	310	105	0.03	7	4	0.06119011340
4823.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	172	0.02	8.2	0.01	312	106	0.02	7	4	0.12233688848
4824.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	175	0.03	8.3	0.01	323	103	0.01	4	2	0.03350606237
4825.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	174	0.01	8.4	0.02	321	109	0.03	3	1	0.05260003572
4826.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	176	0.04	8.5	0.02	320	108	0.05	2	1	0.00700659297
4827.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	180	0.01	8.6	0.02	302	106	0.04	6	4	0.01472523317
4828.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	182	0.02	8.7	0.02	301	102	0.02	4	2	0.01245158312
4829.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	185	0.03	8.8	0.01	306	96	0.04	7	4	0.03365178828
4830.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	188	0.04	8.9	0.01	308	92	0.05	5	2	0.04143910854
4831.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	187	0.02	9	0.01	309	90	0.01	7	4	0.12648288687
4832.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	189	0.01	9.3	0.02	310	88	0.03	4	2	0.03958494944
4833.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	184	0.04	8.5	0.01	320	101	0.05	2	1	7.84396842973
4834.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	175	0.01	8.1	0.02	342	104	0.02	6	4	0.15559520605

4835.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	160	0.03	8.2	0.02	333	105	0.01	5	4	0.26051319242
4836.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	165	0.04	8.3	0.01	314	95	0.03	7	2	0.07262909137
4837.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	164	0.02	8	0.01	316	96	0.04	3	2	0.03369653645
4838.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	168	0.03	8.4	0.02	351	98	0.05	2	1	0.04533844470
4839.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	171	0.01	8.6	0.02	352	97	0.02	4	1	0.04307378651
4840.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	172	0.04	8.7	0.01	348	94	0.03	6	4	0.07348275702
4841.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	173	0.02	8.9	0.02	47	85	0.01	7	4	0.05131639935
4842.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	178	0.03	9	0.01	346	82	0.02	5	2	0.06134657765
4843.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	180	0.01	9.1	0.02	341	81	0.04	4	2	0.05523325332
4844.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	190	0.04	9.2	0.02	325	80	0.05	2	1	0.04021618993
4845.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	193	0.02	9.3	0.01	330	86	0.03	3	2	0.02058806662
4846.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	200	0.03	9.5	0.01	316	77	0.01	2	1	0.01944509246
4847.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	192	0.01	9.6	0.02	319	76	0.04	7	4	0.02810521464
4848.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	194	0.04	9.7	0.02	318	75	0.03	5	3	0.02904115127
4849.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	184	0.02	9.8	0.01	315	74	0.05	6	4	0.06555516832
4850.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	163	0.03	9.9	0.01	345	89	0.03	4	2	0.04763596673
4851.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	164	0.03	10	0.01	325	94	0.01	2	1	0.06069306502
4852.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	172	0.03	10	0.02	321	105	0.04	3	2	0.04959717019
4853.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	177	0.04	9.5	0.02	347	112	0.02	7	4	0.05511670755
4854.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	185	0.02	9.6	0.01	346	119	0.03	4	1	0.02071538898
4855.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	219	0.04	9.1	0.01	452	152	0.01	7	3	0.02153318667
4856.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	216	0.03	9.2	0.01	453	156	0.02	5	2	0.04190479165
4857.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.02	9.3	0.02	466	182	0.03	2	1	0.04727991261
4858.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	223	0.01	9.5	0.02	469	143	0.04	5	3	0.05436529259
4859.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	221	0.03	9.6	0.02	470	144	0.05	4	2	0.05681137243
4860.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	214	0.04	9.8	0.02	472	145	0.02	2	1	0.06056041764
4861.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	217	0.02	9.7	0.01	471	156	0.03	6	3	0.09229062098
4862.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	223	0.03	9.9	0.01	458	152	0.01	5	2	0.04776061741
4863.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	219	0.01	10	0.01	456	158	0.04	2	1	0.06373179330
4864.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	218	0.04	8.2	0.02	463	162	0.05	6	4	0.08028113868

4865.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	226	0.02	8.3	0.02	461	160	0.02	5	3	0.07127788423
4866.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	8.6	0.02	458	166	0.03	2	1	0.06427164313
4867.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	220	0.03	8.4	0.01	455	172	0.01	4	2	0.10445406775
4868.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	223	0.04	8	0.01	456	177	0.02	2	1	0.08258801766
4869.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	8.1	0.02	462	149	0.03	4	2	0.04299589764
4870.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	231	0.02	8.2	0.01	468	152	0.01	5	3	0.03882296043
4871.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	234	0.03	8.3	0.02	472	153	0.05	7	4	0.04863228130
4872.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.04	8.5	0.01	471	156	0.04	6	4	0.08406445851
4873.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	236	0.01	8.6	0.02	475	162	0.02	3	2	0.03909411824
4874.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	240	0.02	8.7	0.01	476	164	0.03	4	2	0.05614134443
4875.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.03	8.8	0.02	468	167	0.01	5	2	0.12728714350
4876.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	242	0.01	8.9	0.01	469	168	0.04	7	4	0.04715214672
4877.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	231	0.04	8.4	0.01	461	125	0.04	6	4	0.03803875564
4878.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	232	0.02	8	0.02	467	128	0.05	5	2	0.05821172332
4879.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	234	0.01	8.7	0.01	488	127	0.02	2	1	0.03036069667
4880.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	236	0.03	8.8	0.01	490	131	0.03	5	3	0.03361462271
4881.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	235	0.04	8	0.01	492	136	0.01	4	2	0.07020529133
4882.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	237	0.02	10	0.02	493	137	0.04	2	1	0.09718615210
4883.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	234	0.03	9	0.02	499	138	0.05	7	4	0.02071389416
4884.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	236	0.01	10	0.02	462	141	0.02	4	2	0.05124092704
4885.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.02	9.9	0.01	459	145	0.03	2	1	0.06533003528
4886.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	240	0.04	9.8	0.01	457	123	0.01	6	4	0.05229473280
4887.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.03	9.6	0.02	458	126	0.04	7	3	0.04826539600
4888.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	223	0.02	9.3	0.02	452	129	0.05	5	2	0.14608789646
4889.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	221	0.03	9.4	0.02	462	131	0.03	2	1	0.06080025221
4890.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	226	0.01	9.7	0.02	463	135	0.02	7	4	0.04409469372
4891.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.04	9.2	0.01	467	134	0.01	5	2	0.04059069411
4892.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	229	0.02	9.1	0.01	468	132	0.04	6	3	0.04315125180
4893.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	234	0.03	8	0.01	472	136	0.05	2	1	0.14944281647
4894.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	245	0.01	8.2	0.01	475	140	0.02	5	4	0.08948842737

4895.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.04	10	0.01	477	141	0.03	2	1	0.04405252876
4896.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	247	0.02	9.5	0.02	458	164	0.01	5	3	0.06193118761
4897.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.03	10	0.02	452	100	0.05	2	1	0.02838154474
4898.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	218	0.01	8	0.01	455	105	0.02	4	2	0.20427996406
4899.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	216	0.04	8.2	0.02	456	110	0.03	7	4	0.78523348556
4900.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	219	0.02	8.3	0.01	468	120	0.01	5	3	0.06220126396
4901.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	220	0.03	9	0.02	467	135	0.04	3	1	0.02983977289
4902.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	239	0.01	9.5	0.01	444	136	0.05	6	4	0.06407530584
4903.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	246	0.04	9.6	0.02	422	140	0.02	4	2	0.04601006082
4904.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	242	0.02	9.9	0.01	436	145	0.03	7	4	0.13758109868
4905.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	215	0.03	9.8	0.01	468	150	0.01	5	3	0.03454323919
4906.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	218	0.01	9.4	0.02	495	152	0.04	2	1	0.06131026073
4907.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	222	0.04	9.5	0.01	466	160	0.05	3	2	0.07204991489
4908.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	216	0.02	10	0.01	458	165	0.02	6	4	0.10590010309
4909.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	218	0.03	8.2	0.01	436	155	0.03	7	4	0.08078763974
4910.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	219	0.01	8.3	0.02	437	158	0.01	4	2	0.05217820753
4911.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	217	0.04	8.4	0.02	455	160	0.04	5	3	0.02469195394
4912.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.02	8.6	0.02	468	164	0.05	2	1	0.01364334673
4913.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	221	0.03	8.7	0.01	467	170	0.02	3	2	0.08347766087
4914.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	215	0.01	8.8	0.01	466	178	0.03	6	4	0.11990614210
4915.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	218	0.02	9	0.02	435	172	0.01	4	2	0.01358298783
4916.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	219	0.03	10	0.02	468	114	0.04	7	4	0.06150416283
4917.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	216	0.01	9.6	0.02	467	120	0.05	5	3	0.06250104643
4918.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	217	0.04	9.8	0.02	477	125	0.02	4	2	0.12920895026
4919.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	220	0.02	9.5	0.01	448	130	0.03	7	4	0.74936391922
4920.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	225	0.01	9.2	0.01	452	135	0.01	2	1	0.06264481562
4921.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.03	9.3	0.01	456	140	0.05	3	2	0.02271755106
4922.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	230	0.04	9.7	0.01	468	148	0.04	6	4	0.34280066709
4923.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	234	0.02	10	0.01	469	150	0.02	5	3	0.19324470031
4924.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	237	0.03	9.3	0.02	471	155	0.03	4	2	0.03312910132

4925.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	225	0.01	9.4	0.01	445	162	0.01	7	4	0.12411325091
4926.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	214	0.04	8.2	0.01	460	164	0.04	5	3	0.34211972770
4927.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	218	0.02	8.5	0.01	462	169	0.05	2	1	0.04154724915
4928.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	219	0.03	8.8	0.01	466	170	0.02	3	2	0.03138817319
4929.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	220	0.01	8.6	0.02	458	142	0.03	4	2	0.46464919755
4930.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.03	8.8	0.02	458	152	0.01	7	4	0.10209813495
4931.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	226	0.02	10	0.02	456	160	0.04	2	1	0.07142091295
4932.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	237	0.03	9.8	0.01	458	162	0.02	5	3	0.02864075678
4933.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	234	0.01	9.7	0.01	462	163	0.03	4	2	0.03631398337
4934.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.04	9.6	0.01	468	164	0.01	7	4	0.04732833291
4935.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	236	0.02	9.5	0.02	470	150	0.05	3	2	0.08182711376
4936.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	242	0.03	8.2	0.02	472	152	0.04	6	4	0.03354292964
4937.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.01	8.3	0.01	477	158	0.02	4	2	0.08801918176
4938.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.02	8.6	0.02	478	163	0.03	2	1	0.05843379268
4939.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	235	0.03	8.8	0.01	480	145	0.01	5	3	0.03893907259
4940.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	232	0.04	10	0.01	452	142	0.02	4	2	0.23503280986
4941.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.02	9	0.01	458	148	0.03	7	4	0.02756269746
4942.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	228	0.03	8	0.02	460	144	0.01	3	2	0.02793607440
4943.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.01	9.3	0.02	463	152	0.05	2	1	0.01855587011
4944.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	220	0.02	9.1	0.01	469	153	0.05	5	3	0.05696367694
4945.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	214	0.04	9.4	0.01	470	150	0.02	4	2	0.05952572329
4946.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.02	9.7	0.02	452	140	0.03	7	4	0.02979977161
4947.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	213	0.03	8.7	0.02	466	135	0.01	2	1	0.06149971113
4948.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	206	0.01	8.1	0.01	461	140	0.04	4	2	0.05666258916
4949.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	208	0.02	8.2	0.01	463	147	0.02	5	3	0.18518438345
4950.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	210	0.03	8.4	0.01	468	123	0.03	3	1	0.08560882078
4951.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	209	0.01	8.5	0.02	455	136	0.05	6	4	0.04294347224
4952.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	200	0.04	8.6	0.02	452	140	0.02	7	4	0.07840933227
4953.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	218	0.02	8.3	0.01	455	142	0.03	2	1	0.02096902938
4954.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	216	0.03	8.5	0.01	452	145	0.01	4	2	0.03465586490

4955.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	213	0.01	8.7	0.01	470	153	0.04	5	3	0.04932488126
4956.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	218	0.04	10	0.01	450	156	0.05	7	4	0.05151784038
4957.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	215	0.02	9.2	0.02	460	160	0.02	6	4	0.04541279475
4958.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	221	0.03	9	0.02	463	123	0.03	3	2	0.08526639988
4959.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	220	0.01	8	0.02	462	110	0.01	2	1	0.08098533738
4960.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.02	9.3	0.02	466	125	0.02	4	2	0.04097074273
4961.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	216	0.03	9.5	0.01	462	132	0.04	5	2	0.06233461986
4962.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	218	0.01	10	0.01	466	140	0.05	6	4	0.05263649982
4963.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	217	0.04	8.2	0.01	467	141	0.02	5	3	0.03095885433
4964.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	219	0.02	8.5	0.02	470	152	0.03	6	4	0.05899696635
4965.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	220	0.03	8.6	0.02	452	160	0.01	4	2	0.04455518348
4966.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	225	0.01	8.7	0.02	456	145	0.04	2	1	0.01201982490
4967.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	226	0.04	8.8	0.01	466	144	0.05	7	4	0.04745806177
4968.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	227	0.02	8.9	0.01	463	142	0.02	4	2	0.04088770976
4969.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.03	9	0.01	452	158	0.03	5	3	0.03020345782
4970.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	230	0.01	10	0.02	450	132	0.01	4	2	0.08432687266
4971.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	234	0.04	9.3	0.02	463	134	0.04	2	1	0.08334407921
4972.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.02	9.5	0.02	460	137	0.02	6	4	0.04902150602
4973.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	238	0.03	9.6	0.01	455	140	0.03	4	2	0.06537553473
4974.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.4	0.02	452	145	0.01	5	3	0.06955806816
4975.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.04	9	0.01	457	143	0.05	4	2	0.03346035891
4976.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	242	0.02	9.7	0.01	458	146	0.04	2	1	0.10273599392
4977.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	245	0.03	9.8	0.01	436	122	0.02	6	4	0.03541193800
4978.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	231	0.01	10	0.02	440	130	0.03	2	1	0.07865959849
4979.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.04	9.9	0.02	445	135	0.01	4	2	0.04994444296
4980.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	237	0.02	8.2	0.02	455	142	0.04	7	4	0.04090825413
4981.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	238	0.03	8	0.01	428	141	0.05	5	3	0.05319537363
4982.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	240	0.01	8.5	0.01	435	147	0.02	4	2	0.04938011404
4983.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	242	0.04	8.7	0.01	440	150	0.03	2	1	0.03204335479
4984.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	215	0.02	8.8	0.02	446	123	0.01	6	4	0.06956208833

4985.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	220	0.03	9	0.02	447	136	0.02	4	2	0.04492930545
4986.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	10	0.02	450	140	0.05	5	3	0.05822106858
4987.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	228	0.04	8.3	0.01	456	145	0.04	4	2	0.06025646646
4988.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	232	0.02	8.6	0.01	460	128	0.02	2	1	0.02446413749
4989.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	234	0.03	8.4	0.01	425	130	0.03	7	4	0.04401028811
4990.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	237	0.01	8.7	0.02	430	135	0.01	4	2	0.11580233143
4991.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	242	0.04	8.8	0.02	436	140	0.05	2	1	0.09439345761
4992.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	246	0.02	8.6	0.02	437	128	0.02	6	4	0.04159897035
4993.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	222	0.03	8.9	0.01	438	135	0.04	5	3	0.04992181125
4994.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	200	0.01	9	0.02	444	142	0.05	6	4	0.06299872873
4995.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	210	0.02	10	0.02	450	132	0.02	5	3	0.07097320750
4996.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.04	8	0.01	458	140	0.03	6	4	0.10544450541
4997.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	216	0.03	10	0.01	462	142	0.04	3	2	0.06599500756
4998.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.02	8.5	0.02	460	145	0.05	2	1	0.03573712817
4999.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	218	0.01	8.6	0.01	467	146	0.02	4	2	0.07757373984
5000.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	220	0.04	8.7	0.02	470	148	0.01	7	4	0.05653149472
5001.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	8.8	0.02	472	150	0.03	5	3	0.08514535050
5002.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	225	0.03	8.9	0.01	455	155	0.04	2	1	0.06954263506
5003.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	226	0.01	8.5	0.01	458	156	0.05	4	2	0.06515785765
5004.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	230	0.04	8.3	0.02	460	162	0.02	3	2	0.06729930086
5005.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	232	0.02	9	0.01	463	168	0.03	6	4	0.04619700851
5006.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	220	0.03	10	0.02	468	170	0.01	7	4	0.01383971519
5007.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	223	0.01	10	0.01	466	120	0.04	2	1	0.05829659223
5008.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	215	0.04	9	0.01	465	152	0.05	5	3	0.06197257714
5009.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	218	0.02	9.2	0.01	462	163	0.02	4	2	0.01064587458
5010.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.03	9.7	0.02	469	168	0.03	3	2	0.01760718580
5011.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	224	0.01	9.8	0.02	470	170	0.01	6	4	0.03775815932
5012.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	230	0.04	9.6	0.02	475	172	0.05	7	4	0.06947617669
5013.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	236	0.03	9.3	0.01	444	180	0.04	5	3	0.05552043064
5014.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	232	0.02	9.9	0.01	443	184	0.02	4	2	0.04018500673

5015.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	231	0.01	9.2	0.01	448	188	0.01	2	1	0.03856748884
5016.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	224	0.04	9.4	0.02	450	145	0.04	3	1	0.06540536759
5017.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	241	0.02	10	0.02	468	152	0.05	2	1	0.11171253144
5018.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	240	0.03	9.6	0.02	470	155	0.03	4	2	0.03565108681
5019.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	223	0.01	9.8	0.01	475	160	0.02	5	3	0.04811818170
5020.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	215	0.04	9	0.01	478	163	0.01	7	4	0.07368968169
5021.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	218	0.02	10	0.01	446	164	0.04	3	2	1.45522412792
5022.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	217	0.03	9.3	0.01	459	167	0.05	6	4	0.02333682340
5023.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	216	0.01	9.5	0.02	462	172	0.02	2	1	0.22940242661
5024.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	219	0.04	9.2	0.02	468	155	0.03	4	2	2.55960128662
5025.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	220	0.02	9.1	0.02	463	156	0.01	5	3	0.17743845269
5026.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	213	0.03	10	0.02	468	142	0.05	7	4	0.22180251807
5027.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	210	0.01	8.4	0.02	478	140	0.04	2	1	0.12146337482
5028.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	209	0.04	8.2	0.01	458	145	0.02	5	3	0.11126505144
5029.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	215	0.02	8.7	0.01	463	158	0.03	3	2	0.54273975072
5030.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.04	8.3	0.02	462	160	0.01	2	1	2.33485068841
5031.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	220	0.03	10	0.02	468	145	0.05	4	2	13.47454348650
5032.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	221	0.02	8.2	0.01	467	156	0.02	2	1	0.08805545220
5033.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	215	0.01	8.3	0.01	470	160	0.03	4	2	0.01862926187
5034.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	218	0.03	8.5	0.02	472	168	0.01	5	3	0.01415753679
5035.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	220	0.04	8.7	0.01	455	170	0.05	7	4	0.07613527789
5036.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	223	0.02	8.8	0.01	478	172	0.04	6	4	0.04121425661
5037.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.03	8.9	0.01	479	178	0.02	3	1	0.03912308684
5038.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	230	0.01	9	0.02	490	180	0.03	2	1	0.13482673255
5039.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	235	0.04	10	0.02	486	183	0.01	4	2	0.05119378935
5040.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.02	8.3	0.02	485	184	0.05	5	2	0.02297573380
5041.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	245	0.03	8.2	0.01	482	185	0.04	7	4	0.06156959869
5042.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	250	0.01	8.4	0.01	483	190	0.02	6	4	0.06344800546
5043.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	226	0.04	8.7	0.01	481	192	0.03	2	1	0.63451198083
5044.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	250	0.02	8.8	0.02	480	193	0.01	3	2	0.12237840237

5045.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	245	0.03	8.9	0.01	486	195	0.04	5	3	0.09019245106
5046.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	242	0.01	9	0.02	487	168	0.02	4	2	0.84037913235
5047.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	247	0.04	10	0.02	489	170	0.05	7	4	0.58223962891
5048.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.02	8	0.02	488	178	0.03	2	1	0.06046126960
5049.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	223	0.03	9.3	0.01	479	180	0.01	5	3	0.05231230399
5050.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	226	0.02	9.4	0.01	480	189	0.04	4	2	0.06452705669
5051.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	235	0.04	9.6	0.01	485	192	0.03	3	2	0.04426520546
5052.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	238	0.02	9.9	0.01	486	195	0.02	6	4	0.02336382619
5053.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	239	0.01	9.8	0.01	483	186	0.01	7	4	2.64587365320
5054.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	240	0.04	9.7	0.02	492	188	0.04	2	1	0.27060113009
5055.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	241	0.03	10	0.02	498	190	0.05	4	2	0.15098605634
5056.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	242	0.01	8.2	0.02	497	192	0.02	3	2	2.02579125045
5057.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	216	0.02	8.3	0.02	486	188	0.03	5	3	0.05608254813
5058.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.03	10	0.01	482	175	0.05	2	1	0.06035992776
5059.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	220	0.01	82	0.01	465	180	0.04	6	4	0.06356187324
5060.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	223	0.04	8.6	0.02	467	182	0.02	7	4	0.06244121594
5061.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	224	0.03	8.8	0.02	477	190	0.03	2	1	0.01516647268
5062.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	227	0.02	10	0.02	478	193	0.01	5	3	0.02843827157
5063.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	232	0.01	8.9	0.01	479	195	0.05	4	2	0.37998102494
5064.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.04	9	0.01	477	182	0.03	7	4	0.12190981574
5065.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	230	0.01	10	0.02	470	186	0.02	3	2	0.46592846115
5066.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	235	0.03	8	0.01	450	182	0.02	2	1	3.78274389391
5067.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	236	0.02	8.3	0.02	456	148	0.03	5	2	0.57789225725
5068.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	200	0.01	8.4	0.02	458	150	0.01	4	2	0.22852458376
5069.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	205	0.04	8.5	0.02	468	152	0.04	7	4	0.31923692300
5070.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	208	0.02	8.6	0.01	469	156	0.02	3	2	0.15314776090
5071.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	210	0.03	8.7	0.01	458	144	0.03	6	4	0.06160302152
5072.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	215	0.01	8.8	0.01	460	148	0.01	7	4	0.05624277574
5073.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	218	0.04	8.9	0.02	467	185	0.04	4	2	0.05873943916
5074.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	220	0.02	9	0.01	469	174	0.02	5	3	0.06337706448

5075.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	223	0.03	9.2	0.02	458	172	0.03	2	1	0.04843694971
5076.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	9.4	0.02	489	150	0.01	3	1	0.07274654325
5077.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.04	9.5	0.02	490	156	0.04	5	3	0.03083599483
5078.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	235	0.02	9.6	0.01	470	162	0.05	4	2	0.08026339486
5079.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	236	0.03	9.8	0.01	475	163	0.05	2	1	0.05369614045
5080.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.9	0.01	478	168	0.05	7	4	0.06153654102
5081.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	245	0.04	9.8	0.01	477	170	0.05	3	2	0.07368073337
5082.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.02	10	0.01	480	172	0.05	2	1	0.15526929142
5083.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	218	0.03	9.3	0.02	482	145	0.01	4	2	0.03730297113
5084.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	230	0.01	9.2	0.02	483	152	0.03	5	3	0.04011644493
5085.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	220	0.04	10	0.02	485	156	0.04	7	4	0.11670407433
5086.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	225	0.02	9	0.02	488	153	0.02	5	3	0.05831762829
5087.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	224	0.03	0.5	0.01	480	156	0.03	3	1	0.10578350049
5088.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	223	0.01	9.8	0.01	482	145	0.01	2	1	0.02301676307
5089.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	228	0.04	9.9	0.02	487	148	0.05	4	2	0.37798084285
5090.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	230	0.02	9.7	0.02	478	152	0.05	7	4	0.04917792731
5091.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	232	0.03	9.8	0.02	486	153	0.02	6	4	0.02466918846
5092.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	236	0.01	9.4	0.01	483	156	0.03	3	1	0.06878686376
5093.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.04	8.9	0.01	444	158	0.04	2	1	0.01979673108
5094.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	205	0.02	8.3	0.02	488	160	0.01	4	2	0.02809650940
5095.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	206	0.03	8.2	0.02	490	162	0.02	5	3	0.03320569062
5096.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	209	0.01	8.9	0.02	485	164	0.05	7	4	0.08845281390
5097.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	215	0.04	9	0.01	487	166	0.02	3	2	1.34986097201
5098.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.02	10	0.01	478	170	0.03	2	1	0.09884312261
5099.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	219	0.03	10	0.02	477	172	0.01	5	3	0.03112179880
5100.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	220	0.03	8	0.01	480	155	0.02	2	1	0.05609925616
5101.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	226	0.01	8.2	0.02	455	160	0.03	4	2	0.06578498308
5102.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.04	8.3	0.02	460	162	0.05	6	4	0.08100705008
5103.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	231	0.02	8.4	0.02	467	164	0.01	5	3	0.06981827241
5104.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	234	0.03	8.5	0.01	478	170	0.04	4	2	0.04828912291

5105.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	222	0.01	8.6	0.01	488	178	0.02	2	1	0.12775882724
5106.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	225	0.04	8.7	0.01	490	180	0.03	7	4	0.05674881664
5107.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	236	0.02	8.8	0.01	485	182	0.01	2	1	0.08301412514
5108.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	238	0.03	8.9	0.01	475	185	0.04	4	2	0.08793474675
5109.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.01	9	0.02	468	190	0.05	2	1	0.06897568178
5110.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.04	9.2	0.02	470	192	0.02	7	4	0.05774906078
5111.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	232	0.02	9.3	0.02	472	155	0.03	4	2	0.10181394023
5112.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	238	0.03	9.4	0.02	478	160	0.01	5	3	0.07480460799
5113.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	241	0.01	9.6	0.01	477	164	0.04	4	2	0.06567395063
5114.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	245	0.04	9.5	0.01	488	167	0.05	2	1	0.09489908623
5115.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	235	0.02	9.7	0.02	486	170	0.02	6	4	0.01028431448
5116.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	237	0.03	9.8	0.02	473	172	0.03	4	2	0.02883483516
5117.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	238	0.01	10	0.02	476	188	0.01	2	1	0.18280450723
5118.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.04	10	0.01	477	189	0.04	6	4	0.07630048343
5119.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	221	0.02	8.3	0.02	488	187	0.05	4	2	0.06115654377
5120.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	215	0.03	8.4	0.02	455	186	0.02	5	3	0.05294131044
5121.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	219	0.01	8.5	0.02	465	182	0.03	4	2	0.07995680261
5122.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	220	0.04	8.7	0.02	478	174	0.01	2	1	0.09539109680
5123.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.02	9	0.01	458	178	0.05	6	4	0.02545162342
5124.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.03	9.2	0.01	468	180	0.04	2	1	0.05724370583
5125.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	236	0.01	9.3	0.02	466	182	0.02	4	2	0.01915735252
5126.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	237	0.04	9.4	0.01	477	185	0.03	5	3	0.01916882388
5127.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	240	0.02	9.5	0.01	488	186	0.01	6	4	0.25509536019
5128.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.03	9.6	0.02	486	183	0.04	2	1	0.08110668157
5129.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	248	0.01	9.7	0.02	463	147	0.05	4	2	0.07352349018
5130.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	249	0.04	9.8	0.02	466	150	0.02	5	3	0.07304402656
5131.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	250	0.02	9.9	0.01	469	156	0.03	2	1	0.02295426866
5132.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	215	0.03	10	0.01	470	162	0.01	4	2	0.23259319080
5133.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	216	0.01	10	0.02	458	164	0.04	5	3	1.83901088706
5134.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	218	0.04	8.3	0.01	468	168	0.05	6	4	0.60720168359

5135.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	223	0.02	8.5	0.01	467	175	0.01	5	3	0.05675593924
5136.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	226	0.01	8.6	0.02	499	180	0.02	4	2	0.25805068377
5137.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	228	0.03	8	0.02	450	182	0.05	2	1	0.04974827270
5138.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	230	0.04	8.2	0.02	458	184	0.02	4	2	0.06379398263
5139.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	235	0.02	8.4	0.02	468	172	0.03	5	3	0.06136240915
5140.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	244	0.01	8.5	0.02	467	175	0.01	7	4	0.06620980073
5141.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.03	8.6	0.01	468	177	0.04	6	4	0.11103885305
5142.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	218	0.02	8.7	0.01	470	176	0.05	3	2	0.07798474572
5143.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	223	0.01	8.8	0.02	475	173	0.02	2	1	0.03593816875
5144.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	225	0.04	8.9	0.02	488	180	0.03	4	2	0.08835239397
5145.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	226	0.02	9	0.02	475	170	0.01	5	3	0.01378206722
5146.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	228	0.03	9.2	0.01	465	165	0.04	7	4	0.03388858557
5147.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	229	0.01	9.3	0.02	460	164	0.05	6	4	0.20694065904
5148.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	230	0.04	9.4	0.02	462	168	0.02	3	2	0.04219146769
5149.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	245	0.02	9.5	0.02	468	162	0.03	2	1	0.03285669307
5150.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.03	9.6	0.02	469	165	0.01	5	2	0.02944189729
5151.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	216	0.01	9.9	0.01	465	168	0.05	4	2	0.67397981701
5152.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	219	0.04	10	0.01	455	169	0.04	7	4	0.02688910158
5153.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	220	0.02	9	0.02	458	170	0.02	6	4	0.08275484204
5154.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.03	9.3	0.01	460	172	0.03	3	2	0.08043319172
5155.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	228	0.01	9.5	0.01	463	177	0.01	2	1	0.08670397953
5156.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	227	0.04	9.6	0.02	467	175	0.04	5	2	0.05896388936
5157.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	229	0.02	9.8	0.02	468	178	0.05	4	2	0.05041746791
5158.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	228	0.03	10	0.02	469	180	0.02	6	4	0.05562805492
5159.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.01	9.7	0.01	470	182	0.03	7	4	0.08206330210
5160.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	223	0.02	9.3	0.01	472	183	0.01	5	3	0.09198123676
5161.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	214	0.03	9.8	0.02	475	145	0.04	3	1	0.00459156512
5162.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	217	0.04	9.6	0.01	488	155	0.05	2	1	0.06937101745
5163.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	218	0.02	10	0.01	490	156	0.01	4	2	0.05069514601
5164.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	219	0.01	8	0.02	488	158	0.02	6	4	0.06900212197

5165.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	226	0.03	8.5	0.02	485	159	0.01	3	2	0.04089803275
5166.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	228	0.01	8.6	0.01	468	160	0.04	2	1	0.04868952107
5167.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	230	0.04	8.9	0.01	467	161	0.05	4	2	0.13452750340
5168.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	232	0.02	9	0.02	466	162	0.01	5	3	0.06683333534
5169.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	222	0.01	10	0.02	462	163	0.02	7	4	0.08956296010
5170.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	228	0.03	8.5	0.02	460	164	0.05	2	1	0.04603448494
5171.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.04	9.6	0.01	468	164	0.01	7	4	0.08066885379
5172.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	236	0.02	9.5	0.02	470	150	0.05	3	2	15.72896317620
5173.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	242	0.03	8.2	0.02	472	152	0.04	6	4	0.08110868799
5174.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.01	8.3	0.01	477	158	0.02	4	2	0.10046657085
5175.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.02	8.6	0.02	478	163	0.03	2	1	0.04435624164
5176.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	235	0.03	8.8	0.01	480	145	0.01	5	3	0.04549152720
5177.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	232	0.04	10	0.01	452	142	0.02	4	2	0.07978205135
5178.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.02	9	0.01	458	148	0.03	7	4	0.02706497732
5179.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	228	0.03	8	0.02	460	144	0.01	3	2	0.03606821839
5180.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.01	9.3	0.02	463	152	0.05	2	1	0.07845444484
5181.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	220	0.02	9.1	0.01	469	153	0.05	5	3	0.04325233871
5182.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	214	0.04	9.4	0.01	470	150	0.02	4	2	0.04712515757
5183.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.02	9.7	0.02	452	140	0.03	7	4	0.08056031480
5184.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	213	0.03	8.7	0.02	466	135	0.01	2	1	0.01632519836
5185.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	206	0.01	8.1	0.01	461	140	0.04	4	2	0.01565764431
5186.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	208	0.02	8.2	0.01	463	147	0.02	5	3	0.01327542027
5187.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	171	0.04	8.5	0.02	312	76	0.04	4	2	0.05920309303
5188.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	172	0.03	8.2	0.01	350	80	0.05	3	1	0.04921724153
5189.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	167	0.03	9.3	0.01	325	82	0.05	7	4	0.05566853269
5190.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	166	0.01	9.9	0.01	320	84	0.05	6	4	0.05974118976
5191.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	163	0.04	9.8	0.02	315	89	0.04	3	1	0.05891754611
5192.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.04	9.6	0.02	326	90	0.03	4	1	0.04859181414
5193.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.01	9.2	0.01	317	95	0.02	2	1	0.04806812611
5194.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	158	0.02	10	0.01	328	96	0.01	5	2	0.11014366955

5195.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	156	0.02	9	0.02	325	78	0.04	6	4	0.05497911000
5196.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	152	0.01	8	0.01	345	90	0.03	7	4	0.08082314050
5197.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	155	0.02	8.2	0.02	400	100	0.02	2	1	0.07237224517
5198.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	200	0.02	8.3	0.02	405	105	0.01	4	2	0.28152988830
5199.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	198	0.01	8.4	0.01	410	107	0.05	5	3	0.17378786706
5200.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	205	0.04	8.6	0.02	420	110	0.03	7	4	0.07459616536
5201.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	210	0.02	8.8	0.01	426	112	0.02	6	4	0.00486632147
5202.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.03	9	0.02	428	115	0.01	2	1	0.69855659943
5203.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.02	10	0.02	430	116	0.04	3	2	0.11603988017
5204.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	220	0.01	9.2	0.01	435	120	0.05	4	2	0.05349296812
5205.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	9.5	0.01	440	125	0.02	5	3	0.05483356178
5206.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	225	0.03	9.3	0.02	445	130	0.03	7	4	0.05696877457
5207.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	228	0.01	9.6	0.02	450	132	0.01	6	4	2.37720367849
5208.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.02	8.6	0.02	480	181	0.02	6	4	0.41927901386
5209.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	221	0.04	10	0.02	458	156	0.04	2	1	0.10449484503
5210.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.01	9	0.01	466	170	0.05	4	2	0.10631393310
5211.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.03	10	0.02	478	175	0.02	2	1	0.04800975677
5212.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	225	0.01	8.2	0.01	475	180	0.03	4	2	0.02412152648
5213.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	230	0.04	8.3	0.01	456	182	0.01	6	4	0.06847568082
5214.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	245	0.02	8.4	0.02	468	184	0.05	5	3	0.06065033335
5215.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	250	0.03	8.5	0.02	467	177	0.04	4	2	0.02088213592
5216.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	214	0.01	8.6	0.01	482	178	0.02	2	1	0.03065737789
5217.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	217	0.04	8.7	0.01	483	180	0.03	6	4	0.04647714060
5218.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	218	0.02	8.8	0.01	450	181	0.01	4	2	0.05724522125
5219.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	8.9	0.02	456	156	0.05	2	1	0.07571308019
5220.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	223	0.01	9	0.01	467	162	0.02	6	4	0.01679254904
5221.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	9.1	0.01	468	164	0.03	5	3	0.04062122198
5222.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.04	9.2	0.02	470	167	0.01	4	2	0.04785276631
5223.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	233	0.02	9.3	0.02	472	168	0.04	2	1	0.15877746673
5224.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.4	0.01	475	170	0.05	7	4	0.04440917776

5225.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.03	9.5	0.02	476	171	0.02	2	1	0.02169638184
5226.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	9.6	0.02	478	172	0.03	4	2	0.06600472617
5227.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	241	0.04	9.7	0.01	480	175	0.01	5	3	0.03334968287
5228.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	230	0.02	9.8	0.01	482	180	0.05	7	4	0.04518563992
5229.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	234	0.03	9.9	0.02	481	182	0.04	2	1	0.03417930523
5230.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	235	0.01	10	0.01	486	183	0.02	4	2	0.01820019746
5231.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	163	0.03	8.4	0.01	360	83	0.04	2	1	0.01464620174
5232.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	165	0.01	8.6	0.01	405	84	0.02	7	4	0.01113233712
5233.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	170	0.04	8.5	0.02	410	85	0.03	5	3	0.03719231942
5234.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	175	0.02	8.7	0.02	412	86	0.01	4	2	0.03521225602
5235.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	171	0.03	8.8	0.02	415	88	0.04	2	1	0.07500957396
5236.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	172	0.01	8.9	0.02	416	90	0.05	6	4	0.05665396911
5237.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	180	0.02	9	0.01	418	92	0.02	5	2	0.06225112818
5238.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	182	0.03	9.2	0.01	417	96	0.03	2	1	0.04011717629
5239.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	183	0.01	9.3	0.01	420	99	0.01	7	4	0.03991289323
5240.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	186	0.04	9.4	0.02	423	100	0.04	5	3	0.04706350430
5241.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	190	0.02	9.5	0.02	390	102	0.05	4	2	0.07771986184
5242.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	200	0.03	9.6	0.02	395	105	0.02	2	1	0.06362112959
5243.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	156	0.01	9.7	0.02	396	106	0.03	6	4	0.06476700511
5244.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	168	0.04	9.8	0.01	400	104	0.01	5	2	0.05777835128
5245.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	167	0.02	9.9	0.01	358	105	0.04	5	3	0.09257918494
5246.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	170	0.03	10	0.01	369	88	0.05	2	1	0.05968530636
5247.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	172	0.01	8.2	0.01	370	90	0.02	6	4	0.01494463101
5248.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	178	0.04	8.3	0.02	380	95	0.03	4	2	0.04366768847
5249.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	180	0.02	8.4	0.02	385	97	0.01	2	1	0.03195885422
5250.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	182	0.03	8.5	0.02	386	100	0.04	5	3	0.05001682315
5251.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	183	0.01	8.6	0.02	388	102	0.05	6	4	0.01412068934
5252.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	164	0.01	9.3	0.01	378	100	0.03	3	1	0.01918963695
5253.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	216	0.03	9.5	0.01	462	132	0.04	5	2	0.03617384892
5254.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	218	0.01	10	0.01	466	140	0.05	6	4	0.03919254553

5255.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	217	0.04	8.2	0.01	467	141	0.02	5	3	0.04679829154
5256.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	219	0.02	8.5	0.02	470	152	0.03	6	4	0.03319154115
5257.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	220	0.03	8.6	0.02	452	160	0.01	4	2	0.02551572434
5258.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	225	0.01	8.7	0.02	456	145	0.04	2	1	0.04882542979
5259.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	226	0.04	8.8	0.01	466	144	0.05	7	4	0.02164999980
5260.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	227	0.02	8.9	0.01	463	142	0.02	4	2	0.01698178239
5261.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.03	9	0.01	452	158	0.03	5	3	0.02210140181
5262.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	230	0.01	10	0.02	450	132	0.01	4	2	0.01788446563
5263.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	234	0.04	9.3	0.02	463	134	0.04	2	1	0.00760917827
5264.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.02	9.5	0.02	460	137	0.02	6	4	0.02178157740
5265.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	238	0.03	9.6	0.01	455	140	0.03	4	2	0.08463704800
5266.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.4	0.02	452	145	0.01	5	3	0.02484114943
5267.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.04	9	0.01	457	143	0.05	4	2	0.07027685113
5268.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	242	0.02	9.7	0.01	458	146	0.04	2	1	0.06940459445
5269.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	245	0.03	9.8	0.01	436	122	0.02	6	4	0.10671237953
5270.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	231	0.01	10	0.02	440	130	0.03	2	1	0.08748235892
5271.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	180	0.03	8	0.02	345	92	0.01	5	3	0.22804572883
5272.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	175	0.04	8.2	0.01	333	96	0.02	4	2	0.05873948572
5273.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	162	0.02	8	0.02	316	85	0.01	3	1	0.08800545557
5274.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	160	0.03	8.6	0.02	312	75	0.02	4	1	0.05757677807
5275.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	159	0.04	9.3	0.01	320	82	0.03	3	2	0.10270537455
5276.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	152	0.02	9.6	0.01	325	86	0.01	4	2	0.08087484749
5277.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	166	0.01	10	0.02	326	90	0.04	5	3	0.07274824430
5278.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	162	0.03	10	0.02	345	92	0.05	5	3	0.06326914226
5279.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	160	0.04	9.9	0.02	326	95	0.05	6	4	0.01575209969
5280.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	165	0.04	9.8	0.01	321	100	0.01	5	3	0.06777897599
5281.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	155	0.02	9.6	0.01	345	102	0.03	3	2	0.02457446738
5282.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	150	0.03	9.2	0.02	330	105	0.02	3	1	0.03063438957
5283.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	215	0.01	8.2	0.01	470	162	0.02	2	1	0.02518647346
5284.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	259	0.02	8.3	0.01	458	163	0.03	3	2	0.00822896173

5285.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	245	0.04	8.6	0.01	444	165	0.04	6	3	0.04643800069
5286.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	198	0.03	9.6	0.01	450	158	0.01	5	4	0.03424866260
5287.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	200	0.04	9.5	0.02	420	160	0.05	2	1	0.00778221285
5288.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	235	0.03	8.8	0.01	480	145	0.01	5	3	0.03828540551
5289.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	232	0.04	10	0.01	452	142	0.02	4	2	0.20893823102
5290.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.02	9	0.01	458	148	0.03	7	4	0.06285703603
5291.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	228	0.03	8	0.02	460	144	0.01	3	2	0.19270379413
5292.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.01	9.3	0.02	463	152	0.05	2	1	0.30344813328
5293.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	220	0.02	9.1	0.01	469	153	0.05	5	3	0.03600784403
5294.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	214	0.04	9.4	0.01	470	150	0.02	4	2	0.04966380768
5295.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	222	0.02	9.7	0.02	452	140	0.03	7	4	0.00749414959
5296.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	213	0.03	8.7	0.02	466	135	0.01	2	1	0.01587207143
5297.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	206	0.01	8.1	0.01	461	140	0.04	4	2	0.04377232279
5298.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	208	0.02	8.2	0.01	463	147	0.02	5	3	0.04939943903
5299.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	210	0.03	8.4	0.01	468	123	0.03	3	1	0.04110286845
5300.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	209	0.01	8.5	0.02	455	136	0.05	6	4	0.03047586667
5301.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	200	0.04	8.6	0.02	452	140	0.02	7	4	0.60352961876
5302.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	230	0.02	10	0.01	455	172	0.02	7	4	0.01796915661
5303.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	240	0.01	9.9	0.02	459	185	0.02	6	4	0.02984672003
5304.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	237	0.02	8.3	0.01	480	196	0.02	5	3	0.03418665337
5305.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	236	0.03	8.6	0.02	478	200	0.02	2	1	0.01332115910
5306.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	244	0.04	8.8	0.01	468	198	0.05	3	1	0.01330064827
5307.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	250	0.01	8.7	0.02	475	175	0.04	4	2	0.17649548421
5308.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	246	0.02	8.5	0.01	470	182	0.03	7	4	0.08539308693
5309.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	245	0.03	9.3	0.02	468	184	0.02	6	4	0.27460478081
5310.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	222	0.04	9	0.01	467	186	0.04	7	4	0.04867515658
5311.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.01	8	0.02	466	183	0.01	4	2	0.33984234081
5312.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.03	8.1	0.02	333	86	0.04	3	2	0.15220428884
5313.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	175	0.02	9	0.01	320	84	0.02	2	4	0.99363833256
5314.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	178	0.01	9.3	0.01	345	82	0.01	2	4	0.24104902912

5315.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.04	9.6	0.02	325	80	0.05	4	1	0.04215056704
5316.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	150	0.03	9.9	0.02	326	75	0.02	5	2	0.02212361804
5317.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	152	0.02	10	0.01	330	95	0.03	6	3	0.45621992929
5318.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	156	0.01	10	0.01	340	100	0.04	7	4	0.03252908709
5319.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	8.7	0.02	395	95	0.05	6	4	0.05525745913
5320.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.03	8.4	0.02	425	100	0.03	4	1	0.11993317489
5321.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	230	0.01	8.2	0.01	410	125	0.02	5	2	0.03876048447
5322.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.02	8.5	0.02	470	128	0.01	2	1	0.03433353805
5323.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	8	0.01	478	136	0.01	5	3	0.04794877575
5324.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.03	9.3	0.02	460	154	0.04	6	4	0.02016393127
5325.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	190	0.02	9	0.02	345	102	0.05	2	1	0.02503420976
5326.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	178	0.03	9.2	0.02	321	105	0.03	5	4	0.02687487107
5327.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	172	0.01	9.1	0.01	352	150	0.02	6	3	0.32529572192
5328.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	175	0.04	9.3	0.02	362	114	0.01	2	1	0.07232256986
5329.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	168	0.02	9.5	0.02	336	121	0.03	4	2	0.05472792672
5330.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	185	0.01	9.4	0.01	342	90	0.02	7	4	0.03591603482
5331.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.04	9.6	0.02	325	80	0.05	4	1	0.02739485437
5332.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	150	0.03	9.9	0.02	326	75	0.02	5	2	0.04001225080
5333.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	152	0.02	10	0.01	330	95	0.03	6	3	0.03087988224
5334.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	156	0.01	10	0.01	340	100	0.04	7	4	0.04036948903
5335.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	8.7	0.02	395	95	0.05	6	4	0.03765770431
5336.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.03	8.4	0.02	425	100	0.03	4	1	0.23411600914
5337.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	230	0.01	8.2	0.01	410	125	0.02	5	2	0.05561477739
5338.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.02	8.5	0.02	470	128	0.01	2	1	0.01045845802
5339.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	8	0.01	478	136	0.01	5	3	0.05673881328
5340.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.03	9.3	0.02	460	154	0.04	6	4	0.05127904536
5341.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	246	0.04	9.2	0.01	444	163	0.03	7	3	0.01868097776
5342.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	215	0.02	8	0.01	450	162	0.03	6	4	0.07834129187
5343.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	250	0.01	8.2	0.02	458	158	0.02	6	4	0.06978037676
5344.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.01	8.1	0.01	499	162	0.03	4	2	0.06533125801

5345.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	221	0.03	8.2	0.02	498	164	0.02	3	1	0.02263079773
5346.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.03	8.3	0.01	447	147	0.01	5	2	0.02779061291
5347.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	214	0.01	8.5	0.01	475	152	0.05	7	4	0.06581905888
5348.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	215	0.04	8.6	0.02	462	158	0.03	2	1	0.01566431228
5349.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	216	0.02	8.7	0.02	465	160	0.04	5	3	0.03756450367
5350.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.03	8.8	0.02	468	163	0.05	4	2	0.01101072233
5351.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	158	0.01	9.6	0.02	322	125	0.02	3	1	0.02715175888
5352.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	162	0.02	9.9	0.01	325	123	0.01	4	2	0.02320616207
5353.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	155	0.04	9.6	0.02	328	140	0.02	2	1	0.01522365701
5354.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	165	0.01	9.3	0.01	330	120	0.03	7	4	0.02056077324
5355.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	158	0.03	9.2	0.02	335	118	0.04	5	3	0.00937682633
5356.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	163	0.02	9.1	0.01	340	115	0.05	5	2	0.02434984739
5357.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	172	0.04	9	0.02	342	112	0.02	2	1	0.01148942914
5358.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	175	0.01	10	0.01	345	126	0.01	6	4	0.10192881109
5359.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	178	0.03	8.5	0.02	350	125	0.03	5	3	0.10608144561
5360.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.03	8.6	0.01	495	189	0.02	7	4	0.01534651789
5361.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.02	8	0.02	485	200	0.03	6	4	0.05628474273
5362.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	8.2	0.01	480	169	0.02	2	1	0.01287843059
5363.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	250	0.01	8.5	0.02	500	200	0.01	4	2	0.01172026245
5364.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.03	8.2	0.02	480	190	0.02	5	3	0.02046254397
5365.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	240	0.02	8.4	0.01	485	192	0.03	2	1	0.06674358266
5366.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	241	0.04	8.6	0.02	482	182	0.04	5	4	0.13713341037
5367.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	248	0.02	8.7	0.01	475	184	0.01	4	2	0.07813994755
5368.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	236	0.01	8.8	0.01	496	195	0.02	2	1	0.02843667762
5369.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	250	0.02	8.9	0.02	495	152	0.04	6	4	0.03765225372
5370.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	230	0.03	9	0.02	492	156	0.05	3	2	0.08531174316
5371.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	232	0.04	9.1	0.02	491	163	0.01	2	1	0.02010871668
5372.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	233	0.01	9.3	0.01	490	164	0.03	4	2	0.05309986958
5373.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	235	0.02	9.5	0.01	450	167	0.02	5	3	0.00403972400
5374.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	238	0.03	9.4	0.02	456	168	0.05	7	4	0.00833174891

5375.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	240	0.01	9.6	0.02	468	171	0.04	6	4	0.03195311009
5376.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	241	0.04	9.8	0.02	467	172	0.01	3	2	0.00604555338
5377.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	231	0.02	9.9	0.01	488	174	0.03	2	1	0.03665210590
5378.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.03	10	0.01	468	178	0.02	5	3	0.02253919901
5379.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	237	0.01	10	0.01	467	156	0.04	4	2	0.03671935446
5380.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	239	0.04	8.6	0.02	477	161	0.01	7	4	0.02476411310
5381.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	230	0.02	8.4	0.02	488	162	0.03	5	3	0.01718656878
5382.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.03	8.7	0.02	489	161	0.05	2	1	0.04977243863
5383.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.04	8.8	0.01	466	145	0.02	4	2	0.05200416739
5384.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	228	0.01	8.9	0.01	472	152	0.05	6	4	0.05812225440
5385.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	229	0.02	9	0.01	478	158	0.04	7	4	0.02737012539
5386.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	230	0.04	9.2	0.02	490	160	0.03	3	2	0.04148326068
5387.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	170	0.04	8.4	0.02	326	90	0.03	5	3	0.03689411610
5388.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	172	0.03	8.1	0.02	333	86	0.04	3	2	0.03896856589
5389.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	175	0.02	9	0.01	320	84	0.02	2	4	0.04062159735
5390.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	178	0.01	9.3	0.01	345	82	0.01	2	4	0.04176763069
5391.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	180	0.04	9.6	0.02	325	80	0.05	4	1	0.01451114910
5392.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	150	0.03	9.9	0.02	326	75	0.02	5	2	0.04742476123
5393.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	152	0.02	10	0.01	330	95	0.03	6	3	0.06467446464
5394.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	156	0.01	10	0.01	340	100	0.04	7	4	0.05543236176
5395.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	8.7	0.02	395	95	0.05	6	4	0.02664928712
5396.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.03	8.4	0.02	425	100	0.03	4	1	0.02545143041
5397.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	230	0.01	8.2	0.01	410	125	0.02	5	2	0.02218748396
5398.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	226	0.02	8.5	0.02	470	128	0.01	2	1	0.01726759533
5399.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	220	0.04	8	0.01	478	136	0.01	5	3	0.01418242016
5400.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	214	0.03	9.3	0.02	460	154	0.04	6	4	0.01166861729
5401.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	190	0.02	9	0.02	345	102	0.05	2	1	0.06347931635
5402.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	178	0.03	9.2	0.02	321	105	0.03	5	4	0.01490147461
5403.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	172	0.01	9.1	0.01	352	150	0.02	6	3	0.01785108353
5404.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.02	9.4	0.01	450	142	0.03	6	4	0.02413401007

5405.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	240	0.01	9.8	0.02	455	140	0.02	7	4	0.05212208548
5406.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.03	10	0.02	452	135	0.05	2	1	0.04488434698
5407.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	250	0.01	9.3	0.02	458	138	0.04	3	1	0.03951204233
5408.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.02	9.2	0.01	456	132	0.01	4	2	0.06156493745
5409.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	220	0.03	9.4	0.01	459	135	0.03	7	4	0.04345854015
5410.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.04	9.7	0.01	460	138	0.02	5	3	0.03555504425
5411.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.02	8.2	0.02	462	120	0.04	6	4	0.05011388044
5412.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	210	0.01	8.3	0.01	465	122	0.05	3	1	0.05347492794
5413.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	205	0.03	8.4	0.01	473	132	0.03	2	1	0.02021238572
5414.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	200	0.02	8.5	0.01	455	134	0.01	7	4	0.05441197646
5415.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	166	0.03	10	0.01	400	82	0.03	2	1	0.04212892198
5416.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	170	0.01	9.3	0.01	402	83	0.02	7	4	0.04184696313
5417.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.04	9.2	0.01	403	84	0.01	6	4	0.03673690272
5418.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	173	0.02	9.4	0.02	405	86	0.03	5	3	0.03113058287
5419.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	175	0.03	9.5	0.02	407	87	0.04	3	1	0.07436031974
5420.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	178	0.01	9.6	0.02	395	88	0.02	2	1	0.02292771766
5421.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	180	0.03	9.7	0.01	398	89	0.03	5	3	0.02975116103
5422.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	190	0.02	9.8	0.01	397	90	0.01	7	4	0.02748222593
5423.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	194	0.01	9.9	0.02	394	95	0.02	2	1	0.03859382463
5424.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	184	0.04	10	0.01	396	100	0.03	4	2	0.00876619745
5425.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	185	0.02	8.2	0.01	395	102	0.01	3	1	0.01186307961
5426.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	186	0.01	8.1	0.02	345	103	0.05	5	3	0.02068655875
5427.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	187	0.03	8	0.02	350	104	0.05	4	2	0.02308087344
5428.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	190	0.04	8.3	0.01	356	107	0.05	2	1	0.02306175113
5429.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	218	0.02	8.8	0.01	450	181	0.01	4	2	0.03213860323
5430.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	8.9	0.02	456	156	0.05	2	1	0.01545832363
5431.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	223	0.01	9	0.01	467	162	0.02	6	4	0.02325707148
5432.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	225	0.02	9.1	0.01	468	164	0.03	5	3	0.02154998958
5433.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	226	0.04	9.2	0.02	470	167	0.01	4	2	0.05159629167
5434.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	233	0.02	9.3	0.02	472	168	0.04	2	1	0.05408240689

5435.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.01	9.4	0.01	475	170	0.05	7	4	0.00820046789
5436.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	241	0.03	9.5	0.02	476	171	0.02	2	1	0.02367248492
5437.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.01	9.6	0.02	478	172	0.03	4	2	0.03411630356
5438.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	241	0.04	9.7	0.01	480	175	0.01	5	3	0.01423553816
5439.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	230	0.02	9.8	0.01	482	180	0.05	7	4	0.00873751963
5440.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	234	0.03	9.9	0.02	481	182	0.04	2	1	0.00923410012
5441.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	235	0.01	10	0.01	486	183	0.02	4	2	0.03767914179
5442.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	236	0.02	8.2	0.02	487	184	0.03	6	4	0.02974809484
5443.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	237	0.04	8	0.02	488	190	0.01	5	3	0.01835412109
5444.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	185	0.03	8.7	0.01	368	106	0.03	3	1	0.03494331173
5445.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	184	0.01	8.6	0.02	350	105	0.01	6	4	0.01192870241
5446.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	183	0.04	8.5	0.02	345	102	0.04	7	4	0.02040226744
5447.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	181	0.02	8.4	0.01	342	102	0.02	4	2	0.04788940243
5448.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	182	0.03	8.3	0.01	357	100	0.03	5	3	0.01285925058
5449.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	180	0.01	9	0.01	368	98	0.01	6	4	0.06618171081
5450.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	175	0.04	9.1	0.02	372	94	0.04	3	1	0.02672044653
5451.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	174	0.02	9.4	0.02	380	93	0.02	2	1	0.02419681574
5452.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	172	0.03	9.6	0.01	381	92	0.03	4	2	0.01316148341
5453.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	171	0.01	9.7	0.01	392	90	0.01	5	3	0.09374251552
5454.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	170	0.04	9.9	0.02	396	87	0.04	7	4	0.01367214564
5455.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	167	0.02	9.8	0.02	400	86	0.05	6	4	0.04799024600
5456.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	165	0.03	9.5	0.02	368	85	0.02	5	3	0.02455343602
5457.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	164	0.01	9.3	0.01	378	100	0.03	3	1	0.05267016772
5458.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	180	0.03	9.7	0.01	398	89	0.03	5	3	0.06281352969
5459.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	190	0.02	9.8	0.01	397	90	0.01	7	4	0.03336835709
5460.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	194	0.01	9.9	0.02	394	95	0.02	2	1	0.04909426539
5461.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	184	0.04	10	0.01	396	100	0.03	4	2	0.04948886306
5462.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	185	0.02	8.2	0.01	395	102	0.01	3	1	0.02908150121
5463.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	186	0.01	8.1	0.02	345	103	0.05	5	3	0.03303879503
5464.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	187	0.03	8	0.02	350	104	0.05	4	2	0.02332130149

5465.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	190	0.04	8.3	0.01	356	107	0.05	2	1	0.02857549620
5466.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	192	0.02	8.4	0.01	368	108	0.02	7	4	0.02334106379
5467.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	193	0.03	8.5	0.02	367	110	0.03	6	4	0.02315986410
5468.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	186	0.01	8.6	0.01	370	90	0.01	2	1	0.04032397216
5469.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	156	0.04	8.7	0.02	372	92	0.05	3	1	0.07094111816
5470.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	168	0.02	8.8	0.02	375	95	0.04	4	2	0.06408694656
5471.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	167	0.03	8.9	0.02	376	98	0.02	2	1	0.07435571866
5472.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	169	0.01	9	0.01	377	100	0.03	5	3	0.08673926538
5473.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	170	0.02	10	0.01	378	102	0.01	7	4	0.01584868421
5474.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	172	0.04	8.2	0.01	380	104	0.04	3	1	0.03718932444
5475.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	171	0.03	8.5	0.01	388	107	0.05	6	4	0.06943346653
5476.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	175	0.02	8.6	0.02	385	90	0.02	5	2	0.05808874561
5477.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	205	0.04	8.6	0.02	420	110	0.03	7	4	0.05471125951
5478.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	210	0.02	8.8	0.01	426	112	0.02	6	4	0.03302758283
5479.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	215	0.03	9	0.02	428	115	0.01	2	1	0.10731796252
5480.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	218	0.02	10	0.02	430	116	0.04	3	2	0.03563097612
5481.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	220	0.01	9.2	0.01	435	120	0.05	4	2	0.02048209150
5482.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	9.5	0.01	440	125	0.02	5	3	0.03532474003
5483.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	225	0.03	9.3	0.02	445	130	0.03	7	4	0.00557646500
5484.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	228	0.01	9.6	0.02	450	132	0.01	6	4	0.00937504546
5485.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.04	9.8	0.01	458	122	0.04	4	2	0.01684090366
5486.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	235	0.02	9.9	0.01	456	105	0.05	5	2	0.03750331343
5487.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	236	0.03	9.7	0.01	459	108	0.02	2	1	0.02809946824
5488.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	238	0.01	9.4	0.02	460	110	0.03	7	4	0.01318656505
5489.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	240	0.04	9.1	0.02	467	112	0.05	3	1	0.04930143823
5490.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	241	0.02	10	0.01	478	118	0.01	2	1	0.00926705383
5491.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	245	0.03	9.3	0.01	488	123	0.04	5	3	0.05136455410
5492.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	235	0.01	9.5	0.02	462	164	0.05	6	2	0.02936965765
5493.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	245	0.04	9.6	0.01	465	165	0.01	5	3	0.02952140384
5494.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.02	9.7	0.01	457	162	0.04	3	1	0.07866415130

5495.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	242	0.03	9	0.01	458	161	0.02	4	2	0.01414918888
5496.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	245	0.01	10	0.01	469	158	0.03	5	3	0.37959874662
5497.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	240	0.04	8.2	0.02	470	155	0.05	2	1	0.03007496357
5498.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	230	0.02	8	0.01	477	167	0.02	4	2	0.05597550378
5499.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	235	0.03	8.3	0.02	482	178	0.01	7	4	0.02231192862
5500.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.04	8.4	0.01	485	181	0.05	3	1	0.02193499040
5501.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	234	0.01	8.8	0.02	486	182	0.04	6	3	0.07795114760
5502.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	247	0.02	8.9	0.02	487	183	0.05	3	2	0.01025674807
5503.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	244	0.03	9	0.01	489	178	0.03	2	1	0.04283576793
5504.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	250	0.01	10	0.01	491	181	0.04	5	4	0.00438369330
5505.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	222	0.04	9.2	0.02	492	178	0.05	4	2	0.04715704757
5506.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	245	0.01	8.3	0.01	468	125	0.03	7	4	0.01080239048
5507.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	241	0.04	8.1	0.02	470	130	0.02	6	4	0.00610381203
5508.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	236	0.02	8.5	0.01	472	132	0.02	2	1	0.04684965930
5509.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	230	0.03	8.6	0.01	475	134	0.03	3	2	0.14844675950
5510.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	225	0.01	9	0.01	480	135	0.02	6	4	0.02421915248
5511.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	223	0.02	10	0.02	485	140	0.05	2	1	0.02006690824
5512.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	220	0.03	9.3	0.02	486	145	0.04	4	2	0.00904595701
5513.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	215	0.04	9.6	0.01	488	141	0.01	5	3	0.04436349834
5514.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.02	9.4	0.01	450	142	0.03	6	4	0.06383345797
5515.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	240	0.01	9.8	0.02	455	140	0.02	7	4	0.05942688534
5516.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.03	10	0.02	452	135	0.05	2	1	0.00792608677
5517.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	250	0.01	9.3	0.02	458	138	0.04	3	1	0.06135606853
5518.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	225	0.02	9.2	0.01	456	132	0.01	4	2	0.01364723509
5519.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	220	0.03	9.4	0.01	459	135	0.03	7	4	58.57821210980
5520.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	215	0.04	9.7	0.01	460	138	0.02	5	3	0.01965150387
5521.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	214	0.02	8.2	0.02	462	120	0.04	6	4	0.03955236938
5522.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	235	0.01	8.2	0.01	440	145	0.02	2	1	0.02686063561
5523.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	238	0.03	8.3	0.02	415	142	0.03	3	1	0.05845933137
5524.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	240	0.02	8.7	0.02	447	141	0.05	5	2	0.08380293130

5525.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	245	0.04	8.8	0.01	478	123	0.05	4	2	0.05227322099
5526.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	226	0.01	8.9	0.01	470	136	0.05	7	4	0.05493562022
5527.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	242	0.02	9	0.01	465	140	0.05	6	4	0.03454341130
5528.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	215	0.03	9.2	0.02	462	125	0.02	3	1	0.02846568408
5529.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	216	0.01	9.5	0.02	463	128	0.03	5	3	0.03623147698
5530.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	219	0.04	9.6	0.01	466	129	0.01	2	1	0.03860870754
5531.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	223	0.02	9.8	0.01	465	130	0.04	4	2	0.05846174161
5532.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	225	0.03	9.9	0.01	470	132	0.02	7	4	0.05348536891
5533.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.01	10	0.02	478	135	0.03	2	1	0.07294663956
5534.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	230	0.02	8.2	0.02	455	136	0.01	3	1	0.06616032177
5535.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	232	0.04	8.4	0.02	456	144	0.04	5	2	0.02185564716
5536.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	236	0.03	8.6	0.01	470	127	0.05	4	2	0.05109857492
5537.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	231	0.02	9.9	0.01	488	174	0.03	2	1	0.06695907610
5538.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.03	10	0.01	468	178	0.02	5	3	0.02119303836
5539.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	237	0.01	10	0.01	467	156	0.04	4	2	0.05720005544
5540.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	239	0.04	8.6	0.02	477	161	0.01	7	4	0.01210846364
5541.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	230	0.02	8.4	0.02	488	162	0.03	5	3	0.01404998382
5542.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.03	8.7	0.02	489	161	0.05	2	1	0.09484495393
5543.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.04	8.8	0.01	466	145	0.02	4	2	0.10137941112
5544.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	228	0.01	8.9	0.01	472	152	0.05	6	4	0.00530754084
5545.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	229	0.02	9	0.01	478	158	0.04	7	4	0.03805024445
5546.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	230	0.04	9.2	0.02	490	160	0.03	3	2	0.01332660511
5547.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	231	0.03	9.3	0.02	492	170	0.01	2	1	0.01981109605
5548.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	232	0.02	9.6	0.01	455	172	0.02	5	3	0.02977878952
5549.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	241	0.02	8.8	0.02	482	158	0.03	7	4	0.04171993889
5550.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	244	0.03	8.9	0.01	483	155	0.01	4	2	0.07988180466
5551.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	250	0.04	9	0.02	486	192	0.04	5	3	0.06670943198
5552.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	250	0.02	9.2	0.01	488	190	0.02	2	1	0.11774087848
5553.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	180	0.02	9.9	0.02	440	89	0.04	7	4	0.06635402369
5554.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	178	0.03	9.3	0.02	425	97	0.04	6	4	0.05140148862

5555.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	172	0.04	9.6	0.01	418	114	0.03	7	4	0.03585796499
5556.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	168	0.04	9.4	0.02	416	120	0.03	5	2	0.03432256125
5557.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	164	0.02	9.4	0.01	410	128	0.02	2	1	0.02304997677
5558.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	165	0.01	9.6	0.01	420	136	0.01	3	1	0.01011063753
5559.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	236	0.02	8.7	0.01	415	136	0.02	4	2	0.06596516813
5560.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	228	0.02	8.6	0.02	418	125	0.02	6	3	0.06282126734
5561.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	223	0.03	8.5	0.02	398	116	0.03	5	4	0.01645963651
5562.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	218	0.04	10	0.02	396	115	0.04	3	1	0.07532491405
5563.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	212	0.01	10	0.01	390	114	0.05	4	2	0.03059519043
5564.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	210	0.01	9.5	0.01	399	112	0.02	5	4	0.00916263007
5565.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	189	0.02	9.1	0.02	394	110	0.01	4	3	0.10513167084
5566.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	175	0.03	9.2	0.01	405	138	0.02	2	1	0.02750209367
5567.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	175	0.04	9.3	0.02	410	145	0.01	5	2	0.07107137802
5568.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	200	0.03	8	0.01	420	150	0.01	2	1	0.09910211790
5569.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	215	0.02	9	0.01	445	158	0.04	4	2	0.02793213721
5570.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	216	0.01	10	0.02	452	160	0.02	5	3	0.04994460967
5571.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	220	0.04	8.2	0.02	456	162	0.03	3	2	0.05606183040
5572.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	223	0.02	8.4	0.02	468	163	0.01	6	4	0.08768668932
5573.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	228	0.03	8.5	0.01	478	164	0.04	7	4	0.05741143426
5574.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	230	0.01	8.7	0.01	477	170	0.05	2	1	0.05216160688
5575.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	235	0.02	8.8	0.01	488	172	0.03	5	3	0.06762690194
5576.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	236	0.04	8.9	0.02	452	178	0.02	4	2	0.06868716280
5577.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	240	0.03	9	0.02	463	180	0.04	3	1	0.19414808608
5578.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	241	0.02	10	0.01	462	185	0.01	6	4	0.04794037974
5579.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	245	0.02	9.3	0.02	465	145	0.03	7	4	0.05977201698
5580.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	228	0.03	9.6	0.01	468	152	0.05	2	1	0.01614161946
5581.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	230	0.04	9.8	0.02	469	156	0.02	4	2	0.04774194560
5582.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.02	9.7	0.01	470	163	0.05	5	3	0.00897202718
5583.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	239	0.02	10	0.02	477	168	0.04	7	4	0.10926372961
5584.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	240	0.03	8.5	0.02	488	167	0.03	3	2	0.01714647572

5585.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	245	0.04	8.2	0.01	480	170	0.01	6	4	0.06095248330
5586.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	244	0.04	8.3	0.02	482	172	0.02	2	1	0.24424950026
5587.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	223	0.02	8.5	0.01	444	177	0.03	5	3	0.03449762565
5588.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.01	8.7	0.01	450	178	0.01	4	2	0.03657841597
5589.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	228	0.02	8.8	0.01	456	180	0.04	7	4	0.03098585770
5590.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	237	0.02	8.9	0.02	467	185	0.02	2	1	0.02025392495
5591.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	240	0.03	8.9	0.02	458	186	0.04	4	2	0.02880926930
5592.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	241	0.02	10	0.02	462	148	0.04	3	2	0.00969965307
5593.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	215	0.01	9.3	0.01	463	182	0.03	5	3	0.00649858508
5594.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	220	0.03	9.7	0.01	469	184	0.03	2	1	0.03021577309
5595.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	226	0.02	9.8	0.02	470	163	0.02	4	2	0.05903636795
5596.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	231	0.04	9.6	0.01	472	164	0.01	6	4	0.02523305250
5597.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	234	0.01	9.3	0.02	477	170	0.02	7	4	0.06935216968
5598.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	237	0.02	9.4	0.01	480	172	0.02	2	1	0.04938222478
5599.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	238	0.03	9.3	0.02	485	175	0.03	4	2	0.03956793111
5600.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	239	0.01	9.2	0.01	482	145	0.04	3	1	0.02006539540
5601.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	240	0.04	9.7	0.01	483	152	0.05	7	4	0.00632346615
5602.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	245	0.02	9.9	0.01	486	162	0.02	5	3	0.01211833750
5603.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	246	0.03	10	0.02	419	165	0.01	6	4	0.01901649474
5604.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	241	0.01	8.3	0.02	420	166	0.02	2	1	0.01655237496
5605.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	247	0.02	8.7	0.02	455	163	0.01	4	2	0.01806808652
5606.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	215	0.04	8.8	0.01	462	169	0.04	5	3	0.01813886351
5607.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	218	0.03	8.5	0.01	460	170	0.02	3	1	0.06516390501
5608.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	219	0.02	8.6	0.02	466	172	0.04	7	4	0.00819305940
5609.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	216	0.03	8.7	0.01	444	171	0.04	6	4	0.00596869367
5610.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	205	0.01	8.8	0.02	445	175	0.03	2	1	0.00268079110
5611.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	208	0.04	8.3	0.02	452	148	0.03	5	3	0.01848413842
5612.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	209	0.02	8.4	0.02	458	152	0.02	3	2	0.01435968539
5613.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	210	0.03	8.2	0.01	460	153	0.01	4	2	0.04802243572
5614.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	214	0.04	8.1	0.01	467	166	0.02	2	1	0.08978907816

5615.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	217	0.01	8	0.02	470	170	0.02	5	3	0.15962781947
5616.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	220	0.02	10	0.01	478	174	0.03	4	2	0.03152738329
5617.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.1	225	0.03	8.3	0.02	480	152	0.04	7	4	0.02178260157
5618.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	231	0.01	8.4	0.02	485	155	0.05	2	1	0.02547987870
5619.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	234	0.04	8.7	0.01	486	158	0.02	3	2	0.05349922379
5620.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	236	0.01	8.8	0.02	492	162	0.01	4	2	0.06005510190
5621.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	240	0.02	8.7	0.02	493	164	0.02	5	3	0.07390533149
5622.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	215	0.03	8	0.02	450	166	0.01	7	4	0.05556047355
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5624.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	218	0.04	8.3	0.01	462	170	0.02	4	2	0.02654816084
5625.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	220	0.02	8.4	0.01	467	172	0.01	7	4	0.02257014224
5626.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.03	8.5	0.01	469	174	0.05	5	3	0.02211215730
5627.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.01	8.8	0.02	470	175	0.04	4	2	0.03709665144
5628.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	232	0.02	8.9	0.02	475	180	0.02	2	1	0.02011033310
5629.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	226	0.04	9	0.01	478	181	0.03	6	4	0.02899500240
5630.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	241	0.02	10	0.01	488	182	0.01	4	2	0.05489719698
5631.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	250	0.03	10	0.01	490	184	0.04	2	1	0.02894562235
5632.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	244	0.01	9.3	0.02	492	185	0.05	6	4	0.03237277267
5633.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	235	0.02	9.5	0.02	458	183	0.02	5	3	0.07780228441
5634.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	238	0.04	9.8	0.01	462	173	0.03	4	2	0.04799845593
5635.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	240	0.02	9.6	0.01	463	176	0.01	2	1	0.04233933276
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5637.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	222	0.01	9.8	0.02	468	150	0.04	4	2	0.09292032221
5638.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	236	0.04	9.9	0.02	488	152	0.02	2	1	0.05177436078
5639.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	240	0.02	10	0.02	458	156	0.03	6	4	0.06986049600
5640.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	245	0.03	9.3	0.01	459	160	0.01	5	3	0.02206253124
5641.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	241	0.01	9.6	0.01	456	164	0.04	4	2	0.04660205381
5642.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	213	0.02	9.7	0.01	452	170	0.05	2	1	0.05862636419
5643.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	215	0.03	9.2	0.02	458	155	0.02	7	4	0.07633055307
5644.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	218	0.01	9	0.01	478	152	0.03	4	2	0.01976850605

5645.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	216	0.04	10	0.01	488	162	0.04	5	3	0.22681557278
5646.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	219	0.02	9.4	0.01	489	164	0.05	4	2	0.04457850818
5647.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	220	0.03	9.5	0.02	490	152	0.02	2	1	0.07154025734
5648.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	225	0.02	9.8	0.01	452	158	0.03	6	4	0.03519187812
5649.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	226	0.01	9.7	0.01	456	157	0.01	4	2	0.05883889787
5650.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	230	0.04	9.6	0.02	468	175	0.04	2	1	0.02601997359
5651.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	235	0.02	9.3	0.01	470	180	0.02	5	3	0.04361484034
5652.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	234	0.03	9.8	0.02	472	184	0.05	4	2	0.03772807615
5653.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	236	0.02	9.9	0.01	451	164	0.03	2	1	0.05147872260
5654.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	238	0.01	10	0.01	456	168	0.01	7	4	0.22099791579
5655.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	237	0.04	10	0.01	468	170	0.04	4	2	0.03051502697
5656.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	240	0.02	8.2	0.02	458	172	0.02	2	1	0.00882120624
5657.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	241	0.03	8.3	0.02	472	175	0.05	5	3	0.01048783800
5658.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	236	0.01	8.5	0.02	473	184	0.03	4	2	0.06037587688
5659.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	238	0.04	8.6	0.01	478	155	0.04	2	1	0.01920871666
5660.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	234	0.02	8.7	0.01	480	156	0.05	7	4	0.01877794396
5661.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.1	222	0.03	8.8	0.01	482	163	0.02	4	2	0.01569160029
5662.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	245	0.01	8.9	0.02	481	164	0.01	2	1	0.03925969898
5663.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	214	0.04	9	0.02	475	168	0.03	6	4	0.02096762327
5664.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	215	0.02	10	0.02	476	169	0.02	5	3	0.04035119546
5665.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	220	0.03	8.6	0.01	478	170	0.01	4	2	0.07137362959
5666.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	208	0.01	8.7	0.01	477	171	0.04	2	1	0.01215260455
5667.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	245	0.04	8.8	0.01	452	172	0.05	7	4	0.04402928150
5668.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	216	0.02	8.9	0.01	462	155	0.03	5	3	0.08911741825
5669.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.9	218	0.03	8.2	0.01	448	165	0.02	4	2	0.05946527368
5670.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	220	0.02	8	0.02	406	80	0.02	5	3	0.05291554141
5671.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.2	205	0.01	8.6	0.02	408	82	0.03	7	4	0.03638680205
5672.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.3	198	0.03	8.8	0.02	410	84	0.01	6	4	0.04624239784
5673.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.4	177	0.04	8.9	0.01	412	85	0.04	2	1	0.02966165948
5674.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.5	185	0.02	10	0.01	415	90	0.02	4	2	1.76449691342

5675.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.6	184	0.03	9.2	0.01	420	92	0.03	3	1	0.09025674718
5676.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.7	164	0.01	9.3	0.02	425	94	0.01	2	1	0.02083968168
5677.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7.8	150	0.04	9.5	0.02	430	85	0.05	5	3	0.00992572841
5678.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	155	0.02	9.8	0.02	405	87	0.05	4	2	0.03478563620
5679.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	152	0.03	9.7	0.01	410	88	0.05	7	4	0.02847108722
5680.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	164	0.01	9.9	0.01	405	90	0.05	5	3	0.05696934564
5681.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	165	0.04	10	0.01	400	93	0.02	6	4	0.02386917849
5682.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.5	162	0.02	9.3	0.02	390	100	0.03	2	1	0.01239186983
5683.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.6	167	0.03	9.6	0.02	387	102	0.01	4	2	0.05435347599
5684.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	170	0.01	9.4	0.01	386	104	0.04	7	4	0.02887318487
5685.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	160	0.02	9.2	0.01	394	106	0.01	3	1	0.08945433164
5686.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.9	164	0.04	9.5	0.01	380	107	0.05	2	1	0.04194930864
5687.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	7	167	0.03	10	0.02	375	103	0.02	5	3	0.03851695515
5688.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.2	168	0.01	8.8	0.02	370	95	0.03	4	2	0.06119011340
5689.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.3	170	0.02	8.5	0.02	360	98	0.05	7	4	0.12233688848
5690.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8	172	0.03	8.7	0.01	352	100	0.01	6	4	0.03350606237
5691.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.4	177	0.04	8.4	0.02	354	102	0.04	2	1	0.05260003572
5692.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	8.5	158	0.01	8.2	0.02	356	104	0.02	5	3	0.00700659297
5693.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.8	164	0.02	8.3	0.01	350	105	0.05	3	1	0.01472523317
5694.00000000000	<5 Hazen	Agreeable	Agreeable	< 1 NTU	6.7	162	0.03	10	0.01	380	100	0.03	4	2	0.01245158312

Water body map:-

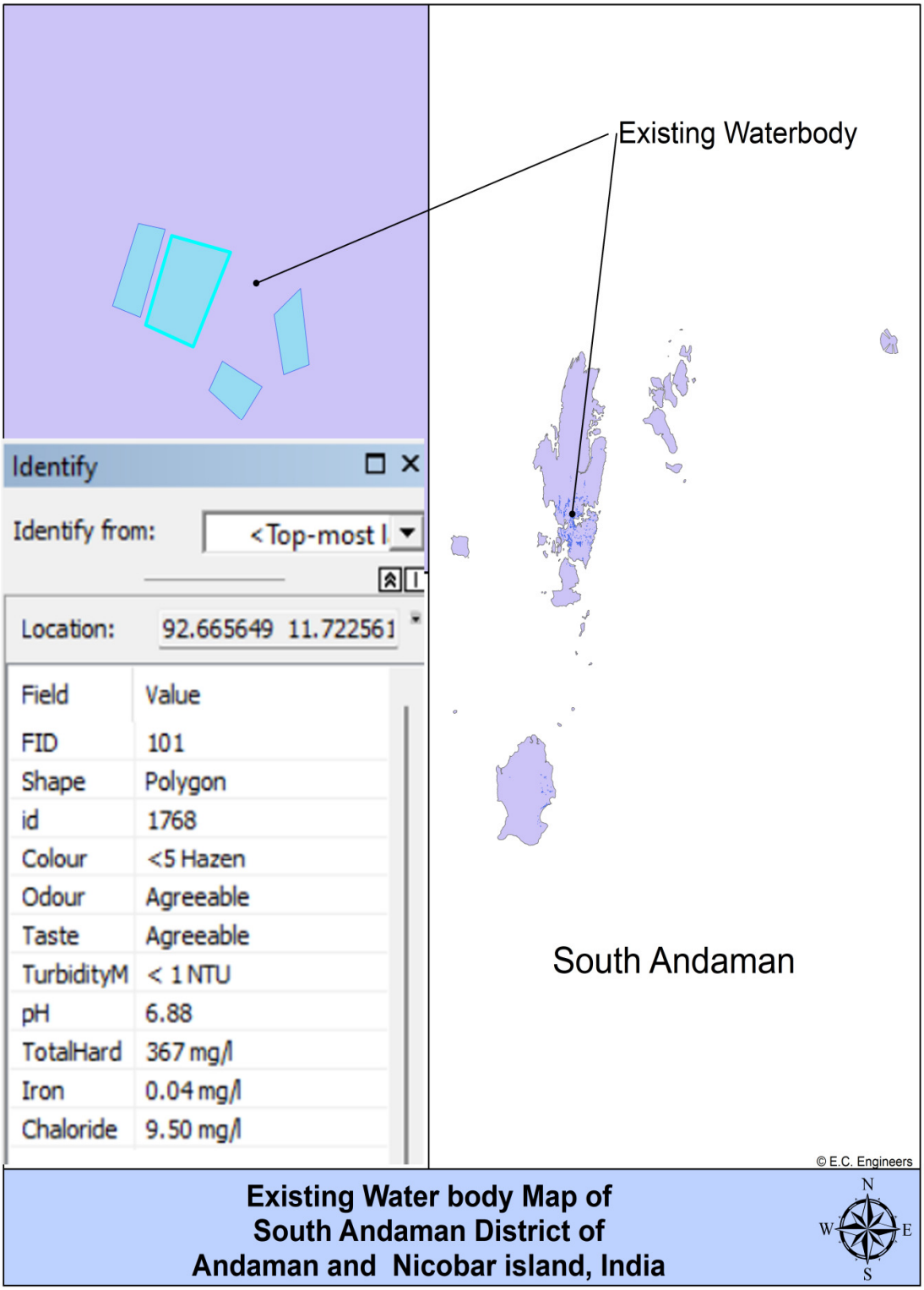


Fig:-8 water body map of South Andaman

13. OTHER BASIC TOOLS REGARDING WATERSHED DEVELOPMENT

The eight tools are:

- **Tool 1.** Land Use Planning
- **Tool 2.** Land Conservation
- **Tool 3.** Aquatic Buffers
- **Tool 4.** Better Site Design
- **Tool 5.** Erosion and Sediment Control
- **Tool 6.** Stormwater Best Management Practices
- **Tool 7.** Non-Stormwater Discharges
- **Tool 8.** Watershed Stewardship Programs

Tool1. Land Use Planning

Land use planning techniques:-

i. Watershed base zoning
ii. Overlay zoning
iii. Floating zones
iv. Incentive zoning
v. Urban growth boundaries
vi. Large lot zoning
vii. Infill community redevelopment
viii. Transfer of development rights

Tool2. Land Conservation

Five types of land may need to be conserved in a subwatershed:-

i. Critical habitats
ii. Aquatic corridor
iii. Hydrologic reserve area
iv. Water pollution hazards
v. Cultural areas

Tool3. Aquatic Buffers: An area of trees that blocks noise pollution.

Benefits of Aquatic Buffer:-

i. Regulates light and temperature conditions, improving the habitat for aquatic plants and animals.
ii. Effective in removing sediment, nutrients, and bacteria from stormwater.
iii. Helps to stabilize and protect the streambank

Tool4. Better Site Design

Three categories:

i. Residential streets and parking lots
ii. Lot development
iii. Conservation of natural areas

Tool5. Erosion and Sediment Control

Ten elements of an effective ESC plan:-

i. Minimize needless clearing and grading
ii. Protect waterways and stabilize drainage ways
iii. Phase construction to limit soil exposure
iv. Stabilize exposed soils immediately
v. Protect steep slopes and cuts
vi. Install perimeter controls to filter sediments
vii. Employ advanced sediment settling controls
viii. Certify contractors on ESC plan implementation
ix. Adjust ESC plan at construction site
x. Assess ESC practices after storms

Tool6. Stormwater Best Management Practices

Goals of stormwater best management plan:-

i. Maintain groundwater recharge and quality
ii. Reduce stormewater pollutant loads
iii. Protect stream channels
iv. Prevent increased overbank flooding
v. Safely convey extreme floods

Most stormwater best management practices can be grouped into five general categories:

i. Ponds
ii. Wetlands
iii. Infiltration
iv. Filtering systems
v. Open channels

Tool7. Non-Stormwater Discharges

1. Septic systems
2. Sanitary sewers
3. Other

i. Industrial NPDES discharges
ii. Urban “return flows”
iii. Water diversions
iv. Runoff from confined animal feeding lots
v. miscellaneous

Tool8. Watershed Stewardship Programs

i. watershed advocacy

ii. watershed education
iii. pollution prevention
iv. watershed maintenance
v. indicator monitoring
vi. restoration

14. DELINEATION & PRIORITIZATION OF WATERSHEDS

1. **Criteria for selection of watershed projects:-**

The following criteria may broadly be used in selection and prioritisation of watershed development projects:

a. Acuteness of drinking water scarcity.
b. Extent of over exploitation of ground water resources.
c. Preponderance of wastelands/degraded lands.
d. Contiguity to another watershed that has already been developed/ treated.
e. Willingness of village community to make voluntary contributions, enforce equitable social regulations for sharing of common property resources, Common Guidelines for Watershed Development Projects 34 make equitable distribution of benefits, create arrangements for the operation and maintenance of the assets created.
f. Proportion of scheduled castes/scheduled tribes.
g. Area of the project should not be covered under assured irrigation.
h. Productivity potential of the land.

2. **Project Management:-**

The major activities of the Watershed Development Projects will be sequenced into (I) Preparatory, (ii) Works and (iii) Consolidation and withdrawal Phase. In view of the expanded scope and expectations under the watershed development programme, the project duration could be in the range of four to seven years depending upon the activities and Ministries/Departments. The DPR should mention the detailed justification for the proposed project duration. The project duration may be spread over 3 different phases as decided by the Nodal Ministry and as given below:

Phase	Name	Duration
I	Preparatory phase	1-2 years
II	Watershed works phase	2-3 years
III	Consolidation and with-drawal phase	1-2 years

I Preparatory phase:-

The major objective of this phase is to build appropriate mechanisms for adoption of participatory approach and empowerment of local institutions (WC, Common Guidelines for Watershed Development Projects 35 SHG, and UG). WDT will assume a facilitating role during this phase. In this phase, the main activities will include:

a. Taking up entry point activities to establish credibility of the Watershed Development Team (WDT) and create a rapport with the village community. The entry point activities, inter-alia, will include:

i. Works based on urgent needs of the local communities such as revival of common natural resources, drinking water, development of local energy potential, augmenting ground water potential etc.

ii. Repair, restoration and up gradation of existing common property assets and structures (such as village tanks) may be undertaken to obtain optimum and sustained benefits from previous public investments and traditional water harvesting structures.

iii. Productivity enhancement of existing farming systems could also be an activity that helps in community mobilization and building rapport.

b. Initiating the development of Village level institutions such as Watershed Committees (WCs), Self- Help Groups (SHGs) and User Groups (UGs) and Capacity Building of different stakeholders on institutional and work related aspects.

c. Environment building, awareness generation, undertaking of intensive IEC activities, creating involvement and participatory responses.

d. Baseline surveys needed for preparation of Detailed Project Report (DPR), selection of sites and beneficiaries. Every effort must be made to collect Common Guidelines for Watershed Development Projects 36 gen-

der-disaggregated data to adequately reflect the situation and priorities of women.

e. Hydro-geological survey of the watershed to map out zones of potential groundwater recharge, storage and sustainable groundwater utilisation.

f. Building up a network of technical support agencies.

g. Preparation of the DPR, including activities to be carried out, selection of beneficiaries and work-sites and design and costing of all works, ensuring that the interests, perceptions and priorities of women, dalits, adivasis and the landless are adequately reflected in the DPR.

h. Working out detailed resource-use agreements (for surface water, groundwater and common/forest land usufructs) among User Group members in a participatory manner based on principles of equity and sustainability.

i. Participatory monitoring of progress and processes.

II Watershed Works Phase:-

This phase is the heart of the programme in which the DPR will be implemented. Some of the important activities to be included in this phase are:

a. Ridge Area Treatment: All activities required to restore the health of the catchment area by reducing the volume and velocity of surface run-off, including regeneration of vegetative cover in forest and common land, a forestation, staggered trenching, contour and graded bunding, bench terracing etc.

b. Drainage line treatment with a combination of vegetative and engineering structures, such as earthen checks, brushwood checks, gully plugs, loose boulder checks, gabion structures, underground dykes etc.

c. Development of water harvesting structures such as low-cost farm ponds, Common Guidelines for Watershed Development Projects 40 nalla bunds, check-dams, percolation tanks and ground water recharge through wells, bore wells and other measures.

d. Nursery raising for fodder, fuel, timber and horticultural species. As far as possible local species may be given priority.

e. Land Development including in-situ soil and moisture conservation and drainage management measures like field bunds, contour and graded bunds fortified with plantation, bench terracing in hilly terrain etc.

f. Crop demonstrations for popularizing new crops/varieties, water saving technologies such as drip irrigation or innovative management practices. As far as possible varieties based on the local germplasm may be promoted.

g. Pasture development, sericulture, bee keeping, back yard poultry, small ruminant, other livestocks and other micro-enterprises.

h. Veterinary services for livestock and other livestock improvement measures i. Fisheries development in village ponds/tanks, farm ponds etc.

j. Promotion and propagation of non-conventional energy saving devices, energy conservation measures, and bio fuel plantations etc.

III Consolidation and Withdrawal Phase:-

In this phase the resources augmented and economic plans developed in Phase II are made the foundation to create new nature-based, sustainable livelihoods and raise productivity levels. The main objectives under this phase are:

a. Consolidation and completion of various works.

b. Building the capacity of the community based organizations to carry out Common Guidelines for Watershed Development Projects 41 the new agenda items during post project period.

c. Sustainable management of (developed) natural resources and

d. Up-scaling of successful experiences regarding farm production systems / off-farm livelihoods.

15. AQUIFER & THEIR ROCKS TYPES

The Andaman–Nicobar archipelago that forms the western margin of the Andaman Sea is a sediment-dominated accretionary wedge (outer-arc island) associated with a convergent margin tectonic setting. The Andaman accretionary ridge consists of two stratigraphically and structurally distinct terranes juxtaposed and telescoped into a north–south-trending high-relief fold-

thrust belt formed along the obliquely subducting eastern margin of the Indo-Australian oceanic lithospheric plate. The geology and structure of the ridge reflect the complexity of the evolving tectonics and stratigraphy of an accretionary wedge. Pre-Cretaceous meta-sedimentary rocks, Upper Cretaceous ophiolites and Palaeogene–Neogene sedimentary formations indicate rapid, spatial and temporal changes in lithology, sedimentology, sedimentary and tectonic environments, and palaeogeographic setting. The detail information is given in the geological map of Andaman–Nicobar.

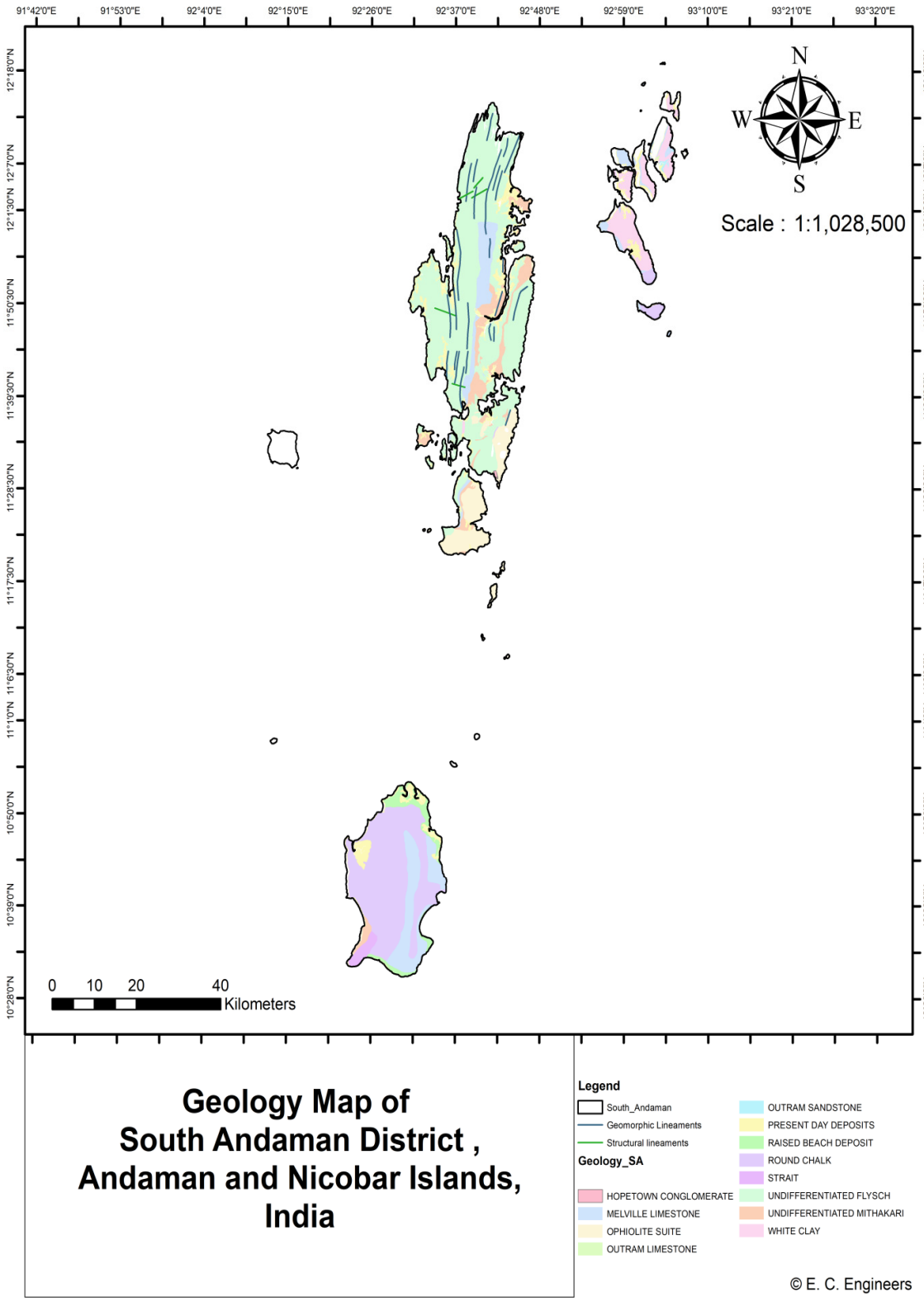


Fig:-9 Geology Map of South Andaman

16. INTEGRATED WATERSHED DEVELOPMENT PLAN

Integrated watershed management (IWM) is the process of managing human activities and natural resources on a watershed basis, taking into account social, economic and environmental issues, as well as local communityinterests and issues such as the impacts of growth and climate change.

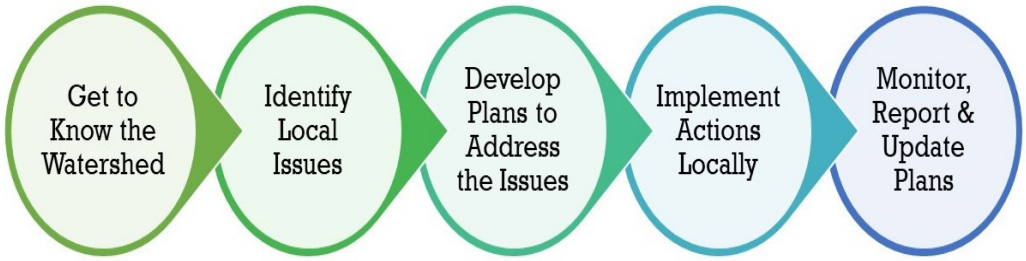
In 2019, a new Integrated Watershed Management Plan (IWMP) was released. It will guide efforts to maintain and enhance the watershed's natural heritage resources. The plan was approved by the NVCA's board of directors at their June 2019 meeting.

IWM allows conservation authorities and municipalities to sustainably manage our water resources in complex and sometimes uncertain environments. By taking an IWM approach, we can develop plans that support:

- improved water quality and quantity
- flood and erosion management
- biodiversity and resilient habitats
- sustainable economic and recreation opportunities
- improved quality of life and communities
- greater ability for the watershed to adapt to the impacts of climate change, urbanization and other stressors

IWM is put into action through an IWM Planning Process.

Integrated Watershed Management Planning Process:-



A. **Step One - Get to Know the Watershed:**

This first step in the IWM planning process involves collecting and analyzing large amounts of data about the watershed, including details on:

- water quality and quantity
- aquatic and terrestrial environments
- groundwater
- flood and erosion hazards
- economic and recreational land uses
- ecological assets
- climate and the effects of climate change

B. Step Two - Identify Watershed Issues, Opportunities and Constraints

In step two of the IWM planning processes identify the issues, opportunities and constraints facing the watershed. Working with municipalities, indigenous communities and sector stakeholders, with opportunity for input from interested members of the public, these issues may include:

- Climate change - including risks of increased extreme weather and flooding, unpredictable weather patterns, changing ecosystems, invasive species, etc.
- Land use changes - growth and development, use of resources, etc.
- Tourism and recreational uses of environmental features.

C. Step Three - Develop Strategies and Plan

In the final step of developing the IWM plan look to craft solutions or adaptive strategies to address watershed issues. Again, this will be done in concert with municipalities, indigenous communities and stakeholders, with input from the public.

Once it is drafted, the plan will be reviewed and considered for approval by the NVCA board of directors. Pending approval, the final plan will be circulated to municipalities, counties and others for incorporation into their planning decisions (steps four and five of the IWM planning process).

D. Step four-Implement actions locally

A path forward is critical to ensure the plan's goal is achieved. The recommended strategies represent the management priorities for maintaining and enhancing the watershed to protect the natural resources and provide resiliency to stressors such as climate change and urban growth. The Implementation Strategy will need to include direction on reporting and review required under the adaptive management approach. NVCA and its partners in this IWMP will need to ensure that there is strong communication among the implementers of the strategy and that each partner incorporates the imple-

mentation measures into their respective planning, funding and capital works programs.

Talking to other groups and gathering their input is an important part of the IWM planning process. Municipalities, counties and indigenous communities were invited to engage in the process. Key stakeholders from a variety of sectors including, but not limited to, agriculture, development, environment and business are being consulted throughout the process.

E. Step five-monitor, report & update plan

After the completion of all four steps, finally monitoring of all processes to identify, existing issues and deficiencies (if any) in implementation of the programmes will be done. If any deficiency occurs in above given for steps then we will update the plan.

17. ACTION PLAN PREPARATION

On the suitability of a location for artificial recharge depends on a variety of elements, including the climate, topography, soil, land use, and hydrogeologic conditions. While terrain determines the extent of run-off and retention, the climatic conditions mostly dictate the spatial and temporal availability of water for recharging. While the hydrogeologic parameters control the occurrence of potential aquifer systems and define whether they are suitable for artificial recharge, the prevailing soil and land use variables dictate the extent of infiltration.

Basis of rainfall, catchment area, geomorphology, drainage network, and LULC, Slope, and ASPECT Map, a development action plan for North & Middle Andaman created. Mini percolation tanks, percolation tanks, and Pakka check dams, micro irrigation tank, Anicut dams are suggested.

A. Percolation Tanks & mini tanks

One of the most popular runoffs harvesting structures in India is the percolation tank, which is based on concepts similar to those of nalah bunds. In order to make surface runoff percolate and refuel the ground water store, a percolation tank is defined as an artificially formed surface water body that submerges a highly permeable land region. Their greater reservoir areas set them apart from nalah bunds. For releasing water from the tank for irrigation or other uses, they

are not equipped with sluices or outlets. However, in order to prevent the tank bund from overflowing, they may be given provisions for disposing of any excess water that may enter the tank.

If there is sufficient surplus runoff available and the site conditions support artificial recharge through such structures, it is conceivable to have more than one percolation tank in a watershed. When this occurs, each tank in the group shares in the overall catchment's yield, which is referred to as

1. Combined catchment, which is the size of the entire catchment above the tank
2. Free catchment, which is the catchment area that only flows into the tank under consideration. The area of the catchment intercepted by the tanks located upstream of any tank is determined by the difference between the combined and free catchments. Each drainage's tallest tank's entire catchment area must be considered its free catchment. Additionally, each tank will get the entire runoff from its free catchment, but just the remaining runoff from the rest of its catchment after the upper tanks have been filled.

Mini percolation tanks are advised where rainwater from at least 10 hectares has accumulated, the rock type is sandstone, and the first order slope of the river is less than 5%. A tiny percolation tank is advised if there has been an accumulation of rainwater from at least 20 hectares, the geology is sandstone, and the river order has a 2nd order slope that is less than 5%.

B. Pakka Check dams

These structures are made across gullies, nalahs, or streams to slow down the flow of surface water in the stream channel and to hold onto water for longer periods of time on the surface of permeable soil or rock. Nalah bunds and check dams are built over larger streams and in places with softer slopes than gully plugs, which are often built across first-order streams.

These may be temporary constructions made of locally accessible materials such brush wood dams, loose/dry stone masonry check dams, gabion check dams, and woven wire dams, or permanent structures made of stones, brick, and cement. Permanent check dams should be designed, laid out, and built using expert civil

and agro-engineering techniques to provide correct storage and adequate outflow of excess water to prevent scours on the downstream side for long-term stability of the barrier.The location for the check dam has the right amount of permeable soils or weathered material to speed up the process of recharging the water that has been stored. These structures typically have a height of less than 2 metres and hold water that is primarily contained to the stream course. The surplus water is permitted to flow over the wall because these were planned depending on stream width. On the downstream side, water cushions are constructed to prevent scouring from excessive runoff. Such check dams can be built in a sequence to have recharge on a regional scale, allowing for the harnessing of the stream's maximum runoff.

A pakka check dam is advised if the accumulated river has a minimum 30 hectare with a third order river slope of less than 5%.

C. Micro Irrigation tank

Microirrigation system is effective in saving water and increasing water use efficiency as compared to the conventional surface irrigation method. Besides, it helps reduce water consumption, growth of unwanted plants (weeds), soil erosion and cost of cultivation.

Microirrigation can be adopted in all kinds of land, especially where it is not possible to effectively use flooding method for irrigation. In flooding method of irrigation, a field is flooded with water. This results in significant run-off, anaerobic conditions in the soil and around the root zone, and deep irrigation below the root zone, which does not supply sufficient water to the plants. It is, therefore, one of the most inefficient surface irrigation methods.

Microirrigation can be useful in undulating terrain, rolling topography, hilly areas, barren land and areas having shallow soils. According to depth, soil types can be classified as shallow (depth less than 22.5 cm), medium deep (22.5–45 cm) and deep soil (more than 45 cm).

Micro irrigation system can be broadly classified into two categories:

(1) Drip irrigation system

(2) Sprinkler irrigation system

However, there are distinct differences in the water flow rate, operating pressure requirement and measurement of the wetted area between drip and sprinkler ir-

rigation systems. Water flow rate means the amount of water discharged in an area at a particular time. It is expressed in litre/minute (lpm) or gallons/ minute (gpm). The system operating pressure must compensate for pressure losses through system components and field elevation effects.

D. Anicut dam

A dam is simply a barrier built across a river or any large water source. Its function is diverting water; to prevent flood or for irrigation and also to retain water for domestic use and power supply. Anicut is a dam built across a stream or river for maintaining and regulating irrigation.

The water stored behind an anicut can be used for irrigation of crops or drinking water for humans and livestock. They also are used to increase the residence of water to recharge groundwater, especially wells located downstream.

Total Suggested Structure

No	Structure name	River Order	Total no of structure
1	**Mini Percolation tank**	1 st	506
2	**Percolation tank**	2 nd	479
3	**Pakka check dam**	3 rd	313
4	**Anicut tank**	4 th	86
5	**Micro irrigation tank**	5 th	8

Details of the suggested structures:-

Str_id	Lat	Long	Struct_Typ	Stream_Orde
SN1	11.91884256810	92.61961701860	Mini percolation tank	1
SN2	11.87951069560	92.61382876850	Mini percolation tank	1
SN3	11.87739773390	92.61405243750	Mini percolation tank	1
SN4	11.91899101490	92.56993554070	Mini percolation tank	1
SN5	11.92095204920	92.54726677230	Mini percolation tank	1
SN6	11.91982408340	92.55340061310	Mini percolation tank	1
SN7	11.90071807470	92.55036662050	Percolation tank	2
SN8	11.91194821970	92.56701774160	Percolation tank	2
SN9	11.86563374550	92.53988844250	Mini percolation tank	1
SN10	11.86836883720	92.55367444490	Mini percolation tank	1
SN11	11.85669940040	92.59555977500	Mini percolation tank	1
SN12	11.84010273660	92.55748728440	Percolation tank	2
SN13	11.83720919040	92.59407409740	Mini percolation tank	1
SN14	11.85040385020	92.57111125590	Percolation tank	2
SN15	11.84331096270	92.56844781330	Mini percolation tank	1
SN16	11.84549148590	92.57132734130	Mini percolation tank	1
SN17	11.82918655950	92.58810906010	Mini percolation tank	1
SN18	11.82714550280	92.59085510380	Mini percolation tank	1
SN19	11.79677696690	92.59219613110	Percolation tank	2
SN20	11.81664377180	92.59643072900	Mini percolation tank	1
SN21	11.82688429850	92.59734051170	Mini percolation tank	1
SN22	11.82474819580	92.59365350290	Mini percolation tank	1
SN23	11.82126635090	92.60993354310	Mini percolation tank	1
SN24	11.84366837160	92.60862678350	Mini percolation tank	1
SN25	11.75742356770	92.56223914600	Percolation tank	2
SN26	11.76317193630	92.61325503860	Mini percolation tank	1
SN27	11.79445048710	92.60110966560	Mini percolation tank	1
SN28	11.82566817530	92.61405642850	Percolation tank	2
SN29	11.79634381500	92.62955290320	Mini percolation tank	1
SN30	11.89724029650	92.73795378970	Percolation tank	2
SN31	11.88313877640	92.74411241890	Mini percolation tank	1

SN32	11.88237295790	92.73883273350	Mini percolation tank	1
SN33	11.86320996660	92.74080230570	Percolation tank	2
SN34	11.86151227180	92.73983883660	Mini percolation tank	1
SN35	11.85559239320	92.74043633080	Mini percolation tank	1
SN36	11.84765846180	92.74079796930	Percolation tank	2
SN37	11.84806233710	92.73216215730	Percolation tank	2
SN38	11.84632207760	92.74070939310	Mini percolation tank	1
SN39	11.79766143950	92.71850682060	Mini percolation tank	1
SN40	11.80042374250	92.72850236120	Mini percolation tank	1
SN41	11.77203913080	92.67360127900	Mini percolation tank	1
SN42	11.77699561440	92.66645248780	Mini percolation tank	1
SN43	11.92773519370	92.71950019940	Mini percolation tank	1
SN44	11.92462304130	92.71028717050	Mini percolation tank	1
SN45	11.93875083860	92.69434489510	Pakka Check Dam	3
SN46	11.93142566400	92.69798803600	Pakka Check Dam	3
SN47	11.93307388200	92.70590933320	Pakka Check Dam	3
SN48	11.94740112280	92.69594895180	Mini percolation tank	1
SN49	11.94063214160	92.70338969640	Mini percolation tank	1
SN50	11.96522376120	92.68409475740	Pakka Check Dam	3
SN51	11.96916032210	92.67814605170	Pakka Check Dam	3
SN52	11.97555339620	92.67947507030	Pakka Check Dam	3
SN53	11.98126092530	92.67621689050	Pakka Check Dam	3
SN54	11.98999566230	92.67670715940	Pakka Check Dam	3
SN55	11.99452477340	92.67227131610	Pakka Check Dam	3
SN56	11.96540372800	92.67448043930	Pakka Check Dam	3
SN57	11.77038790660	92.68145283490	Percolation tank	2
SN58	11.76534401170	92.64742920060	Percolation tank	2
SN59	11.94713173070	92.64739893640	Percolation tank	2
SN60	11.83117945580	92.61562571040	Mini percolation tank	1
SN61	11.81238167570	92.64306434090	Mini percolation tank	1
SN62	11.80748105840	92.65757375360	Mini percolation tank	1
SN63	11.80771703590	92.68099819720	Mini percolation tank	1
SN64	11.83565103090	92.71202050570	Percolation tank	2
SN65	11.83075123020	92.70652239150	Percolation tank	2
SN66	11.82381848760	92.69233076410	Mini percolation tank	1

SN67	11.83271773710	92.67598270290	Mini percolation tank	1
SN68	11.85054983710	92.70116316750	Mini percolation tank	1
SN69	11.87445825970	92.68358698630	Mini percolation tank	1
SN70	11.87293160190	92.68067874440	Percolation tank	2
SN71	11.89245892930	92.70545453700	Mini percolation tank	1
SN72	11.83455933670	92.63865830930	Percolation tank	2
SN73	11.83774294590	92.65149211190	Mini percolation tank	1
SN74	11.86302608310	92.64443004620	Mini percolation tank	1
SN75	11.86891436710	92.65390499590	Mini percolation tank	1
SN76	11.86975982920	92.64699841180	Mini percolation tank	1
SN77	11.87737547220	92.66001975410	Mini percolation tank	1
SN78	11.86678614910	92.62387322180	Mini percolation tank	1
SN79	11.87145148320	92.63550418670	Percolation tank	2
SN80	11.92376883080	92.65914903060	Mini percolation tank	1
SN81	11.91294453540	92.67238793180	Mini percolation tank	1
SN82	11.88361267050	92.53753764550	Percolation tank	2
SN83	11.99102185430	92.63010440100	Percolation tank	2
SN84	11.98622795860	92.61622415040	Percolation tank	2
SN85	11.96785062100	92.61485046580	Mini percolation tank	1
SN86	11.94930307100	92.61709577840	Pakka Check Dam	3
SN87	11.94050537930	92.61610208870	Pakka Check Dam	3
SN88	11.93333801090	92.61495059530	Pakka Check Dam	3
SN89	11.92507730630	92.61395023020	Pakka Check Dam	3
SN90	11.92242217770	92.61705183250	Pakka Check Dam	3
SN91	11.93048300840	92.62003066540	Pakka Check Dam	3
SN92	11.93952644570	92.62079214090	Pakka Check Dam	3
SN93	11.99184327090	92.65038790640		0
SN94	11.99325044790	92.64240377360		0
SN95	11.98196656420	92.63588626850	Pakka Check Dam	3
SN96	11.99126130760	92.63876292060	Pakka Check Dam	3
SN97	11.98591500750	92.64118029410	Anicut	4
SN98	11.97963781390	92.64269824900	Anicut	4
SN99	11.97247769580	92.65136230480	Percolation tank	2
SN100	11.97220839220	92.63490137410	Percolation tank	2
SN101	11.95498285540	92.64563429490	Pakka Check Dam	3

SN102	11.96324819120	92.64542675510	Pakka Check Dam	3
SN103	11.97220344960	92.64502495340	Pakka Check Dam	3
SN104	11.96742885850	92.62609466850	Pakka Check Dam	3
SN105	11.95975276840	92.62766617130	Pakka Check Dam	3
SN106	11.95665627640	92.62950007200	Percolation tank	2
SN107	11.94832547360	92.62845412970	Anicut	4
SN108	11.93142814520	92.62952017440	Anicut	4
SN109	11.93547861310	92.63608967450	Pakka Check Dam	3
SN110	11.92679701270	92.63470036530	Pakka Check Dam	3
SN111	11.92193819270	92.62954911020	Pakka Check Dam	3
SN112	11.90455058410	92.63507366600	Pakka Check Dam	3
SN113	11.91126464460	92.64069808800	Percolation tank	2
SN114	11.90919279360	92.63654776330	Pakka Check Dam	3
SN115	11.92603178730	92.63835409140	Percolation tank	2
SN116	11.91022543600	92.63498872600	Pakka Check Dam	3
SN117	11.91310121410	92.63093217330	Anicut	4
SN118	11.91910490370	92.62595266670	Anicut	4
SN119	11.91054882930	92.62607626860	Pakka Check Dam	3
SN120	11.92122673990	92.65029398800	Pakka Check Dam	3
SN121	11.91322917050	92.65265579490	Pakka Check Dam	3
SN122	11.90577957900	92.65631738850	Pakka Check Dam	3
SN123	11.89718166390	92.65706668100	Pakka Check Dam	3
SN124	11.92713153940	92.65575817300	Mini percolation tank	1
SN125	11.91907594750	92.65749718640	Percolation tank	2
SN126	11.91075804500	92.65609243720	Percolation tank	2
SN127	11.91903698280	92.66605297690	Mini percolation tank	1
SN128	11.91790870980	92.66472243990	Percolation tank	2
SN129	11.91396743980	92.65965779990	Percolation tank	2
SN130	11.90598222100	92.65938368890	Percolation tank	2
SN131	11.88499510800	92.65906177890	Anicut	4
SN132	11.86678221140	92.65721396240	Anicut	4
SN133	11.88758258580	92.66112073970	Percolation tank	2
SN134	11.87880181790	92.66281093750	Percolation tank	2
SN135	11.90730415040	92.67092373910	Mini percolation tank	1
SN136	11.87648029020	92.67093161850	Anicut	4

SN137	11.85830962550	92.65619822300	Micro Irrigation Tank	5
SN138	11.91759664080	92.55568248410	Percolation tank	2
SN139	11.90489036280	92.54347694590	Pakka Check Dam	3
SN140	11.88466616950	92.54877955970	Pakka Check Dam	3
SN141	11.87847288060	92.53729201710	Micro Irrigation Tank	5
SN142	11.87124300660	92.54046679560	Pakka Check Dam	3
SN143	11.89496340060	92.57914172400	Anicut	4
SN144	11.89950574050	92.57663319280	Percolation tank	2
SN145	11.85812952230	92.55445227800	Percolation tank	2
SN146	11.84655856800	92.54628042110	Anicut	4
SN147	11.85012846190	92.55902225790	Percolation tank	2
SN148	11.84793023600	92.56033732650	Mini percolation tank	1
SN149	11.85020253730	92.55036846250	Pakka Check Dam	3
SN150	11.83301632760	92.55571139130	Mini percolation tank	1
SN151	11.81165814840	92.55640516040	Percolation tank	2
SN152	11.81676999130	92.55400478420	Pakka Check Dam	3
SN153	11.80994204440	92.56146536220	Mini percolation tank	1
SN154	11.80207640370	92.55886989720	Percolation tank	2
SN155	11.86142889620	92.57901448010	Pakka Check Dam	3
SN156	11.86496579360	92.58514837010	Pakka Check Dam	3
SN157	11.87674849680	92.58498777410	Anicut	4
SN158	11.82936860040	92.59097286290	Pakka Check Dam	3
SN159	11.83833778980	92.59113361960	Pakka Check Dam	3
SN160	11.84580631820	92.59082747670	Pakka Check Dam	3
SN161	11.85264740180	92.58707034850	Pakka Check Dam	3
SN162	11.84075379680	92.59843487620	Percolation tank	2
SN163	11.84475978090	92.59235368740	Percolation tank	2
SN164	11.81999547900	92.58061022050	Pakka Check Dam	3
SN165	11.82291230580	92.57472375840	Pakka Check Dam	3
SN166	11.82882785210	92.58031223910	Anicut	4
SN167	11.84290737430	92.58367380550	Anicut	4
SN168	11.85723408520	92.58472870510	Anicut	4
SN169	11.86853223850	92.59163791140	Anicut	4
SN170	11.83376860830	92.57512093520	Percolation tank	2
SN171	11.83912499790	92.58021739860	Percolation tank	2

SN172	11.84043514380	92.58215059380	Pakka Check Dam	3
SN173	11.84916562160	92.57846808160	Pakka Check Dam	3
SN174	11.79611620400	92.57461822350	Pakka Check Dam	3
SN175	11.78725038480	92.57440719790	Pakka Check Dam	3
SN176	11.76427828370	92.56677908890	Mini percolation tank	1
SN177	11.74539354450	92.57827140840	Pakka Check Dam	3
SN178	11.73039499550	92.57910345730	Pakka Check Dam	3
SN179	11.72146852340	92.58099539900	Pakka Check Dam	3
SN180	11.77100387240	92.57444468180	Pakka Check Dam	3
SN181	11.76498355680	92.57860033720	Pakka Check Dam	3
SN182	11.75899495690	92.57441364670	Percolation tank	2
SN183	11.75529965110	92.57679748630	Mini percolation tank	1
SN184	11.80779780780	92.58268453740	Percolation tank	2
SN185	11.79987462200	92.58595002920	Pakka Check Dam	3
SN186	11.79558939400	92.58446243520	Percolation tank	2
SN187	11.80096492240	92.59023206680	Percolation tank	2
SN188	11.80916623520	92.59215135470	Percolation tank	2
SN189	11.77776679980	92.59594379480	Percolation tank	2
SN190	11.78663545590	92.59766889270	Percolation tank	2
SN191	11.78189940080	92.60207821780	Percolation tank	2
SN192	11.80430937840	92.60277366240	Percolation tank	2
SN193	11.76330078460	92.60007391870	Pakka Check Dam	3
SN194	11.77055420860	92.60342439540	Pakka Check Dam	3
SN195	11.77905289880	92.60515333550	Pakka Check Dam	3
SN196	11.75825255870	92.59624065720	Percolation tank	2
SN197	11.75279177810	92.59723950070	Percolation tank	2
SN198	11.77757280910	92.61218010310	Percolation tank	2
SN199	11.78825372660	92.61363895730	Percolation tank	2
SN200	11.77199100590	92.61413216130	Pakka Check Dam	3
SN201	11.76425088380	92.61521282230	Pakka Check Dam	3
SN202	11.75562133180	92.61321580550	Pakka Check Dam	3
SN203	11.74655928340	92.61214461570	Pakka Check Dam	3
SN204	11.81012772910	92.61232435360	Pakka Check Dam	3
SN205	11.82272503480	92.61186275870	Anicut	4
SN206	11.82276845950	92.62093094160	Anicut	4

SN207	11.84893635270	92.61700582450	Anicut	4
SN208	11.78003093130	92.63519575590	Pakka Check Dam	3
SN209	11.78886133290	92.63518386860	Pakka Check Dam	3
SN210	11.79778818970	92.63577480770	Pakka Check Dam	3
SN211	11.80680102700	92.63616815830	Pakka Check Dam	3
SN212	11.82219529670	92.63365241870	Anicut	4
SN213	11.83925840130	92.63183697990	Anicut	4
SN214	11.85700782460	92.63237347120	Anicut	4
SN215	11.84426565260	92.62609018540	Percolation tank	2
SN216	11.87926960050	92.63516355090	Pakka Check Dam	3
SN217	11.88077193580	92.62912750960	Pakka Check Dam	3
SN218	11.87200225080	92.63008164220	Pakka Check Dam	3
SN219	11.88338438890	92.62208816750	Percolation tank	2
SN220	11.87433219580	92.62218614850	Percolation tank	2
SN221	11.87792129840	92.62372224750	Mini percolation tank	1
SN222	11.95697297850	92.66719590640	Anicut	4
SN223	11.97814899460	92.66306993120	Anicut	4
SN224	11.98322750640	92.65847103190	Anicut	4
SN225	11.95905086660	92.67095837550	Percolation tank	2
SN226	11.94208238570	92.66655171550	Pakka Check Dam	3
SN227	11.93982415620	92.68027278660	Mini percolation tank	1
SN228	11.94439618610	92.67142583230	Pakka Check Dam	3
SN229	11.93599734330	92.67031557900	Percolation tank	2
SN230	11.94366908250	92.66079156780	Pakka Check Dam	3
SN231	11.95477678970	92.66203653210	Pakka Check Dam	3
SN232	11.96330187510	92.66059783070	Pakka Check Dam	3
SN233	11.97764282960	92.68084906920	Percolation tank	2
SN234	11.99074014270	92.69337110390	Percolation tank	2
SN235	11.96385946660	92.69414482300	Percolation tank	2
SN236	11.97258840790	92.69288507150	Percolation tank	2
SN237	11.98499668540	92.68906775120	Pakka Check Dam	3
SN238	11.98803627640	92.68467691960	Pakka Check Dam	3
SN239	11.97927656880	92.68828634710	Mini percolation tank	1
SN240	11.98128355540	92.68569885700	Mini percolation tank	1
SN241	11.99550738550	92.67607566750		0

SN242	11.98283829360	92.67214546520	Percolation tank	2
SN243	11.99673696400	92.66940078900	Mini percolation tank	1
SN244	11.93842425560	92.69137992680	Percolation tank	2
SN245	11.93798550140	92.69119546700	Percolation tank	2
SN246	11.92674574300	92.68701990240	Percolation tank	2
SN247	11.91472187570	92.69506244540	Percolation tank	2
SN248	11.91732364160	92.68718794410	Percolation tank	2
SN249	11.98275198550	92.71551335260	Anicut	4
SN250	11.98410914430	92.70984962910	Pakka Check Dam	3
SN251	11.96867617160	92.71113405250	Pakka Check Dam	3
SN252	11.97305836870	92.70391193420	Percolation tank	2
SN253	11.94812545710	92.71019022090	Percolation tank	2
SN254	11.95418688300	92.71217946010	Percolation tank	2
SN255	11.95701688530	92.70531992390	Percolation tank	2
SN256	11.95426676900	92.69940984000	Percolation tank	2
SN257	11.92370966460	92.67234809390	Percolation tank	2
SN258	11.89644809140	92.68080509330	Percolation tank	2
SN259	11.89896877180	92.69123981470	Percolation tank	2
SN260	11.90204154550	92.69468046320	Anicut	4
SN261	11.91269924020	92.67810035280	Anicut	4
SN262	11.89056542760	92.70932912170	Percolation tank	2
SN263	11.89387356600	92.69815196280	Percolation tank	2
SN264	11.89719727810	92.70639651980	Percolation tank	2
SN265	11.90579177230	92.70522092690	Pakka Check Dam	3
SN266	11.90975448640	92.70171987830	Pakka Check Dam	3
SN267	11.91770269410	92.70137105270	Pakka Check Dam	3
SN268	11.92104483430	92.69448888210	Pakka Check Dam	3
SN269	11.87081099270	92.69370237790	Percolation tank	2
SN270	11.86241656150	92.67771793290	Pakka Check Dam	3
SN271	11.86488657030	92.68554079040	Pakka Check Dam	3
SN272	11.85863511790	92.69293308050	Pakka Check Dam	3
SN273	11.86436515650	92.69883440770	Anicut	4
SN274	11.87182948130	92.70494512510	Percolation tank	2
SN275	11.87372813490	92.70599508610	Percolation tank	2
SN276	11.85733539220	92.70681206150	Pakka Check Dam	3

SN277	11.86219426020	92.70791757050	Pakka Check Dam	3
SN278	11.83523783960	92.68850679320	Pakka Check Dam	3
SN279	11.83046876160	92.69524837000	Pakka Check Dam	3
SN280	11.83093472730	92.69821892400	Pakka Check Dam	3
SN281	11.82595129210	92.68454028160	Percolation tank	2
SN282	11.76239014470	92.65387919350	Pakka Check Dam	3
SN283	11.77134233400	92.65412818290	Pakka Check Dam	3
SN284	11.77870540370	92.65540538510	Pakka Check Dam	3
SN285	11.79922862150	92.66553455950	Micro Irrigation Tank	5
SN286	11.76022471470	92.66722580560	Percolation tank	2
SN287	11.75399595480	92.66250304550	Percolation tank	2
SN288	11.77485706760	92.66623903620	Micro Irrigation Tank	5
SN289	11.86273692610	92.65166345260	Percolation tank	2
SN290	11.89255341120	92.67264638310	Pakka Check Dam	3
SN291	11.94986339220	92.64626495510	Percolation tank	2
SN292	11.89015223320	92.63642594280	Percolation tank	2
SN293	11.86499435920	92.63624372630	Anicut	4
SN294	11.86884198700	92.61652637660	Micro Irrigation Tank	5
SN295	11.88802851550	92.71116730950	Percolation tank	2
SN296	11.84846159910	92.71005137010	Mini percolation tank	1
SN297	11.84262490700	92.71564392020	Percolation tank	2
SN298	11.84005726260	92.71180650460	Percolation tank	2
SN299	11.99326887110	92.71804240660	Pakka Check Dam	3
SN300	11.99198996580	92.69826522830	Percolation tank	2
SN301	11.77276465210	92.65008657510	Percolation tank	2
SN302	11.83611178140	92.66325057730	Pakka Check Dam	3
SN303	11.82210644530	92.67746965270	Percolation tank	2
SN304	11.88288031760	92.56903888190	Percolation tank	2
SN305	11.89062305930	92.57181655970	Percolation tank	2
SN306	11.85224727290	92.53967684700	Pakka Check Dam	3
SN307	11.83113197440	92.59924382390	Mini percolation tank	1
SN308	11.87489070660	92.73581882190	Mini percolation tank	1
SN309	11.86530918170	92.74145910610	Percolation tank	2
SN310	11.85189435010	92.74049760400	Mini percolation tank	1
SN311	11.82491713260	92.73192707680	Percolation tank	2

SN312	11.82181659390	92.72789645270	Percolation tank	2
SN313	11.81270699930	92.72743457860	Pakka Check Dam	3
SN314	11.80847604110	92.72253229770	Pakka Check Dam	3
SN315	11.81192330840	92.71330614490	Pakka Check Dam	3
SN316	11.80277053510	92.71256866700	Percolation tank	2
SN317	11.79658620560	92.74866992720	Pakka Check Dam	3
SN318	11.78268821970	92.74760022390	Anicut	4
SN319	11.79297693060	92.73044293090	Percolation tank	2
SN320	11.79173896950	92.71587919410	Pakka Check Dam	3
SN321	11.75490665110	92.71637639400	Percolation tank	2
SN322	11.78490365400	92.70445208840	Anicut	4
SN323	11.76695669830	92.71613429930	Pakka Check Dam	3
SN324	11.77703835380	92.69698621940	Percolation tank	2
SN325	11.84044562500	92.73670116840	Mini percolation tank	1
SN326	11.76686381170	92.68145963710	Anicut	4
SN327	11.77416072180	92.67888199390	Anicut	4
SN328	11.78014105790	92.69273320930	Percolation tank	2
SN329	11.76657101610	92.69580457170	Pakka Check Dam	3
SN330	11.76225499590	92.69954152100	Percolation tank	2
SN331	11.80287220990	92.69534162080	Percolation tank	2
SN332	11.80113487650	92.69307324640	Pakka Check Dam	3
SN333	11.90196842040	92.71907219190	Percolation tank	2
SN334	11.90837359970	92.71447051890	Percolation tank	2
SN335	11.91701323770	92.71370691050	Percolation tank	2
SN336	11.75741808520	92.71686289460	Pakka Check Dam	3
SN337	11.75707777120	92.71007596550	Pakka Check Dam	3
SN338	11.82765693780	92.56072542740	Mini percolation tank	1
SN339	11.76015923710	92.59037660980	Anicut	4
SN340	11.77591904330	92.58786284300	Anicut	4
SN341	11.78186383880	92.56805189780	Anicut	4
SN342	11.77387593740	92.56652577940	Anicut	4
SN343	11.79797146250	92.59836622480	Mini percolation tank	1
SN344	11.78175072490	92.62152833600	Pakka Check Dam	3
SN345	11.77299217870	92.62348774390	Pakka Check Dam	3
SN346	11.76429897850	92.62445948320	Pakka Check Dam	3

SN347	11.75657214210	92.62646861980	Pakka Check Dam	3
SN348	11.75161779080	92.62061677670	Pakka Check Dam	3
SN349	11.77738091230	92.62598709520	Percolation tank	2
SN350	11.76343786370	92.63511463290	Percolation tank	2
SN351	11.73926115500	92.55948013330	Percolation tank	2
SN352	11.73732691640	92.56282530470	Mini percolation tank	1
SN353	11.74081300210	92.56662035200	Mini percolation tank	1
SN354	11.74700233410	92.56589040140	Mini percolation tank	1
SN355	11.72433201940	92.55843463010	Mini percolation tank	1
SN356	11.71616186610	92.56595841820	Mini percolation tank	1
SN357	11.73935469040	92.57022151130	Percolation tank	2
SN358	11.74748942070	92.57766113900	Percolation tank	2
SN359	11.52757948890	92.65466019260	Mini percolation tank	1
SN360	11.53573368850	92.67300069980	Mini percolation tank	1
SN361	11.56091182410	92.66293896930	Mini percolation tank	1
SN362	11.56652195350	92.70873977540	Pakka Check Dam	3
SN363	11.57346179970	92.71005996690	Mini percolation tank	1
SN364	11.61012724460	92.71823020480	Mini percolation tank	1
SN365	11.58354439030	92.66783874540	Mini percolation tank	1
SN366	11.74309371060	92.75564861480	Mini percolation tank	1
SN367	11.73234163040	92.73845565730	Mini percolation tank	1
SN368	11.71863799740	92.74134469980	Percolation tank	2
SN369	11.70502336590	92.73288128010	Mini percolation tank	1
SN370	11.72490176970	92.73999393860	Mini percolation tank	1
SN371	11.72978537560	92.73891172040	Mini percolation tank	1
SN372	11.74468835980	92.60320222370	Percolation tank	2
SN373	11.73246971470	92.60165830920	Percolation tank	2
SN374	11.74370217970	92.61023593750	Mini percolation tank	1
SN375	11.70832077390	92.59817490740	Mini percolation tank	1
SN376	11.70435038520	92.60547209660	Mini percolation tank	1
SN377	11.70288404370	92.62867600500	Mini percolation tank	1
SN378	11.70390157450	92.62393544460	Mini percolation tank	1
SN379	11.72466857750	92.64129722560	Mini percolation tank	1
SN380	11.69567656980	92.63249490330	Mini percolation tank	1
SN381	11.67861177360	92.68949757880	Percolation tank	2

SN382	11.69093898670	92.65647315900	Mini percolation tank	1
SN383	11.68422051570	92.65562054510	Percolation tank	2
SN384	11.66842156530	92.65801354780	Mini percolation tank	1
SN385	11.64480979160	92.62001284840	Pakka Check Dam	3
SN386	11.65367870260	92.61927443790	Pakka Check Dam	3
SN387	11.64958288390	92.62534157180	Mini percolation tank	1
SN388	11.65272695890	92.62489581190	Percolation tank	2
SN389	11.66260154460	92.62393540850	Mini percolation tank	1
SN390	11.66421671890	92.64281365400	Mini percolation tank	1
SN391	11.66001304660	92.64431346680	Pakka Check Dam	3
SN392	11.58771050180	92.62599532160	Mini percolation tank	1
SN393	11.58397530190	92.54894515070	Percolation tank	2
SN394	11.58297752380	92.55655485040	Mini percolation tank	1
SN395	11.74710397400	92.68651369590	Mini percolation tank	1
SN396	11.74155782150	92.68036706620	Percolation tank	2
SN397	11.74636552240	92.67505092600	Percolation tank	2
SN398	11.73162634490	92.68060277120	Pakka Check Dam	3
SN399	11.73324153110	92.66491665540	Pakka Check Dam	3
SN400	11.73814653330	92.66101871120	Pakka Check Dam	3
SN401	11.73150779020	92.69280341710	Pakka Check Dam	3
SN402	11.74711979560	92.71134669880	Mini percolation tank	1
SN403	11.74490412750	92.71796038170	Percolation tank	2
SN404	11.74202358810	92.71930983950	Mini percolation tank	1
SN405	11.72322788050	92.72275077400	Mini percolation tank	1
SN406	11.71264007250	92.65890333580	Mini percolation tank	1
SN407	11.70013581110	92.66493366920	Mini percolation tank	1
SN408	11.68466376710	92.67448983200	Percolation tank	2
SN409	11.72116768370	92.55657829840	Pakka Check Dam	3
SN410	11.72728952470	92.55472156760	Percolation tank	2
SN411	11.72392160200	92.57371965650	Percolation tank	2
SN412	11.74594779820	92.62934177340	Percolation tank	2
SN413	11.71761947450	92.60212835850	Anicut	4
SN414	11.72985570740	92.60773024650	Anicut	4
SN415	11.73560284760	92.61683194990	Anicut	4
SN416	11.71925655240	92.62129570810	Pakka Check Dam	3

SN417	11.72438932170	92.62380312130	Pakka Check Dam	3
SN418	11.71142089440	92.62158483970	Percolation tank	2
SN419	11.71509081100	92.62814833410	Percolation tank	2
SN420	11.73295619280	92.64743874260	Pakka Check Dam	3
SN421	11.69058525170	92.61820074790	Pakka Check Dam	3
SN422	11.69914302180	92.61823001680	Pakka Check Dam	3
SN423	11.72902854820	92.74220403310	Pakka Check Dam	3
SN424	11.72156772570	92.74730008390	Pakka Check Dam	3
SN425	11.68176515650	92.61363815880	Percolation tank	2
SN426	11.67869561730	92.60602806080	Percolation tank	2
SN427	11.69102407630	92.60200094100	Mini percolation tank	1
SN428	11.74710845320	92.63720683650	Pakka Check Dam	3
SN429	11.73842083750	92.63755669320	Pakka Check Dam	3
SN430	11.72940297900	92.63653438220	Pakka Check Dam	3
SN431	11.72041999170	92.63526268610	Pakka Check Dam	3
SN432	11.71150022790	92.63594113610	Pakka Check Dam	3
SN433	11.68187285270	92.62615832450	Anicut	4
SN434	11.70260177150	92.60941162820	Anicut	4
SN435	11.66766603630	92.60518995760	Mini percolation tank	1
SN436	11.65517795650	92.61009276390	Percolation tank	2
SN437	11.64803604720	92.61045757790	Percolation tank	2
SN438	11.67573879260	92.66089757080	Pakka Check Dam	3
SN439	11.66593608040	92.66721576450	Pakka Check Dam	3
SN440	11.67289263750	92.66800317270	Percolation tank	2
SN441	11.68081258360	92.64952218760	Percolation tank	2
SN442	11.55425321450	92.66509257380	Anicut	4
SN443	11.51570581230	92.67204922030	Anicut	4
SN444	11.51887263640	92.68582419650	Percolation tank	2
SN445	11.51885951710	92.70444909320	Pakka Check Dam	3
SN446	11.51511565070	92.69809781060	Pakka Check Dam	3
SN447	11.52558288600	92.69519008320	Percolation tank	2
SN448	11.52659369810	92.71710592140	Pakka Check Dam	3
SN449	11.54750973860	92.71273133360	Pakka Check Dam	3
SN450	11.54816538600	92.71790962020	Pakka Check Dam	3
SN451	11.56232646310	92.71926344920	Anicut	4

SN452	11.56719343260	92.71470293980	Pakka Check Dam	3
SN453	11.58673493130	92.69342133170	Percolation tank	2
SN454	11.57085087090	92.72634967310	Percolation tank	2
SN455	11.58477725210	92.54278239990	Percolation tank	2
SN456	11.58391599890	92.54542894600	Percolation tank	2
SN457	11.56691826290	92.54325963560	Percolation tank	2
SN458	11.26691578170	92.70125617740		0
SN459	11.37226182740	92.60208029570	Mini percolation tank	1
SN460	11.37397891090	92.60965548870	Percolation tank	2
SN461	11.37470253530	92.60016411100	Mini percolation tank	1
SN462	11.38227707440	92.63325727220	Percolation tank	2
SN463	11.38428060460	92.62632169850	Mini percolation tank	1
SN464	11.37034112300	92.62601322130	Mini percolation tank	1
SN465	11.35775374910	92.62856673120	Percolation tank	2
SN466	11.35886320280	92.62104266270	Pakka Check Dam	3
SN467	11.36276639520	92.61669982830	Pakka Check Dam	3
SN468	11.36580494930	92.60679810530	Percolation tank	2
SN469	11.36700440170	92.62350864450	Mini percolation tank	1
SN470	11.35295694350	92.61374446790	Mini percolation tank	1
SN471	11.35473809620	92.59937287440	Percolation tank	2
SN472	11.35891861750	92.59582862260	Percolation tank	2
SN473	11.35994472720	92.59289384490	Mini percolation tank	1
SN474	11.36537545920	92.59281761010	Percolation tank	2
SN475	11.38683707430	92.60420640960	Percolation tank	2
SN476	11.39128841890	92.60960768510	Percolation tank	2
SN477	11.39496928830	92.61717711830	Percolation tank	2
SN478	11.39485512780	92.59514426220	Mini percolation tank	1
SN479	11.40233839090	92.62936038510	Percolation tank	2
SN480	11.39172554230	92.63224352010	Mini percolation tank	1
SN481	11.35891386460	92.65420066070	Mini percolation tank	1
SN482	11.36672044300	92.65201432000	Percolation tank	2
SN483	11.36809479720	92.64837313580	Mini percolation tank	1
SN484	11.37138677040	92.64482233300	Pakka Check Dam	3
SN485	11.37255215820	92.64245669810	Pakka Check Dam	3
SN486	11.38676099480	92.65336082110	Mini percolation tank	1

SN487	11.40136560210	92.64588379440	Pakka Check Dam	3
SN488	11.39123318530	92.64153228130	Percolation tank	2
SN489	11.39468985040	92.65911684840	Mini percolation tank	1
SN490	11.38899761420	92.66696041500	Percolation tank	2
SN491	11.36705982000	92.66704340740	Pakka Check Dam	3
SN492	11.36865338880	92.66429907180	Percolation tank	2
SN493	11.42862947700	92.63174135780	Pakka Check Dam	3
SN494	11.43145651260	92.63849961700	Mini percolation tank	1
SN495	11.43538298720	92.63717947760	Mini percolation tank	1
SN496	11.44506027590	92.63896154010	Percolation tank	2
SN497	11.44568755590	92.63209322780	Pakka Check Dam	3
SN498	11.45522993180	92.62000445120	Percolation tank	2
SN499	11.45998801820	92.62494082930	Mini percolation tank	1
SN500	11.46297852340	92.63299732530	Mini percolation tank	1
SN501	11.46164045940	92.61775749060	Mini percolation tank	1
SN502	11.46811850160	92.61865832100	Pakka Check Dam	3
SN503	11.46390891300	92.62569419350	Pakka Check Dam	3
SN504	11.46776295480	92.62619985160	Mini percolation tank	1
SN505	11.47270608750	92.62967138090	Mini percolation tank	1
SN506	11.48023571560	92.62847994890	Mini percolation tank	1
SN507	11.44449356860	92.66100982970	Mini percolation tank	1
SN508	11.44983928390	92.67333702200	Pakka Check Dam	3
SN509	11.45874568790	92.67403187390	Pakka Check Dam	3
SN510	11.46408344470	92.65808299130	Pakka Check Dam	3
SN511	11.46848266070	92.66070918340	Pakka Check Dam	3
SN512	11.47460642250	92.66578965220	Pakka Check Dam	3
SN513	11.45563180860	92.64911295150	Percolation tank	2
SN514	11.45406580990	92.66011068130	Mini percolation tank	1
SN515	11.46677229040	92.65361275360	Percolation tank	2
SN516	11.46687074350	92.66333374860	Mini percolation tank	1
SN517	11.48667022690	92.62921123310	Percolation tank	2
SN518	11.48497406210	92.63761013050	Percolation tank	2
SN519	11.49449604930	92.62757390950	Percolation tank	2
SN520	11.49780612470	92.63805198490	Mini percolation tank	1
SN521	11.49342109780	92.64584259530	Mini percolation tank	1

SN522	11.48533944540	92.64640670060	Percolation tank	2
SN523	11.47114250860	92.64594618110	Mini percolation tank	1
SN524	11.48263065600	92.65956007020	Mini percolation tank	1
SN525	11.44069600330	92.68045419520	Mini percolation tank	1
SN526	11.42894755940	92.66240516850	Percolation tank	2
SN527	11.42631425470	92.64966280870	Percolation tank	2
SN528	11.41707078560	92.64364090000	Mini percolation tank	1
SN529	11.41549425030	92.63610703440	Mini percolation tank	1
SN530	11.42903786830	92.64752296310	Mini percolation tank	1
SN531	11.41087569610	92.63979319080	Pakka Check Dam	3
SN532	11.40287287080	92.63662030200	Pakka Check Dam	3
SN533	11.35924325690	92.63830285920	Pakka Check Dam	3
SN534	11.36591199890	92.63349344320	Pakka Check Dam	3
SN535	11.37415799290	92.63163461070	Pakka Check Dam	3
SN536	11.38001759040	92.62609322280	Pakka Check Dam	3
SN537	11.37783007930	92.61807875150	Pakka Check Dam	3
SN538	11.36835228340	92.64205885860	Mini percolation tank	1
SN539	11.44032625190	92.64123665760	Percolation tank	2
SN540	11.43950743870	92.65021291520	Percolation tank	2
SN541	11.44924371650	92.62403127630	Percolation tank	2
SN542	11.48283126140	92.62662286740	Percolation tank	2
SN543	11.48630607500	92.64081607690	Mini percolation tank	1
SN544	11.48020544800	92.65500367330	Pakka Check Dam	3
SN545	11.44143941030	92.66833007740	Percolation tank	2
SN546	11.76097002050	92.75492796820	Anicut	4
SN547	11.76812931010	92.75775849260	Pakka Check Dam	3
SN548	11.78183119280	92.75704436340	Anicut	4
SN549	11.83352507870	92.75695394800	Percolation tank	2
SN550	11.83232860170	92.76065929890	Pakka Check Dam	3
SN551	11.82611914480	92.76836210780	Percolation tank	2
SN552	11.81832157540	92.76481158700	Pakka Check Dam	3
SN553	11.81825801190	92.75632752770	Pakka Check Dam	3
SN554	11.80914614390	92.76279771430	Percolation tank	2
SN555	11.79961461000	92.76146464020	Anicut	4
SN556	11.80028438410	92.75454184300	Anicut	4

SN557	11.80296729920	92.75572528940	Mini percolation tank	1
SN558	11.78740689940	92.76466604630	Mini percolation tank	1
SN559	11.85235723600	92.77214124000	Anicut	4
SN560	11.85839202320	92.76626232770	Mini percolation tank	1
SN561	11.85609386650	92.77409031740	Percolation tank	2
SN562	11.86701345160	92.77687926880	Percolation tank	2
SN563	11.86420755420	92.76829573970	Percolation tank	2
SN564	11.87026065790	92.77572927440	Percolation tank	2
SN565	11.89488089890	92.76536938040	Pakka Check Dam	3
SN566	11.88865559470	92.76108206670	Pakka Check Dam	3
SN567	11.88515273290	92.75360995930	Pakka Check Dam	3
SN568	11.87747400260	92.75038450880	Pakka Check Dam	3
SN569	11.87425789540	92.75684199070	Mini percolation tank	1
SN570	11.87924683900	92.75506512360	Percolation tank	2
SN571	11.88595786730	92.76549460220	Percolation tank	2
SN572	11.89941495790	92.75883039060	Percolation tank	2
SN573	11.91581347700	92.75654693830	Pakka Check Dam	3
SN574	11.91790636650	92.75110170500	Pakka Check Dam	3
SN575	11.92231706850	92.74525335110	Pakka Check Dam	3
SN576	11.90949127880	92.77484889700	Percolation tank	2
SN577	11.91323986330	92.78186239190	Mini percolation tank	1
SN578	11.91158507300	92.77516838320	Mini percolation tank	1
SN579	11.91940315270	92.77828910420	Percolation tank	2
SN580	11.92735815980	92.77509451670	Percolation tank	2
SN581	11.92531844560	92.75311755570	Mini percolation tank	1
SN582	11.92736110450	92.76209969770	Percolation tank	2
SN583	12.12526008400	92.97449355050	Percolation tank	2
SN584	12.13227490810	92.97001436960	Percolation tank	2
SN585	12.09433706250	92.97368574470	Percolation tank	2
SN586	12.09599758170	92.99696431560	Pakka Check Dam	3
SN587	12.08193759480	92.99422116060	Percolation tank	2
SN588	12.07811988810	92.99279262380	Pakka Check Dam	3
SN589	12.06855341060	92.98144198840	Pakka Check Dam	3
SN590	12.07430931850	92.97324077660	Pakka Check Dam	3
SN591	12.07176607720	92.97237441290	Mini percolation tank	1

SN592	12.14107816930	92.97581611060	Pakka Check Dam	3
SN593	12.13859266800	93.01586436810	Percolation tank	2
SN594	12.13255567510	93.01544521680	Mini percolation tank	1
SN595	12.12621412660	93.01579884780	Mini percolation tank	1
SN596	12.12363263410	93.01687013130	Mini percolation tank	1
SN597	12.12178620580	93.02241857550	Pakka Check Dam	3
SN598	12.09934532510	93.02541241440	Pakka Check Dam	3
SN599	12.13004378600	93.01075032990	Percolation tank	2
SN600	12.08434712580	93.01866664190	Mini percolation tank	1
SN601	12.08604848070	93.01721714800	Mini percolation tank	1
SN602	12.06634323250	93.04269784140	Mini percolation tank	1
SN603	12.06570230590	93.04552403910	Mini percolation tank	1
SN604	12.07435638780	93.03529721810	Mini percolation tank	1
SN605	12.08367836340	93.03113435770	Percolation tank	2
SN606	12.07890573760	93.03056688050	Mini percolation tank	1
SN607	12.09618240200	93.07971313500	Percolation tank	2
SN608	12.10835348950	93.08728661850	Percolation tank	2
SN609	12.11670165380	93.05941994380	Percolation tank	2
SN610	12.11232204550	93.06750416220	Mini percolation tank	1
SN611	12.12002437460	93.07099669880	Mini percolation tank	1
SN612	12.13372624040	93.06638616710	Mini percolation tank	1
SN613	12.14634594090	93.05197666330	Percolation tank	2
SN614	12.13844606110	93.04756017770	Percolation tank	2
SN615	12.13177546280	93.05269510600	Pakka Check Dam	3
SN616	12.14249400300	93.05373371200	Mini percolation tank	1
SN617	12.14805519120	93.07770990210	Pakka Check Dam	3
SN618	12.15284514020	93.06898559200	Percolation tank	2
SN619	12.14734452960	93.07036537380	Percolation tank	2
SN620	12.17977940110	93.07768568270	Pakka Check Dam	3
SN621	12.17752796920	93.07022006400	Pakka Check Dam	3
SN622	12.16966350280	93.05924545060	Percolation tank	2
SN623	12.17341538050	93.06618788900	Percolation tank	2
SN624	12.16758430470	93.06442352750	Mini percolation tank	1
SN625	12.17577489060	93.07359517430	Mini percolation tank	1
SN626	12.17247139940	93.07925049210	Percolation tank	2

SN627	12.18181447890	93.06144205910	Mini percolation tank	1
SN628	12.18930214770	93.06647120420	Mini percolation tank	1
SN629	12.18835605900	93.06114449830	Mini percolation tank	1
SN630	12.15520886450	93.06457983800	Mini percolation tank	1
SN631	11.83331222200	93.06225637850	Percolation tank	2
SN632	10.86232165720	92.51676902960	Percolation tank	2
SN633	10.86036928860	92.50921917750	Percolation tank	2
SN634	10.85582445730	92.49376002890	Percolation tank	2
SN635	10.84480160320	92.49358407570	Mini percolation tank	1
SN636	10.85187113710	92.49195635990	Percolation tank	2
SN637	10.82844447670	92.47544977310	Pakka Check Dam	3
SN638	10.83709911080	92.47578353020	Pakka Check Dam	3
SN639	10.82853364880	92.48571294630	Percolation tank	2
SN640	10.83623389990	92.48541536220	Percolation tank	2
SN641	10.84456362020	92.48310078550	Percolation tank	2
SN642	10.84378384210	92.47282862210	Percolation tank	2
SN643	10.77125463160	92.48198505510	Mini percolation tank	1
SN644	10.78738331750	92.48729959210	Mini percolation tank	1
SN645	10.79551318710	92.48330441330	Mini percolation tank	1
SN646	10.78375530040	92.47092641130	Mini percolation tank	1
SN647	10.79229674410	92.47317483250	Mini percolation tank	1
SN648	10.79320309210	92.47725730500	Mini percolation tank	1
SN649	10.79026209460	92.48188374130	Mini percolation tank	1
SN650	10.80628291810	92.47899871190	Percolation tank	2
SN651	10.81363244610	92.47393174530	Percolation tank	2
SN652	10.83433731470	92.47219146760	Mini percolation tank	1
SN653	10.81741828450	92.48444901120	Percolation tank	2
SN654	10.74622283640	92.48564337090	Mini percolation tank	1
SN655	10.75399602520	92.48765273990	Mini percolation tank	1
SN656	10.75543640220	92.48820935610	Percolation tank	2
SN657	10.76360002150	92.49094885200	Percolation tank	2
SN658	10.77079003940	92.49309130390	Percolation tank	2
SN659	10.77969088310	92.49221319270	Percolation tank	2
SN660	10.76119969440	92.49196688000	Mini percolation tank	1
SN661	10.77805896270	92.50289816900	Pakka Check Dam	3

SN662	10.78187012200	92.49475072330	Pakka Check Dam	3
SN663	10.81664985750	92.49813223050	Pakka Check Dam	3
SN664	10.80914945950	92.49436351200	Pakka Check Dam	3
SN665	10.80157589570	92.49288020130	Pakka Check Dam	3
SN666	10.79358223920	92.49224833680	Pakka Check Dam	3
SN667	10.78493619000	92.49289186850	Pakka Check Dam	3
SN668	10.78852934480	92.49480463130	Percolation tank	2
SN669	10.80502196110	92.50358315360	Mini percolation tank	1
SN670	10.80439270060	92.49875774010	Percolation tank	2
SN671	10.76164758340	92.45998872220	Percolation tank	2
SN672	10.76760846290	92.47271648850	Percolation tank	2
SN673	10.78378146280	92.46554630170	Percolation tank	2
SN674	10.79742458360	92.45786840190	Percolation tank	2
SN675	10.75652687070	92.46192613080	Mini percolation tank	1
SN676	10.75971159980	92.46513933240	Mini percolation tank	1
SN677	10.75080780270	92.46640258830	Mini percolation tank	1
SN678	10.75825737320	92.46989899960	Mini percolation tank	1
SN679	10.75842571890	92.47287205880	Mini percolation tank	1
SN680	10.76310740090	92.47819543440	Mini percolation tank	1
SN681	10.77381031300	92.46814318480	Mini percolation tank	1
SN682	10.79574236430	92.45466556100	Pakka Check Dam	3
SN683	10.78423854840	92.45098485010	Pakka Check Dam	3
SN684	10.80906700560	92.45313568010	Pakka Check Dam	3
SN685	10.82624277670	92.45542794940	Pakka Check Dam	3
SN686	10.77274117560	92.44949652240	Mini percolation tank	1
SN687	10.77300665550	92.45251025480	Mini percolation tank	1
SN688	10.80460142580	92.45952460020	Percolation tank	2
SN689	10.80371028850	92.46337334040	Mini percolation tank	1
SN690	10.82326815410	92.44212706450	Mini percolation tank	1
SN691	10.80577525030	92.42736159060	Pakka Check Dam	3
SN692	10.77352932160	92.42073827920	Anicut	4
SN693	10.76737383920	92.42466628720	Anicut	4
SN694	10.77633342700	92.42847567760	Percolation tank	2
SN695	10.78460457230	92.43434375720	Percolation tank	2
SN696	10.78009041850	92.42039786740	Mini percolation tank	1

SN697	10.77494307660	92.41653004810	Mini percolation tank	1
SN698	10.75318055560	92.43785845980	Mini percolation tank	1
SN699	10.76759453700	92.43013682280	Percolation tank	2
SN700	10.77291629040	92.42675658480	Mini percolation tank	1
SN701	10.75043061420	92.44221329640	Mini percolation tank	1
SN702	10.76126186280	92.41450095240	Mini percolation tank	1
SN703	10.75763893660	92.41649695040	Mini percolation tank	1
SN704	10.74917730500	92.39563586380	Pakka Check Dam	3
SN705	10.74283862640	92.39872201430	Pakka Check Dam	3
SN706	10.73871150300	92.40642375160	Pakka Check Dam	3
SN707	10.73072257260	92.41020620330	Pakka Check Dam	3
SN708	10.74336767390	92.43836591360	Percolation tank	2
SN709	10.68425787920	92.43001080530	Percolation tank	2
SN710	10.68631120550	92.43116838300	Mini percolation tank	1
SN711	10.69972464840	92.43370475730	Anicut	4
SN712	10.68942379210	92.43995536530	Anicut	4
SN713	10.67621799670	92.44063741960	Anicut	4
SN714	10.66280448040	92.44290056170	Anicut	4
SN715	10.65065010850	92.44137331430	Anicut	4
SN716	10.63750703210	92.44262561710	Pakka Check Dam	3
SN717	10.64430293340	92.43841395790	Pakka Check Dam	3
SN718	10.62890285300	92.44278897240	Percolation tank	2
SN719	10.64643920040	92.44585649690	Percolation tank	2
SN720	10.65696021620	92.45646523600	Mini percolation tank	1
SN721	10.66432975460	92.45342052860	Mini percolation tank	1
SN722	10.66863651630	92.43479095320	Mini percolation tank	1
SN723	10.68012716060	92.44209371300	Percolation tank	2
SN724	10.70470248210	92.42453636290	Pakka Check Dam	3
SN725	10.69973451260	92.41787400300	Pakka Check Dam	3
SN726	10.69274943710	92.41568740310	Pakka Check Dam	3
SN727	10.68426193200	92.41568491380	Pakka Check Dam	3
SN728	10.67576691490	92.41755806440	Pakka Check Dam	3
SN729	10.70295428110	92.42533429410	Mini percolation tank	1
SN730	10.72026115540	92.42856234760	Percolation tank	2
SN731	10.71440616750	92.42323962010	Percolation tank	2

SN732	10.71330263750	92.43779790720	Percolation tank	2
SN733	10.70901050630	92.46814928630	Mini percolation tank	1
SN734	10.70637981820	92.45703238390	Pakka Check Dam	3
SN735	10.73919436030	92.45703675080	Percolation tank	2
SN736	10.73837195000	92.44960330420	Percolation tank	2
SN737	10.73024221550	92.45141669110	Percolation tank	2
SN738	10.72552593290	92.45119188240	Pakka Check Dam	3
SN739	10.72966551330	92.45878526200	Percolation tank	2
SN740	10.71748965250	92.46013025410	Mini percolation tank	1
SN741	10.73319809570	92.43570490950	Mini percolation tank	1
SN742	10.74558906890	92.42875965710	Percolation tank	2
SN743	10.75048246950	92.42284010960	Percolation tank	2
SN744	10.74528614880	92.41917650320	Percolation tank	2
SN745	10.73874587090	92.42351514680	Mini percolation tank	1
SN746	10.71912039270	92.40983483890	Percolation tank	2
SN747	10.72207196550	92.40685833290	Percolation tank	2
SN748	10.72642024270	92.40294026810	Mini percolation tank	1
SN749	10.72712374770	92.39318365630	Mini percolation tank	1
SN750	10.73013751930	92.40281793580	Percolation tank	2
SN751	10.73383999000	92.40093958970	Percolation tank	2
SN752	10.73782420710	92.49724257700	Percolation tank	2
SN753	10.72820922590	92.47742896600	Mini percolation tank	1
SN754	10.72558904920	92.48046578570	Mini percolation tank	1
SN755	10.71476623790	92.49452001500	Pakka Check Dam	3
SN756	10.71184738620	92.48622705620	Pakka Check Dam	3
SN757	10.73269423190	92.50163142340	Pakka Check Dam	3
SN758	10.72303407880	92.49412573410	Mini percolation tank	1
SN759	10.68304472160	92.45365244800	Mini percolation tank	1
SN760	10.69343048830	92.45340397170	Pakka Check Dam	3
SN761	10.69864517490	92.45315621530	Pakka Check Dam	3
SN762	10.70611166180	92.44932532040	Pakka Check Dam	3
SN763	10.69583461780	92.49095817370	Percolation tank	2
SN764	10.69571580460	92.49341534290	Pakka Check Dam	3
SN765	10.69981960390	92.49957266260	Pakka Check Dam	3
SN766	10.70832878340	92.50123076450	Pakka Check Dam	3

SN767	10.69609394870	92.47908070160	Mini percolation tank	1
SN768	10.68744597590	92.48148773280	Pakka Check Dam	3
SN769	10.67774154870	92.47221774440	Pakka Check Dam	3
SN770	10.55708996060	92.46050453000	Anicut	4
SN771	10.57318773590	92.46305521080	Anicut	4
SN772	10.59484110580	92.46994156030	Anicut	4
SN773	10.60976891730	92.47226840590	Anicut	4
SN774	10.62534868900	92.46716491110	Anicut	4
SN775	10.64151196680	92.47332198900	Anicut	4
SN776	10.65679522260	92.47594720020	Anicut	4
SN777	10.67294545310	92.47701948330	Anicut	4
SN778	10.56722093910	92.46552053490	Percolation tank	2
SN779	10.56714764270	92.45177247450	Mini percolation tank	1
SN780	10.57548971680	92.45091921530	Mini percolation tank	1
SN781	10.56543635870	92.45048751610	Mini percolation tank	1
SN782	10.66354550620	92.46554542170	Percolation tank	2
SN783	10.65581081020	92.46897347560	Percolation tank	2
SN784	10.64744153860	92.46691217520	Percolation tank	2
SN785	10.66609942760	92.46970549250	Mini percolation tank	1
SN786	10.66215011030	92.46144458730	Mini percolation tank	1
SN787	10.65848149310	92.46158912460	Percolation tank	2
SN788	10.63705173880	92.46892866050	Pakka Check Dam	3
SN789	10.67347561440	92.49094621750	Percolation tank	2
SN790	10.66616895280	92.49167328090	Percolation tank	2
SN791	10.66013870690	92.48784456750	Percolation tank	2
SN792	10.65298413250	92.48380319800	Percolation tank	2
SN793	10.67640233380	92.49709027890	Mini percolation tank	1
SN794	10.65512910670	92.49180192610	Mini percolation tank	1
SN795	10.64448140810	92.49094606450	Percolation tank	2
SN796	10.63649990160	92.48729191100	Percolation tank	2
SN797	10.62951272710	92.47642129040	Pakka Check Dam	3
SN798	10.62471866430	92.46898736880	Pakka Check Dam	3
SN799	10.64020260600	92.50023931560	Mini percolation tank	1
SN800	10.63754562070	92.50277405530	Percolation tank	2
SN801	10.62356195880	92.48073642300	Percolation tank	2

SN802	10.61582279640	92.47676077190	Percolation tank	2
SN803	10.60753544690	92.47508824260	Percolation tank	2
SN804	10.61108123590	92.47939283570	Mini percolation tank	1
SN805	10.60401955310	92.47546572070	Mini percolation tank	1
SN806	10.62506351800	92.50087982790	Mini percolation tank	1
SN807	10.62102065620	92.48680496790	Percolation tank	2
SN808	10.61263884290	92.48654901820	Percolation tank	2
SN809	10.60989275910	92.49291476500	Percolation tank	2
SN810	10.59966049040	92.48912864000	Pakka Check Dam	3
SN811	10.59411518330	92.48481204440	Pakka Check Dam	3
SN812	10.59190697460	92.47883123040	Pakka Check Dam	3
SN813	10.59233600610	92.47022006050	Pakka Check Dam	3
SN814	10.58945450080	92.48057260330	Mini percolation tank	1
SN815	10.58264052880	92.47237557360	Mini percolation tank	1
SN816	10.57941324200	92.47580890170	Mini percolation tank	1
SN817	10.57815061910	92.48965273320	Percolation tank	2
SN818	10.56969881580	92.48995401410	Percolation tank	2
SN819	10.56357839860	92.49581266590	Percolation tank	2
SN820	10.58606490610	92.49096971520	Mini percolation tank	1
SN821	10.57753059500	92.49213838380	Mini percolation tank	1
SN822	10.57300953740	92.49621576420	Mini percolation tank	1
SN823	10.55754060150	92.48752801290	Pakka Check Dam	3
SN824	10.54963342890	92.47416360040	Pakka Check Dam	3
SN825	10.55701757030	92.47419385910	Mini percolation tank	1
SN826	10.56728120280	92.47587154790	Mini percolation tank	1
SN827	10.56576727710	92.48010686770	Mini percolation tank	1
SN828	10.55394132440	92.47791440320	Percolation tank	2
SN829	10.53379845140	92.47180202490	Mini percolation tank	1
SN830	10.54201748120	92.49149049940	Mini percolation tank	1
SN831	10.53851697760	92.48228092910	Mini percolation tank	1
SN832	10.53256350930	92.48658844830	Mini percolation tank	1
SN833	10.52207646080	92.50035723510	Mini percolation tank	1
SN834	10.63147815770	92.45962865190	Pakka Check Dam	3
SN835	10.62294737490	92.45924078630	Pakka Check Dam	3
SN836	10.61425143200	92.45702722200	Pakka Check Dam	3

SN837	10.60522557660	92.45667951480	Pakka Check Dam	3
SN838	10.59742741490	92.45977230040	Pakka Check Dam	3
SN839	10.59182788530	92.46485443730	Pakka Check Dam	3
SN840	10.58318004030	92.45543676020	Pakka Check Dam	3
SN841	10.57386305240	92.45948277770	Pakka Check Dam	3
SN842	10.62126219370	92.45010504170	Mini percolation tank	1
SN843	10.60973031360	92.46251793290	Percolation tank	2
SN844	10.60231855860	92.45913943160	Percolation tank	2
SN845	10.59151159200	92.45611652810	Percolation tank	2
SN846	10.70515385580	92.39187200960	Pakka Check Dam	3
SN847	10.70868635680	92.38393498960	Pakka Check Dam	3
SN848	10.71353220520	92.39276136560	Mini percolation tank	1
SN849	10.70941517660	92.39457613970	Mini percolation tank	1
SN850	10.68437718350	92.40128897490	Pakka Check Dam	3
SN851	10.68146472280	92.38736393850	Pakka Check Dam	3
SN852	10.68260271350	92.39342812600	Percolation tank	2
SN853	10.68020232670	92.39133769510	Percolation tank	2
SN854	10.65913879240	92.40605667150	Mini percolation tank	1
SN855	10.63918253650	92.42056934570	Mini percolation tank	1
SN856	10.63659773170	92.42111299510	Mini percolation tank	1
SN857	10.64534062410	92.41521058940	Percolation tank	2
SN858	10.63184704810	92.41972124120	Pakka Check Dam	3
SN859	10.62299697760	92.43552237900	Mini percolation tank	1
SN860	10.61079616860	92.43346785420	Percolation tank	2
SN861	10.60278756630	92.42202925830	Pakka Check Dam	3
SN862	10.59556665020	92.41966637520	Pakka Check Dam	3
SN863	10.58801724880	92.41854126400	Pakka Check Dam	3
SN864	10.60506235500	92.43270872410	Percolation tank	2
SN865	10.60993956760	92.44671454060	Mini percolation tank	1
SN866	10.60282471020	92.44335594520	Mini percolation tank	1
SN867	10.59807470110	92.44222212000	Percolation tank	2
SN868	10.57937668510	92.42422418070	Pakka Check Dam	3
SN869	10.56165173420	92.42478192290	Pakka Check Dam	3
SN870	10.59061268400	92.44446472880	Mini percolation tank	1
SN871	10.58178431390	92.44217094610	Mini percolation tank	1

SN872	10.57921052250	92.43399280010	Mini percolation tank	1
SN873	10.58055652490	92.43174817440	Mini percolation tank	1
SN874	10.57022413830	92.43099665820	Percolation tank	2
SN875	10.56001830560	92.42831187440	Pakka Check Dam	3
SN876	10.55353470200	92.41931317300	Mini percolation tank	1
SN877	10.57071885180	92.41671240880	Mini percolation tank	1
SN878	10.85438945510	92.54060636090	Mini percolation tank	1
SN879	10.84575446510	92.53159091980	Mini percolation tank	1
SN880	10.85638641140	92.53503671590	Mini percolation tank	1
SN881	10.85552385660	92.53487255860	Percolation tank	2
SN882	10.85423120020	92.53506575950	Percolation tank	2
SN883	10.84983172750	92.51217728100	Mini percolation tank	1
SN884	10.85776739860	92.51155326660	Mini percolation tank	1
SN885	10.85305256550	92.50646455710	Mini percolation tank	1
SN886	10.85038301730	92.52115058230	Mini percolation tank	1
SN887	10.83431994000	92.50417486230	Mini percolation tank	1
SN888	10.82673036880	92.50905525250	Mini percolation tank	1
SN889	10.76388622690	92.54672507840	Mini percolation tank	1
SN890	10.77262184910	92.54778898560	Mini percolation tank	1
SN891	10.76300360010	92.56465648850	Micro Irrigation Tank	5
SN892	10.75964076390	92.52307858850	Percolation tank	2
SN893	10.75891751140	92.53961340440	Mini percolation tank	1
SN894	10.77024401530	92.51687419960	Mini percolation tank	1
SN895	10.78215661260	92.51271701640	Mini percolation tank	1
SN896	10.77988618990	92.51555882670	Percolation tank	2
SN897	10.78624569100	92.52049135590	Percolation tank	2
SN898	10.80220490770	92.50995813120	Mini percolation tank	1
SN899	10.82357623720	92.55695196860	Pakka Check Dam	3
SN900	10.82926563210	92.55055697270	Pakka Check Dam	3
SN901	10.83744428770	92.54702203340	Pakka Check Dam	3
SN902	10.83953341910	92.53872356030	Pakka Check Dam	3
SN903	10.84068212110	92.53035765700	Pakka Check Dam	3
SN904	10.83511112720	92.52708907220	Pakka Check Dam	3
SN905	10.82878178620	92.52336090450	Pakka Check Dam	3
SN906	10.82265331590	92.53867292550	Mini percolation tank	1

SN907	10.82566128960	92.54624973650	Mini percolation tank	1
SN908	10.83111473120	92.54297313210	Mini percolation tank	1
SN909	10.82880556000	92.54332123950	Mini percolation tank	1
SN910	10.82292847290	92.52738857160	Percolation tank	2
SN911	10.81885923840	92.53530025020	Percolation tank	2
SN912	10.81802715080	92.54429760470	Percolation tank	2
SN913	10.81338443330	92.52998470380	Pakka Check Dam	3
SN914	10.81182410350	92.53836446740	Pakka Check Dam	3
SN915	10.81209921180	92.54640985950	Pakka Check Dam	3
SN916	10.80603054610	92.54050299050	Mini percolation tank	1
SN917	10.79901062170	92.53522273960	Percolation tank	2
SN918	10.80375246290	92.54047710820	Percolation tank	2
SN919	10.80245507920	92.54100015500	Mini percolation tank	1
SN920	10.79579757870	92.52126780720	Percolation tank	2
SN921	10.78136249960	92.54127410500	Percolation tank	2
SN922	10.77571047960	92.53979898040	Percolation tank	2
SN923	10.77604558100	92.54365676000	Percolation tank	2
SN924	10.78774744700	92.55149817540	Mini percolation tank	1
SN925	10.79403804910	92.55727148380	Percolation tank	2
SN926	10.79772243660	92.55890260060	Mini percolation tank	1
SN927	10.78898435460	92.56417051090	Percolation tank	2
SN928	10.76837493950	92.58032248510	Percolation tank	2
SN929	10.83690346280	92.55467442450	Mini percolation tank	1
SN930	10.67840128290	92.53133147960	Anicut	4
SN931	10.70527585680	92.52611449790	Anicut	4
SN932	10.72835001900	92.53268942040	Anicut	4
SN933	10.74223982330	92.53206835250	Anicut	4
SN934	10.67256420470	92.50844776600	Percolation tank	2
SN935	10.74256395970	92.52692634260	Percolation tank	2
SN936	10.73265047950	92.52996170860	Percolation tank	2
SN937	10.73912044120	92.53437975750	Percolation tank	2
SN938	10.72954788390	92.53509148630	Mini percolation tank	1
SN939	10.71765541320	92.51055182500	Mini percolation tank	1
SN940	10.71818676660	92.52429738850	Mini percolation tank	1
SN941	10.71960352910	92.52922958770	Mini percolation tank	1

SN942	10.70877116880	92.51997038300	Mini percolation tank	1
SN943	10.68821822070	92.51205607940	Mini percolation tank	1
SN944	10.69672443870	92.51297677520	Mini percolation tank	1
SN945	10.70034407730	92.51893592440	Percolation tank	2
SN946	10.68944921520	92.52308871860	Percolation tank	2
SN947	10.66287121150	92.52737786660	Pakka Check Dam	3
SN948	10.74385224150	92.57094097500	Percolation tank	2
SN949	10.74175020460	92.53637214580	Mini percolation tank	1
SN950	10.68839314930	92.50698461160	Percolation tank	2
SN951	10.69652969360	92.50871083330	Percolation tank	2
SN952	10.70348108420	92.50616636750	Percolation tank	2
SN953	10.69753665980	92.50497471630	Mini percolation tank	1
SN954	10.73681121250	92.56933418040	Mini percolation tank	1
SN955	10.71507335180	92.56170275830	Pakka Check Dam	3
SN956	10.70947472760	92.55653074910	Pakka Check Dam	3
SN957	10.69353049920	92.54591020890	Mini percolation tank	1
SN958	10.69656896590	92.54034534080	Percolation tank	2
SN959	10.70605490270	92.54659750690	Mini percolation tank	1
SN960	10.72656785420	92.57971691990	Anicut	4
SN961	10.71477491700	92.58843376730	Mini percolation tank	1
SN962	10.70231912980	92.59255868410	Mini percolation tank	1
SN963	10.70947412660	92.59160523520	Mini percolation tank	1
SN964	10.71171449440	92.55759640800	Percolation tank	2
SN965	10.71220330710	92.56368742980	Percolation tank	2
SN966	10.70916627570	92.56309052240	Mini percolation tank	1
SN967	10.68849658270	92.56475844940	Mini percolation tank	1
SN968	10.69089346490	92.57630564700	Percolation tank	2
SN969	10.68341024900	92.58016970050	Percolation tank	2
SN970	10.68062654730	92.56456974000	Mini percolation tank	1
SN971	10.67706351960	92.57149660280	Mini percolation tank	1
SN972	10.67159782510	92.56187442680	Percolation tank	2
SN973	10.67138571260	92.55000856150	Mini percolation tank	1
SN974	10.66641139980	92.53977274150	Mini percolation tank	1
SN975	10.66273768790	92.54430632190	Mini percolation tank	1
SN976	10.66487467060	92.55537288400	Pakka Check Dam	3

SN977	10.66854156040	92.56121559350	Mini percolation tank	1
SN978	10.65866371330	92.56123994490	Anicut	4
SN979	10.65560756290	92.53055649670	Mini percolation tank	1
SN980	10.66014678600	92.54882861360	Pakka Check Dam	3
SN981	10.65764768080	92.54037158720	Mini percolation tank	1
SN982	10.65054515160	92.55515150350	Percolation tank	2
SN983	10.63387908220	92.54404228630	Percolation tank	2
SN984	10.63593947450	92.53998689860	Mini percolation tank	1
SN985	10.54377869470	92.50267596610	Mini percolation tank	1
SN986	10.53332524840	92.52779596260	Percolation tank	2
SN987	10.51940140580	92.51099577520	Percolation tank	2
SN988	10.53899655900	92.49851858010	Percolation tank	2
SN989	10.57784284640	92.50191041720	Mini percolation tank	1
SN990	10.57603168480	92.50408177030	Mini percolation tank	1
SN991	10.56736465960	92.50271527020	Percolation tank	2
SN992	10.55304468880	92.51130293970	Percolation tank	2
SN993	10.54716722150	92.52593455450	Percolation tank	2
SN994	10.57088197450	92.50763482720	Mini percolation tank	1
SN995	10.54195979720	92.52125643590	Percolation tank	2
SN996	10.53567590020	92.51682679430	Mini percolation tank	1
SN997	10.53960326560	92.53368430120	Pakka Check Dam	3
SN998	10.56536688100	92.51834545080	Mini percolation tank	1
SN999	10.55867501430	92.52468863280	Percolation tank	2
SN1000	10.55377931220	92.53619513760	Pakka Check Dam	3
SN1001	10.55308960630	92.54236962320	Pakka Check Dam	3
SN1002	10.56364559900	92.52934938300	Percolation tank	2
SN1003	10.56882989680	92.53806055560	Percolation tank	2
SN1004	10.56197418900	92.53667163910	Percolation tank	2
SN1005	10.57388950760	92.53968082150	Mini percolation tank	1
SN1006	10.56596856980	92.54812963180	Percolation tank	2
SN1007	10.57232975170	92.54926689470	Mini percolation tank	1
SN1008	10.58029244130	92.53539317870	Mini percolation tank	1
SN1009	10.58023915500	92.55092348580	Mini percolation tank	1
SN1010	10.58688341050	92.51800614770	Mini percolation tank	1
SN1011	10.58932311110	92.51675791690	Mini percolation tank	1

SN1012	10.59400562110	92.50897459550	Percolation tank	2
SN1013	10.60084472490	92.51052421640	Percolation tank	2
SN1014	10.60377000720	92.51863933370	Percolation tank	2
SN1015	10.59804378080	92.51182156730	Mini percolation tank	1
SN1016	10.61937779590	92.51076740250	Percolation tank	2
SN1017	10.61321114800	92.53602136340	Anicut	4
SN1018	10.61588177220	92.51151001060	Mini percolation tank	1
SN1019	10.60512777950	92.52502915960	Mini percolation tank	1
SN1020	10.61732650760	92.51991169370	Mini percolation tank	1
SN1021	10.62253488410	92.52395911820	Pakka Check Dam	3
SN1022	10.63343226590	92.51285487250	Pakka Check Dam	3
SN1023	10.64394688110	92.50316040400	Mini percolation tank	1
SN1024	10.65065030470	92.51432288380	Mini percolation tank	1
SN1025	10.64196819200	92.51712692250	Mini percolation tank	1
SN1026	10.63734936930	92.51600141540	Mini percolation tank	1
SN1027	10.62955157430	92.53851572960	Mini percolation tank	1
SN1028	10.56427406370	92.49885908360	Percolation tank	2
SN1029	10.63227984260	92.51968567450	Percolation tank	2
SN1030	10.71854978190	92.47660836760	Percolation tank	2
SN1031	10.66728492170	92.52212709280	Pakka Check Dam	3
SN1032	10.66743607820	92.51341170610	Pakka Check Dam	3
SN1033	10.66395352820	92.50543156700	Pakka Check Dam	3
SN1034	10.71777412560	92.50270188640	Anicut	4
SN1035	10.72935913940	92.50500697920	Anicut	4
SN1036	10.74121170050	92.51248874990	Anicut	4
SN1037	10.74939876350	92.52059327030	Anicut	4
SN1038	10.72060062930	92.54356920100	Pakka Check Dam	3
SN1039	10.81534411210	92.50851374920	Percolation tank	2
SN1040	10.79884902110	92.50916332420	Percolation tank	2
SN1041	10.79425732200	92.51340439220	Percolation tank	2
SN1042	10.79117732240	92.52556579430	Pakka Check Dam	3
SN1043	10.78481826870	92.52804891010	Pakka Check Dam	3
SN1044	10.77647926280	92.53540989250	Anicut	4
SN1045	10.68260238100	92.54768570990	Mini percolation tank	1
SN1046	10.80408970280	92.55090446090	Pakka Check Dam	3

SN1047	10.82944346110	92.51278273940	Percolation tank	2
SN1048	10.83597599970	92.50818753620	Percolation tank	2
SN1049	10.69392409310	92.48584897580	Pakka Check Dam	3
SN1050	10.64493620060	92.42702202230	Percolation tank	2
SN1051	10.68034661360	92.43363968560	Percolation tank	2
SN1052	10.69072278340	92.43336162230	Pakka Check Dam	3
SN1053	10.68559260430	92.44955147070	Percolation tank	2
SN1054	10.67883874270	92.45356645070	Percolation tank	2
SN1055	10.71537057590	92.45066285290	Anicut	4
SN1056	10.71997108930	92.44430288370	Anicut	4
SN1057	10.74827657480	92.41506539010	Micro Irrigation Tank	5
SN1058	10.73162311410	92.42598409180	Micro Irrigation Tank	5
SN1059	10.77017098050	92.44711891590	Percolation tank	2
SN1060	10.80222106080	92.44934876560	Percolation tank	2
SN1061	10.80287272340	92.46953206330	Mini percolation tank	1
SN1062	10.83121883340	92.47282386080	Mini percolation tank	1
SN1063	11.76622701070	92.63161030420	Mini percolation tank	1
SN1064	10.75760122150	92.43074935740	Pakka Check Dam	3
SN1065	11.74631098260	92.75278681760	Pakka Check Dam	3
SN1066	11.54515452330	92.23926810110	Mini percolation tank	1
SN1067	11.53964990390	92.23192504460	Mini percolation tank	1
SN1068	11.56711544150	92.22928133870	Mini percolation tank	1
SN1069	11.57967736810	92.22835131250	Mini percolation tank	1
SN1070	11.53407562210	92.24609727530	Percolation tank	2
SN1071	10.70213781180	92.39494843970	Percolation tank	2
SN1072	10.70106090700	92.39976732410	Percolation tank	2
SN1073	11.41634273550	92.63910290330	Mini percolation tank	1
SN1074	11.43180703310	92.66140377460	Mini percolation tank	1
SN1075	11.44057689920	92.66098732820	Mini percolation tank	1
SN1076	11.44233785380	92.64333848930	Mini percolation tank	1
SN1077	11.45765456320	92.64947483660	Mini percolation tank	1
SN1078	11.45880698300	92.61426891030	Mini percolation tank	1
SN1079	11.47989056150	92.64017851470	Mini percolation tank	1
SN1080	11.47480157500	92.62354520990	Mini percolation tank	1
SN1081	11.47200096230	92.61921979040	Mini percolation tank	1

SN1082	11.46983868080	92.62009557150	Mini percolation tank	1
SN1083	11.45000050500	92.64935226720	Mini percolation tank	1
SN1084	11.45544810210	92.65551087400	Mini percolation tank	1
SN1085	11.45907966210	92.66138350360	Mini percolation tank	1
SN1086	11.45676494650	92.64187689260	Percolation tank	2
SN1087	11.46395879990	92.63101250590	Percolation tank	2
SN1088	11.46583065520	92.64467583710	Percolation tank	2
SN1089	11.46693561270	92.65037770110	Mini percolation tank	1
SN1090	11.45984339150	92.63992927750	Mini percolation tank	1
SN1091	11.46371312120	92.66586777520	Mini percolation tank	1
SN1092	11.46544465070	92.67344991620	Percolation tank	2
SN1093	11.44981158420	92.63328852990	Mini percolation tank	1
SN1094	11.44701199100	92.64180327440	Mini percolation tank	1
SN1095	11.43058452860	92.67273288050	Mini percolation tank	1
SN1096	11.43290652260	92.67858586260	Percolation tank	2
SN1097	11.42247905960	92.63428302250	Percolation tank	2
SN1098	11.42498880050	92.63784203650	Percolation tank	2
SN1099	11.37620004330	92.67343051880	Percolation tank	2
SN1100	11.36926404210	92.67364181710	Percolation tank	2
SN1101	11.38067100990	92.68716482350	Percolation tank	2
SN1102	11.37876245400	92.65034337690	Percolation tank	2
SN1103	11.47800448850	92.62755181350	Mini percolation tank	1
SN1104	11.49217617000	92.62677050390	Percolation tank	2
SN1105	11.42976043300	92.64979914580	Mini percolation tank	1
SN1106	11.42746052490	92.66370291320	Mini percolation tank	1
SN1107	11.42937551380	92.66565066360	Mini percolation tank	1
SN1108	11.42553869550	92.66714967350	Mini percolation tank	1
SN1109	11.44226763940	92.67836548480	Mini percolation tank	1
SN1110	11.53254851840	92.70398562530	Percolation tank	2
SN1111	11.52850529540	92.70448319990	Percolation tank	2
SN1112	11.52845587120	92.70699649780	Percolation tank	2
SN1113	11.52341723590	92.71650703010	Percolation tank	2
SN1114	11.52300936180	92.66805035020	Percolation tank	2
SN1115	11.52057279380	92.66756494020	Percolation tank	2
SN1116	11.52074958710	92.66997170140	Pakka Check Dam	3

SN1117	11.52201968450	92.68321943400	Percolation tank	2
SN1118	11.52563192450	92.65050289610	Percolation tank	2
SN1119	11.53484139030	92.68692649540	Percolation tank	2
SN1120	11.54053401280	92.68955698960	Percolation tank	2
SN1121	11.53825686870	92.69306550480	Percolation tank	2
SN1122	11.54426694230	92.70778697230	Percolation tank	2
SN1123	11.54336058050	92.71792040810	Percolation tank	2
SN1124	11.55763587330	92.68338300210	Percolation tank	2
SN1125	11.56903659060	92.66793967870	Percolation tank	2
SN1126	11.56612518760	92.70401653290	Percolation tank	2
SN1127	11.55982481110	92.70526099100	Percolation tank	2
SN1128	11.55811044910	92.71452696910	Percolation tank	2
SN1129	11.55709679870	92.71521939220	Percolation tank	2
SN1130	11.60082310130	92.64443088050	Mini percolation tank	1
SN1131	11.60018362120	92.64875555080	Mini percolation tank	1
SN1132	11.60099561230	92.65060855610	Mini percolation tank	1
SN1133	11.55840253560	92.67636882690	Percolation tank	2
SN1134	11.55127145400	92.70869726810	Percolation tank	2
SN1135	11.60668806600	92.74148011420	Percolation tank	2
SN1136	11.54878003500	92.68841722770	Percolation tank	2
SN1137	11.54867212640	92.67307517700	Percolation tank	2
SN1138	11.54897808540	92.67552530800	Percolation tank	2
SN1139	11.54667952610	92.66981460160	Percolation tank	2
SN1140	11.55241819120	92.67112806410	Percolation tank	2
SN1141	11.54209834480	92.67044595520	Percolation tank	2
SN1142	11.53693630010	92.65801201920	Percolation tank	2
SN1143	11.53016097080	92.66939126920	Percolation tank	2
SN1144	11.53242445280	92.69020896190	Percolation tank	2
SN1145	11.66117225280	92.60348589580	Mini percolation tank	1
SN1146	11.66013021700	92.60391971910	Mini percolation tank	1
SN1147	11.67004476720	92.60514495520	Mini percolation tank	1
SN1148	11.66528400340	92.60750940650	Mini percolation tank	1
SN1149	11.67194813770	92.59969797240	Mini percolation tank	1
SN1150	11.66859859260	92.62819332730	Mini percolation tank	1
SN1151	11.73451764760	92.74103320810	Mini percolation tank	1

SN1152	11.74246593970	92.73307391110	Mini percolation tank	1
SN1153	11.73458713090	92.73708825690	Mini percolation tank	1
SN1154	11.74753352730	92.74757391900	Mini percolation tank	1
SN1155	11.75344754660	92.73771931430	Mini percolation tank	1
SN1156	11.75765324400	92.73971806150	Mini percolation tank	1
SN1157	11.75605791450	92.72653673980	Mini percolation tank	1
SN1158	11.75733092620	92.72764913790	Mini percolation tank	1
SN1159	11.76336628030	92.73380396080	Mini percolation tank	1
SN1160	11.76630611430	92.73273856700	Mini percolation tank	1
SN1161	11.77467705810	92.74232541540	Mini percolation tank	1
SN1162	11.77795175160	92.73339510000	Mini percolation tank	1
SN1163	11.78181718600	92.73185975270	Mini percolation tank	1
SN1164	11.78600289590	92.73615289530	Mini percolation tank	1
SN1165	11.78864885650	92.73895590030	Mini percolation tank	1
SN1166	11.78429008050	92.74571376790	Mini percolation tank	1
SN1167	11.79675189680	92.73910813430	Mini percolation tank	1
SN1168	11.79628043220	92.75153983900	Mini percolation tank	1
SN1169	11.79339309850	92.76130091860	Mini percolation tank	1
SN1170	11.77148346880	92.75093152100	Pakka Check Dam	3
SN1171	11.78576048490	92.66707661750	Percolation tank	2
SN1172	11.76070507800	92.68636511540	Percolation tank	2
SN1173	11.75780372580	92.68349036270	Percolation tank	2
SN1174	11.76103823410	92.68136798240	Pakka Check Dam	3
SN1175	11.82679830510	92.65262312740	Percolation tank	2
SN1176	11.82107422220	92.65213978070	Percolation tank	2
SN1177	11.84716967330	92.62992989190	Pakka Check Dam	3
SN1178	11.88968717400	92.61305901240	Percolation tank	2
SN1179	11.89768216300	92.61368481070	Percolation tank	2
SN1180	11.90223160010	92.61397072860	Percolation tank	2
SN1181	11.90759737700	92.61672576180	Percolation tank	2
SN1182	11.89101783440	92.62913135050	Percolation tank	2
SN1183	11.83942724440	92.76068103200	Percolation tank	2
SN1184	11.83931068020	92.77284305050	Percolation tank	2
SN1185	11.84330238500	92.77537168880	Percolation tank	2
SN1186	11.85593592610	92.76121223340	Percolation tank	2

SN1187	11.85059613750	92.76342370360	Percolation tank	2
SN1188	11.87469583380	92.78023067980	Percolation tank	2
SN1189	11.88352272510	92.77876663810	Percolation tank	2
SN1190	11.86226896660	92.74506478430	Mini percolation tank	1
SN1191	11.86025663760	92.74934378240	Mini percolation tank	1
SN1192	11.85872426470	92.74923908610	Mini percolation tank	1
SN1193	11.85852439000	92.74283357710	Mini percolation tank	1
SN1194	11.86991083230	92.75741472840	Mini percolation tank	1
SN1195	11.87681550060	92.76736138150	Mini percolation tank	1
SN1196	11.87109942670	92.77062736320	Mini percolation tank	1
SN1197	11.82411054280	92.75183043590	Mini percolation tank	1
SN1198	11.84934608550	92.75721612850	Mini percolation tank	1
SN1199	11.88225964520	92.76619996800	Mini percolation tank	1
SN1200	11.85130489850	92.74522485330	Mini percolation tank	1
SN1201	11.84478970480	92.73947207280	Mini percolation tank	1
SN1202	11.83787975010	92.73582673860	Mini percolation tank	1
SN1203	11.82441640280	92.73575775400	Mini percolation tank	1
SN1204	11.81663520840	92.73465227630	Mini percolation tank	1
SN1205	11.81159174250	92.73817487000	Mini percolation tank	1
SN1206	11.80375350600	92.74255187450	Mini percolation tank	1
SN1207	11.77716194900	92.71709979750	Mini percolation tank	1
SN1208	11.71993319140	92.72245324650	Percolation tank	2
SN1209	11.71340635220	92.72247637940	Percolation tank	2
SN1210	11.71288921960	92.73886530100	Percolation tank	2
SN1211	11.70820985840	92.73811590160	Percolation tank	2
SN1212	11.83466112440	92.76990054710	Anicut	4
SN1213	11.90807152360	92.74778501860	Percolation tank	2
SN1214	11.90709707850	92.75407019700	Percolation tank	2
SN1215	11.84120984240	92.68134616550	Percolation tank	2
SN1216	11.84406827970	92.68404263250	Percolation tank	2
SN1217	11.85140058400	92.68715742490	Percolation tank	2
SN1218	11.86190772470	92.67330491720	Percolation tank	2
SN1219	11.85007070120	92.65824068610	Percolation tank	2
SN1220	11.85522167150	92.67270846250	Percolation tank	2
SN1221	11.85495969860	92.67454223690	Percolation tank	2

SN1222	11.80639708620	92.65017083190	Percolation tank	2
SN1223	11.81090363370	92.65341385780	Percolation tank	2
SN1224	11.80715197850	92.66092760350	Percolation tank	2
SN1225	11.80659700890	92.67231514870	Percolation tank	2
SN1226	11.80939882420	92.67322172330	Percolation tank	2
SN1227	11.89175364630	92.54075856820	Pakka Check Dam	3
SN1228	11.87837811420	92.54787584960	Pakka Check Dam	3
SN1229	11.83106966930	93.05145718480	Percolation tank	2
SN1230	11.83859796710	93.05364393370	Percolation tank	2
SN1231	10.52987076110	92.47836340460	Pakka Check Dam	3
SN1232	10.78297460920	92.52694843280	Pakka Check Dam	3
SN1233	10.81759918880	92.43813083840	Percolation tank	2
SN1234	12.22155383860	92.69916666670	Mini percolation tank	1
SN1235	12.21734809280	92.69989872860	Mini percolation tank	1
SN1236	12.20571892000	92.70824752330	Mini percolation tank	1
SN1237	12.19528365930	92.67713060990	Mini percolation tank	1
SN1238	12.19108412390	92.68766719370	Mini percolation tank	1
SN1239	12.18655640290	92.69466920860	Percolation tank	2
SN1240	12.18993099040	92.69666666670	Mini percolation tank	1
SN1241	12.17822061090	92.67600241700	Mini percolation tank	1
SN1242	12.18091613740	92.68318987130	Percolation tank	2
SN1243	12.17980149280	92.66224129360	Mini percolation tank	1
SN1244	12.17106918850	92.73210168120	Pakka Check Dam	3
SN1245	12.16499219690	92.67079431770	Mini percolation tank	1
SN1246	12.16804527740	92.65068930530	Mini percolation tank	1
SN1247	12.16418688910	92.72497977760	Mini percolation tank	1
SN1248	12.16561374200	92.69153528310	Pakka Check Dam	3
SN1249	12.18176013020	92.69694548960	Pakka Check Dam	3
SN1250	12.16571976160	92.72966851210	Percolation tank	2
SN1251	12.16342711550	92.70213022440	Mini percolation tank	1
SN1252	12.15833333330	92.67034619070	Mini percolation tank	1
SN1253	12.16196201060	92.67446201060	Percolation tank	2
SN1254	12.15503175830	92.69410315010	Mini percolation tank	1
SN1255	12.15104942590	92.65328046030	Mini percolation tank	1
SN1256	12.15463312680	92.67064989670	Percolation tank	2

SN1257	12.15375565470	92.74274775910	Mini percolation tank	1
SN1258	12.16541093100	92.74791322530	Mini percolation tank	1
SN1259	12.14925949020	92.70626581690	Mini percolation tank	1
SN1260	12.15026795370	92.72592265120	Percolation tank	2
SN1261	12.15288578550	92.72997941260	Percolation tank	2
SN1262	12.15810428370	92.64628654610	Percolation tank	2
SN1263	12.14825456230	92.64630595950	Percolation tank	2
SN1264	12.15250000050	92.68833333290	Percolation tank	2
SN1265	12.14534941720	92.70750000000	Percolation tank	2
SN1266	12.13847085350	92.68194991930	Mini percolation tank	1
SN1267	12.14143947110	92.68381315700	Mini percolation tank	1
SN1268	12.13962169580	92.72577028260	Mini percolation tank	1
SN1269	12.14854615700	92.73184652100	Mini percolation tank	1
SN1270	12.13912672550	92.74772258430	Mini percolation tank	1
SN1271	12.13828504870	92.64182367640	Pakka Check Dam	3
SN1272	12.13811988000	92.66666666670	Percolation tank	2
SN1273	12.13040160210	92.73712852690	Mini percolation tank	1
SN1274	12.13000000000	92.68666767940	Mini percolation tank	1
SN1275	12.12699918690	92.69085737520	Mini percolation tank	1
SN1276	12.12850668740	92.69400445830	Mini percolation tank	1
SN1277	12.12852054460	92.66583333330	Mini percolation tank	1
SN1278	12.12720078310	92.63970078310	Pakka Check Dam	3
SN1279	12.12900765400	92.71591266520	Mini percolation tank	1
SN1280	12.12394920190	92.71207550640	Mini percolation tank	1
SN1281	12.12062944390	92.65155583420	Mini percolation tank	1
SN1282	12.13019023330	92.65750000000	Mini percolation tank	1
SN1283	12.12153019900	92.65376887410	Mini percolation tank	1
SN1284	12.11669390230	92.71204247990	Percolation tank	2
SN1285	12.12049813610	92.71583333330	Mini percolation tank	1
SN1286	12.11704421900	92.67865102090	Mini percolation tank	1
SN1287	12.11363308190	92.69582015090	Percolation tank	2
SN1288	12.12005051770	92.69870490980	Mini percolation tank	1
SN1289	12.11376605800	92.69750000000	Mini percolation tank	1
SN1290	12.11136417630	92.71333754790	Mini percolation tank	1
SN1291	12.10730575640	92.71686091030	Pakka Check Dam	3

SN1292	12.10583333340	92.63166666660	Percolation tank	2
SN1293	12.10703134600	92.67273432700	Mini percolation tank	1
SN1294	12.10821807940	92.67583333330	Percolation tank	2
SN1295	12.11688943990	92.72627887980	Mini percolation tank	1
SN1296	12.11155267430	92.72329058620	Mini percolation tank	1
SN1297	12.10551034240	92.72102471170	Mini percolation tank	1
SN1298	12.10739221840	92.66222763220	Mini percolation tank	1
SN1299	12.10750000000	92.70013947060	Percolation tank	2
SN1300	12.10930705950	92.70708784520	Pakka Check Dam	3
SN1301	12.10274202540	92.67905940940	Mini percolation tank	1
SN1302	12.10103305420	92.69686638760	Percolation tank	2
SN1303	12.09750000000	92.69036891110	Mini percolation tank	1
SN1304	12.10083333330	92.72127729450	Percolation tank	2
SN1305	12.09808276620	92.70267701230	Mini percolation tank	1
SN1306	12.09760458290	92.71260458290	Mini percolation tank	1
SN1307	12.10307146380	92.71557146380	Mini percolation tank	1
SN1308	12.10708333370	92.65166666670	Percolation tank	2
SN1309	12.08607061560	92.64750000000	Percolation tank	2
SN1310	12.10510363970	92.73241708820	Mini percolation tank	1
SN1311	12.08335355580	92.73414644420	Mini percolation tank	1
SN1312	12.09110473920	92.67263570290	Pakka Check Dam	3
SN1313	12.08110903090	92.66511726460	Pakka Check Dam	3
SN1314	12.08083333330	92.72979429260	Percolation tank	2
SN1315	12.07767404830	92.67877900800	Mini percolation tank	1
SN1316	12.07831462840	92.68142589930	Mini percolation tank	1
SN1317	12.07487101340	92.64587632890	Percolation tank	2
SN1318	12.09812433480	92.65940079220	Percolation tank	2
SN1319	12.08560730920	92.65736758000	Percolation tank	2
SN1320	12.07473835900	92.65361917950	Percolation tank	2
SN1321	12.07253542020	92.66745749580	Pakka Check Dam	3
SN1322	12.07496487220	92.66037275690	Mini percolation tank	1
SN1323	12.06921650070	92.68328349930	Percolation tank	2
SN1324	12.07416666660	92.68708333320	Mini percolation tank	1
SN1325	12.06673351050	92.75263368770	Mini percolation tank	1
SN1326	12.07198824480	92.62727433980	Mini percolation tank	1

SN1327	12.06573625470	92.72524541820	Percolation tank	2
SN1328	12.06977992810	92.72977992810	Percolation tank	2
SN1329	12.07784211340	92.69666666680	Mini percolation tank	1
SN1330	12.06881731190	92.69266132620	Mini percolation tank	1
SN1331	12.06346880420	92.67231253610	Mini percolation tank	1
SN1332	12.09871829000	92.64416666670	Mini percolation tank	1
SN1333	12.08719467920	92.64000000000	Mini percolation tank	1
SN1334	12.07468552810	92.63904087790	Mini percolation tank	1
SN1335	12.06269148820	92.63833333330	Mini percolation tank	1
SN1336	12.05768010990	92.71934677650	Mini percolation tank	1
SN1337	12.06297545380	92.72214212050	Mini percolation tank	1
SN1338	12.06451387470	92.65105768570	Pakka Check Dam	3
SN1339	12.05865461910	92.64835341390	Pakka Check Dam	3
SN1340	12.05416666670	92.66770321330	Mini percolation tank	1
SN1341	12.05437237400	92.67250000000	Pakka Check Dam	3
SN1342	12.05444120730	92.70902939630	Mini percolation tank	1
SN1343	12.06850875110	92.71144736150	Mini percolation tank	1
SN1344	12.05615463730	92.71000000000	Mini percolation tank	1
SN1345	12.05083333330	92.64946807940	Mini percolation tank	1
SN1346	12.04999999950	92.74434010300	Mini percolation tank	1
SN1347	12.04695002680	92.71748325310	Anicut	4
SN1348	12.05681905390	92.68883809320	Percolation tank	2
SN1349	12.05092378680	92.68750000000	Percolation tank	2
SN1350	12.04854243550	92.74783271760	Mini percolation tank	1
SN1351	12.07322555170	92.70222763220	Mini percolation tank	1
SN1352	12.06125275620	92.69833333330	Mini percolation tank	1
SN1353	12.04972156420	92.69583333330	Mini percolation tank	1
SN1354	12.04924642430	92.64793454490	Percolation tank	2
SN1355	12.04458333380	92.63583333380	Pakka Check Dam	3
SN1356	12.04007286850	92.66996356580	Percolation tank	2
SN1357	12.03915229590	92.67456536980	Percolation tank	2
SN1358	12.04943851380	92.72924352440	Anicut	4
SN1359	12.03815663950	92.73184336050	Anicut	4
SN1360	12.04167652140	92.73667159400	Mini percolation tank	1
SN1361	12.03750000000	92.75113474610	Mini percolation tank	1

SN1362	12.04103654660	92.69416666670	Mini percolation tank	1
SN1363	12.03634713870	92.72980999030	Mini percolation tank	1
SN1364	12.04151689320	92.67885002060	Anicut	4
SN1365	12.03757896960	92.70893682430	Mini percolation tank	1
SN1366	12.03443339590	92.68600909660	Percolation tank	2
SN1367	12.03610495790	92.62664820780	Mini percolation tank	1
SN1368	12.03051432410	92.67202148620	Percolation tank	2
SN1369	12.03270899860	92.70726587450	Percolation tank	2
SN1370	12.02543688910	92.72789644420	Percolation tank	2
SN1371	12.02648803090	92.73386924080	Percolation tank	2
SN1372	12.02770321330	92.65083333330	Mini percolation tank	1
SN1373	12.03900322740	92.64924838630	Mini percolation tank	1
SN1374	12.02749999980	92.64083333290	Mini percolation tank	1
SN1375	12.03575021800	92.63955943060	Mini percolation tank	1
SN1376	12.02431036020	92.66181036020	Mini percolation tank	1
SN1377	12.02400870130	92.68824347410	Mini percolation tank	1
SN1378	12.02027470200	92.70583333330	Percolation tank	2
SN1379	12.01545794210	92.64545794210	Mini percolation tank	1
SN1380	12.01890145520	92.71612116420	Mini percolation tank	1
SN1381	12.01708982330	92.67416666670	Anicut	4
SN1382	12.01466920860	92.62927693050	Pakka Check Dam	3
SN1383	12.02438352640	92.63094176270	Pakka Check Dam	3
SN1384	12.00996978680	92.63746978680	Mini percolation tank	1
SN1385	12.01319494500	92.68513838830	Mini percolation tank	1
SN1386	12.02238252520	92.67750000000	Mini percolation tank	1
SN1387	12.00932948320	92.64033204990	Percolation tank	2
SN1388	12.01085342330	92.67266264870	Mini percolation tank	1
SN1389	12.00917562280	92.70084228950	Percolation tank	2
SN1390	12.00826075340	92.63333333330	Percolation tank	2
SN1391	12.00312903010	92.72231050410	Mini percolation tank	1
SN1392	12.00511525390	92.63750000000	Pakka Check Dam	3
SN1393	12.00354233190	92.66809920780	Pakka Check Dam	3
SN1394	12.00271495440	92.66135747720	Mini percolation tank	1
SN1395	11.99735803530	92.63000000000	Mini percolation tank	1
SN1396	11.99668949830	92.72667808250	Mini percolation tank	1

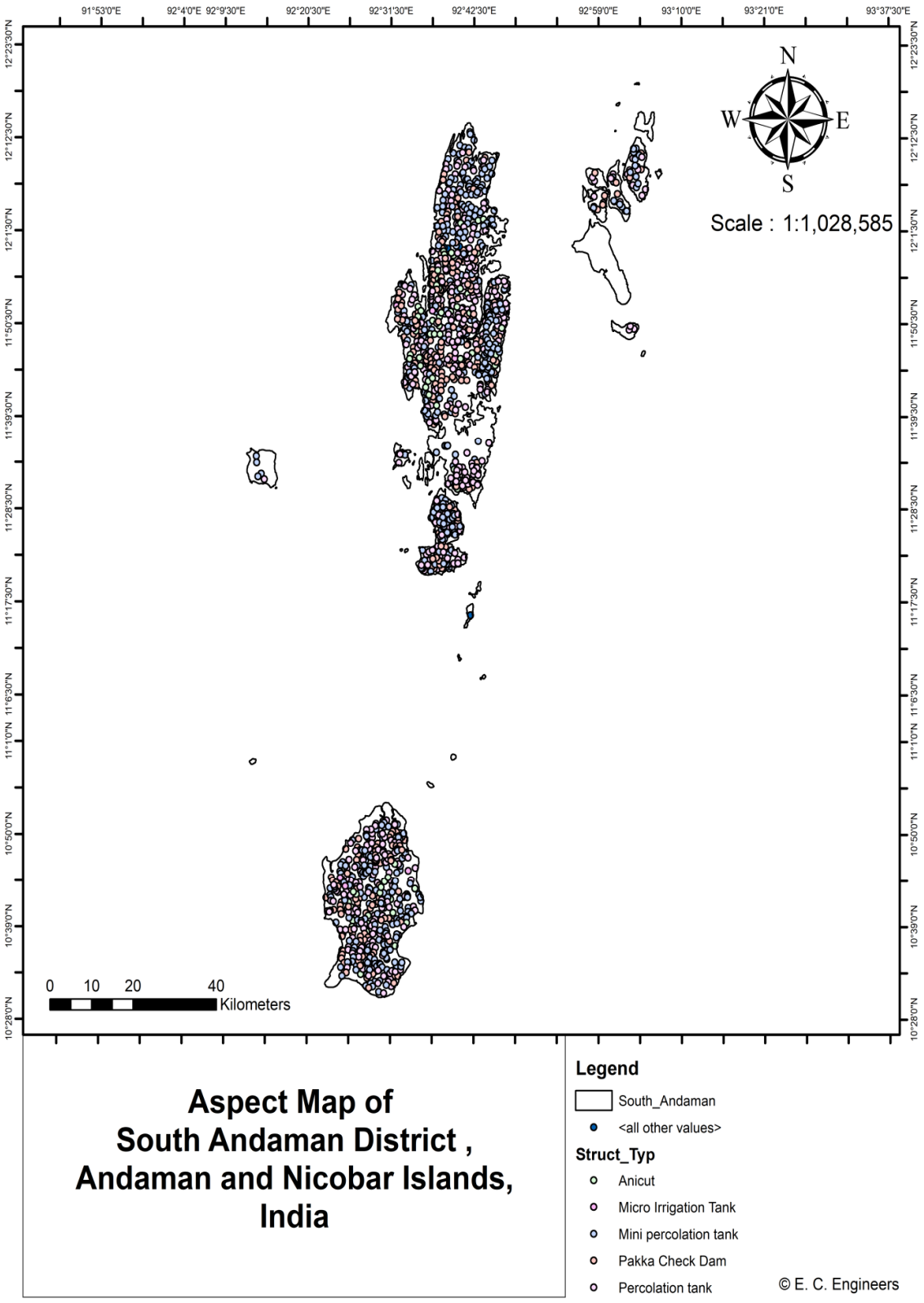


Fig:-10 Action plan map of South Andaman